

✓ UNet

 Open in Colab

✓ Environment Set Up

✓ Requirements

```
1 !pip install monai[einops]

2  Collecting monai[einops]
   Downloading monai-1.3.1-py3-none-any.whl (1.4 MB)
   ━━━━━━━━━━━━━━━━ 1.4/1.4 MB 20.1 MB/s eta 0:00:00
Requirement already satisfied: torch>=1.9 in /usr/local/lib/python3.10/dist-packages (from monai[einops]) (2.3.0+cu121)
Requirement already satisfied: numpy>=1.20 in /usr/local/lib/python3.10/dist-packages (from monai[einops]) (1.25.2)
Collecting einops (from monai[einops])
   Downloading einops-0.8.0-py3-none-any.whl (43 kB)
   ━━━━━━━━━━━━━━ 43.2/43.2 kB 5.4 MB/s eta 0:00:00
Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (3.14.0)
Requirement already satisfied: typing-extensions>=4.8.0 in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (4.1)
Requirement already satisfied: sympy in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (1.12)
Requirement already satisfied: networkx in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (3.3)
Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (3.1.4)
Requirement already satisfied: fsspec in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (2023.6.0)
Collecting nvidia-cuda-nvrtc-cu12==12.1.105 (from torch>=1.9->monai[einops])
   Using cached nvidia_cuda_nvrtc_cu12-12.1.105-py3-none-manylinux1_x86_64.whl (23.7 MB)
Collecting nvidia-cuda-runtime-cu12==12.1.105 (from torch>=1.9->monai[einops])
   Using cached nvidia_cuda_runtime_cu12-12.1.105-py3-none-manylinux1_x86_64.whl (823 kB)
Collecting nvidia-cuda-cupti-cu12==12.1.105 (from torch>=1.9->monai[einops])
   Using cached nvidia_cuda_cupti_cu12-12.1.105-py3-none-manylinux1_x86_64.whl (14.1 MB)
Collecting nvidia-cudnn-cu12==8.9.2.26 (from torch>=1.9->monai[einops])
   Using cached nvidia_cudnn_cu12-8.9.2.26-py3-none-manylinux1_x86_64.whl (731.7 MB)
Collecting nvidia-cublas-cu12==12.1.3.1 (from torch>=1.9->monai[einops])
   Using cached nvidia_cublas_cu12-12.1.3.1-py3-none-manylinux1_x86_64.whl (410.6 MB)
Collecting nvidia-cufft-cu12==11.0.2.54 (from torch>=1.9->monai[einops])
   Using cached nvidia_cufft_cu12-11.0.2.54-py3-none-manylinux1_x86_64.whl (121.6 MB)
Collecting nvidia-curand-cu12==10.3.2.106 (from torch>=1.9->monai[einops])
   Using cached nvidia_curand_cu12-10.3.2.106-py3-none-manylinux1_x86_64.whl (56.5 MB)
Collecting nvidia-cusolver-cu12==11.4.5.107 (from torch>=1.9->monai[einops])
   Using cached nvidia_cusolver_cu12-11.4.5.107-py3-none-manylinux1_x86_64.whl (124.2 MB)
Collecting nvidia-cusparse-cu12==12.1.0.106 (from torch>=1.9->monai[einops])
   Using cached nvidia_cusparse_cu12-12.1.0.106-py3-none-manylinux1_x86_64.whl (196.0 MB)
Collecting nvidia-nccl-cu12==2.20.5 (from torch>=1.9->monai[einops])
   Using cached nvidia_nccl_cu12-2.20.5-py3-none-manylinux2014_x86_64.whl (176.2 MB)
Collecting nvidia-nvtx-cu12==12.1.105 (from torch>=1.9->monai[einops])
   Using cached nvidia_nvtx_cu12-12.1.105-py3-none-manylinux1_x86_64.whl (99 kB)
Requirement already satisfied: triton==2.3.0 in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (2.3.0)
Collecting nvidia-nvjitlink-cu12 (from nvidia-cusolver-cu12==11.4.5.107->torch>=1.9->monai[einops])
   Downloading nvidia_nvjitlink_cu12-12.5.40-py3-none-manylinux2014_x86_64.whl (21.3 MB)
   ━━━━━━━━━━━━━━ 21.3/21.3 kB 67.4 MB/s eta 0:00:00
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages (from jinja2->torch>=1.9->monai[einops]) (2.1)
Requirement already satisfied: mpmpmath>=0.19 in /usr/local/lib/python3.10/dist-packages (from sympy->torch>=1.9->monai[einops]) (1.3.0)
Installing collected packages: nvidia-nvtx-cu12, nvidia-nvjitlink-cu12, nvidia-nccl-cu12, nvidia-curand-cu12, nvidia-cufft-cu12, nvidia-cusparse-cu12, nvidia-cublas-cu12-12.1.3.1 nvidia-cuda-cupti-cu12-12.1.105 nvidia-cuda-nvrtc-cu12-12.1.
```

✓ Colab Integration

```
1 # Set up Colab Workspace
2 from google.colab import drive
3
4 drive.mount('/content/drive', force_remount=True)
5
6 !ln -s /content/drive/MyDrive/TFM/data /content/data
7 !ln -s /content/drive/MyDrive/TFM/utils /content/utils
8 !ln -s /content/drive/MyDrive/TFM/outputs /content/outputs
```

 Mounted at /content/drive

Imports

```
1 # System
2 import os
3 import time
4 from math import nan
5
6 # Data Load & Visualization
7 import numpy as np
8 import pandas as pd
9 import matplotlib.pyplot as plt
10
11 # Monai
12 from monai.data import DataLoader
13 from monai.losses import DiceLoss
14 from monai.metrics import DiceMetric
15 from monai.data import decollate_batch
16 from monai.utils import set_determinism
17 from monai.handlers.utils import from_engine
18 from monai.inferers import sliding_window_inference
19
20 # PyTorch
21 import torch
22 from torch.utils.data import SequentialSampler
23
24 # Utils
25 from utils.Models import UNET
26 from utils.Transforms import Transforms
27 from utils.Plots import plot_gt_vs_pred
28 from utils.UCSF_Dataset import UCSF_Dataset
```

Config

```
1 # Check if CUDA is available
2 device = None
3 if torch.cuda.is_available():
4     device = torch.device("cuda")
5     print("Running on GPU")
6 else:
7     device = torch.device("cpu")
8     print("Running on CPU")
9
10 # Print the device
11 print(f"Device: {device}")
```

→ Running on GPU
Device: cuda

```
1 # Seeds
2 seed = 33
3 set_determinism(seed=seed) # Monai
4 np.random.seed(seed) # Numpy
5 torch.manual_seed(seed) # PyTorch
```

→ <torch._C.Generator at 0x79a6f97b1950>

```
1 # Configs
2 %matplotlib inline
3 %load_ext cudf.pandas
4 pd.set_option("display.max_columns", None)
```

User Configurations

```

1 # Model Configurations
2 model_name = "UNet"
3 model = UNET
4 b_size = 1 # Batch Size
5 t_size = None # Training Subjects (None for all)
6 v_size = None # Validation Subjects (None for all)
7 spatial_size = (240, 240, 160)
8
9 # Training Configuration
10 init_epoch = 0 # 0 if new training
11 best_epoch = None # Load model if not training from epoch 0 - None if new training
12 max_epochs = 100
13 best_metric = -1
14 best_metric_epoch = -1
15 if best_epoch is not None:
16     best_metric_epoch = best_epoch
17     if os.path.exists(f"outputs/{model_name}/{model_name}_metrics.csv"):
18         df = pd.read_csv(f"outputs/{model_name}/{model_name}_metrics.csv")
19         best_metric = df.loc[df["epoch"] == best_epoch]["metric"].values[0]

```

Load Data

```

1 # Load Subjects Information
2 train_df = pd.read_csv('data/TRAIN.csv')
3 val_df = pd.read_csv('data/VAL.csv')
4 test_df = pd.read_csv('data/TEST.csv')
5
6 train_df.head()

```

	SubjectID	Sex	CancerType	ScannerType	In-plane voxel size (mm)	Matrix size	Craniotomy/Biopsy/Resection	Prior	Age	Scanner Strength (Tesla)	Slice Thickness (mm)	NumberMetast
0	100381A	Male	Lung	GE 1.5 T Signa HDxt	0.86x0.86	256x256x126		No	71.0	1.5	1.5	
1	100414B	Female	Breast	GE 1.5 T Signa HDxt	0.59x0.59	512x512x50		No	52.0	1.5	3.0	
2	100132B	Male	Lung	GE 1.5 T Signa HDxt	0.5x0.5	512x512x156		No	55.0	1.5	1.2	
3	100212A	Female	Lung	GE 1.5 T Signa HDxt	1.17x1.17	256x256x98		No	52.0	1.5	1.5	
4	100243B	Female	Breast	GE 1.5 T Signa HDxt	0.86x0.86	256x256x100		No	55.0	1.5	1.5	

```

1 transforms = Transforms(seed)
2
3 # Train Dataset
4 train_images = [train_df['T1pre'], train_df['FLAIR'], train_df['T1post'], train_df['T2Synth']]
5 train_labels = train_df['BraTS-seg']
6 train_dataset = UCSF_Dataset(train_images, train_labels, transforms.train(spatial_size=spatial_size), t_size)
7
8 # Validation Dataset
9 val_images = [val_df['T1pre'], val_df['FLAIR'], val_df['T1post'], val_df['T2Synth']]
10 val_labels = val_df['BraTS-seg']
11 val_dataset = UCSF_Dataset(val_images, val_labels, transforms.val(), v_size)
12
13 # Samplers
14 train_sampler = SequentialSampler(train_dataset)
15 val_sampler = SequentialSampler(val_dataset)
16
17 # DataLoaders
18 train_loader = DataLoader(train_dataset, batch_size=b_size, shuffle=False, sampler=train_sampler)
19 val_loader = DataLoader(val_dataset, batch_size=1, shuffle=False, sampler=val_sampler)

```

Training

Parameters

```
1 # Training
2 VAL_AMP = True
3 lr = 1e-4
4 weight_decay = 1e-5
5
6 # Report Frequency
7 plt_imgs = []
8 val_interval = 1
9 plot_interval = 1
10 best_metric_update = False
11 best_metric_update_epoch = best_epoch if best_epoch is not None else -1
12 max_step = len(train_dataset) // train_loader.batch_size - 1
13 max_val_step = len(val_dataset) // val_loader.batch_size - 3
14
15 # Metrics Storages
16 best_metrics_epochs_and_time = [[], [], []]
17 epoch_loss_values = []
18 val_loss_values = []
19 metric_values = []
20 metric_values_tc = []
21 metric_values_wt = []
22 metric_values_et = []
```

Model, Loss, Optimizer & Inference

```

1 # Model
2 model.to(device)
3
4 # Load model from file
5 if best_epoch is not None:
6     if os.path.exists(f"outputs/{model_name}/{model_name}_{best_epoch}.pth"):
7         model.load_state_dict(torch.load(f"outputs/{model_name}/{model_name}_{best_epoch}.pth"))
8
9 # Report File Headers
10 if best_epoch is None:
11     with open(f"outputs/{model_name}/{model_name}_metrics.csv", "a") as f:
12         f.write(f"epoch,metric,metric_tc,metric_wt,metric_et,train_loss,val_loss\n")
13
14 # Loss Function
15 loss_function = DiceLoss(smooth_nr=1e-5, smooth_dr=1e-5, squared_pred=True, to_onehot_y=False, sigmoid=True)
16
17 # Optimizer
18 optimizer = torch.optim.Adam(model.parameters(), lr, weight_decay=weight_decay)
19 lr_scheduler = torch.optim.lr_scheduler.CosineAnnealingLR(optimizer, T_max=max_epochs)
20
21 # Metrics
22 dice_metric = DiceMetric(include_background=True, reduction="mean")
23 dice_metric_batch = DiceMetric(include_background=True, reduction="mean_batch")
24
25 # Inference Method
26 def inference(input):
27     def _compute(input):
28         return sliding_window_inference(
29             inputs=input,
30             roi_size=spatial_size,
31             sw_batch_size=1,
32             predictor=model,
33             overlap=0.5,
34         )
35
36     if VAL_AMP:
37         with torch.cuda.amp.autocast():
38             return _compute(input)
39     else:
40         return _compute(input)
41
42 # AMP to accelerate training
43 scaler = torch.cuda.amp.GradScaler()
44
45 # enable cuDNN benchmark
46 torch.backends.cudnn.benchmark = True

```

▼ Training Process

```

1 total_start = time.time()
2 for epoch in range(init_epoch, max_epochs):
3     epoch_start = time.time()
4     print("-" * 10)
5     print(f"epoch {epoch + 1}/{max_epochs}")
6
7     # TRAINING
8     model.train()
9     epoch_loss = 0
10    step = 0
11    print('TRAIN')
12    for batch_data in train_loader:
13        step_start = time.time()
14        step += 1
15        inputs, labels = (
16            batch_data["image"].to(device),
17            batch_data["label"].to(device),
18        )
19        optimizer.zero_grad()
20        with torch.cuda.amp.autocast():
21            outputs = model(inputs)
22            loss = loss_function(outputs, labels)
23            scaler.scale(loss).backward()
24            scaler.step(optimizer)
25            scaler.update()
26            epoch_loss += loss.item()

```

```

27
28     # Batch Information
29     print(f"    Batch {step}/{len(train_dataset)} // train_loader.batch_size}"
30         f", train_loss: {loss.item():.4f}"
31         f", step time: {(time.time() - step_start):.4f}")
32
33     # Store the image to plot
34     if step == max_step:
35         plt_imgs = [labels[0], transforms.post()(outputs[0])]
36
37     # Epoch Training Loss
38     lr_scheduler.step()
39     epoch_loss /= step
40     epoch_loss_values.append(epoch_loss)
41
42     # Plot the Img
43     if (epoch + 1) % plot_interval == 0:
44         plot_gt_vs_pred(plt_imgs[0], plt_imgs[1], True)
45
46     # VALIDATION
47     print('VAL')
48     val_loss = 0
49     val_step = 0
50     if (epoch + 1) % val_interval == 0:
51         model.eval()
52         with torch.no_grad():
53             best_val_dice = -1
54             for val_data in val_loader:
55                 val_inputs, val_labels = (
56                     val_data["image"].to(device),
57                     val_data["label"].to(device),
58                 )
59                 val_step += 1
60                 val_outputs = inference(val_inputs)
61                 loss_value = loss_function(val_outputs[0], val_labels[0])
62                 val_loss += loss_value.item()
63
64                 val_outputs = [transforms.post()(x) for x in val_outputs]
65
66                 dice_metric(y_pred=val_outputs, y=val_labels)
67                 dice_metric_batch(y_pred=val_outputs, y=val_labels)
68
69                 # Batch Information
70                 print(f"    Batch {val_step}/{len(val_dataset)} // val_loader.batch_size}"
71                     f", val_loss: {loss_value.item():.4f}")
72
73                 # Store plot image
74                 if val_step == max_val_step:
75                     plt_imgs = [val_labels[0], val_outputs[0]]
76
77                 # Epoch Validation Loss
78                 val_loss /= val_step
79                 val_loss_values.append(val_loss)
80
81                 # Plot the img
82                 if (epoch + 1) % plot_interval == 0:
83                     plot_gt_vs_pred(plt_imgs[0], plt_imgs[1], False)
84
85                 # Metric Calculation
86                 metric = dice_metric.aggregate().item()
87                 metric_values.append(metric)
88                 metric_batch = dice_metric_batch.aggregate()
89                 metric_tc = metric_batch[0].item()
90                 metric_values_tc.append(metric_tc)
91                 metric_wt = metric_batch[1].item()
92                 metric_values_wt.append(metric_wt)
93                 metric_et = metric_batch[2].item()
94                 metric_values_et.append(metric_et)
95                 dice_metric.reset()
96                 dice_metric_batch.reset()
97
98                 # Save Last State
99                 torch.save(
100                     model.state_dict(),
101                     os.path.join(f"outputs/{model_name}/last_{model_name}_{epoch+1}.pth"),
102                 )
103
104                 # Remove previous state

```

```

105     # REMOVE PREVIOUS STATE
106     if epoch > 0:
107         os.remove(
108             os.path.join(f"outputs/{model_name}/last_{model_name}_{epoch}.pth")
109         )
110
111     # Update Best Metric
112     if metric > best_metric:
113         # Save best state
114         best_metric = metric
115         best_metric_epoch = epoch + 1
116         best_metrics_epochs_and_time[0].append(best_metric)
117         best_metrics_epochs_and_time[1].append(best_metric_epoch)
118         best_metrics_epochs_and_time[2].append(time.time() - total_start)
119         # Save best model
120         torch.save(
121             model.state_dict(),
122             os.path.join(f"outputs/{model_name}/best_{model_name}_{epoch+1}.pth"),
123         )
124         # Remove previous best model
125         if best_metric_update_epoch != -1:
126             os.remove(
127                 os.path.join(f"outputs/{model_name}/best_{model_name}_{best_metric_update_epoch}.pth")
128             )
129         # Update best epoch
130         best_metric_update_epoch = epoch + 1
131         best_metric_update = True
132
133     # Save all metrics in csv
134     with open(f"outputs/{model_name}/{model_name}_metrics.csv", "a") as f:
135         f.write(f"{epoch + 1},{metric},{metric_tc},{metric_wt},{metric_et},{epoch_loss},{val_loss}\n")
136
137     # REPORT
138     print(f"epoch {epoch + 1}\n"
139           f"    average train loss: {epoch_loss:.4f}\n"
140           f"    average validation loss: {val_loss:.4f}\n"
141           f"    saved as best model: {best_metric_update}\n"
142           f"    current mean dice: {metric_values[-1]:.4f}\n"
143           f"    current TC dice: {metric_values_tc[-1]:.4f}\n"
144           f"    current WT dice: {metric_values_wt[-1]:.4f}\n"
145           f"    current ET dice: {metric_values_et[-1]:.4f}")
146     print(f"time consuming of epoch {epoch + 1} is: {(time.time() - epoch_start):.4f}")
147     best_metric_update = False
148
149     # When epoch ends, clean GPU memory
150     torch.cuda.empty_cache()
151
152 total_time = time.time() - total_start

```

epoch 1/100

TRAIN

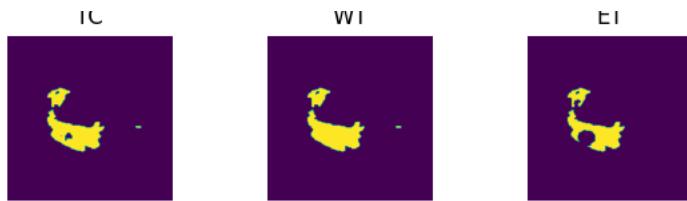
Batch 1/248, train_loss: 0.9729, step time: 5.2425
Batch 2/248, train_loss: 0.9999, step time: 0.3709
Batch 3/248, train_loss: 0.9995, step time: 0.3806
Batch 4/248, train_loss: 0.9999, step time: 0.3806
Batch 5/248, train_loss: 0.9974, step time: 0.3862
Batch 6/248, train_loss: 0.9971, step time: 0.3652
Batch 7/248, train_loss: 0.9525, step time: 0.3620
Batch 8/248, train_loss: 0.9911, step time: 0.3814
Batch 9/248, train_loss: 0.9714, step time: 0.3495
Batch 10/248, train_loss: 0.9988, step time: 0.3870
Batch 11/248, train_loss: 0.9975, step time: 0.3560
Batch 12/248, train_loss: 0.9999, step time: 0.3469
Batch 13/248, train_loss: 0.9991, step time: 0.3708
Batch 14/248, train_loss: 0.9376, step time: 0.3587
Batch 15/248, train_loss: 0.9985, step time: 0.3473
Batch 16/248, train_loss: 0.9967, step time: 0.3774
Batch 17/248, train_loss: 0.9998, step time: 0.3476
Batch 18/248, train_loss: 0.9996, step time: 0.3550
Batch 19/248, train_loss: 0.9687, step time: 0.3462
Batch 20/248, train_loss: 0.9956, step time: 0.3507
Batch 21/248, train_loss: 0.9863, step time: 0.3603
Batch 22/248, train_loss: 1.0000, step time: 0.3489
Batch 23/248, train_loss: 0.9999, step time: 0.3508
Batch 24/248, train_loss: 0.9888, step time: 0.3777
Batch 25/248, train_loss: 0.9226, step time: 0.3438
Batch 26/248, train_loss: 0.9995, step time: 0.3668
Batch 27/248, train_loss: 0.9629, step time: 0.3463
Batch 28/248, train_loss: 0.9959, step time: 0.3475
Batch 29/248, train_loss: 0.9998, step time: 0.3414
Batch 30/248, train_loss: 0.9955, step time: 0.3451
Batch 31/248, train_loss: 0.9983, step time: 0.3472
Batch 32/248, train_loss: 0.9844, step time: 0.3702
Batch 33/248, train_loss: 0.9592, step time: 0.3753
Batch 34/248, train_loss: 0.9726, step time: 0.3467
Batch 35/248, train_loss: 0.9877, step time: 0.3421
Batch 36/248, train_loss: 0.9999, step time: 0.3433
Batch 37/248, train_loss: 0.9891, step time: 0.3748
Batch 38/248, train_loss: 0.9976, step time: 0.3709
Batch 39/248, train_loss: 0.9927, step time: 0.3712
Batch 40/248, train_loss: 1.0000, step time: 0.3801
Batch 41/248, train_loss: 0.9789, step time: 0.3444
Batch 42/248, train_loss: 0.9802, step time: 0.3540
Batch 43/248, train_loss: 0.9678, step time: 0.3668
Batch 44/248, train_loss: 0.9903, step time: 0.3456
Batch 45/248, train_loss: 0.9978, step time: 0.3571
Batch 46/248, train_loss: 0.9916, step time: 0.3842
Batch 47/248, train_loss: 0.9952, step time: 0.3496
Batch 48/248, train_loss: 0.9918, step time: 0.3816
Batch 49/248, train_loss: 0.9995, step time: 0.3769
Batch 50/248, train_loss: 0.9959, step time: 0.3640
Batch 51/248, train_loss: 0.9950, step time: 0.3536
Batch 52/248, train_loss: 0.9922, step time: 0.3776
Batch 53/248, train_loss: 0.9976, step time: 0.3618
Batch 54/248, train_loss: 0.9944, step time: 0.3662
Batch 55/248, train_loss: 0.9985, step time: 0.3486
Batch 56/248, train_loss: 0.9949, step time: 0.3720
Batch 57/248, train_loss: 0.9959, step time: 0.3408
Batch 58/248, train_loss: 0.9814, step time: 0.3412
Batch 59/248, train_loss: 0.9858, step time: 0.3845
Batch 60/248, train_loss: 0.9806, step time: 0.3508
Batch 61/248, train_loss: 0.9866, step time: 0.3506
Batch 62/248, train_loss: 0.9987, step time: 0.3545
Batch 63/248, train_loss: 0.9995, step time: 0.3577
Batch 64/248, train_loss: 0.9994, step time: 0.3502
Batch 65/248, train_loss: 0.9962, step time: 0.3803
Batch 66/248, train_loss: 0.9961, step time: 0.3420
Batch 67/248, train_loss: 0.9512, step time: 0.3582
Batch 68/248, train_loss: 0.9746, step time: 0.3740
Batch 69/248, train_loss: 0.9999, step time: 0.3764
Batch 70/248, train_loss: 0.9814, step time: 0.3447
Batch 71/248, train_loss: 0.9699, step time: 0.3553
Batch 72/248, train_loss: 0.9738, step time: 0.3766
Batch 73/248, train_loss: 0.9771, step time: 0.3616
Batch 74/248, train_loss: 0.9999, step time: 0.3446
Batch 75/248, train_loss: 0.9782, step time: 0.3608
Batch 76/248, train_loss: 0.9996, step time: 0.3823
Batch 77/248, train_loss: 0.9998, step time: 0.3871
Batch 78/248, train_loss: 0.9901, step time: 0.3403
Batch 79/248, train_loss: 0.9949, step time: 0.3439
Batch 80/248, train_loss: 0.9967, step time: 0.3477
Batch 81/248, train_loss: 0.9980, step time: 0.3848

Batch 82/248, train_loss: 0.9/84, step time: 0.3698
Batch 83/248, train_loss: 0.9994, step time: 0.3655
Batch 84/248, train_loss: 0.9948, step time: 0.3429
Batch 85/248, train_loss: 0.9997, step time: 0.3470
Batch 86/248, train_loss: 0.9807, step time: 0.3749
Batch 87/248, train_loss: 0.9990, step time: 0.3494
Batch 88/248, train_loss: 0.9991, step time: 0.3456
Batch 89/248, train_loss: 0.9385, step time: 0.3544
Batch 90/248, train_loss: 0.9946, step time: 0.3583
Batch 91/248, train_loss: 0.9997, step time: 0.3659
Batch 92/248, train_loss: 0.9930, step time: 0.3607
Batch 93/248, train_loss: 0.9749, step time: 0.3757
Batch 94/248, train_loss: 0.9997, step time: 0.3754
Batch 95/248, train_loss: 0.9880, step time: 0.3760
Batch 96/248, train_loss: 0.9870, step time: 0.3674
Batch 97/248, train_loss: 1.0000, step time: 0.3740
Batch 98/248, train_loss: 0.9689, step time: 0.3833
Batch 99/248, train_loss: 0.9992, step time: 0.3734
Batch 100/248, train_loss: 0.9999, step time: 0.3815
Batch 101/248, train_loss: 0.9249, step time: 0.3468
Batch 102/248, train_loss: 0.9924, step time: 0.3602
Batch 103/248, train_loss: 0.9996, step time: 0.3488
Batch 104/248, train_loss: 0.9883, step time: 0.3713
Batch 105/248, train_loss: 0.9660, step time: 0.3671
Batch 106/248, train_loss: 0.9959, step time: 0.3548
Batch 107/248, train_loss: 0.9991, step time: 0.3734
Batch 108/248, train_loss: 0.9994, step time: 0.3448
Batch 109/248, train_loss: 0.9998, step time: 0.3670
Batch 110/248, train_loss: 0.9973, step time: 0.3472
Batch 111/248, train_loss: 0.9672, step time: 0.3597
Batch 112/248, train_loss: 0.9713, step time: 0.3720
Batch 113/248, train_loss: 1.0000, step time: 0.3418
Batch 114/248, train_loss: 0.9378, step time: 0.3657
Batch 115/248, train_loss: 0.9909, step time: 0.3607
Batch 116/248, train_loss: 0.9666, step time: 0.3853
Batch 117/248, train_loss: 0.9998, step time: 0.3738
Batch 118/248, train_loss: 0.9992, step time: 0.3592
Batch 119/248, train_loss: 0.9921, step time: 0.3438
Batch 120/248, train_loss: 0.9927, step time: 0.3846
Batch 121/248, train_loss: 0.9982, step time: 0.3858
Batch 122/248, train_loss: 0.9989, step time: 0.3689
Batch 123/248, train_loss: 0.9811, step time: 0.3768
Batch 124/248, train_loss: 0.9990, step time: 0.3714
Batch 125/248, train_loss: 0.9997, step time: 0.3738
Batch 126/248, train_loss: 0.9616, step time: 0.3458
Batch 127/248, train_loss: 0.9930, step time: 0.3866
Batch 128/248, train_loss: 0.9966, step time: 0.3798
Batch 129/248, train_loss: 0.9480, step time: 0.3843
Batch 130/248, train_loss: 0.9495, step time: 0.3821
Batch 131/248, train_loss: 0.9988, step time: 0.3708
Batch 132/248, train_loss: 0.9990, step time: 0.3695
Batch 133/248, train_loss: 0.9047, step time: 0.3691
Batch 134/248, train_loss: 1.0000, step time: 0.3476
Batch 135/248, train_loss: 0.9995, step time: 0.3874
Batch 136/248, train_loss: 0.9962, step time: 0.3455
Batch 137/248, train_loss: 0.9543, step time: 0.3682
Batch 138/248, train_loss: 0.9653, step time: 0.3767
Batch 139/248, train_loss: 0.9660, step time: 0.3433
Batch 140/248, train_loss: 0.9957, step time: 0.3613
Batch 141/248, train_loss: 0.9798, step time: 0.3833
Batch 142/248, train_loss: 0.9996, step time: 0.3816
Batch 143/248, train_loss: 0.9961, step time: 0.3694
Batch 144/248, train_loss: 0.9638, step time: 0.3464
Batch 145/248, train_loss: 0.9135, step time: 0.3838
Batch 146/248, train_loss: 0.9998, step time: 0.3490
Batch 147/248, train_loss: 0.9099, step time: 0.3858
Batch 148/248, train_loss: 0.9986, step time: 0.3459
Batch 149/248, train_loss: 0.9913, step time: 0.3753
Batch 150/248, train_loss: 0.9778, step time: 0.3465
Batch 151/248, train_loss: 0.9988, step time: 0.3450
Batch 152/248, train_loss: 0.9196, step time: 0.3702
Batch 153/248, train_loss: 0.9985, step time: 0.3428
Batch 154/248, train_loss: 0.9997, step time: 0.3730
Batch 155/248, train_loss: 0.9911, step time: 0.3617
Batch 156/248, train_loss: 0.9921, step time: 0.3440
Batch 157/248, train_loss: 0.9653, step time: 0.3551
Batch 158/248, train_loss: 0.9998, step time: 0.3455
Batch 159/248, train_loss: 0.9999, step time: 0.3707
Batch 160/248, train_loss: 0.9790, step time: 0.3656
Batch 161/248, train_loss: 0.9917, step time: 0.3519
Batch 162/248, train_loss: 0.8961, step time: 0.3606
Batch 163/248, train_loss: 0.9992, step time: 0.3440
Batch 164/248, train_loss: 0.9918, step time: 0.3831
Batch 165/248, train_loss: 0.9998, step time: 0.3457
Batch 166/248, train_loss: 0.9983, step time: 0.3775

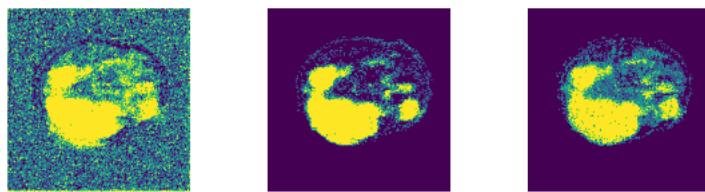
Batch 167/248, train_loss: 0.9923, step time: 0.3430
Batch 168/248, train_loss: 0.9918, step time: 0.3483
Batch 169/248, train_loss: 0.9814, step time: 0.3846
Batch 170/248, train_loss: 0.9993, step time: 0.3724
Batch 171/248, train_loss: 0.9317, step time: 0.3813
Batch 172/248, train_loss: 0.9999, step time: 0.3726
Batch 173/248, train_loss: 0.9644, step time: 0.3792
Batch 174/248, train_loss: 0.9996, step time: 0.3753
Batch 175/248, train_loss: 0.9440, step time: 0.3562
Batch 176/248, train_loss: 0.9956, step time: 0.3681
Batch 177/248, train_loss: 0.9999, step time: 0.3720
Batch 178/248, train_loss: 0.9774, step time: 0.3566
Batch 179/248, train_loss: 0.8787, step time: 0.3747
Batch 180/248, train_loss: 0.9918, step time: 0.3829
Batch 181/248, train_loss: 0.9588, step time: 0.3492
Batch 182/248, train_loss: 0.9982, step time: 0.3441
Batch 183/248, train_loss: 0.9913, step time: 0.3599
Batch 184/248, train_loss: 0.9984, step time: 0.3594
Batch 185/248, train_loss: 0.9918, step time: 0.3838
Batch 186/248, train_loss: 0.9820, step time: 0.3491
Batch 187/248, train_loss: 0.9833, step time: 0.3594
Batch 188/248, train_loss: 0.9923, step time: 0.3473
Batch 189/248, train_loss: 0.9999, step time: 0.3829
Batch 190/248, train_loss: 0.9836, step time: 0.3876
Batch 191/248, train_loss: 0.9998, step time: 0.3455
Batch 192/248, train_loss: 0.9790, step time: 0.3498
Batch 193/248, train_loss: 0.9957, step time: 0.3476
Batch 194/248, train_loss: 0.9953, step time: 0.3610
Batch 195/248, train_loss: 0.9999, step time: 0.3537
Batch 196/248, train_loss: 1.0000, step time: 0.3776
Batch 197/248, train_loss: 0.9975, step time: 0.3741
Batch 198/248, train_loss: 1.0000, step time: 0.3509
Batch 199/248, train_loss: 0.9926, step time: 0.3422
Batch 200/248, train_loss: 0.9917, step time: 0.3767
Batch 201/248, train_loss: 0.9787, step time: 0.3533
Batch 202/248, train_loss: 0.9951, step time: 0.3775
Batch 203/248, train_loss: 0.9996, step time: 0.3501
Batch 204/248, train_loss: 0.9482, step time: 0.3617
Batch 205/248, train_loss: 0.9980, step time: 0.3609
Batch 206/248, train_loss: 0.9999, step time: 0.3462
Batch 207/248, train_loss: 0.9756, step time: 0.3741
Batch 208/248, train_loss: 0.9915, step time: 0.3544
Batch 209/248, train_loss: 0.9875, step time: 0.3703
Batch 210/248, train_loss: 0.9760, step time: 0.3424
Batch 211/248, train_loss: 0.9738, step time: 0.3447
Batch 212/248, train_loss: 0.9967, step time: 0.3430
Batch 213/248, train_loss: 0.9962, step time: 0.3631
Batch 214/248, train_loss: 0.9851, step time: 0.3526
Batch 215/248, train_loss: 0.9970, step time: 0.3551
Batch 216/248, train_loss: 0.9750, step time: 0.3491
Batch 217/248, train_loss: 0.9984, step time: 0.3426
Batch 218/248, train_loss: 0.9998, step time: 0.3777
Batch 219/248, train_loss: 0.9856, step time: 0.3588
Batch 220/248, train_loss: 0.9972, step time: 0.3460
Batch 221/248, train_loss: 0.9967, step time: 0.3489
Batch 222/248, train_loss: 0.9775, step time: 0.3422
Batch 223/248, train_loss: 0.9562, step time: 0.3737
Batch 224/248, train_loss: 0.9720, step time: 0.3792
Batch 225/248, train_loss: 0.9998, step time: 0.3460
Batch 226/248, train_loss: 0.9985, step time: 0.3450
Batch 227/248, train_loss: 0.9852, step time: 0.3785
Batch 228/248, train_loss: 0.9968, step time: 0.3706
Batch 229/248, train_loss: 0.9511, step time: 0.3468
Batch 230/248, train_loss: 0.9860, step time: 0.3735
Batch 231/248, train_loss: 0.9997, step time: 0.3608
Batch 232/248, train_loss: 0.9852, step time: 0.3841
Batch 233/248, train_loss: 1.0000, step time: 0.3480
Batch 234/248, train_loss: 0.9993, step time: 0.3450
Batch 235/248, train_loss: 0.9996, step time: 0.3570
Batch 236/248, train_loss: 0.9998, step time: 0.3785
Batch 237/248, train_loss: 0.9600, step time: 0.3609
Batch 238/248, train_loss: 0.9807, step time: 0.3455
Batch 239/248, train_loss: 0.8629, step time: 0.3489
Batch 240/248, train_loss: 0.9953, step time: 0.3410
Batch 241/248, train_loss: 0.9999, step time: 0.3857
Batch 242/248, train_loss: 0.9983, step time: 0.3427
Batch 243/248, train_loss: 0.9998, step time: 0.3685
Batch 244/248, train_loss: 0.9994, step time: 0.3464
Batch 245/248, train_loss: 0.9762, step time: 0.3467
Batch 246/248, train_loss: 0.9993, step time: 0.3781
Batch 247/248, train_loss: 0.9107, step time: 0.3830
Batch 248/248, train_loss: 1.0000, step time: 0.3608

Labels

— — — — —



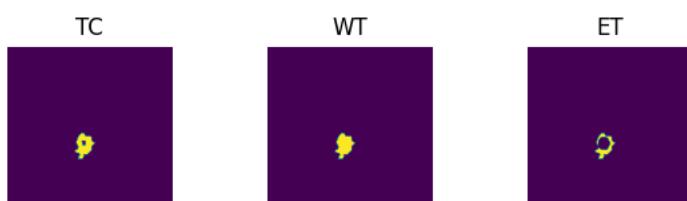
Predictions



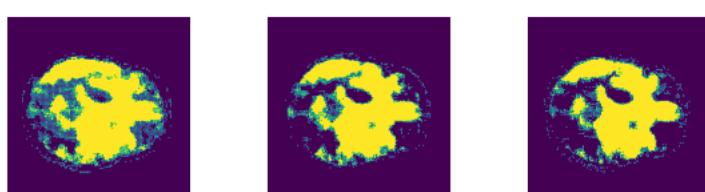
VAL

```
Batch 1/31, val_loss: 0.9906
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9991
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.9388
Batch 7/31, val_loss: 0.9880
Batch 8/31, val_loss: 0.9989
Batch 9/31, val_loss: 0.9503
Batch 10/31, val_loss: 0.9986
Batch 11/31, val_loss: 0.9930
Batch 12/31, val_loss: 0.9995
Batch 13/31, val_loss: 0.9992
Batch 14/31, val_loss: 0.9988
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9997
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9992
Batch 19/31, val_loss: 0.9783
Batch 20/31, val_loss: 0.9890
Batch 21/31, val_loss: 0.9958
Batch 22/31, val_loss: 0.9998
Batch 23/31, val_loss: 0.9997
Batch 24/31, val_loss: 0.9163
Batch 25/31, val_loss: 0.9859
Batch 26/31, val_loss: 0.9978
Batch 27/31, val_loss: 0.9999
Batch 28/31, val_loss: 0.9839
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9997
Batch 31/31, val_loss: 0.9996
```

Labels



Predictions



epoch 1

```
average train loss: 0.9852
average validation loss: 0.9903
saved as best model: True
current mean dice: 0.0403
current TC dice: 0.0220
current WT dice: 0.0549
current ET dice: 0.0487
```

Best Mean Metric: 0.0403

time consuming of epoch 1 is: 5579.9134

epoch 2/100

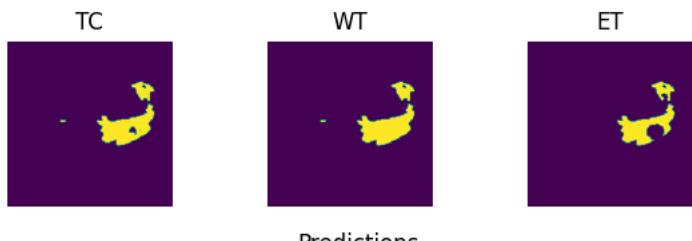
TRAIN

Batch 1/248, train_loss: 0.9465, step time: 0.3432
Batch 2/248, train_loss: 0.9999, step time: 0.3800
Batch 3/248, train_loss: 0.9991, step time: 0.3854
Batch 4/248, train_loss: 0.9999, step time: 0.3485
Batch 5/248, train_loss: 0.9956, step time: 0.3415
Batch 6/248, train_loss: 0.9949, step time: 0.3824
Batch 7/248, train_loss: 0.9185, step time: 0.3554
Batch 8/248, train_loss: 0.9855, step time: 0.3691
Batch 9/248, train_loss: 0.9538, step time: 0.3525
Batch 10/248, train_loss: 0.9982, step time: 0.3757
Batch 11/248, train_loss: 0.9962, step time: 0.3850
Batch 12/248, train_loss: 0.9999, step time: 0.3655
Batch 13/248, train_loss: 0.9987, step time: 0.3782
Batch 14/248, train_loss: 0.9049, step time: 0.3459
Batch 15/248, train_loss: 0.9978, step time: 0.3460
Batch 16/248, train_loss: 0.9951, step time: 0.3467
Batch 17/248, train_loss: 0.9998, step time: 0.3425
Batch 18/248, train_loss: 0.9993, step time: 0.3881
Batch 19/248, train_loss: 0.9547, step time: 0.3650
Batch 20/248, train_loss: 0.9937, step time: 0.3553
Batch 21/248, train_loss: 0.9809, step time: 0.3455
Batch 22/248, train_loss: 1.0000, step time: 0.3795
Batch 23/248, train_loss: 0.9999, step time: 0.3767
Batch 24/248, train_loss: 0.9846, step time: 0.3716
Batch 25/248, train_loss: 0.8966, step time: 0.3602
Batch 26/248, train_loss: 0.9994, step time: 0.3853
Batch 27/248, train_loss: 0.9498, step time: 0.3535
Batch 28/248, train_loss: 0.9944, step time: 0.3778
Batch 29/248, train_loss: 0.9998, step time: 0.3779
Batch 30/248, train_loss: 0.9971, step time: 0.3493
Batch 31/248, train_loss: 0.9977, step time: 0.3863
Batch 32/248, train_loss: 0.9801, step time: 0.3839
Batch 33/248, train_loss: 0.9475, step time: 0.3559
Batch 34/248, train_loss: 0.9652, step time: 0.3493
Batch 35/248, train_loss: 0.9846, step time: 0.3746
Batch 36/248, train_loss: 0.9999, step time: 0.3767
Batch 37/248, train_loss: 0.9866, step time: 0.3466
Batch 38/248, train_loss: 0.9971, step time: 0.3723
Batch 39/248, train_loss: 0.9882, step time: 0.3757
Batch 40/248, train_loss: 1.0000, step time: 0.3754
Batch 41/248, train_loss: 0.9736, step time: 0.3607
Batch 42/248, train_loss: 0.9759, step time: 0.3525
Batch 43/248, train_loss: 0.9603, step time: 0.3825
Batch 44/248, train_loss: 0.9909, step time: 0.3586
Batch 45/248, train_loss: 0.9974, step time: 0.3465
Batch 46/248, train_loss: 0.9899, step time: 0.3835
Batch 47/248, train_loss: 0.9941, step time: 0.3760
Batch 48/248, train_loss: 0.9902, step time: 0.3741
Batch 49/248, train_loss: 0.9995, step time: 0.3815
Batch 50/248, train_loss: 0.9951, step time: 0.3616
Batch 51/248, train_loss: 0.9936, step time: 0.3430
Batch 52/248, train_loss: 0.9907, step time: 0.3602
Batch 53/248, train_loss: 0.9972, step time: 0.3685
Batch 54/248, train_loss: 0.9933, step time: 0.3794
Batch 55/248, train_loss: 0.9981, step time: 0.3713
Batch 56/248, train_loss: 0.9936, step time: 0.3477
Batch 57/248, train_loss: 0.9952, step time: 0.3504
Batch 58/248, train_loss: 0.9780, step time: 0.3826
Batch 59/248, train_loss: 0.9833, step time: 0.3471
Batch 60/248, train_loss: 0.9772, step time: 0.3436
Batch 61/248, train_loss: 0.9843, step time: 0.3542
Batch 62/248, train_loss: 0.9984, step time: 0.3819
Batch 63/248, train_loss: 0.9994, step time: 0.3811
Batch 64/248, train_loss: 0.9993, step time: 0.3500
Batch 65/248, train_loss: 0.9951, step time: 0.3770
Batch 66/248, train_loss: 0.9951, step time: 0.3770
Batch 67/248, train_loss: 0.9434, step time: 0.3675
Batch 68/248, train_loss: 0.9704, step time: 0.3744
Batch 69/248, train_loss: 0.9999, step time: 0.3780
Batch 70/248, train_loss: 0.9786, step time: 0.3607
Batch 71/248, train_loss: 0.9647, step time: 0.3760
Batch 72/248, train_loss: 0.9699, step time: 0.3453
Batch 73/248, train_loss: 0.9733, step time: 0.3556
Batch 74/248, train_loss: 0.9999, step time: 0.3545
Batch 75/248, train_loss: 0.9749, step time: 0.3737
Batch 76/248, train_loss: 0.9995, step time: 0.3772
Batch 77/248, train_loss: 0.9998, step time: 0.3551
Batch 78/248, train_loss: 0.9886, step time: 0.3514
Batch 79/248, train_loss: 0.9938, step time: 0.3765
Batch 80/248, train_loss: 0.9960, step time: 0.3617
Batch 81/248, train_loss: 0.9976, step time: 0.3560

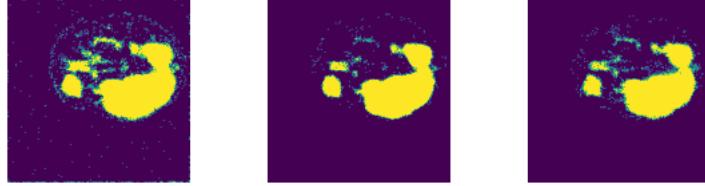
Batch 82/248, train_loss: 0.9756, step time: 0.3795
Batch 83/248, train_loss: 0.9993, step time: 0.3735
Batch 84/248, train_loss: 0.9940, step time: 0.3456
Batch 85/248, train_loss: 0.9997, step time: 0.3551
Batch 86/248, train_loss: 0.9781, step time: 0.3466
Batch 87/248, train_loss: 0.9989, step time: 0.3532
Batch 88/248, train_loss: 0.9990, step time: 0.3772
Batch 89/248, train_loss: 0.9295, step time: 0.3735
Batch 90/248, train_loss: 0.9938, step time: 0.3403
Batch 91/248, train_loss: 0.9997, step time: 0.3440
Batch 92/248, train_loss: 0.9925, step time: 0.3700
Batch 93/248, train_loss: 0.9715, step time: 0.3790
Batch 94/248, train_loss: 0.9997, step time: 0.3521
Batch 95/248, train_loss: 0.9867, step time: 0.3746
Batch 96/248, train_loss: 0.9853, step time: 0.3442
Batch 97/248, train_loss: 1.0000, step time: 0.3718
Batch 98/248, train_loss: 0.9649, step time: 0.3580
Batch 99/248, train_loss: 0.9991, step time: 0.3679
Batch 100/248, train_loss: 0.9999, step time: 0.3469
Batch 101/248, train_loss: 0.9161, step time: 0.3602
Batch 102/248, train_loss: 0.9916, step time: 0.3516
Batch 103/248, train_loss: 0.9995, step time: 0.3550
Batch 104/248, train_loss: 0.9869, step time: 0.3855
Batch 105/248, train_loss: 0.9621, step time: 0.3479
Batch 106/248, train_loss: 0.9954, step time: 0.3550
Batch 107/248, train_loss: 0.9990, step time: 0.3411
Batch 108/248, train_loss: 0.9994, step time: 0.3661
Batch 109/248, train_loss: 0.9998, step time: 0.3704
Batch 110/248, train_loss: 0.9970, step time: 0.3747
Batch 111/248, train_loss: 0.9633, step time: 0.3423
Batch 112/248, train_loss: 0.9676, step time: 0.3657
Batch 113/248, train_loss: 1.0000, step time: 0.3582
Batch 114/248, train_loss: 0.9313, step time: 0.3754
Batch 115/248, train_loss: 0.9898, step time: 0.3569
Batch 116/248, train_loss: 0.9632, step time: 0.3752
Batch 117/248, train_loss: 0.9997, step time: 0.3418
Batch 118/248, train_loss: 0.9992, step time: 0.3656
Batch 119/248, train_loss: 0.9908, step time: 0.3455
Batch 120/248, train_loss: 0.9917, step time: 0.3775
Batch 121/248, train_loss: 0.9979, step time: 0.3639
Batch 122/248, train_loss: 0.9988, step time: 0.3733
Batch 123/248, train_loss: 0.9793, step time: 0.3818
Batch 124/248, train_loss: 0.9989, step time: 0.3823
Batch 125/248, train_loss: 0.9997, step time: 0.3411
Batch 126/248, train_loss: 0.9578, step time: 0.3778
Batch 127/248, train_loss: 0.9925, step time: 0.3440
Batch 128/248, train_loss: 0.9963, step time: 0.3822
Batch 129/248, train_loss: 0.9432, step time: 0.3899
Batch 130/248, train_loss: 0.9449, step time: 0.3706
Batch 131/248, train_loss: 0.9987, step time: 0.3812
Batch 132/248, train_loss: 0.9989, step time: 0.3610
Batch 133/248, train_loss: 0.8954, step time: 0.3497
Batch 134/248, train_loss: 1.0000, step time: 0.3436
Batch 135/248, train_loss: 0.9994, step time: 0.3551
Batch 136/248, train_loss: 0.9958, step time: 0.3538
Batch 137/248, train_loss: 0.9496, step time: 0.3754
Batch 138/248, train_loss: 0.9620, step time: 0.3580
Batch 139/248, train_loss: 0.9632, step time: 0.3851
Batch 140/248, train_loss: 0.9953, step time: 0.3861
Batch 141/248, train_loss: 0.9776, step time: 0.3418
Batch 142/248, train_loss: 0.9995, step time: 0.3871
Batch 143/248, train_loss: 0.9956, step time: 0.3457
Batch 144/248, train_loss: 0.9607, step time: 0.3672
Batch 145/248, train_loss: 0.9055, step time: 0.3451
Batch 146/248, train_loss: 0.9998, step time: 0.3848
Batch 147/248, train_loss: 0.9010, step time: 0.3491
Batch 148/248, train_loss: 0.9986, step time: 0.3709
Batch 149/248, train_loss: 0.9906, step time: 0.3534
Batch 150/248, train_loss: 0.9758, step time: 0.3598
Batch 151/248, train_loss: 0.9986, step time: 0.3806
Batch 152/248, train_loss: 0.9127, step time: 0.3618
Batch 153/248, train_loss: 0.9983, step time: 0.3654
Batch 154/248, train_loss: 0.9997, step time: 0.3574
Batch 155/248, train_loss: 0.9904, step time: 0.3463
Batch 156/248, train_loss: 0.9911, step time: 0.3778
Batch 157/248, train_loss: 0.9628, step time: 0.3550
Batch 158/248, train_loss: 0.9998, step time: 0.3448
Batch 159/248, train_loss: 0.9999, step time: 0.3733
Batch 160/248, train_loss: 0.9774, step time: 0.3419
Batch 161/248, train_loss: 0.9911, step time: 0.3701
Batch 162/248, train_loss: 0.8871, step time: 0.3414
Batch 163/248, train_loss: 0.9992, step time: 0.3563
Batch 164/248, train_loss: 0.9912, step time: 0.3449
Batch 165/248, train_loss: 0.9998, step time: 0.3679
Batch 166/248, train_loss: 0.9981, step time: 0.3746

Batch 167/248, train_loss: 0.9917, step time: 0.3686
Batch 168/248, train_loss: 0.9911, step time: 0.3823
Batch 169/248, train_loss: 0.9801, step time: 0.3577
Batch 170/248, train_loss: 0.9993, step time: 0.3733
Batch 171/248, train_loss: 0.9271, step time: 0.3768
Batch 172/248, train_loss: 0.9999, step time: 0.3722
Batch 173/248, train_loss: 0.9621, step time: 0.3587
Batch 174/248, train_loss: 0.9995, step time: 0.3550
Batch 175/248, train_loss: 0.9392, step time: 0.3819
Batch 176/248, train_loss: 0.9953, step time: 0.3403
Batch 177/248, train_loss: 0.9998, step time: 0.3448
Batch 178/248, train_loss: 0.9757, step time: 0.3662
Batch 179/248, train_loss: 0.8700, step time: 0.3442
Batch 180/248, train_loss: 0.9912, step time: 0.3425
Batch 181/248, train_loss: 0.9557, step time: 0.3590
Batch 182/248, train_loss: 0.9981, step time: 0.3798
Batch 183/248, train_loss: 0.9907, step time: 0.3712
Batch 184/248, train_loss: 0.9983, step time: 0.3690
Batch 185/248, train_loss: 0.9912, step time: 0.3801
Batch 186/248, train_loss: 0.9809, step time: 0.3642
Batch 187/248, train_loss: 0.9821, step time: 0.3520
Batch 188/248, train_loss: 0.9917, step time: 0.3765
Batch 189/248, train_loss: 0.9999, step time: 0.3593
Batch 190/248, train_loss: 0.9825, step time: 0.3441
Batch 191/248, train_loss: 0.9998, step time: 0.3767
Batch 192/248, train_loss: 0.9772, step time: 0.3877
Batch 193/248, train_loss: 0.9953, step time: 0.3562
Batch 194/248, train_loss: 0.9950, step time: 0.3760
Batch 195/248, train_loss: 0.9999, step time: 0.3444
Batch 196/248, train_loss: 1.0000, step time: 0.3653
Batch 197/248, train_loss: 0.9973, step time: 0.3495
Batch 198/248, train_loss: 1.0000, step time: 0.3748
Batch 199/248, train_loss: 0.9921, step time: 0.3671
Batch 200/248, train_loss: 0.9912, step time: 0.3559
Batch 201/248, train_loss: 0.9769, step time: 0.3508
Batch 202/248, train_loss: 0.9947, step time: 0.3807
Batch 203/248, train_loss: 0.9996, step time: 0.3444
Batch 204/248, train_loss: 0.9446, step time: 0.3776
Batch 205/248, train_loss: 0.9978, step time: 0.3492
Batch 206/248, train_loss: 0.9999, step time: 0.3473
Batch 207/248, train_loss: 0.9741, step time: 0.3464
Batch 208/248, train_loss: 0.9909, step time: 0.3473
Batch 209/248, train_loss: 0.9867, step time: 0.3456
Batch 210/248, train_loss: 0.9745, step time: 0.3575
Batch 211/248, train_loss: 0.9721, step time: 0.3788
Batch 212/248, train_loss: 0.9964, step time: 0.3403
Batch 213/248, train_loss: 0.9960, step time: 0.3435
Batch 214/248, train_loss: 0.9841, step time: 0.3564
Batch 215/248, train_loss: 0.9969, step time: 0.3679
Batch 216/248, train_loss: 0.9734, step time: 0.3450
Batch 217/248, train_loss: 0.9983, step time: 0.3425
Batch 218/248, train_loss: 0.9998, step time: 0.3607
Batch 219/248, train_loss: 0.9848, step time: 0.3590
Batch 220/248, train_loss: 0.9971, step time: 0.3433
Batch 221/248, train_loss: 0.9964, step time: 0.3881
Batch 222/248, train_loss: 0.9763, step time: 0.3438
Batch 223/248, train_loss: 0.9534, step time: 0.3467
Batch 224/248, train_loss: 0.9704, step time: 0.3734
Batch 225/248, train_loss: 0.9997, step time: 0.3465
Batch 226/248, train_loss: 0.9984, step time: 0.3409
Batch 227/248, train_loss: 0.9843, step time: 0.3873
Batch 228/248, train_loss: 0.9966, step time: 0.3791
Batch 229/248, train_loss: 0.9475, step time: 0.3833
Batch 230/248, train_loss: 0.9852, step time: 0.3872
Batch 231/248, train_loss: 0.9997, step time: 0.3673
Batch 232/248, train_loss: 0.9844, step time: 0.3481
Batch 233/248, train_loss: 1.0000, step time: 0.3788
Batch 234/248, train_loss: 0.9993, step time: 0.3708
Batch 235/248, train_loss: 0.9995, step time: 0.3770
Batch 236/248, train_loss: 0.9998, step time: 0.3465
Batch 237/248, train_loss: 0.9575, step time: 0.3855
Batch 238/248, train_loss: 0.9796, step time: 0.3599
Batch 239/248, train_loss: 0.8549, step time: 0.3816
Batch 240/248, train_loss: 0.9949, step time: 0.3724
Batch 241/248, train_loss: 0.9999, step time: 0.3723
Batch 242/248, train_loss: 0.9982, step time: 0.3820
Batch 243/248, train_loss: 0.9998, step time: 0.3671
Batch 244/248, train_loss: 0.9993, step time: 0.3748
Batch 245/248, train_loss: 0.9749, step time: 0.3684
Batch 246/248, train_loss: 0.9993, step time: 0.3454
Batch 247/248, train_loss: 0.9055, step time: 0.3855
Batch 248/248, train_loss: 1.0000, step time: 0.3442

Labels



Predictions



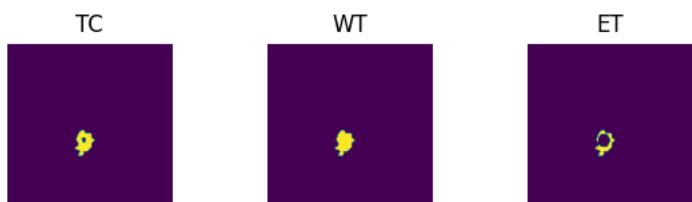
VAL

```

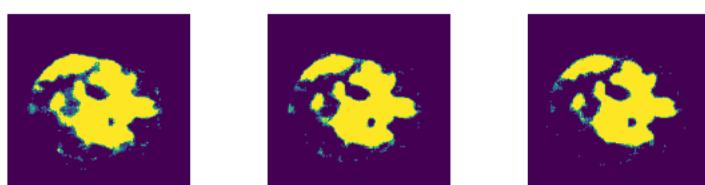
Batch 1/31, val_loss: 0.9899
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9990
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.9359
Batch 7/31, val_loss: 0.9875
Batch 8/31, val_loss: 0.9989
Batch 9/31, val_loss: 0.9473
Batch 10/31, val_loss: 0.9986
Batch 11/31, val_loss: 0.9928
Batch 12/31, val_loss: 0.9994
Batch 13/31, val_loss: 0.9991
Batch 14/31, val_loss: 0.9987
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9997
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9991
Batch 19/31, val_loss: 0.9774
Batch 20/31, val_loss: 0.9884
Batch 21/31, val_loss: 0.9955
Batch 22/31, val_loss: 0.9998
Batch 23/31, val_loss: 0.9997
Batch 24/31, val_loss: 0.9126
Batch 25/31, val_loss: 0.9854
Batch 26/31, val_loss: 0.9977
Batch 27/31, val_loss: 0.9999
Batch 28/31, val_loss: 0.9827
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9997
Batch 31/31, val_loss: 0.9996

```

Labels



Predictions



epoch 2

```

average train loss: 0.9830
average validation loss: 0.9898
saved as best model: True
current mean dice: 0.0626
current TC dice: 0.0588
current WT dice: 0.0695
current ET dice: 0.0660
Best Mean Metric: 0.0626

```

time consuming of epoch 2 is: 1465.0685

epoch 3/100

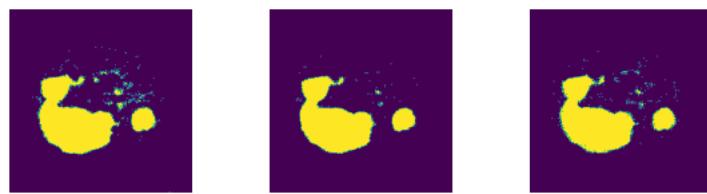
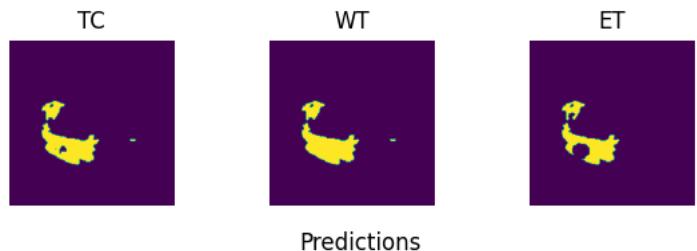
TRAIN

Batch 1/248, train_loss: 0.9435, step time: 0.3809
Batch 2/248, train_loss: 0.9999, step time: 0.3519
Batch 3/248, train_loss: 0.9990, step time: 0.3673
Batch 4/248, train_loss: 0.9999, step time: 0.3405
Batch 5/248, train_loss: 0.9953, step time: 0.3453
Batch 6/248, train_loss: 0.9947, step time: 0.3531
Batch 7/248, train_loss: 0.9140, step time: 0.3485
Batch 8/248, train_loss: 0.9848, step time: 0.3703
Batch 9/248, train_loss: 0.9516, step time: 0.3538
Batch 10/248, train_loss: 0.9981, step time: 0.3499
Batch 11/248, train_loss: 0.9959, step time: 0.3766
Batch 12/248, train_loss: 0.9999, step time: 0.3535
Batch 13/248, train_loss: 0.9986, step time: 0.3635
Batch 14/248, train_loss: 0.8997, step time: 0.3414
Batch 15/248, train_loss: 0.9977, step time: 0.3608
Batch 16/248, train_loss: 0.9949, step time: 0.3786
Batch 17/248, train_loss: 0.9998, step time: 0.3494
Batch 18/248, train_loss: 0.9993, step time: 0.3644
Batch 19/248, train_loss: 0.9523, step time: 0.3424
Batch 20/248, train_loss: 0.9934, step time: 0.3798
Batch 21/248, train_loss: 0.9799, step time: 0.3673
Batch 22/248, train_loss: 1.0000, step time: 0.3406
Batch 23/248, train_loss: 0.9999, step time: 0.3408
Batch 24/248, train_loss: 0.9839, step time: 0.3764
Batch 25/248, train_loss: 0.8919, step time: 0.3556
Batch 26/248, train_loss: 0.9993, step time: 0.3813
Batch 27/248, train_loss: 0.9471, step time: 0.3609
Batch 28/248, train_loss: 0.9941, step time: 0.3435
Batch 29/248, train_loss: 0.9998, step time: 0.3632
Batch 30/248, train_loss: 0.9987, step time: 0.3485
Batch 31/248, train_loss: 0.9976, step time: 0.3671
Batch 32/248, train_loss: 0.9791, step time: 0.3495
Batch 33/248, train_loss: 0.9450, step time: 0.3504
Batch 34/248, train_loss: 0.9637, step time: 0.3741
Batch 35/248, train_loss: 0.9838, step time: 0.3513
Batch 36/248, train_loss: 0.9999, step time: 0.3467
Batch 37/248, train_loss: 0.9858, step time: 0.3858
Batch 38/248, train_loss: 0.9969, step time: 0.3535
Batch 39/248, train_loss: 0.9891, step time: 0.3796
Batch 40/248, train_loss: 1.0000, step time: 0.3858
Batch 41/248, train_loss: 0.9723, step time: 0.3525
Batch 42/248, train_loss: 0.9747, step time: 0.3450
Batch 43/248, train_loss: 0.9584, step time: 0.3581
Batch 44/248, train_loss: 0.9867, step time: 0.3504
Batch 45/248, train_loss: 0.9974, step time: 0.3622
Batch 46/248, train_loss: 0.9895, step time: 0.3813
Batch 47/248, train_loss: 0.9938, step time: 0.3842
Batch 48/248, train_loss: 0.9896, step time: 0.3804
Batch 49/248, train_loss: 0.9994, step time: 0.3463
Batch 50/248, train_loss: 0.9948, step time: 0.3402
Batch 51/248, train_loss: 0.9932, step time: 0.3427
Batch 52/248, train_loss: 0.9903, step time: 0.3822
Batch 53/248, train_loss: 0.9970, step time: 0.3541
Batch 54/248, train_loss: 0.9929, step time: 0.3574
Batch 55/248, train_loss: 0.9980, step time: 0.3422
Batch 56/248, train_loss: 0.9932, step time: 0.3441
Batch 57/248, train_loss: 0.9950, step time: 0.3414
Batch 58/248, train_loss: 0.9769, step time: 0.3711
Batch 59/248, train_loss: 0.9824, step time: 0.3431
Batch 60/248, train_loss: 0.9761, step time: 0.3839
Batch 61/248, train_loss: 0.9836, step time: 0.3810
Batch 62/248, train_loss: 0.9983, step time: 0.3778
Batch 63/248, train_loss: 0.9994, step time: 0.3465
Batch 64/248, train_loss: 0.9993, step time: 0.3451
Batch 65/248, train_loss: 0.9947, step time: 0.3514
Batch 66/248, train_loss: 0.9946, step time: 0.3454
Batch 67/248, train_loss: 0.9406, step time: 0.3449
Batch 68/248, train_loss: 0.9691, step time: 0.3448
Batch 69/248, train_loss: 0.9999, step time: 0.3819
Batch 70/248, train_loss: 0.9776, step time: 0.3725
Batch 71/248, train_loss: 0.9628, step time: 0.3405
Batch 72/248, train_loss: 0.9685, step time: 0.3398
Batch 73/248, train_loss: 0.9720, step time: 0.3796
Batch 74/248, train_loss: 0.9999, step time: 0.3822
Batch 75/248, train_loss: 0.9736, step time: 0.3784
Batch 76/248, train_loss: 0.9995, step time: 0.3561
Batch 77/248, train_loss: 0.9998, step time: 0.3601
Batch 78/248, train_loss: 0.9880, step time: 0.3815
Batch 79/248, train_loss: 0.9934, step time: 0.3416
Batch 80/248, train_loss: 0.9957, step time: 0.3558
Batch 81/248, train_loss: 0.9974, step time: 0.3468

Batch 81/248, train_loss: 0.9999, step time: 0.3400
Batch 82/248, train_loss: 0.9744, step time: 0.3478
Batch 83/248, train_loss: 0.9993, step time: 0.3478
Batch 84/248, train_loss: 0.9937, step time: 0.3868
Batch 85/248, train_loss: 0.9997, step time: 0.3555
Batch 86/248, train_loss: 0.9770, step time: 0.3538
Batch 87/248, train_loss: 0.9987, step time: 0.3506
Batch 88/248, train_loss: 0.9989, step time: 0.3538
Batch 89/248, train_loss: 0.9258, step time: 0.3736
Batch 90/248, train_loss: 0.9934, step time: 0.3776
Batch 91/248, train_loss: 0.9996, step time: 0.3643
Batch 92/248, train_loss: 0.9921, step time: 0.3833
Batch 93/248, train_loss: 0.9701, step time: 0.3534
Batch 94/248, train_loss: 0.9997, step time: 0.3449
Batch 95/248, train_loss: 0.9862, step time: 0.3838
Batch 96/248, train_loss: 0.9845, step time: 0.3572
Batch 97/248, train_loss: 1.0000, step time: 0.3457
Batch 98/248, train_loss: 0.9629, step time: 0.3839
Batch 99/248, train_loss: 0.9990, step time: 0.3827
Batch 100/248, train_loss: 0.9998, step time: 0.3489
Batch 101/248, train_loss: 0.9124, step time: 0.3747
Batch 102/248, train_loss: 0.9912, step time: 0.3735
Batch 103/248, train_loss: 0.9995, step time: 0.3651
Batch 104/248, train_loss: 0.9861, step time: 0.3413
Batch 105/248, train_loss: 0.9605, step time: 0.3663
Batch 106/248, train_loss: 0.9951, step time: 0.3441
Batch 107/248, train_loss: 0.9990, step time: 0.3803
Batch 108/248, train_loss: 0.9993, step time: 0.3787
Batch 109/248, train_loss: 0.9997, step time: 0.3705
Batch 110/248, train_loss: 0.9967, step time: 0.3424
Batch 111/248, train_loss: 0.9615, step time: 0.3855
Batch 112/248, train_loss: 0.9660, step time: 0.3652
Batch 113/248, train_loss: 1.0000, step time: 0.3818
Batch 114/248, train_loss: 0.9283, step time: 0.3793
Batch 115/248, train_loss: 0.9894, step time: 0.3650
Batch 116/248, train_loss: 0.9612, step time: 0.3560
Batch 117/248, train_loss: 0.9997, step time: 0.3414
Batch 118/248, train_loss: 0.9991, step time: 0.3437
Batch 119/248, train_loss: 0.9899, step time: 0.3395
Batch 120/248, train_loss: 0.9911, step time: 0.3822
Batch 121/248, train_loss: 0.9977, step time: 0.3860
Batch 122/248, train_loss: 0.9987, step time: 0.3452
Batch 123/248, train_loss: 0.9783, step time: 0.3502
Batch 124/248, train_loss: 0.9988, step time: 0.3779
Batch 125/248, train_loss: 0.9996, step time: 0.3538
Batch 126/248, train_loss: 0.9556, step time: 0.3840
Batch 127/248, train_loss: 0.9920, step time: 0.3663
Batch 128/248, train_loss: 0.9961, step time: 0.3744
Batch 129/248, train_loss: 0.9404, step time: 0.3848
Batch 130/248, train_loss: 0.9420, step time: 0.3470
Batch 131/248, train_loss: 0.9986, step time: 0.3775
Batch 132/248, train_loss: 0.9989, step time: 0.3782
Batch 133/248, train_loss: 0.8907, step time: 0.3792
Batch 134/248, train_loss: 1.0000, step time: 0.3730
Batch 135/248, train_loss: 0.9994, step time: 0.3566
Batch 136/248, train_loss: 0.9957, step time: 0.3666
Batch 137/248, train_loss: 0.9473, step time: 0.3690
Batch 138/248, train_loss: 0.9605, step time: 0.3524
Batch 139/248, train_loss: 0.9615, step time: 0.3624
Batch 140/248, train_loss: 0.9951, step time: 0.3750
Batch 141/248, train_loss: 0.9763, step time: 0.3746
Batch 142/248, train_loss: 0.9995, step time: 0.3674
Batch 143/248, train_loss: 0.9954, step time: 0.3547
Batch 144/248, train_loss: 0.9589, step time: 0.3850
Batch 145/248, train_loss: 0.9010, step time: 0.3589
Batch 146/248, train_loss: 0.9998, step time: 0.3555
Batch 147/248, train_loss: 0.8964, step time: 0.3690
Batch 148/248, train_loss: 0.9986, step time: 0.3687
Batch 149/248, train_loss: 0.9901, step time: 0.3452
Batch 150/248, train_loss: 0.9736, step time: 0.3424
Batch 151/248, train_loss: 0.9985, step time: 0.3624
Batch 152/248, train_loss: 0.9086, step time: 0.3565
Batch 153/248, train_loss: 0.9982, step time: 0.3633
Batch 154/248, train_loss: 0.9996, step time: 0.3856
Batch 155/248, train_loss: 0.9900, step time: 0.3684
Batch 156/248, train_loss: 0.9905, step time: 0.3701
Batch 157/248, train_loss: 0.9611, step time: 0.3460
Batch 158/248, train_loss: 0.9998, step time: 0.3846
Batch 159/248, train_loss: 0.9998, step time: 0.3593
Batch 160/248, train_loss: 0.9764, step time: 0.3459
Batch 161/248, train_loss: 0.9907, step time: 0.3527
Batch 162/248, train_loss: 0.8816, step time: 0.3552
Batch 163/248, train_loss: 0.9991, step time: 0.3607
Batch 164/248, train_loss: 0.9906, step time: 0.3825
Batch 165/248, train_loss: 0.9998, step time: 0.3670
- - - - -

Batch 166/248, train_loss: 0.9980, step time: 0.3441
Batch 167/248, train_loss: 0.9912, step time: 0.3674
Batch 168/248, train_loss: 0.9906, step time: 0.3723
Batch 169/248, train_loss: 0.9792, step time: 0.3864
Batch 170/248, train_loss: 0.9992, step time: 0.3840
Batch 171/248, train_loss: 0.9240, step time: 0.3829
Batch 172/248, train_loss: 0.9999, step time: 0.3790
Batch 173/248, train_loss: 0.9604, step time: 0.3575
Batch 174/248, train_loss: 0.9999, step time: 0.3413
Batch 175/248, train_loss: 0.9359, step time: 0.3441
Batch 176/248, train_loss: 0.9953, step time: 0.3416
Batch 177/248, train_loss: 0.9998, step time: 0.3586
Batch 178/248, train_loss: 0.9743, step time: 0.3850
Batch 179/248, train_loss: 0.8633, step time: 0.3513
Batch 180/248, train_loss: 0.9908, step time: 0.3478
Batch 181/248, train_loss: 0.9536, step time: 0.3617
Batch 182/248, train_loss: 0.9980, step time: 0.3850
Batch 183/248, train_loss: 0.9902, step time: 0.3618
Batch 184/248, train_loss: 0.9982, step time: 0.3453
Batch 185/248, train_loss: 0.9908, step time: 0.3438
Batch 186/248, train_loss: 0.9801, step time: 0.3786
Batch 187/248, train_loss: 0.9812, step time: 0.3713
Batch 188/248, train_loss: 0.9911, step time: 0.3690
Batch 189/248, train_loss: 0.9999, step time: 0.3465
Batch 190/248, train_loss: 0.9817, step time: 0.3619
Batch 191/248, train_loss: 0.9998, step time: 0.3475
Batch 192/248, train_loss: 0.9756, step time: 0.3498
Batch 193/248, train_loss: 0.9951, step time: 0.3507
Batch 194/248, train_loss: 0.9947, step time: 0.3842
Batch 195/248, train_loss: 0.9998, step time: 0.3503
Batch 196/248, train_loss: 1.0000, step time: 0.3513
Batch 197/248, train_loss: 0.9971, step time: 0.3722
Batch 198/248, train_loss: 1.0000, step time: 0.3796
Batch 199/248, train_loss: 0.9918, step time: 0.3615
Batch 200/248, train_loss: 0.9907, step time: 0.3814
Batch 201/248, train_loss: 0.9758, step time: 0.3417
Batch 202/248, train_loss: 0.9943, step time: 0.3842
Batch 203/248, train_loss: 0.9996, step time: 0.3615
Batch 204/248, train_loss: 0.9419, step time: 0.3818
Batch 205/248, train_loss: 0.9977, step time: 0.3456
Batch 206/248, train_loss: 0.9999, step time: 0.3726
Batch 207/248, train_loss: 0.9731, step time: 0.3848
Batch 208/248, train_loss: 0.9906, step time: 0.3727
Batch 209/248, train_loss: 0.9861, step time: 0.3859
Batch 210/248, train_loss: 0.9734, step time: 0.3862
Batch 211/248, train_loss: 0.9709, step time: 0.3812
Batch 212/248, train_loss: 0.9962, step time: 0.3759
Batch 213/248, train_loss: 0.9958, step time: 0.3866
Batch 214/248, train_loss: 0.9834, step time: 0.3481
Batch 215/248, train_loss: 0.9967, step time: 0.3749
Batch 216/248, train_loss: 0.9721, step time: 0.3550
Batch 217/248, train_loss: 0.9982, step time: 0.3432
Batch 218/248, train_loss: 0.9998, step time: 0.3419
Batch 219/248, train_loss: 0.9842, step time: 0.3429
Batch 220/248, train_loss: 0.9969, step time: 0.3502
Batch 221/248, train_loss: 0.9962, step time: 0.3712
Batch 222/248, train_loss: 0.9752, step time: 0.3804
Batch 223/248, train_loss: 0.9512, step time: 0.3529
Batch 224/248, train_loss: 0.9692, step time: 0.3660
Batch 225/248, train_loss: 0.9997, step time: 0.3641
Batch 226/248, train_loss: 0.9983, step time: 0.3452
Batch 227/248, train_loss: 0.9837, step time: 0.3813
Batch 228/248, train_loss: 0.9964, step time: 0.3754
Batch 229/248, train_loss: 0.9449, step time: 0.3651
Batch 230/248, train_loss: 0.9846, step time: 0.3824
Batch 231/248, train_loss: 0.9996, step time: 0.3577
Batch 232/248, train_loss: 0.9838, step time: 0.3540
Batch 233/248, train_loss: 1.0000, step time: 0.3787
Batch 234/248, train_loss: 0.9992, step time: 0.3713
Batch 235/248, train_loss: 0.9995, step time: 0.3781
Batch 236/248, train_loss: 0.9998, step time: 0.3808
Batch 237/248, train_loss: 0.9556, step time: 0.3506
Batch 238/248, train_loss: 0.9788, step time: 0.3473
Batch 239/248, train_loss: 0.8468, step time: 0.3746
Batch 240/248, train_loss: 0.9946, step time: 0.3588
Batch 241/248, train_loss: 0.9999, step time: 0.3538
Batch 242/248, train_loss: 0.9981, step time: 0.3852
Batch 243/248, train_loss: 0.9998, step time: 0.3423
Batch 244/248, train_loss: 0.9993, step time: 0.3505
Batch 245/248, train_loss: 0.9737, step time: 0.3793
Batch 246/248, train_loss: 0.9992, step time: 0.3747
Batch 247/248, train_loss: 0.9012, step time: 0.3685
Batch 248/248, train_loss: 1.0000, step time: 0.3510

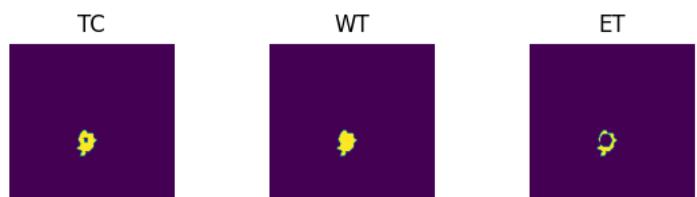
Labels



VAL

```
Batch 1/31, val_loss: 0.9890
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9990
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.9332
Batch 7/31, val_loss: 0.9870
Batch 8/31, val_loss: 0.9989
Batch 9/31, val_loss: 0.9457
Batch 10/31, val_loss: 0.9984
Batch 11/31, val_loss: 0.9924
Batch 12/31, val_loss: 0.9994
Batch 13/31, val_loss: 0.9991
Batch 14/31, val_loss: 0.9986
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9997
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9990
Batch 19/31, val_loss: 0.9765
Batch 20/31, val_loss: 0.9876
Batch 21/31, val_loss: 0.9955
Batch 22/31, val_loss: 0.9998
Batch 23/31, val_loss: 0.9997
Batch 24/31, val_loss: 0.9103
Batch 25/31, val_loss: 0.9847
Batch 26/31, val_loss: 0.9976
Batch 27/31, val_loss: 0.9999
Batch 28/31, val_loss: 0.9824
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9997
Batch 31/31, val_loss: 0.9996
```

Labels



Predictions



epoch 3

```
average train loss: 0.9822
average validation loss: 0.9894
saved as best model: True
current mean dice: 0.0736
current TC dice: 0.0726
current WT dice: 0.0795
current ET dice: 0.0761
Post Mean Metric: 0.0736
```

BEST MEAN METRIC: 0.0/50

time consuming of epoch 3 is: 1461.8066

epoch 4/100

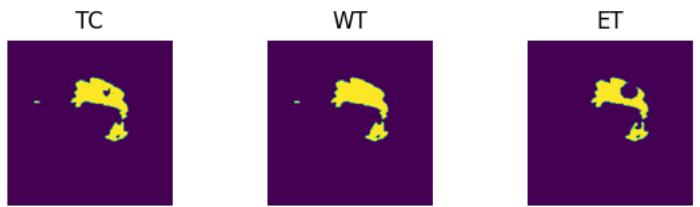
TRAIN

Batch 1/248, train_loss: 0.9408, step time: 0.3892
Batch 2/248, train_loss: 0.9999, step time: 0.3706
Batch 3/248, train_loss: 0.9990, step time: 0.3818
Batch 4/248, train_loss: 0.9999, step time: 0.3814
Batch 5/248, train_loss: 0.9950, step time: 0.3501
Batch 6/248, train_loss: 0.9944, step time: 0.3709
Batch 7/248, train_loss: 0.9095, step time: 0.3581
Batch 8/248, train_loss: 0.9838, step time: 0.3608
Batch 9/248, train_loss: 0.9494, step time: 0.3661
Batch 10/248, train_loss: 0.9980, step time: 0.3471
Batch 11/248, train_loss: 0.9956, step time: 0.3829
Batch 12/248, train_loss: 0.9998, step time: 0.3416
Batch 13/248, train_loss: 0.9985, step time: 0.3474
Batch 14/248, train_loss: 0.8949, step time: 0.3590
Batch 15/248, train_loss: 0.9975, step time: 0.3881
Batch 16/248, train_loss: 0.9946, step time: 0.3859
Batch 17/248, train_loss: 0.9998, step time: 0.3859
Batch 18/248, train_loss: 0.9992, step time: 0.3474
Batch 19/248, train_loss: 0.9499, step time: 0.3713
Batch 20/248, train_loss: 0.9931, step time: 0.3619
Batch 21/248, train_loss: 0.9789, step time: 0.3845
Batch 22/248, train_loss: 1.0000, step time: 0.3534
Batch 23/248, train_loss: 0.9999, step time: 0.3700
Batch 24/248, train_loss: 0.9832, step time: 0.3663
Batch 25/248, train_loss: 0.8876, step time: 0.3442
Batch 26/248, train_loss: 0.9993, step time: 0.3416
Batch 27/248, train_loss: 0.9449, step time: 0.3497
Batch 28/248, train_loss: 0.9938, step time: 0.3453
Batch 29/248, train_loss: 0.9997, step time: 0.3756
Batch 30/248, train_loss: 0.9987, step time: 0.3715
Batch 31/248, train_loss: 0.9974, step time: 0.3644
Batch 32/248, train_loss: 0.9783, step time: 0.3848
Batch 33/248, train_loss: 0.9431, step time: 0.3788
Batch 34/248, train_loss: 0.9628, step time: 0.3866
Batch 35/248, train_loss: 0.9834, step time: 0.3487
Batch 36/248, train_loss: 0.9999, step time: 0.3792
Batch 37/248, train_loss: 0.9852, step time: 0.3607
Batch 38/248, train_loss: 0.9968, step time: 0.3564
Batch 39/248, train_loss: 0.9879, step time: 0.3772
Batch 40/248, train_loss: 1.0000, step time: 0.3477
Batch 41/248, train_loss: 0.9708, step time: 0.3559
Batch 42/248, train_loss: 0.9737, step time: 0.3443
Batch 43/248, train_loss: 0.9567, step time: 0.3452
Batch 44/248, train_loss: 0.9856, step time: 0.3519
Batch 45/248, train_loss: 0.9971, step time: 0.3819
Batch 46/248, train_loss: 0.9891, step time: 0.3441
Batch 47/248, train_loss: 0.9935, step time: 0.3517
Batch 48/248, train_loss: 0.9893, step time: 0.3526
Batch 49/248, train_loss: 0.9993, step time: 0.3606
Batch 50/248, train_loss: 0.9947, step time: 0.3827
Batch 51/248, train_loss: 0.9928, step time: 0.3577
Batch 52/248, train_loss: 0.9899, step time: 0.3486
Batch 53/248, train_loss: 0.9968, step time: 0.3750
Batch 54/248, train_loss: 0.9926, step time: 0.3665
Batch 55/248, train_loss: 0.9978, step time: 0.3480
Batch 56/248, train_loss: 0.9928, step time: 0.3697
Batch 57/248, train_loss: 0.9948, step time: 0.3767
Batch 58/248, train_loss: 0.9759, step time: 0.3840
Batch 59/248, train_loss: 0.9817, step time: 0.3508
Batch 60/248, train_loss: 0.9752, step time: 0.3847
Batch 61/248, train_loss: 0.9829, step time: 0.3788
Batch 62/248, train_loss: 0.9982, step time: 0.3823
Batch 63/248, train_loss: 0.9993, step time: 0.3630
Batch 64/248, train_loss: 0.9993, step time: 0.3723
Batch 65/248, train_loss: 0.9944, step time: 0.3819
Batch 66/248, train_loss: 0.9944, step time: 0.3482
Batch 67/248, train_loss: 0.9379, step time: 0.3772
Batch 68/248, train_loss: 0.9675, step time: 0.3549
Batch 69/248, train_loss: 0.9999, step time: 0.3679
Batch 70/248, train_loss: 0.9766, step time: 0.3463
Batch 71/248, train_loss: 0.9612, step time: 0.3520
Batch 72/248, train_loss: 0.9670, step time: 0.3534
Batch 73/248, train_loss: 0.9707, step time: 0.3565
Batch 74/248, train_loss: 0.9999, step time: 0.3833
Batch 75/248, train_loss: 0.9724, step time: 0.3689
Batch 76/248, train_loss: 0.9995, step time: 0.3689
Batch 77/248, train_loss: 0.9998, step time: 0.3410
Batch 78/248, train_loss: 0.9875, step time: 0.3834
Batch 79/248, train_loss: 0.9931, step time: 0.3448
Batch 80/248, train_loss: 0.9955, step time: 0.3505

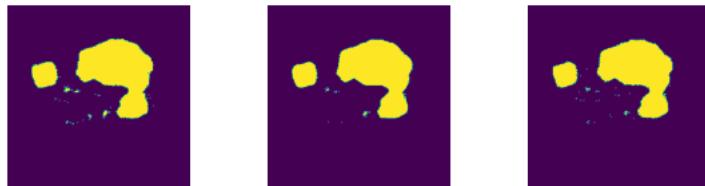
Batch 81/248, train_loss: 0.9973, step time: 0.3738
Batch 82/248, train_loss: 0.9733, step time: 0.3831
Batch 83/248, train_loss: 0.9993, step time: 0.3562
Batch 84/248, train_loss: 0.9934, step time: 0.3748
Batch 85/248, train_loss: 0.9997, step time: 0.3701
Batch 86/248, train_loss: 0.9760, step time: 0.3808
Batch 87/248, train_loss: 0.9986, step time: 0.3599
Batch 88/248, train_loss: 0.9989, step time: 0.3784
Batch 89/248, train_loss: 0.9222, step time: 0.3606
Batch 90/248, train_loss: 0.9929, step time: 0.3469
Batch 91/248, train_loss: 0.9996, step time: 0.3723
Batch 92/248, train_loss: 0.9914, step time: 0.3631
Batch 93/248, train_loss: 0.9687, step time: 0.3742
Batch 94/248, train_loss: 0.9997, step time: 0.3418
Batch 95/248, train_loss: 0.9855, step time: 0.3722
Batch 96/248, train_loss: 0.9836, step time: 0.3488
Batch 97/248, train_loss: 1.0000, step time: 0.3492
Batch 98/248, train_loss: 0.9612, step time: 0.3772
Batch 99/248, train_loss: 0.9988, step time: 0.3539
Batch 100/248, train_loss: 0.9998, step time: 0.3427
Batch 101/248, train_loss: 0.9082, step time: 0.3420
Batch 102/248, train_loss: 0.9909, step time: 0.3775
Batch 103/248, train_loss: 0.9995, step time: 0.3853
Batch 104/248, train_loss: 0.9852, step time: 0.3478
Batch 105/248, train_loss: 0.9588, step time: 0.3451
Batch 106/248, train_loss: 0.9948, step time: 0.3492
Batch 107/248, train_loss: 0.9989, step time: 0.3466
Batch 108/248, train_loss: 0.9993, step time: 0.3710
Batch 109/248, train_loss: 0.9998, step time: 0.3541
Batch 110/248, train_loss: 0.9964, step time: 0.3800
Batch 111/248, train_loss: 0.9599, step time: 0.3798
Batch 112/248, train_loss: 0.9645, step time: 0.3755
Batch 113/248, train_loss: 0.9999, step time: 0.3603
Batch 114/248, train_loss: 0.9249, step time: 0.3789
Batch 115/248, train_loss: 0.9889, step time: 0.3719
Batch 116/248, train_loss: 0.9595, step time: 0.3446
Batch 117/248, train_loss: 0.9997, step time: 0.3826
Batch 118/248, train_loss: 0.9984, step time: 0.3735
Batch 119/248, train_loss: 0.9894, step time: 0.3867
Batch 120/248, train_loss: 0.9906, step time: 0.3809
Batch 121/248, train_loss: 0.9976, step time: 0.3841
Batch 122/248, train_loss: 0.9984, step time: 0.3837
Batch 123/248, train_loss: 0.9780, step time: 0.3518
Batch 124/248, train_loss: 0.9987, step time: 0.3831
Batch 125/248, train_loss: 0.9996, step time: 0.3655
Batch 126/248, train_loss: 0.9534, step time: 0.3636
Batch 127/248, train_loss: 0.9917, step time: 0.3451
Batch 128/248, train_loss: 0.9958, step time: 0.3808
Batch 129/248, train_loss: 0.9372, step time: 0.3835
Batch 130/248, train_loss: 0.9402, step time: 0.3449
Batch 131/248, train_loss: 0.9985, step time: 0.3475
Batch 132/248, train_loss: 0.9988, step time: 0.3616
Batch 133/248, train_loss: 0.8847, step time: 0.3477
Batch 134/248, train_loss: 1.0000, step time: 0.3484
Batch 135/248, train_loss: 0.9993, step time: 0.3488
Batch 136/248, train_loss: 0.9955, step time: 0.3551
Batch 137/248, train_loss: 0.9446, step time: 0.3670
Batch 138/248, train_loss: 0.9589, step time: 0.3669
Batch 139/248, train_loss: 0.9594, step time: 0.3436
Batch 140/248, train_loss: 0.9948, step time: 0.3748
Batch 141/248, train_loss: 0.9751, step time: 0.3465
Batch 142/248, train_loss: 0.9995, step time: 0.3462
Batch 143/248, train_loss: 0.9952, step time: 0.3808
Batch 144/248, train_loss: 0.9570, step time: 0.3504
Batch 145/248, train_loss: 0.8962, step time: 0.3712
Batch 146/248, train_loss: 0.9998, step time: 0.3806
Batch 147/248, train_loss: 0.8917, step time: 0.3422
Batch 148/248, train_loss: 0.9985, step time: 0.3837
Batch 149/248, train_loss: 0.9896, step time: 0.3660
Batch 150/248, train_loss: 0.9715, step time: 0.3815
Batch 151/248, train_loss: 0.9984, step time: 0.3406
Batch 152/248, train_loss: 0.9041, step time: 0.3835
Batch 153/248, train_loss: 0.9981, step time: 0.3574
Batch 154/248, train_loss: 0.9996, step time: 0.3801
Batch 155/248, train_loss: 0.9896, step time: 0.3829
Batch 156/248, train_loss: 0.9899, step time: 0.3777
Batch 157/248, train_loss: 0.9591, step time: 0.3661
Batch 158/248, train_loss: 0.9998, step time: 0.3738
Batch 159/248, train_loss: 0.9998, step time: 0.3745
Batch 160/248, train_loss: 0.9754, step time: 0.3788
Batch 161/248, train_loss: 0.9904, step time: 0.3677
Batch 162/248, train_loss: 0.8750, step time: 0.3667
Batch 163/248, train_loss: 0.9991, step time: 0.3679
Batch 164/248, train_loss: 0.9900, step time: 0.3594
Batch 165/248, train_loss: 0.9998, step time: 0.3629

Batch 166/248, train_loss: 0.9979, step time: 0.3436
Batch 167/248, train_loss: 0.9906, step time: 0.3449
Batch 168/248, train_loss: 0.9902, step time: 0.3493
Batch 169/248, train_loss: 0.9782, step time: 0.3754
Batch 170/248, train_loss: 0.9992, step time: 0.3469
Batch 171/248, train_loss: 0.9202, step time: 0.3808
Batch 172/248, train_loss: 0.9999, step time: 0.3518
Batch 173/248, train_loss: 0.9587, step time: 0.3421
Batch 174/248, train_loss: 0.9994, step time: 0.3691
Batch 175/248, train_loss: 0.9325, step time: 0.3418
Batch 176/248, train_loss: 0.9950, step time: 0.3716
Batch 177/248, train_loss: 0.9998, step time: 0.3458
Batch 178/248, train_loss: 0.9729, step time: 0.3455
Batch 179/248, train_loss: 0.8556, step time: 0.3452
Batch 180/248, train_loss: 0.9904, step time: 0.3466
Batch 181/248, train_loss: 0.9514, step time: 0.3541
Batch 182/248, train_loss: 0.9980, step time: 0.3462
Batch 183/248, train_loss: 0.9897, step time: 0.3839
Batch 184/248, train_loss: 0.9981, step time: 0.3491
Batch 185/248, train_loss: 0.9904, step time: 0.3899
Batch 186/248, train_loss: 0.9792, step time: 0.3850
Batch 187/248, train_loss: 0.9802, step time: 0.3860
Batch 188/248, train_loss: 0.9906, step time: 0.3773
Batch 189/248, train_loss: 0.9999, step time: 0.3457
Batch 190/248, train_loss: 0.9809, step time: 0.3706
Batch 191/248, train_loss: 0.9998, step time: 0.3416
Batch 192/248, train_loss: 0.9744, step time: 0.3790
Batch 193/248, train_loss: 0.9948, step time: 0.3673
Batch 194/248, train_loss: 0.9945, step time: 0.3442
Batch 195/248, train_loss: 0.9999, step time: 0.3544
Batch 196/248, train_loss: 1.0000, step time: 0.3620
Batch 197/248, train_loss: 0.9970, step time: 0.3401
Batch 198/248, train_loss: 1.0000, step time: 0.3452
Batch 199/248, train_loss: 0.9914, step time: 0.3460
Batch 200/248, train_loss: 0.9902, step time: 0.3784
Batch 201/248, train_loss: 0.9748, step time: 0.3823
Batch 202/248, train_loss: 0.9939, step time: 0.3733
Batch 203/248, train_loss: 0.9996, step time: 0.3708
Batch 204/248, train_loss: 0.9392, step time: 0.3573
Batch 205/248, train_loss: 0.9975, step time: 0.3843
Batch 206/248, train_loss: 0.9999, step time: 0.3738
Batch 207/248, train_loss: 0.9719, step time: 0.3570
Batch 208/248, train_loss: 0.9901, step time: 0.3427
Batch 209/248, train_loss: 0.9853, step time: 0.3561
Batch 210/248, train_loss: 0.9722, step time: 0.3793
Batch 211/248, train_loss: 0.9697, step time: 0.3677
Batch 212/248, train_loss: 0.9959, step time: 0.3451
Batch 213/248, train_loss: 0.9956, step time: 0.3607
Batch 214/248, train_loss: 0.9826, step time: 0.3665
Batch 215/248, train_loss: 0.9965, step time: 0.3600
Batch 216/248, train_loss: 0.9708, step time: 0.3755
Batch 217/248, train_loss: 0.9982, step time: 0.3416
Batch 218/248, train_loss: 0.9998, step time: 0.3805
Batch 219/248, train_loss: 0.9834, step time: 0.3531
Batch 220/248, train_loss: 0.9968, step time: 0.3701
Batch 221/248, train_loss: 0.9960, step time: 0.3468
Batch 222/248, train_loss: 0.9740, step time: 0.3538
Batch 223/248, train_loss: 0.9490, step time: 0.3760
Batch 224/248, train_loss: 0.9679, step time: 0.3850
Batch 225/248, train_loss: 0.9997, step time: 0.3730
Batch 226/248, train_loss: 0.9982, step time: 0.3579
Batch 227/248, train_loss: 0.9830, step time: 0.3614
Batch 228/248, train_loss: 0.9962, step time: 0.3658
Batch 229/248, train_loss: 0.9418, step time: 0.3817
Batch 230/248, train_loss: 0.9839, step time: 0.3671
Batch 231/248, train_loss: 0.9996, step time: 0.3833
Batch 232/248, train_loss: 0.9831, step time: 0.3666
Batch 233/248, train_loss: 1.0000, step time: 0.3811
Batch 234/248, train_loss: 0.9991, step time: 0.3439
Batch 235/248, train_loss: 0.9994, step time: 0.3731
Batch 236/248, train_loss: 0.9997, step time: 0.3832
Batch 237/248, train_loss: 0.9534, step time: 0.3768
Batch 238/248, train_loss: 0.9778, step time: 0.3808
Batch 239/248, train_loss: 0.8365, step time: 0.3837
Batch 240/248, train_loss: 0.9944, step time: 0.3498
Batch 241/248, train_loss: 0.9999, step time: 0.3425
Batch 242/248, train_loss: 0.9979, step time: 0.3757
Batch 243/248, train_loss: 0.9998, step time: 0.3465
Batch 244/248, train_loss: 0.9993, step time: 0.3448
Batch 245/248, train_loss: 0.9720, step time: 0.3726
Batch 246/248, train_loss: 0.9991, step time: 0.3482
Batch 247/248, train_loss: 0.8959, step time: 0.3594
Batch 248/248, train_loss: 1.0000, step time: 0.3739

Labels



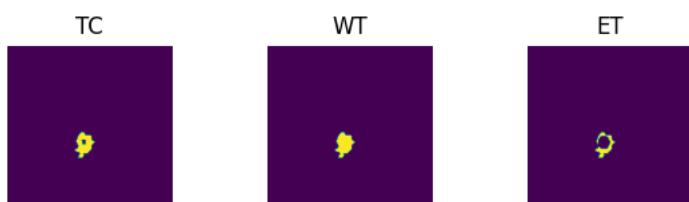
Predictions



VAL

```
Batch 1/31, val_loss: 0.9878
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9997
Batch 4/31, val_loss: 0.9989
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.9301
Batch 7/31, val_loss: 0.9859
Batch 8/31, val_loss: 0.9988
Batch 9/31, val_loss: 0.9429
Batch 10/31, val_loss: 0.9982
Batch 11/31, val_loss: 0.9915
Batch 12/31, val_loss: 0.9992
Batch 13/31, val_loss: 0.9990
Batch 14/31, val_loss: 0.9982
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9997
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9990
Batch 19/31, val_loss: 0.9751
Batch 20/31, val_loss: 0.9868
Batch 21/31, val_loss: 0.9952
Batch 22/31, val_loss: 0.9998
Batch 23/31, val_loss: 0.9997
Batch 24/31, val_loss: 0.9072
Batch 25/31, val_loss: 0.9837
Batch 26/31, val_loss: 0.9973
Batch 27/31, val_loss: 0.9999
Batch 28/31, val_loss: 0.9812
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9997
Batch 31/31, val_loss: 0.9995
```

Labels



Predictions



epoch 4

```
average train loss: 0.9813
average validation loss: 0.9888
saved as best model: True
current mean dice: 0.0885
current TC dice: 0.0897
current WT dice: 0.0944
current ET dice: 0.0902
```

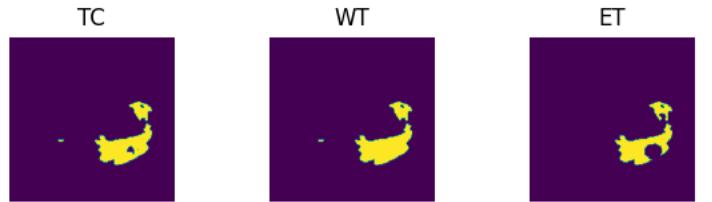
Best Mean Metric: 0.0885
time consuming of epoch 4 is: 1468.5037

epoch 5/100
TRAIN
Batch 1/248, train_loss: 0.9373, step time: 0.3813
Batch 2/248, train_loss: 0.9999, step time: 0.3474
Batch 3/248, train_loss: 0.9989, step time: 0.3489
Batch 4/248, train_loss: 0.9999, step time: 0.3452
Batch 5/248, train_loss: 0.9945, step time: 0.3688
Batch 6/248, train_loss: 0.9939, step time: 0.3759
Batch 7/248, train_loss: 0.9039, step time: 0.3754
Batch 8/248, train_loss: 0.9828, step time: 0.3847
Batch 9/248, train_loss: 0.9465, step time: 0.3702
Batch 10/248, train_loss: 0.9978, step time: 0.3534
Batch 11/248, train_loss: 0.9953, step time: 0.3782
Batch 12/248, train_loss: 0.9998, step time: 0.3451
Batch 13/248, train_loss: 0.9984, step time: 0.3892
Batch 14/248, train_loss: 0.8889, step time: 0.3741
Batch 15/248, train_loss: 0.9974, step time: 0.3482
Batch 16/248, train_loss: 0.9942, step time: 0.3587
Batch 17/248, train_loss: 0.9997, step time: 0.3746
Batch 18/248, train_loss: 0.9992, step time: 0.3482
Batch 19/248, train_loss: 0.9468, step time: 0.3434
Batch 20/248, train_loss: 0.9927, step time: 0.3432
Batch 21/248, train_loss: 0.9779, step time: 0.3705
Batch 22/248, train_loss: 1.0000, step time: 0.3491
Batch 23/248, train_loss: 0.9999, step time: 0.3844
Batch 24/248, train_loss: 0.9824, step time: 0.3737
Batch 25/248, train_loss: 0.8789, step time: 0.3724
Batch 26/248, train_loss: 0.9992, step time: 0.3804
Batch 27/248, train_loss: 0.9420, step time: 0.3448
Batch 28/248, train_loss: 0.9934, step time: 0.3776
Batch 29/248, train_loss: 0.9997, step time: 0.3565
Batch 30/248, train_loss: 0.9943, step time: 0.3505
Batch 31/248, train_loss: 0.9972, step time: 0.3521
Batch 32/248, train_loss: 0.9773, step time: 0.3805
Batch 33/248, train_loss: 0.9403, step time: 0.3772
Batch 34/248, train_loss: 0.9610, step time: 0.3798
Batch 35/248, train_loss: 0.9826, step time: 0.3648
Batch 36/248, train_loss: 0.9999, step time: 0.3424
Batch 37/248, train_loss: 0.9844, step time: 0.3451
Batch 38/248, train_loss: 0.9965, step time: 0.3403
Batch 39/248, train_loss: 0.9865, step time: 0.3831
Batch 40/248, train_loss: 1.0000, step time: 0.3531
Batch 41/248, train_loss: 0.9691, step time: 0.3542
Batch 42/248, train_loss: 0.9723, step time: 0.3861
Batch 43/248, train_loss: 0.9541, step time: 0.3805
Batch 44/248, train_loss: 0.9856, step time: 0.3553
Batch 45/248, train_loss: 0.9977, step time: 0.3577
Batch 46/248, train_loss: 0.9885, step time: 0.3720
Batch 47/248, train_loss: 0.9931, step time: 0.3708
Batch 48/248, train_loss: 0.9885, step time: 0.3418
Batch 49/248, train_loss: 0.9995, step time: 0.3872
Batch 50/248, train_loss: 0.9944, step time: 0.3425
Batch 51/248, train_loss: 0.9925, step time: 0.3649
Batch 52/248, train_loss: 0.9894, step time: 0.3759
Batch 53/248, train_loss: 0.9967, step time: 0.3589
Batch 54/248, train_loss: 0.9923, step time: 0.3745
Batch 55/248, train_loss: 0.9976, step time: 0.3856
Batch 56/248, train_loss: 0.9924, step time: 0.3522
Batch 57/248, train_loss: 0.9945, step time: 0.3523
Batch 58/248, train_loss: 0.9747, step time: 0.3808
Batch 59/248, train_loss: 0.9807, step time: 0.3469
Batch 60/248, train_loss: 0.9740, step time: 0.3590
Batch 61/248, train_loss: 0.9819, step time: 0.3439
Batch 62/248, train_loss: 0.9980, step time: 0.3508
Batch 63/248, train_loss: 0.9992, step time: 0.3524
Batch 64/248, train_loss: 0.9993, step time: 0.3697
Batch 65/248, train_loss: 0.9940, step time: 0.3514
Batch 66/248, train_loss: 0.9940, step time: 0.3474
Batch 67/248, train_loss: 0.9343, step time: 0.3620
Batch 68/248, train_loss: 0.9657, step time: 0.3748
Batch 69/248, train_loss: 0.9999, step time: 0.3858
Batch 70/248, train_loss: 0.9755, step time: 0.3731
Batch 71/248, train_loss: 0.9591, step time: 0.3706
Batch 72/248, train_loss: 0.9654, step time: 0.3879
Batch 73/248, train_loss: 0.9691, step time: 0.3695
Batch 74/248, train_loss: 0.9999, step time: 0.3725
Batch 75/248, train_loss: 0.9710, step time: 0.3656
Batch 76/248, train_loss: 0.9995, step time: 0.3848
Batch 77/248, train_loss: 0.9998, step time: 0.3620
Batch 78/248, train_loss: 0.9869, step time: 0.3701
Batch 79/248, train_loss: 0.9926, step time: 0.3557
Batch 80/248, train_loss: 0.9952, step time: 0.3730

Batch 81/248, train_loss: 0.9971, step time: 0.3548
Batch 82/248, train_loss: 0.9719, step time: 0.3472
Batch 83/248, train_loss: 0.9992, step time: 0.3796
Batch 84/248, train_loss: 0.9930, step time: 0.3833
Batch 85/248, train_loss: 0.9996, step time: 0.3523
Batch 86/248, train_loss: 0.9745, step time: 0.3670
Batch 87/248, train_loss: 0.9985, step time: 0.3770
Batch 88/248, train_loss: 0.9988, step time: 0.3547
Batch 89/248, train_loss: 0.9176, step time: 0.3413
Batch 90/248, train_loss: 0.9924, step time: 0.3434
Batch 91/248, train_loss: 0.9996, step time: 0.3556
Batch 92/248, train_loss: 0.9905, step time: 0.3789
Batch 93/248, train_loss: 0.9670, step time: 0.3484
Batch 94/248, train_loss: 0.9996, step time: 0.3749
Batch 95/248, train_loss: 0.9847, step time: 0.3424
Batch 96/248, train_loss: 0.9826, step time: 0.3402
Batch 97/248, train_loss: 1.0000, step time: 0.3712
Batch 98/248, train_loss: 0.9590, step time: 0.3859
Batch 99/248, train_loss: 0.9988, step time: 0.3491
Batch 100/248, train_loss: 0.9998, step time: 0.3416
Batch 101/248, train_loss: 0.9028, step time: 0.3835
Batch 102/248, train_loss: 0.9904, step time: 0.3565
Batch 103/248, train_loss: 0.9994, step time: 0.3417
Batch 104/248, train_loss: 0.9840, step time: 0.3599
Batch 105/248, train_loss: 0.9569, step time: 0.3812
Batch 106/248, train_loss: 0.9945, step time: 0.3712
Batch 107/248, train_loss: 0.9988, step time: 0.3598
Batch 108/248, train_loss: 0.9992, step time: 0.3421
Batch 109/248, train_loss: 0.9998, step time: 0.3758
Batch 110/248, train_loss: 0.9962, step time: 0.3445
Batch 111/248, train_loss: 0.9575, step time: 0.3467
Batch 112/248, train_loss: 0.9624, step time: 0.3546
Batch 113/248, train_loss: 1.0000, step time: 0.3479
Batch 114/248, train_loss: 0.9194, step time: 0.3426
Batch 115/248, train_loss: 0.9882, step time: 0.3532
Batch 116/248, train_loss: 0.9571, step time: 0.3843
Batch 117/248, train_loss: 0.9997, step time: 0.3494
Batch 118/248, train_loss: 0.9982, step time: 0.3518
Batch 119/248, train_loss: 0.9889, step time: 0.3714
Batch 120/248, train_loss: 0.9900, step time: 0.3473
Batch 121/248, train_loss: 0.9974, step time: 0.3522
Batch 122/248, train_loss: 0.9983, step time: 0.3785
Batch 123/248, train_loss: 0.9762, step time: 0.3711
Batch 124/248, train_loss: 0.9986, step time: 0.3815
Batch 125/248, train_loss: 0.9996, step time: 0.3519
Batch 126/248, train_loss: 0.9502, step time: 0.3460
Batch 127/248, train_loss: 0.9910, step time: 0.3532
Batch 128/248, train_loss: 0.9956, step time: 0.3508
Batch 129/248, train_loss: 0.9338, step time: 0.3679
Batch 130/248, train_loss: 0.9358, step time: 0.3419
Batch 131/248, train_loss: 0.9984, step time: 0.3728
Batch 132/248, train_loss: 0.9987, step time: 0.3436
Batch 133/248, train_loss: 0.8764, step time: 0.3687
Batch 134/248, train_loss: 1.0000, step time: 0.3739
Batch 135/248, train_loss: 0.9993, step time: 0.3458
Batch 136/248, train_loss: 0.9952, step time: 0.3800
Batch 137/248, train_loss: 0.9409, step time: 0.3569
Batch 138/248, train_loss: 0.9563, step time: 0.3559
Batch 139/248, train_loss: 0.9563, step time: 0.3551
Batch 140/248, train_loss: 0.9945, step time: 0.3407
Batch 141/248, train_loss: 0.9735, step time: 0.3407
Batch 142/248, train_loss: 0.9994, step time: 0.3549
Batch 143/248, train_loss: 0.9951, step time: 0.3461
Batch 144/248, train_loss: 0.9544, step time: 0.3674
Batch 145/248, train_loss: 0.8890, step time: 0.3875
Batch 146/248, train_loss: 0.9998, step time: 0.3431
Batch 147/248, train_loss: 0.8836, step time: 0.3672
Batch 148/248, train_loss: 0.9984, step time: 0.3619
Batch 149/248, train_loss: 0.9890, step time: 0.3782
Batch 150/248, train_loss: 0.9686, step time: 0.3408
Batch 151/248, train_loss: 0.9983, step time: 0.3722
Batch 152/248, train_loss: 0.8985, step time: 0.3809
Batch 153/248, train_loss: 0.9980, step time: 0.3851
Batch 154/248, train_loss: 0.9996, step time: 0.3831
Batch 155/248, train_loss: 0.9891, step time: 0.3800
Batch 156/248, train_loss: 0.9893, step time: 0.3424
Batch 157/248, train_loss: 0.9565, step time: 0.3837
Batch 158/248, train_loss: 0.9998, step time: 0.3473
Batch 159/248, train_loss: 0.9998, step time: 0.3744
Batch 160/248, train_loss: 0.9740, step time: 0.3868
Batch 161/248, train_loss: 0.9899, step time: 0.3404
Batch 162/248, train_loss: 0.8671, step time: 0.3569
Batch 163/248, train_loss: 0.9990, step time: 0.3465
Batch 164/248, train_loss: 0.9893, step time: 0.3493
Batch 165/248, train_loss: 0.9998, step time: 0.3777

Batch 166/248, train_loss: 0.9978, step time: 0.3851
Batch 167/248, train_loss: 0.9898, step time: 0.3576
Batch 168/248, train_loss: 0.9896, step time: 0.3455
Batch 169/248, train_loss: 0.9770, step time: 0.3478
Batch 170/248, train_loss: 0.9991, step time: 0.3539
Batch 171/248, train_loss: 0.9152, step time: 0.3453
Batch 172/248, train_loss: 0.9999, step time: 0.3742
Batch 173/248, train_loss: 0.9561, step time: 0.3850
Batch 174/248, train_loss: 0.9995, step time: 0.3429
Batch 175/248, train_loss: 0.9270, step time: 0.3710
Batch 176/248, train_loss: 0.9944, step time: 0.3585
Batch 177/248, train_loss: 0.9998, step time: 0.3541
Batch 178/248, train_loss: 0.9709, step time: 0.3416
Batch 179/248, train_loss: 0.8452, step time: 0.3538
Batch 180/248, train_loss: 0.9898, step time: 0.3418
Batch 181/248, train_loss: 0.9482, step time: 0.3499
Batch 182/248, train_loss: 0.9978, step time: 0.3499
Batch 183/248, train_loss: 0.9890, step time: 0.3481
Batch 184/248, train_loss: 0.9979, step time: 0.3579
Batch 185/248, train_loss: 0.9899, step time: 0.3721
Batch 186/248, train_loss: 0.9780, step time: 0.3473
Batch 187/248, train_loss: 0.9788, step time: 0.3838
Batch 188/248, train_loss: 0.9898, step time: 0.3834
Batch 189/248, train_loss: 0.9999, step time: 0.3583
Batch 190/248, train_loss: 0.9796, step time: 0.3656
Batch 191/248, train_loss: 0.9998, step time: 0.3423
Batch 192/248, train_loss: 0.9721, step time: 0.3442
Batch 193/248, train_loss: 0.9944, step time: 0.3732
Batch 194/248, train_loss: 0.9940, step time: 0.3545
Batch 195/248, train_loss: 0.9998, step time: 0.3499
Batch 196/248, train_loss: 1.0000, step time: 0.3571
Batch 197/248, train_loss: 0.9967, step time: 0.3449
Batch 198/248, train_loss: 1.0000, step time: 0.3673
Batch 199/248, train_loss: 0.9906, step time: 0.3849
Batch 200/248, train_loss: 0.9895, step time: 0.3486
Batch 201/248, train_loss: 0.9734, step time: 0.3618
Batch 202/248, train_loss: 0.9933, step time: 0.3789
Batch 203/248, train_loss: 0.9995, step time: 0.3407
Batch 204/248, train_loss: 0.9350, step time: 0.3464
Batch 205/248, train_loss: 0.9974, step time: 0.3653
Batch 206/248, train_loss: 0.9999, step time: 0.3826
Batch 207/248, train_loss: 0.9702, step time: 0.3825
Batch 208/248, train_loss: 0.9894, step time: 0.3745
Batch 209/248, train_loss: 0.9841, step time: 0.3650
Batch 210/248, train_loss: 0.9703, step time: 0.3638
Batch 211/248, train_loss: 0.9675, step time: 0.3470
Batch 212/248, train_loss: 0.9955, step time: 0.3499
Batch 213/248, train_loss: 0.9952, step time: 0.3626
Batch 214/248, train_loss: 0.9812, step time: 0.3660
Batch 215/248, train_loss: 0.9964, step time: 0.3450
Batch 216/248, train_loss: 0.9685, step time: 0.3850
Batch 217/248, train_loss: 0.9980, step time: 0.3690
Batch 218/248, train_loss: 0.9997, step time: 0.3802
Batch 219/248, train_loss: 0.9821, step time: 0.3642
Batch 220/248, train_loss: 0.9965, step time: 0.3808
Batch 221/248, train_loss: 0.9957, step time: 0.3674
Batch 222/248, train_loss: 0.9726, step time: 0.3547
Batch 223/248, train_loss: 0.9449, step time: 0.3611
Batch 224/248, train_loss: 0.9655, step time: 0.3685
Batch 225/248, train_loss: 0.9997, step time: 0.3807
Batch 226/248, train_loss: 0.9981, step time: 0.3770
Batch 227/248, train_loss: 0.9816, step time: 0.3596
Batch 228/248, train_loss: 0.9959, step time: 0.3471
Batch 229/248, train_loss: 0.9369, step time: 0.3491
Batch 230/248, train_loss: 0.9827, step time: 0.3443
Batch 231/248, train_loss: 0.9996, step time: 0.3732
Batch 232/248, train_loss: 0.9817, step time: 0.3420
Batch 233/248, train_loss: 1.0000, step time: 0.3664
Batch 234/248, train_loss: 0.9993, step time: 0.3815
Batch 235/248, train_loss: 0.9992, step time: 0.3832
Batch 236/248, train_loss: 0.9997, step time: 0.3719
Batch 237/248, train_loss: 0.9501, step time: 0.3481
Batch 238/248, train_loss: 0.9761, step time: 0.3767
Batch 239/248, train_loss: 0.8226, step time: 0.3797
Batch 240/248, train_loss: 0.9938, step time: 0.3491
Batch 241/248, train_loss: 0.9999, step time: 0.3764
Batch 242/248, train_loss: 0.9978, step time: 0.3466
Batch 243/248, train_loss: 0.9998, step time: 0.3478
Batch 244/248, train_loss: 0.9993, step time: 0.3767
Batch 245/248, train_loss: 0.9702, step time: 0.3813
Batch 246/248, train_loss: 0.9991, step time: 0.3834
Batch 247/248, train_loss: 0.8883, step time: 0.3859
Batch 248/248, train_loss: 1.0000, step time: 0.3737

Labels



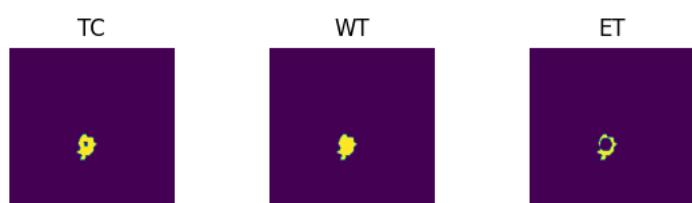
Predictions



VAL

```
Batch 1/31, val_loss: 0.9872
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9988
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.9270
Batch 7/31, val_loss: 0.9853
Batch 8/31, val_loss: 0.9987
Batch 9/31, val_loss: 0.9421
Batch 10/31, val_loss: 0.9981
Batch 11/31, val_loss: 0.9913
Batch 12/31, val_loss: 0.9993
Batch 13/31, val_loss: 0.9989
Batch 14/31, val_loss: 0.9986
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9997
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9989
Batch 19/31, val_loss: 0.9748
Batch 20/31, val_loss: 0.9862
Batch 21/31, val_loss: 0.9952
Batch 22/31, val_loss: 0.9998
Batch 23/31, val_loss: 0.9997
Batch 24/31, val_loss: 0.9853
Batch 25/31, val_loss: 0.9833
Batch 26/31, val_loss: 0.9973
Batch 27/31, val_loss: 0.9999
Batch 28/31, val_loss: 0.9806
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9997
Batch 31/31, val_loss: 0.9995
```

Labels



Predictions



epoch 5

```
average train loss: 0.9800
average validation loss: 0.9885
saved as best model: False
current mean dice: 0.0800
current TC dice: 0.0818
current WT dice: 0.0850
current ET dice: 0.0811
```

Best Mean Metric: 0.0885
time consuming of epoch 5 is: 1465.3766

epoch 6/100

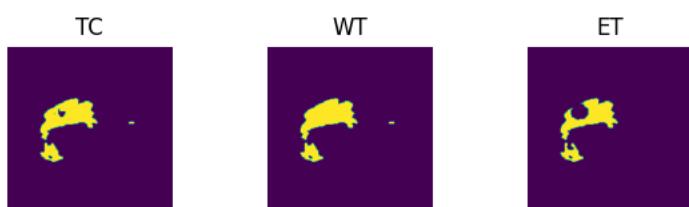
TRAIN

Batch 1/248, train_loss: 0.9333, step time: 0.3683
Batch 2/248, train_loss: 0.9999, step time: 0.3716
Batch 3/248, train_loss: 0.9989, step time: 0.3576
Batch 4/248, train_loss: 0.9999, step time: 0.3663
Batch 5/248, train_loss: 0.9941, step time: 0.3419
Batch 6/248, train_loss: 0.9934, step time: 0.3772
Batch 7/248, train_loss: 0.8968, step time: 0.3565
Batch 8/248, train_loss: 0.9814, step time: 0.3502
Batch 9/248, train_loss: 0.9433, step time: 0.3740
Batch 10/248, train_loss: 0.9976, step time: 0.3433
Batch 11/248, train_loss: 0.9948, step time: 0.3551
Batch 12/248, train_loss: 0.9999, step time: 0.3547
Batch 13/248, train_loss: 0.9983, step time: 0.3691
Batch 14/248, train_loss: 0.8806, step time: 0.3616
Batch 15/248, train_loss: 0.9972, step time: 0.3441
Batch 16/248, train_loss: 0.9936, step time: 0.3797
Batch 17/248, train_loss: 0.9997, step time: 0.3878
Batch 18/248, train_loss: 0.9991, step time: 0.3680
Batch 19/248, train_loss: 0.9432, step time: 0.3619
Batch 20/248, train_loss: 0.9920, step time: 0.3705
Batch 21/248, train_loss: 0.9766, step time: 0.3436
Batch 22/248, train_loss: 0.9999, step time: 0.3405
Batch 23/248, train_loss: 0.9999, step time: 0.3740
Batch 24/248, train_loss: 0.9809, step time: 0.3732
Batch 25/248, train_loss: 0.8678, step time: 0.3436
Batch 26/248, train_loss: 0.9992, step time: 0.3410
Batch 27/248, train_loss: 0.9379, step time: 0.3537
Batch 28/248, train_loss: 0.9928, step time: 0.3691
Batch 29/248, train_loss: 0.9997, step time: 0.3585
Batch 30/248, train_loss: 0.9928, step time: 0.3731
Batch 31/248, train_loss: 0.9970, step time: 0.3502
Batch 32/248, train_loss: 0.9757, step time: 0.3459
Batch 33/248, train_loss: 0.9347, step time: 0.3482
Batch 34/248, train_loss: 0.9574, step time: 0.3501
Batch 35/248, train_loss: 0.9811, step time: 0.3408
Batch 36/248, train_loss: 0.9999, step time: 0.3756
Batch 37/248, train_loss: 0.9832, step time: 0.3727
Batch 38/248, train_loss: 0.9961, step time: 0.3730
Batch 39/248, train_loss: 0.9853, step time: 0.3849
Batch 40/248, train_loss: 1.0000, step time: 0.3466
Batch 41/248, train_loss: 0.9666, step time: 0.3847
Batch 42/248, train_loss: 0.9700, step time: 0.3652
Batch 43/248, train_loss: 0.9500, step time: 0.3576
Batch 44/248, train_loss: 0.9842, step time: 0.3653
Batch 45/248, train_loss: 0.9974, step time: 0.3733
Batch 46/248, train_loss: 0.9877, step time: 0.3544
Batch 47/248, train_loss: 0.9924, step time: 0.3567
Batch 48/248, train_loss: 0.9875, step time: 0.3458
Batch 49/248, train_loss: 0.9992, step time: 0.3535
Batch 50/248, train_loss: 0.9940, step time: 0.3830
Batch 51/248, train_loss: 0.9917, step time: 0.3677
Batch 52/248, train_loss: 0.9884, step time: 0.3435
Batch 53/248, train_loss: 0.9962, step time: 0.3647
Batch 54/248, train_loss: 0.9917, step time: 0.3741
Batch 55/248, train_loss: 0.9974, step time: 0.3518
Batch 56/248, train_loss: 0.9918, step time: 0.3634
Batch 57/248, train_loss: 0.9941, step time: 0.3453
Batch 58/248, train_loss: 0.9729, step time: 0.3825
Batch 59/248, train_loss: 0.9790, step time: 0.3675
Batch 60/248, train_loss: 0.9721, step time: 0.3422
Batch 61/248, train_loss: 0.9803, step time: 0.3501
Batch 62/248, train_loss: 0.9978, step time: 0.3478
Batch 63/248, train_loss: 0.9993, step time: 0.3404
Batch 64/248, train_loss: 0.9992, step time: 0.3443
Batch 65/248, train_loss: 0.9933, step time: 0.3634
Batch 66/248, train_loss: 0.9935, step time: 0.3549
Batch 67/248, train_loss: 0.9277, step time: 0.3625
Batch 68/248, train_loss: 0.9624, step time: 0.3461
Batch 69/248, train_loss: 0.9999, step time: 0.3792
Batch 70/248, train_loss: 0.9730, step time: 0.3518
Batch 71/248, train_loss: 0.9556, step time: 0.3609
Batch 72/248, train_loss: 0.9624, step time: 0.3680
Batch 73/248, train_loss: 0.9655, step time: 0.3465
Batch 74/248, train_loss: 0.9999, step time: 0.3631
Batch 75/248, train_loss: 0.9680, step time: 0.3555
Batch 76/248, train_loss: 0.9994, step time: 0.3425
Batch 77/248, train_loss: 0.9998, step time: 0.3483
Batch 78/248, train_loss: 0.9858, step time: 0.3561
Batch 79/248, train_loss: 0.9918, step time: 0.3680
Batch 80/248, train_loss: 0.9919, step time: 0.3106

Batch 80/248, train_loss: 0.9948, step time: 0.3480
Batch 81/248, train_loss: 0.9968, step time: 0.3599
Batch 82/248, train_loss: 0.9693, step time: 0.3458
Batch 83/248, train_loss: 0.9991, step time: 0.3801
Batch 84/248, train_loss: 0.9922, step time: 0.3704
Batch 85/248, train_loss: 0.9996, step time: 0.3653
Batch 86/248, train_loss: 0.9721, step time: 0.3488
Batch 87/248, train_loss: 0.9983, step time: 0.3416
Batch 88/248, train_loss: 0.9987, step time: 0.3506
Batch 89/248, train_loss: 0.9093, step time: 0.3645
Batch 90/248, train_loss: 0.9917, step time: 0.3573
Batch 91/248, train_loss: 0.9995, step time: 0.3828
Batch 92/248, train_loss: 0.9892, step time: 0.3809
Batch 93/248, train_loss: 0.9639, step time: 0.3443
Batch 94/248, train_loss: 0.9996, step time: 0.3658
Batch 95/248, train_loss: 0.9827, step time: 0.3856
Batch 96/248, train_loss: 0.9805, step time: 0.3802
Batch 97/248, train_loss: 1.0000, step time: 0.3451
Batch 98/248, train_loss: 0.9551, step time: 0.3717
Batch 99/248, train_loss: 0.9986, step time: 0.3785
Batch 100/248, train_loss: 0.9998, step time: 0.3454
Batch 101/248, train_loss: 0.8932, step time: 0.3786
Batch 102/248, train_loss: 0.9895, step time: 0.3718
Batch 103/248, train_loss: 0.9993, step time: 0.3812
Batch 104/248, train_loss: 0.9822, step time: 0.3462
Batch 105/248, train_loss: 0.9524, step time: 0.3741
Batch 106/248, train_loss: 0.9939, step time: 0.3770
Batch 107/248, train_loss: 0.9987, step time: 0.3427
Batch 108/248, train_loss: 0.9992, step time: 0.3408
Batch 109/248, train_loss: 0.9998, step time: 0.3438
Batch 110/248, train_loss: 0.9958, step time: 0.3672
Batch 111/248, train_loss: 0.9533, step time: 0.3452
Batch 112/248, train_loss: 0.9590, step time: 0.3754
Batch 113/248, train_loss: 1.0000, step time: 0.3778
Batch 114/248, train_loss: 0.9099, step time: 0.3552
Batch 115/248, train_loss: 0.9870, step time: 0.3643
Batch 116/248, train_loss: 0.9527, step time: 0.3867
Batch 117/248, train_loss: 0.9996, step time: 0.3802
Batch 118/248, train_loss: 0.9980, step time: 0.3442
Batch 119/248, train_loss: 0.9877, step time: 0.3820
Batch 120/248, train_loss: 0.9888, step time: 0.3650
Batch 121/248, train_loss: 0.9971, step time: 0.3403
Batch 122/248, train_loss: 0.9981, step time: 0.3755
Batch 123/248, train_loss: 0.9748, step time: 0.3441
Batch 124/248, train_loss: 0.9985, step time: 0.3778
Batch 125/248, train_loss: 0.9996, step time: 0.3871
Batch 126/248, train_loss: 0.9457, step time: 0.3858
Batch 127/248, train_loss: 0.9899, step time: 0.3769
Batch 128/248, train_loss: 0.9951, step time: 0.3435
Batch 129/248, train_loss: 0.9277, step time: 0.3779
Batch 130/248, train_loss: 0.9280, step time: 0.3570
Batch 131/248, train_loss: 0.9982, step time: 0.3772
Batch 132/248, train_loss: 0.9986, step time: 0.3534
Batch 133/248, train_loss: 0.8625, step time: 0.3571
Batch 134/248, train_loss: 1.0000, step time: 0.3808
Batch 135/248, train_loss: 0.9992, step time: 0.3433
Batch 136/248, train_loss: 0.9949, step time: 0.3880
Batch 137/248, train_loss: 0.9347, step time: 0.3534
Batch 138/248, train_loss: 0.9512, step time: 0.3569
Batch 139/248, train_loss: 0.9512, step time: 0.3700
Batch 140/248, train_loss: 0.9938, step time: 0.3815
Batch 141/248, train_loss: 0.9701, step time: 0.3589
Batch 142/248, train_loss: 0.9994, step time: 0.3447
Batch 143/248, train_loss: 0.9943, step time: 0.3737
Batch 144/248, train_loss: 0.9498, step time: 0.3659
Batch 145/248, train_loss: 0.8787, step time: 0.3877
Batch 146/248, train_loss: 0.9998, step time: 0.3598
Batch 147/248, train_loss: 0.8711, step time: 0.3888
Batch 148/248, train_loss: 0.9982, step time: 0.3827
Batch 149/248, train_loss: 0.9879, step time: 0.3657
Batch 150/248, train_loss: 0.9660, step time: 0.3452
Batch 151/248, train_loss: 0.9981, step time: 0.3839
Batch 152/248, train_loss: 0.8864, step time: 0.3585
Batch 153/248, train_loss: 0.9978, step time: 0.3866
Batch 154/248, train_loss: 0.9995, step time: 0.3844
Batch 155/248, train_loss: 0.9879, step time: 0.3745
Batch 156/248, train_loss: 0.9877, step time: 0.3801
Batch 157/248, train_loss: 0.9513, step time: 0.3836
Batch 158/248, train_loss: 0.9998, step time: 0.3836
Batch 159/248, train_loss: 0.9999, step time: 0.3883
Batch 160/248, train_loss: 0.9712, step time: 0.3635
Batch 161/248, train_loss: 0.9889, step time: 0.3470
Batch 162/248, train_loss: 0.8518, step time: 0.3487
Batch 163/248, train_loss: 0.9989, step time: 0.3486
Batch 164/248, train_loss: 0.9880, step time: 0.3428

Batch 165/248, train_loss: 0.9998, step time: 0.3714
Batch 166/248, train_loss: 0.9975, step time: 0.3593
Batch 167/248, train_loss: 0.9887, step time: 0.3653
Batch 168/248, train_loss: 0.9885, step time: 0.3505
Batch 169/248, train_loss: 0.9741, step time: 0.3739
Batch 170/248, train_loss: 0.9991, step time: 0.3654
Batch 171/248, train_loss: 0.9067, step time: 0.3695
Batch 172/248, train_loss: 0.9999, step time: 0.3717
Batch 173/248, train_loss: 0.9502, step time: 0.3431
Batch 174/248, train_loss: 0.9994, step time: 0.3416
Batch 175/248, train_loss: 0.9179, step time: 0.3805
Batch 176/248, train_loss: 0.9938, step time: 0.3495
Batch 177/248, train_loss: 0.9998, step time: 0.3583
Batch 178/248, train_loss: 0.9670, step time: 0.3886
Batch 179/248, train_loss: 0.8275, step time: 0.3784
Batch 180/248, train_loss: 0.9885, step time: 0.3475
Batch 181/248, train_loss: 0.9421, step time: 0.3549
Batch 182/248, train_loss: 0.9976, step time: 0.3524
Batch 183/248, train_loss: 0.9877, step time: 0.3439
Batch 184/248, train_loss: 0.9977, step time: 0.3448
Batch 185/248, train_loss: 0.9889, step time: 0.3635
Batch 186/248, train_loss: 0.9751, step time: 0.3749
Batch 187/248, train_loss: 0.9761, step time: 0.3723
Batch 188/248, train_loss: 0.9883, step time: 0.3813
Batch 189/248, train_loss: 0.9999, step time: 0.3651
Batch 190/248, train_loss: 0.9776, step time: 0.3709
Batch 191/248, train_loss: 0.9998, step time: 0.3612
Batch 192/248, train_loss: 0.9683, step time: 0.3766
Batch 193/248, train_loss: 0.9937, step time: 0.3426
Batch 194/248, train_loss: 0.9932, step time: 0.3674
Batch 195/248, train_loss: 0.9998, step time: 0.3875
Batch 196/248, train_loss: 1.0000, step time: 0.3757
Batch 197/248, train_loss: 0.9962, step time: 0.3426
Batch 198/248, train_loss: 1.0000, step time: 0.3417
Batch 199/248, train_loss: 0.9893, step time: 0.3439
Batch 200/248, train_loss: 0.9880, step time: 0.3457
Batch 201/248, train_loss: 0.9707, step time: 0.3740
Batch 202/248, train_loss: 0.9922, step time: 0.3447
Batch 203/248, train_loss: 0.9994, step time: 0.3439
Batch 204/248, train_loss: 0.9282, step time: 0.3853
Batch 205/248, train_loss: 0.9969, step time: 0.3726
Batch 206/248, train_loss: 0.9999, step time: 0.3551
Batch 207/248, train_loss: 0.9660, step time: 0.3524
Batch 208/248, train_loss: 0.9880, step time: 0.3846
Batch 209/248, train_loss: 0.9816, step time: 0.3491
Batch 210/248, train_loss: 0.9664, step time: 0.3431
Batch 211/248, train_loss: 0.9627, step time: 0.3853
Batch 212/248, train_loss: 0.9950, step time: 0.3725
Batch 213/248, train_loss: 0.9944, step time: 0.3528
Batch 214/248, train_loss: 0.9783, step time: 0.3883
Batch 215/248, train_loss: 0.9956, step time: 0.3522
Batch 216/248, train_loss: 0.9643, step time: 0.3753
Batch 217/248, train_loss: 0.9977, step time: 0.3678
Batch 218/248, train_loss: 0.9996, step time: 0.3870
Batch 219/248, train_loss: 0.9794, step time: 0.3870
Batch 220/248, train_loss: 0.9959, step time: 0.3735
Batch 221/248, train_loss: 0.9953, step time: 0.3867
Batch 222/248, train_loss: 0.9680, step time: 0.3435
Batch 223/248, train_loss: 0.9389, step time: 0.3648
Batch 224/248, train_loss: 0.9607, step time: 0.3857
Batch 225/248, train_loss: 0.9997, step time: 0.3853
Batch 226/248, train_loss: 0.9978, step time: 0.3809
Batch 227/248, train_loss: 0.9791, step time: 0.3513
Batch 228/248, train_loss: 0.9953, step time: 0.3466
Batch 229/248, train_loss: 0.9294, step time: 0.3508
Batch 230/248, train_loss: 0.9802, step time: 0.3535
Batch 231/248, train_loss: 0.9995, step time: 0.3453
Batch 232/248, train_loss: 0.9789, step time: 0.3874
Batch 233/248, train_loss: 0.9999, step time: 0.3487
Batch 234/248, train_loss: 0.9988, step time: 0.3515
Batch 235/248, train_loss: 0.9992, step time: 0.3754
Batch 236/248, train_loss: 0.9995, step time: 0.3736
Batch 237/248, train_loss: 0.9443, step time: 0.3524
Batch 238/248, train_loss: 0.9739, step time: 0.3481
Batch 239/248, train_loss: 0.8006, step time: 0.3616
Batch 240/248, train_loss: 0.9929, step time: 0.3595
Batch 241/248, train_loss: 0.9999, step time: 0.3884
Batch 242/248, train_loss: 0.9973, step time: 0.3493
Batch 243/248, train_loss: 0.9998, step time: 0.3846
Batch 244/248, train_loss: 0.9992, step time: 0.3438
Batch 245/248, train_loss: 0.9652, step time: 0.3797
Batch 246/248, train_loss: 0.9989, step time: 0.3461
Batch 247/248, train_loss: 0.8718, step time: 0.3450
Batch 248/248, train_loss: 1.0000, step time: 0.3475

LADIES



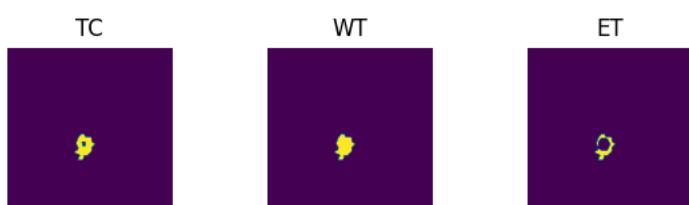
Predictions



VAL

```
Batch 1/31, val_loss: 0.9858
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9985
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.9210
Batch 7/31, val_loss: 0.9839
Batch 8/31, val_loss: 0.9985
Batch 9/31, val_loss: 0.9396
Batch 10/31, val_loss: 0.9980
Batch 11/31, val_loss: 0.9910
Batch 12/31, val_loss: 0.9994
Batch 13/31, val_loss: 0.9988
Batch 14/31, val_loss: 0.9988
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9996
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9988
Batch 19/31, val_loss: 0.9736
Batch 20/31, val_loss: 0.9849
Batch 21/31, val_loss: 0.9947
Batch 22/31, val_loss: 0.9997
Batch 23/31, val_loss: 0.9997
Batch 24/31, val_loss: 0.9057
Batch 25/31, val_loss: 0.9817
Batch 26/31, val_loss: 0.9971
Batch 27/31, val_loss: 0.9999
Batch 28/31, val_loss: 0.9783
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9996
Batch 31/31, val_loss: 0.9995
```

Labels



Predictions



epoch 6

```
average train loss: 0.9779
average validation loss: 0.9879
saved as best model: False
current mean dice: 0.0644
current TC dice: 0.0671
current WT dice: 0.0683
current ET dice: 0.0612
```

current ϵ dice: 0.0042
Best Mean Metric: 0.0885
time consuming of epoch 6 is: 1474.8040

epoch 7/100
TRAIN
Batch 1/248, train_loss: 0.9225, step time: 0.3674
Batch 2/248, train_loss: 0.9999, step time: 0.3591
Batch 3/248, train_loss: 0.9987, step time: 0.3681
Batch 4/248, train_loss: 0.9999, step time: 0.3426
Batch 5/248, train_loss: 0.9933, step time: 0.3489
Batch 6/248, train_loss: 0.9923, step time: 0.3820
Batch 7/248, train_loss: 0.8842, step time: 0.3426
Batch 8/248, train_loss: 0.9779, step time: 0.3806
Batch 9/248, train_loss: 0.9346, step time: 0.3421
Batch 10/248, train_loss: 0.9973, step time: 0.3606
Batch 11/248, train_loss: 0.9939, step time: 0.3622
Batch 12/248, train_loss: 0.9998, step time: 0.3748
Batch 13/248, train_loss: 0.9981, step time: 0.3646
Batch 14/248, train_loss: 0.8684, step time: 0.3434
Batch 15/248, train_loss: 0.9966, step time: 0.3709
Batch 16/248, train_loss: 0.9927, step time: 0.3538
Batch 17/248, train_loss: 0.9998, step time: 0.3461
Batch 18/248, train_loss: 0.9991, step time: 0.3801
Batch 19/248, train_loss: 0.9340, step time: 0.3842
Batch 20/248, train_loss: 0.9907, step time: 0.3688
Batch 21/248, train_loss: 0.9719, step time: 0.3840
Batch 22/248, train_loss: 1.0000, step time: 0.3861
Batch 23/248, train_loss: 0.9999, step time: 0.3809
Batch 24/248, train_loss: 0.9772, step time: 0.3832
Batch 25/248, train_loss: 0.8490, step time: 0.3462
Batch 26/248, train_loss: 0.9990, step time: 0.3501
Batch 27/248, train_loss: 0.9289, step time: 0.3708
Batch 28/248, train_loss: 0.9915, step time: 0.3470
Batch 29/248, train_loss: 0.9996, step time: 0.3493
Batch 30/248, train_loss: 0.9932, step time: 0.3458
Batch 31/248, train_loss: 0.9964, step time: 0.3430
Batch 32/248, train_loss: 0.9717, step time: 0.3437
Batch 33/248, train_loss: 0.9251, step time: 0.3632
Batch 34/248, train_loss: 0.9503, step time: 0.3690
Batch 35/248, train_loss: 0.9778, step time: 0.3516
Batch 36/248, train_loss: 0.9998, step time: 0.3445
Batch 37/248, train_loss: 0.9794, step time: 0.3737
Batch 38/248, train_loss: 0.9957, step time: 0.3725
Batch 39/248, train_loss: 0.9820, step time: 0.3492
Batch 40/248, train_loss: 1.0000, step time: 0.3446
Batch 41/248, train_loss: 0.9608, step time: 0.3543
Batch 42/248, train_loss: 0.9643, step time: 0.3846
Batch 43/248, train_loss: 0.9425, step time: 0.3910
Batch 44/248, train_loss: 0.9818, step time: 0.3842
Batch 45/248, train_loss: 0.9957, step time: 0.3675
Batch 46/248, train_loss: 0.9847, step time: 0.3835
Batch 47/248, train_loss: 0.9911, step time: 0.3457
Batch 48/248, train_loss: 0.9854, step time: 0.3551
Batch 49/248, train_loss: 0.9991, step time: 0.3609
Batch 50/248, train_loss: 0.9925, step time: 0.3476
Batch 51/248, train_loss: 0.9903, step time: 0.3772
Batch 52/248, train_loss: 0.9862, step time: 0.3662
Batch 53/248, train_loss: 0.9955, step time: 0.3627
Batch 54/248, train_loss: 0.9897, step time: 0.3606
Batch 55/248, train_loss: 0.9969, step time: 0.3657
Batch 56/248, train_loss: 0.9901, step time: 0.3450
Batch 57/248, train_loss: 0.9926, step time: 0.3559
Batch 58/248, train_loss: 0.9675, step time: 0.3584
Batch 59/248, train_loss: 0.9744, step time: 0.3671
Batch 60/248, train_loss: 0.9662, step time: 0.3553
Batch 61/248, train_loss: 0.9763, step time: 0.3610
Batch 62/248, train_loss: 0.9975, step time: 0.3846
Batch 63/248, train_loss: 0.9988, step time: 0.3479
Batch 64/248, train_loss: 0.9988, step time: 0.3820
Batch 65/248, train_loss: 0.9922, step time: 0.3847
Batch 66/248, train_loss: 0.9925, step time: 0.3493
Batch 67/248, train_loss: 0.9157, step time: 0.3799
Batch 68/248, train_loss: 0.9553, step time: 0.3848
Batch 69/248, train_loss: 0.9998, step time: 0.3756
Batch 70/248, train_loss: 0.9687, step time: 0.3772
Batch 71/248, train_loss: 0.9472, step time: 0.3430
Batch 72/248, train_loss: 0.9554, step time: 0.3729
Batch 73/248, train_loss: 0.9598, step time: 0.3605
Batch 74/248, train_loss: 0.9999, step time: 0.3693
Batch 75/248, train_loss: 0.9614, step time: 0.3610
Batch 76/248, train_loss: 0.9993, step time: 0.3449
Batch 77/248, train_loss: 0.9998, step time: 0.3791
Batch 78/248, train_loss: 0.9826, step time: 0.3463
Batch 79/248, train_loss: 0.9904, step time: 0.3580

Batch 80/248, train_loss: 0.9940, step time: 0.3656
Batch 81/248, train_loss: 0.9962, step time: 0.3560
Batch 82/248, train_loss: 0.9629, step time: 0.3768
Batch 83/248, train_loss: 0.9989, step time: 0.3464
Batch 84/248, train_loss: 0.9907, step time: 0.3612
Batch 85/248, train_loss: 0.9995, step time: 0.3491
Batch 86/248, train_loss: 0.9669, step time: 0.3463
Batch 87/248, train_loss: 0.9980, step time: 0.3478
Batch 88/248, train_loss: 0.9984, step time: 0.3784
Batch 89/248, train_loss: 0.8946, step time: 0.3430
Batch 90/248, train_loss: 0.9905, step time: 0.3785
Batch 91/248, train_loss: 0.9995, step time: 0.3518
Batch 92/248, train_loss: 0.9878, step time: 0.3436
Batch 93/248, train_loss: 0.9571, step time: 0.3757
Batch 94/248, train_loss: 0.9995, step time: 0.3580
Batch 95/248, train_loss: 0.9787, step time: 0.3479
Batch 96/248, train_loss: 0.9763, step time: 0.3733
Batch 97/248, train_loss: 1.0000, step time: 0.3588
Batch 98/248, train_loss: 0.9468, step time: 0.3492
Batch 99/248, train_loss: 0.9984, step time: 0.3762
Batch 100/248, train_loss: 0.9998, step time: 0.3709
Batch 101/248, train_loss: 0.8764, step time: 0.3676
Batch 102/248, train_loss: 0.9871, step time: 0.3670
Batch 103/248, train_loss: 0.9992, step time: 0.3589
Batch 104/248, train_loss: 0.9790, step time: 0.3790
Batch 105/248, train_loss: 0.9439, step time: 0.3469
Batch 106/248, train_loss: 0.9930, step time: 0.3496
Batch 107/248, train_loss: 0.9984, step time: 0.3446
Batch 108/248, train_loss: 0.9991, step time: 0.3685
Batch 109/248, train_loss: 0.9998, step time: 0.3509
Batch 110/248, train_loss: 0.9947, step time: 0.3748
Batch 111/248, train_loss: 0.9442, step time: 0.3463
Batch 112/248, train_loss: 0.9506, step time: 0.3829
Batch 113/248, train_loss: 0.9999, step time: 0.3513
Batch 114/248, train_loss: 0.8933, step time: 0.3479
Batch 115/248, train_loss: 0.9844, step time: 0.3436
Batch 116/248, train_loss: 0.9434, step time: 0.3464
Batch 117/248, train_loss: 0.9995, step time: 0.3769
Batch 118/248, train_loss: 0.9977, step time: 0.3872
Batch 119/248, train_loss: 0.9841, step time: 0.3826
Batch 120/248, train_loss: 0.9870, step time: 0.3621
Batch 121/248, train_loss: 0.9966, step time: 0.3894
Batch 122/248, train_loss: 0.9981, step time: 0.3449
Batch 123/248, train_loss: 0.9698, step time: 0.3843
Batch 124/248, train_loss: 0.9981, step time: 0.3620
Batch 125/248, train_loss: 0.9996, step time: 0.3530
Batch 126/248, train_loss: 0.9343, step time: 0.3695
Batch 127/248, train_loss: 0.9879, step time: 0.3767
Batch 128/248, train_loss: 0.9942, step time: 0.3731
Batch 129/248, train_loss: 0.9163, step time: 0.3785
Batch 130/248, train_loss: 0.9154, step time: 0.3613
Batch 131/248, train_loss: 0.9979, step time: 0.3785
Batch 132/248, train_loss: 0.9983, step time: 0.3494
Batch 133/248, train_loss: 0.8413, step time: 0.3436
Batch 134/248, train_loss: 1.0000, step time: 0.3826
Batch 135/248, train_loss: 0.9990, step time: 0.3514
Batch 136/248, train_loss: 0.9933, step time: 0.3899
Batch 137/248, train_loss: 0.9225, step time: 0.3933
Batch 138/248, train_loss: 0.9424, step time: 0.3840
Batch 139/248, train_loss: 0.9431, step time: 0.3740
Batch 140/248, train_loss: 0.9924, step time: 0.3740
Batch 141/248, train_loss: 0.9643, step time: 0.3876
Batch 142/248, train_loss: 0.9995, step time: 0.3835
Batch 143/248, train_loss: 0.9930, step time: 0.3495
Batch 144/248, train_loss: 0.9407, step time: 0.3470
Batch 145/248, train_loss: 0.8585, step time: 0.3676
Batch 146/248, train_loss: 0.9997, step time: 0.3436
Batch 147/248, train_loss: 0.8513, step time: 0.3768
Batch 148/248, train_loss: 0.9976, step time: 0.3476
Batch 149/248, train_loss: 0.9849, step time: 0.3475
Batch 150/248, train_loss: 0.9601, step time: 0.3487
Batch 151/248, train_loss: 0.9979, step time: 0.3493
Batch 152/248, train_loss: 0.8708, step time: 0.3717
Batch 153/248, train_loss: 0.9973, step time: 0.3877
Batch 154/248, train_loss: 0.9994, step time: 0.3687
Batch 155/248, train_loss: 0.9850, step time: 0.3635
Batch 156/248, train_loss: 0.9859, step time: 0.3912
Batch 157/248, train_loss: 0.9433, step time: 0.3794
Batch 158/248, train_loss: 0.9998, step time: 0.3470
Batch 159/248, train_loss: 0.9999, step time: 0.3526
Batch 160/248, train_loss: 0.9647, step time: 0.3891
Batch 161/248, train_loss: 0.9859, step time: 0.3879
Batch 162/248, train_loss: 0.8323, step time: 0.3681
Batch 163/248, train_loss: 0.9987, step time: 0.3859
Batch 164/248, train_loss: 0.9854, step time: 0.3773

Batch 165/248, train_loss: 0.9997, step time: 0.3824
Batch 166/248, train_loss: 0.9970, step time: 0.3484
Batch 167/248, train_loss: 0.9863, step time: 0.3450
Batch 168/248, train_loss: 0.9857, step time: 0.3738
Batch 169/248, train_loss: 0.9692, step time: 0.3704
Batch 170/248, train_loss: 0.9986, step time: 0.3785
Batch 171/248, train_loss: 0.8886, step time: 0.3453
Batch 172/248, train_loss: 0.9999, step time: 0.3556
Batch 173/248, train_loss: 0.9399, step time: 0.3807
Batch 174/248, train_loss: 0.9999, step time: 0.3454
Batch 175/248, train_loss: 0.9012, step time: 0.3774
Batch 176/248, train_loss: 0.9926, step time: 0.3631
Batch 177/248, train_loss: 0.9997, step time: 0.3742
Batch 178/248, train_loss: 0.9618, step time: 0.3802
Batch 179/248, train_loss: 0.7981, step time: 0.3755
Batch 180/248, train_loss: 0.9857, step time: 0.3438
Batch 181/248, train_loss: 0.9286, step time: 0.3754
Batch 182/248, train_loss: 0.9969, step time: 0.3762
Batch 183/248, train_loss: 0.9852, step time: 0.3795
Batch 184/248, train_loss: 0.9972, step time: 0.3679
Batch 185/248, train_loss: 0.9857, step time: 0.3745
Batch 186/248, train_loss: 0.9693, step time: 0.3709
Batch 187/248, train_loss: 0.9704, step time: 0.3500
Batch 188/248, train_loss: 0.9863, step time: 0.3851
Batch 189/248, train_loss: 0.9999, step time: 0.3506
Batch 190/248, train_loss: 0.9730, step time: 0.3915
Batch 191/248, train_loss: 0.9997, step time: 0.3664
Batch 192/248, train_loss: 0.9623, step time: 0.3812
Batch 193/248, train_loss: 0.9924, step time: 0.3865
Batch 194/248, train_loss: 0.9919, step time: 0.3580
Batch 195/248, train_loss: 0.9998, step time: 0.3512
Batch 196/248, train_loss: 1.0000, step time: 0.3701
Batch 197/248, train_loss: 0.9955, step time: 0.3439
Batch 198/248, train_loss: 1.0000, step time: 0.3477
Batch 199/248, train_loss: 0.9871, step time: 0.3603
Batch 200/248, train_loss: 0.9853, step time: 0.3574
Batch 201/248, train_loss: 0.9637, step time: 0.3802
Batch 202/248, train_loss: 0.9908, step time: 0.3487
Batch 203/248, train_loss: 0.9992, step time: 0.3627
Batch 204/248, train_loss: 0.9138, step time: 0.3540
Batch 205/248, train_loss: 0.9963, step time: 0.3697
Batch 206/248, train_loss: 0.9998, step time: 0.3577
Batch 207/248, train_loss: 0.9585, step time: 0.3750
Batch 208/248, train_loss: 0.9853, step time: 0.3444
Batch 209/248, train_loss: 0.9785, step time: 0.3534
Batch 210/248, train_loss: 0.9590, step time: 0.3840
Batch 211/248, train_loss: 0.9549, step time: 0.3793
Batch 212/248, train_loss: 0.9939, step time: 0.3849
Batch 213/248, train_loss: 0.9934, step time: 0.3670
Batch 214/248, train_loss: 0.9741, step time: 0.3750
Batch 215/248, train_loss: 0.9948, step time: 0.3618
Batch 216/248, train_loss: 0.9571, step time: 0.3560
Batch 217/248, train_loss: 0.9973, step time: 0.3514
Batch 218/248, train_loss: 0.9996, step time: 0.3694
Batch 219/248, train_loss: 0.9749, step time: 0.3818
Batch 220/248, train_loss: 0.9950, step time: 0.3805
Batch 221/248, train_loss: 0.9944, step time: 0.3889
Batch 222/248, train_loss: 0.9616, step time: 0.3805
Batch 223/248, train_loss: 0.9261, step time: 0.3667
Batch 224/248, train_loss: 0.9526, step time: 0.3448
Batch 225/248, train_loss: 0.9997, step time: 0.3445
Batch 226/248, train_loss: 0.9973, step time: 0.3540
Batch 227/248, train_loss: 0.9743, step time: 0.3555
Batch 228/248, train_loss: 0.9943, step time: 0.3448
Batch 229/248, train_loss: 0.9144, step time: 0.3494
Batch 230/248, train_loss: 0.9759, step time: 0.3723
Batch 231/248, train_loss: 0.9994, step time: 0.3759
Batch 232/248, train_loss: 0.9743, step time: 0.3759
Batch 233/248, train_loss: 0.9999, step time: 0.3604
Batch 234/248, train_loss: 0.9985, step time: 0.3518
Batch 235/248, train_loss: 0.9990, step time: 0.3639
Batch 236/248, train_loss: 0.9993, step time: 0.3767
Batch 237/248, train_loss: 0.9304, step time: 0.3846
Batch 238/248, train_loss: 0.9669, step time: 0.3595
Batch 239/248, train_loss: 0.7640, step time: 0.3664
Batch 240/248, train_loss: 0.9914, step time: 0.3786
Batch 241/248, train_loss: 0.9999, step time: 0.3431
Batch 242/248, train_loss: 0.9969, step time: 0.3575
Batch 243/248, train_loss: 0.9995, step time: 0.3805
Batch 244/248, train_loss: 0.9988, step time: 0.3565
Batch 245/248, train_loss: 0.9576, step time: 0.3792
Batch 246/248, train_loss: 0.9987, step time: 0.3425
Batch 247/248, train_loss: 0.8500, step time: 0.3459
Batch 248/248, train_loss: 1.0000, step time: 0.3520

Labels

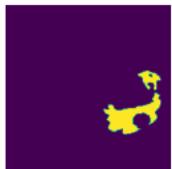
TC



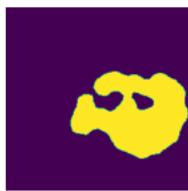
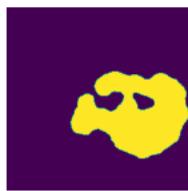
WT



ET



Predictions

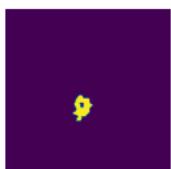


VAL

```
Batch 1/31, val_loss: 0.9877
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9984
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.9159
Batch 7/31, val_loss: 0.9821
Batch 8/31, val_loss: 0.9983
Batch 9/31, val_loss: 0.9372
Batch 10/31, val_loss: 0.9975
Batch 11/31, val_loss: 0.9902
Batch 12/31, val_loss: 0.9994
Batch 13/31, val_loss: 0.9988
Batch 14/31, val_loss: 0.9983
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9996
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9988
Batch 19/31, val_loss: 0.9711
Batch 20/31, val_loss: 0.9845
Batch 21/31, val_loss: 0.9950
Batch 22/31, val_loss: 0.9996
Batch 23/31, val_loss: 0.9997
Batch 24/31, val_loss: 0.9854
Batch 25/31, val_loss: 0.9798
Batch 26/31, val_loss: 0.9965
Batch 27/31, val_loss: 0.9998
Batch 28/31, val_loss: 0.9755
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9996
Batch 31/31, val_loss: 0.9994
```

Labels

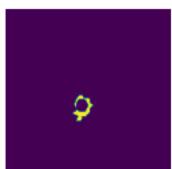
TC



WT



ET



Predictions



epoch 7

```
average train loss: 0.9739
average validation loss: 0.9873
saved as best model: False
current mean dice: 0.0551
current TC dice: 0.0574
current WT dice: 0.0583
```

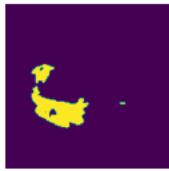
```
current ET dice: 0.0547
Best Mean Metric: 0.0885
time consuming of epoch 7 is: 1445.1129
-----
epoch 8/100
TRAIN
Batch 1/248, train_loss: 0.9076, step time: 0.3721
Batch 2/248, train_loss: 0.9998, step time: 0.3442
Batch 3/248, train_loss: 0.9984, step time: 0.3689
Batch 4/248, train_loss: 0.9999, step time: 0.3396
Batch 5/248, train_loss: 0.9917, step time: 0.3499
Batch 6/248, train_loss: 0.9905, step time: 0.3714
Batch 7/248, train_loss: 0.8606, step time: 0.3670
Batch 8/248, train_loss: 0.9737, step time: 0.3486
Batch 9/248, train_loss: 0.9219, step time: 0.3502
Batch 10/248, train_loss: 0.9968, step time: 0.3860
Batch 11/248, train_loss: 0.9926, step time: 0.3501
Batch 12/248, train_loss: 0.9996, step time: 0.3562
Batch 13/248, train_loss: 0.9979, step time: 0.3876
Batch 14/248, train_loss: 0.8483, step time: 0.3521
Batch 15/248, train_loss: 0.9959, step time: 0.3565
Batch 16/248, train_loss: 0.9913, step time: 0.3411
Batch 17/248, train_loss: 0.9995, step time: 0.3726
Batch 18/248, train_loss: 0.9994, step time: 0.3783
Batch 19/248, train_loss: 0.9236, step time: 0.3695
Batch 20/248, train_loss: 0.9890, step time: 0.3462
Batch 21/248, train_loss: 0.9668, step time: 0.3551
Batch 22/248, train_loss: 1.0000, step time: 0.3418
Batch 23/248, train_loss: 0.9998, step time: 0.3565
Batch 24/248, train_loss: 0.9729, step time: 0.3725
Batch 25/248, train_loss: 0.8226, step time: 0.3700
Batch 26/248, train_loss: 0.9990, step time: 0.3474
Batch 27/248, train_loss: 0.9150, step time: 0.3696
Batch 28/248, train_loss: 0.9906, step time: 0.3900
Batch 29/248, train_loss: 0.9995, step time: 0.3770
Batch 30/248, train_loss: 0.9979, step time: 0.3889
Batch 31/248, train_loss: 0.9956, step time: 0.3428
Batch 32/248, train_loss: 0.9653, step time: 0.3500
Batch 33/248, train_loss: 0.9092, step time: 0.3434
Batch 34/248, train_loss: 0.9392, step time: 0.3839
Batch 35/248, train_loss: 0.9726, step time: 0.3516
Batch 36/248, train_loss: 0.9999, step time: 0.3538
Batch 37/248, train_loss: 0.9751, step time: 0.3788
Batch 38/248, train_loss: 0.9946, step time: 0.3505
Batch 39/248, train_loss: 0.9783, step time: 0.3709
Batch 40/248, train_loss: 0.9999, step time: 0.3668
Batch 41/248, train_loss: 0.9539, step time: 0.3435
Batch 42/248, train_loss: 0.9600, step time: 0.3767
Batch 43/248, train_loss: 0.9297, step time: 0.3707
Batch 44/248, train_loss: 0.9770, step time: 0.3634
Batch 45/248, train_loss: 0.9950, step time: 0.3605
Batch 46/248, train_loss: 0.9817, step time: 0.3601
Batch 47/248, train_loss: 0.9892, step time: 0.3413
Batch 48/248, train_loss: 0.9820, step time: 0.3839
Batch 49/248, train_loss: 0.9991, step time: 0.3435
Batch 50/248, train_loss: 0.9910, step time: 0.3683
Batch 51/248, train_loss: 0.9883, step time: 0.3460
Batch 52/248, train_loss: 0.9831, step time: 0.3677
Batch 53/248, train_loss: 0.9948, step time: 0.3586
Batch 54/248, train_loss: 0.9877, step time: 0.3849
Batch 55/248, train_loss: 0.9965, step time: 0.3729
Batch 56/248, train_loss: 0.9887, step time: 0.3797
Batch 57/248, train_loss: 0.9912, step time: 0.3543
Batch 58/248, train_loss: 0.9615, step time: 0.3670
Batch 59/248, train_loss: 0.9693, step time: 0.3865
Batch 60/248, train_loss: 0.9592, step time: 0.3869
Batch 61/248, train_loss: 0.9721, step time: 0.3814
Batch 62/248, train_loss: 0.9969, step time: 0.3664
Batch 63/248, train_loss: 0.9988, step time: 0.3531
Batch 64/248, train_loss: 0.9985, step time: 0.3773
Batch 65/248, train_loss: 0.9917, step time: 0.3830
Batch 66/248, train_loss: 0.9913, step time: 0.3476
Batch 67/248, train_loss: 0.9012, step time: 0.3702
Batch 68/248, train_loss: 0.9462, step time: 0.3442
Batch 69/248, train_loss: 0.9998, step time: 0.3502
Batch 70/248, train_loss: 0.9626, step time: 0.3715
Batch 71/248, train_loss: 0.9368, step time: 0.3789
Batch 72/248, train_loss: 0.9466, step time: 0.3728
Batch 73/248, train_loss: 0.9520, step time: 0.3636
Batch 74/248, train_loss: 0.9999, step time: 0.3437
Batch 75/248, train_loss: 0.9540, step time: 0.3864
Batch 76/248, train_loss: 0.9992, step time: 0.3493
Batch 77/248, train_loss: 0.9997, step time: 0.3586
Batch 78/248, train_loss: 0.9793, step time: 0.3641
Batch 79/248, train loss: 0.9885, step time: 0.3655
```

Batch 80/248, train_loss: 0.9929, step time: 0.3678
Batch 81/248, train_loss: 0.9954, step time: 0.3439
Batch 82/248, train_loss: 0.9550, step time: 0.3656
Batch 83/248, train_loss: 0.9986, step time: 0.3593
Batch 84/248, train_loss: 0.9887, step time: 0.3783
Batch 85/248, train_loss: 0.9994, step time: 0.3723
Batch 86/248, train_loss: 0.9605, step time: 0.3737
Batch 87/248, train_loss: 0.9975, step time: 0.3460
Batch 88/248, train_loss: 0.9981, step time: 0.3768
Batch 89/248, train_loss: 0.8752, step time: 0.3476
Batch 90/248, train_loss: 0.9886, step time: 0.3885
Batch 91/248, train_loss: 0.9993, step time: 0.3426
Batch 92/248, train_loss: 0.9853, step time: 0.3744
Batch 93/248, train_loss: 0.9484, step time: 0.3594
Batch 94/248, train_loss: 0.9994, step time: 0.3627
Batch 95/248, train_loss: 0.9746, step time: 0.3781
Batch 96/248, train_loss: 0.9717, step time: 0.3736
Batch 97/248, train_loss: 1.0000, step time: 0.3484
Batch 98/248, train_loss: 0.9371, step time: 0.3619
Batch 99/248, train_loss: 0.9980, step time: 0.3717
Batch 100/248, train_loss: 0.9998, step time: 0.3492
Batch 101/248, train_loss: 0.8535, step time: 0.3862
Batch 102/248, train_loss: 0.9843, step time: 0.3576
Batch 103/248, train_loss: 0.9991, step time: 0.3770
Batch 104/248, train_loss: 0.9744, step time: 0.3583
Batch 105/248, train_loss: 0.9326, step time: 0.3655
Batch 106/248, train_loss: 0.9913, step time: 0.3877
Batch 107/248, train_loss: 0.9981, step time: 0.3561
Batch 108/248, train_loss: 0.9988, step time: 0.3732
Batch 109/248, train_loss: 0.9998, step time: 0.3529
Batch 110/248, train_loss: 0.9937, step time: 0.3760
Batch 111/248, train_loss: 0.9335, step time: 0.3481
Batch 112/248, train_loss: 0.9406, step time: 0.3524
Batch 113/248, train_loss: 0.9999, step time: 0.3729
Batch 114/248, train_loss: 0.8725, step time: 0.3456
Batch 115/248, train_loss: 0.9812, step time: 0.3445
Batch 116/248, train_loss: 0.9313, step time: 0.3793
Batch 117/248, train_loss: 0.9995, step time: 0.3616
Batch 118/248, train_loss: 0.9972, step time: 0.3906
Batch 119/248, train_loss: 0.9810, step time: 0.3763
Batch 120/248, train_loss: 0.9843, step time: 0.3752
Batch 121/248, train_loss: 0.9959, step time: 0.3787
Batch 122/248, train_loss: 0.9976, step time: 0.3690
Batch 123/248, train_loss: 0.9622, step time: 0.3635
Batch 124/248, train_loss: 0.9978, step time: 0.3616
Batch 125/248, train_loss: 0.9995, step time: 0.3763
Batch 126/248, train_loss: 0.9219, step time: 0.3626
Batch 127/248, train_loss: 0.9853, step time: 0.3881
Batch 128/248, train_loss: 0.9930, step time: 0.3720
Batch 129/248, train_loss: 0.9007, step time: 0.3485
Batch 130/248, train_loss: 0.8979, step time: 0.3698
Batch 131/248, train_loss: 0.9975, step time: 0.3730
Batch 132/248, train_loss: 0.9979, step time: 0.3827
Batch 133/248, train_loss: 0.8137, step time: 0.3888
Batch 134/248, train_loss: 1.0000, step time: 0.3824
Batch 135/248, train_loss: 0.9989, step time: 0.3505
Batch 136/248, train_loss: 0.9919, step time: 0.3542
Batch 137/248, train_loss: 0.9073, step time: 0.3870
Batch 138/248, train_loss: 0.9302, step time: 0.3695
Batch 139/248, train_loss: 0.9313, step time: 0.3827
Batch 140/248, train_loss: 0.9908, step time: 0.3555
Batch 141/248, train_loss: 0.9567, step time: 0.3840
Batch 142/248, train_loss: 0.9995, step time: 0.3603
Batch 143/248, train_loss: 0.9916, step time: 0.3454
Batch 144/248, train_loss: 0.9282, step time: 0.3705
Batch 145/248, train_loss: 0.8308, step time: 0.3498
Batch 146/248, train_loss: 0.9997, step time: 0.3575
Batch 147/248, train_loss: 0.8226, step time: 0.3694
Batch 148/248, train_loss: 0.9971, step time: 0.3877
Batch 149/248, train_loss: 0.9821, step time: 0.3874
Batch 150/248, train_loss: 0.9506, step time: 0.3524
Batch 151/248, train_loss: 0.9974, step time: 0.3627
Batch 152/248, train_loss: 0.8460, step time: 0.3673
Batch 153/248, train_loss: 0.9968, step time: 0.3864
Batch 154/248, train_loss: 0.9993, step time: 0.3460
Batch 155/248, train_loss: 0.9818, step time: 0.3507
Batch 156/248, train_loss: 0.9830, step time: 0.3483
Batch 157/248, train_loss: 0.9302, step time: 0.3576
Batch 158/248, train_loss: 0.9998, step time: 0.3893
Batch 159/248, train_loss: 0.9998, step time: 0.3891
Batch 160/248, train_loss: 0.9574, step time: 0.3472
Batch 161/248, train_loss: 0.9828, step time: 0.3536
Batch 162/248, train_loss: 0.7952, step time: 0.3871
Batch 163/248, train_loss: 0.9984, step time: 0.3887
Batch 164/248, train_loss: 0.9929, step time: 0.3710

Batch 104/248, train_loss: 0.9920, step time: 0.3740
Batch 165/248, train_loss: 0.9997, step time: 0.3445
Batch 166/248, train_loss: 0.9963, step time: 0.3504
Batch 167/248, train_loss: 0.9835, step time: 0.3694
Batch 168/248, train_loss: 0.9825, step time: 0.3474
Batch 169/248, train_loss: 0.9624, step time: 0.3654
Batch 170/248, train_loss: 0.9984, step time: 0.3803
Batch 171/248, train_loss: 0.8673, step time: 0.3696
Batch 172/248, train_loss: 0.9999, step time: 0.3798
Batch 173/248, train_loss: 0.9276, step time: 0.3851
Batch 174/248, train_loss: 0.9998, step time: 0.3864
Batch 175/248, train_loss: 0.8812, step time: 0.3466
Batch 176/248, train_loss: 0.9909, step time: 0.3524
Batch 177/248, train_loss: 0.9997, step time: 0.3814
Batch 178/248, train_loss: 0.9533, step time: 0.3609
Batch 179/248, train_loss: 0.7625, step time: 0.3745
Batch 180/248, train_loss: 0.9826, step time: 0.3682
Batch 181/248, train_loss: 0.9143, step time: 0.3739
Batch 182/248, train_loss: 0.9963, step time: 0.3618
Batch 183/248, train_loss: 0.9824, step time: 0.3850
Batch 184/248, train_loss: 0.9967, step time: 0.3723
Batch 185/248, train_loss: 0.9829, step time: 0.3866
Batch 186/248, train_loss: 0.9650, step time: 0.3619
Batch 187/248, train_loss: 0.9647, step time: 0.3526
Batch 188/248, train_loss: 0.9839, step time: 0.3882
Batch 189/248, train_loss: 0.9999, step time: 0.3451
Batch 190/248, train_loss: 0.9667, step time: 0.3473
Batch 191/248, train_loss: 0.9996, step time: 0.3609
Batch 192/248, train_loss: 0.9548, step time: 0.3784
Batch 193/248, train_loss: 0.9912, step time: 0.3751
Batch 194/248, train_loss: 0.9905, step time: 0.3513
Batch 195/248, train_loss: 0.9997, step time: 0.3646
Batch 196/248, train_loss: 0.9999, step time: 0.3457
Batch 197/248, train_loss: 0.9949, step time: 0.3541
Batch 198/248, train_loss: 0.9999, step time: 0.3437
Batch 199/248, train_loss: 0.9849, step time: 0.3645
Batch 200/248, train_loss: 0.9834, step time: 0.3707
Batch 201/248, train_loss: 0.9582, step time: 0.3885
Batch 202/248, train_loss: 0.9894, step time: 0.3469
Batch 203/248, train_loss: 0.9991, step time: 0.3601
Batch 204/248, train_loss: 0.8961, step time: 0.3647
Batch 205/248, train_loss: 0.9955, step time: 0.3503
Batch 206/248, train_loss: 0.9998, step time: 0.3674
Batch 207/248, train_loss: 0.9504, step time: 0.3457
Batch 208/248, train_loss: 0.9825, step time: 0.3731
Batch 209/248, train_loss: 0.9736, step time: 0.3790
Batch 210/248, train_loss: 0.9504, step time: 0.3475
Batch 211/248, train_loss: 0.9451, step time: 0.3639
Batch 212/248, train_loss: 0.9926, step time: 0.3693
Batch 213/248, train_loss: 0.9918, step time: 0.3863
Batch 214/248, train_loss: 0.9681, step time: 0.3569
Batch 215/248, train_loss: 0.9939, step time: 0.3626
Batch 216/248, train_loss: 0.9486, step time: 0.3436
Batch 217/248, train_loss: 0.9968, step time: 0.3570
Batch 218/248, train_loss: 0.9995, step time: 0.3544
Batch 219/248, train_loss: 0.9697, step time: 0.3513
Batch 220/248, train_loss: 0.9944, step time: 0.3456
Batch 221/248, train_loss: 0.9932, step time: 0.3487
Batch 222/248, train_loss: 0.9537, step time: 0.3460
Batch 223/248, train_loss: 0.9116, step time: 0.3721
Batch 224/248, train_loss: 0.9431, step time: 0.3765
Batch 225/248, train_loss: 0.9998, step time: 0.3456
Batch 226/248, train_loss: 0.9968, step time: 0.3584
Batch 227/248, train_loss: 0.9688, step time: 0.3805
Batch 228/248, train_loss: 0.9931, step time: 0.3733
Batch 229/248, train_loss: 0.8978, step time: 0.3733
Batch 230/248, train_loss: 0.9711, step time: 0.3841
Batch 231/248, train_loss: 0.9993, step time: 0.3787
Batch 232/248, train_loss: 0.9688, step time: 0.3532
Batch 233/248, train_loss: 0.9999, step time: 0.3537
Batch 234/248, train_loss: 0.9982, step time: 0.3619
Batch 235/248, train_loss: 0.9988, step time: 0.3747
Batch 236/248, train_loss: 0.9994, step time: 0.3526
Batch 237/248, train_loss: 0.9174, step time: 0.3594
Batch 238/248, train_loss: 0.9600, step time: 0.3458
Batch 239/248, train_loss: 0.7211, step time: 0.3470
Batch 240/248, train_loss: 0.9897, step time: 0.3658
Batch 241/248, train_loss: 0.9999, step time: 0.3577
Batch 242/248, train_loss: 0.9962, step time: 0.3474
Batch 243/248, train_loss: 0.9994, step time: 0.3672
Batch 244/248, train_loss: 0.9986, step time: 0.3431
Batch 245/248, train_loss: 0.9500, step time: 0.3646
Batch 246/248, train_loss: 0.9985, step time: 0.3823
Batch 247/248, train_loss: 0.8209, step time: 0.3898
Batch 248/248, train_loss: 1.0000, step time: 0.3490

Labels

TC



WT



ET



Predictions



VAL

```
Batch 1/31, val_loss: 0.9858
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9977
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.9023
Batch 7/31, val_loss: 0.9789
Batch 8/31, val_loss: 0.9980
Batch 9/31, val_loss: 0.9276
Batch 10/31, val_loss: 0.9971
Batch 11/31, val_loss: 0.9891
Batch 12/31, val_loss: 0.9992
Batch 13/31, val_loss: 0.9985
Batch 14/31, val_loss: 0.9985
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9995
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9984
Batch 19/31, val_loss: 0.9677
Batch 20/31, val_loss: 0.9834
Batch 21/31, val_loss: 0.9944
Batch 22/31, val_loss: 0.9996
Batch 23/31, val_loss: 0.9997
Batch 24/31, val_loss: 0.8995
Batch 25/31, val_loss: 0.9769
Batch 26/31, val_loss: 0.9961
Batch 27/31, val_loss: 0.9998
Batch 28/31, val_loss: 0.9694
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9996
Batch 31/31, val_loss: 0.9993
```

Labels

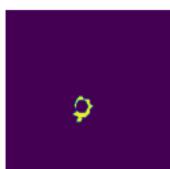
TC



WT



ET



Predictions



epoch 8

```
average train loss: 0.9689
average validation loss: 0.9857
saved as best model: False
current mean dice: 0.0574
current TC dice: 0.0600
current WT dice: 0.0600
```

```
-----  
current ET dice: 0.0568  
Best Mean Metric: 0.0885  
time consuming of epoch 8 is: 1461.5345  
-----  
epoch 9/100  
TRAIN  
Batch 1/248, train_loss: 0.8901, step time: 0.3865  
Batch 2/248, train_loss: 0.9998, step time: 0.3872  
Batch 3/248, train_loss: 0.9981, step time: 0.3776  
Batch 4/248, train_loss: 0.9999, step time: 0.3805  
Batch 5/248, train_loss: 0.9903, step time: 0.3543  
Batch 6/248, train_loss: 0.9890, step time: 0.3589  
Batch 7/248, train_loss: 0.8440, step time: 0.3868  
Batch 8/248, train_loss: 0.9687, step time: 0.3466  
Batch 9/248, train_loss: 0.9090, step time: 0.3456  
Batch 10/248, train_loss: 0.9964, step time: 0.3515  
Batch 11/248, train_loss: 0.9911, step time: 0.3704  
Batch 12/248, train_loss: 0.9996, step time: 0.3851  
Batch 13/248, train_loss: 0.9976, step time: 0.3878  
Batch 14/248, train_loss: 0.8289, step time: 0.3530  
Batch 15/248, train_loss: 0.9952, step time: 0.3518  
Batch 16/248, train_loss: 0.9902, step time: 0.3690  
Batch 17/248, train_loss: 0.9995, step time: 0.3842  
Batch 18/248, train_loss: 0.9995, step time: 0.3863  
Batch 19/248, train_loss: 0.9120, step time: 0.3507  
Batch 20/248, train_loss: 0.9875, step time: 0.3784  
Batch 21/248, train_loss: 0.9620, step time: 0.3893  
Batch 22/248, train_loss: 1.0000, step time: 0.3694  
Batch 23/248, train_loss: 0.9998, step time: 0.3727  
Batch 24/248, train_loss: 0.9689, step time: 0.3650  
Batch 25/248, train_loss: 0.7947, step time: 0.3440  
Batch 26/248, train_loss: 0.9988, step time: 0.3736  
Batch 27/248, train_loss: 0.9006, step time: 0.3497  
Batch 28/248, train_loss: 0.9901, step time: 0.3902  
Batch 29/248, train_loss: 0.9995, step time: 0.3455  
Batch 30/248, train_loss: 0.9880, step time: 0.3484  
Batch 31/248, train_loss: 0.9949, step time: 0.3465  
Batch 32/248, train_loss: 0.9593, step time: 0.3469  
Batch 33/248, train_loss: 0.8927, step time: 0.3519  
Batch 34/248, train_loss: 0.9282, step time: 0.3518  
Batch 35/248, train_loss: 0.9679, step time: 0.3777  
Batch 36/248, train_loss: 0.9999, step time: 0.3663  
Batch 37/248, train_loss: 0.9707, step time: 0.3702  
Batch 38/248, train_loss: 0.9940, step time: 0.3804  
Batch 39/248, train_loss: 0.9974, step time: 0.3771  
Batch 40/248, train_loss: 0.9999, step time: 0.3715  
Batch 41/248, train_loss: 0.9449, step time: 0.3578  
Batch 42/248, train_loss: 0.9493, step time: 0.3466  
Batch 43/248, train_loss: 0.9180, step time: 0.3807  
Batch 44/248, train_loss: 0.9737, step time: 0.3811  
Batch 45/248, train_loss: 0.9939, step time: 0.3498  
Batch 46/248, train_loss: 0.9784, step time: 0.3876  
Batch 47/248, train_loss: 0.9871, step time: 0.3474  
Batch 48/248, train_loss: 0.9788, step time: 0.3901  
Batch 49/248, train_loss: 0.9989, step time: 0.3551  
Batch 50/248, train_loss: 0.9892, step time: 0.3464  
Batch 51/248, train_loss: 0.9860, step time: 0.3489  
Batch 52/248, train_loss: 0.9801, step time: 0.3547  
Batch 53/248, train_loss: 0.9942, step time: 0.3706  
Batch 54/248, train_loss: 0.9854, step time: 0.3496  
Batch 55/248, train_loss: 0.9959, step time: 0.3457  
Batch 56/248, train_loss: 0.9874, step time: 0.3538  
Batch 57/248, train_loss: 0.9894, step time: 0.3876  
Batch 58/248, train_loss: 0.9539, step time: 0.3675  
Batch 59/248, train_loss: 0.9636, step time: 0.3616  
Batch 60/248, train_loss: 0.9515, step time: 0.3464  
Batch 61/248, train_loss: 0.9669, step time: 0.3577  
Batch 62/248, train_loss: 0.9964, step time: 0.3542  
Batch 63/248, train_loss: 0.9984, step time: 0.3697  
Batch 64/248, train_loss: 0.9983, step time: 0.3844  
Batch 65/248, train_loss: 0.9892, step time: 0.3900  
Batch 66/248, train_loss: 0.9893, step time: 0.3801  
Batch 67/248, train_loss: 0.8823, step time: 0.3477  
Batch 68/248, train_loss: 0.9373, step time: 0.3695  
Batch 69/248, train_loss: 0.9998, step time: 0.3607  
Batch 70/248, train_loss: 0.9555, step time: 0.3757  
Batch 71/248, train_loss: 0.9258, step time: 0.3865  
Batch 72/248, train_loss: 0.9370, step time: 0.3711  
Batch 73/248, train_loss: 0.9428, step time: 0.3647  
Batch 74/248, train_loss: 0.9999, step time: 0.3740  
Batch 75/248, train_loss: 0.9454, step time: 0.3757  
Batch 76/248, train_loss: 0.9990, step time: 0.3532  
Batch 77/248, train_loss: 0.9997, step time: 0.3674  
Batch 78/248, train_loss: 0.9753, step time: 0.3760  
Batch 79/248, train_loss: 0.9862, step time: 0.3750
```

Batch 79/248, train_loss: 0.9002, step time: 0.3529
Batch 80/248, train_loss: 0.9914, step time: 0.3855
Batch 81/248, train_loss: 0.9946, step time: 0.3752
Batch 82/248, train_loss: 0.9466, step time: 0.3492
Batch 83/248, train_loss: 0.9985, step time: 0.3472
Batch 84/248, train_loss: 0.9866, step time: 0.3456
Batch 85/248, train_loss: 0.9993, step time: 0.3801
Batch 86/248, train_loss: 0.9537, step time: 0.3513
Batch 87/248, train_loss: 0.9970, step time: 0.3878
Batch 88/248, train_loss: 0.9977, step time: 0.3455
Batch 89/248, train_loss: 0.8533, step time: 0.3716
Batch 90/248, train_loss: 0.9862, step time: 0.3467
Batch 91/248, train_loss: 0.9992, step time: 0.3534
Batch 92/248, train_loss: 0.9829, step time: 0.3634
Batch 93/248, train_loss: 0.9389, step time: 0.3678
Batch 94/248, train_loss: 0.9993, step time: 0.3475
Batch 95/248, train_loss: 0.9703, step time: 0.3482
Batch 96/248, train_loss: 0.9665, step time: 0.3520
Batch 97/248, train_loss: 1.0000, step time: 0.3852
Batch 98/248, train_loss: 0.9254, step time: 0.3936
Batch 99/248, train_loss: 0.9978, step time: 0.3472
Batch 100/248, train_loss: 0.9998, step time: 0.3453
Batch 101/248, train_loss: 0.8303, step time: 0.3472
Batch 102/248, train_loss: 0.9814, step time: 0.3948
Batch 103/248, train_loss: 0.9989, step time: 0.3621
Batch 104/248, train_loss: 0.9707, step time: 0.3483
Batch 105/248, train_loss: 0.9204, step time: 0.3798
Batch 106/248, train_loss: 0.9900, step time: 0.3916
Batch 107/248, train_loss: 0.9977, step time: 0.3508
Batch 108/248, train_loss: 0.9988, step time: 0.3848
Batch 109/248, train_loss: 0.9998, step time: 0.3448
Batch 110/248, train_loss: 0.9925, step time: 0.3705
Batch 111/248, train_loss: 0.9226, step time: 0.3701
Batch 112/248, train_loss: 0.9309, step time: 0.3806
Batch 113/248, train_loss: 0.9999, step time: 0.3491
Batch 114/248, train_loss: 0.8506, step time: 0.3449
Batch 115/248, train_loss: 0.9780, step time: 0.3682
Batch 116/248, train_loss: 0.9195, step time: 0.3616
Batch 117/248, train_loss: 0.9994, step time: 0.3554
Batch 118/248, train_loss: 0.9967, step time: 0.3850
Batch 119/248, train_loss: 0.9778, step time: 0.3909
Batch 120/248, train_loss: 0.9820, step time: 0.3815
Batch 121/248, train_loss: 0.9952, step time: 0.3444
Batch 122/248, train_loss: 0.9976, step time: 0.3528
Batch 123/248, train_loss: 0.9548, step time: 0.3872
Batch 124/248, train_loss: 0.9974, step time: 0.3768
Batch 125/248, train_loss: 0.9995, step time: 0.3466
Batch 126/248, train_loss: 0.9075, step time: 0.3930
Batch 127/248, train_loss: 0.9825, step time: 0.3520
Batch 128/248, train_loss: 0.9918, step time: 0.3673
Batch 129/248, train_loss: 0.8825, step time: 0.3850
Batch 130/248, train_loss: 0.8809, step time: 0.3531
Batch 131/248, train_loss: 0.9972, step time: 0.3660
Batch 132/248, train_loss: 0.9975, step time: 0.3491
Batch 133/248, train_loss: 0.7813, step time: 0.3514
Batch 134/248, train_loss: 1.0000, step time: 0.3857
Batch 135/248, train_loss: 0.9986, step time: 0.3900
Batch 136/248, train_loss: 0.9905, step time: 0.3896
Batch 137/248, train_loss: 0.8908, step time: 0.3906
Batch 138/248, train_loss: 0.9173, step time: 0.3832
Batch 139/248, train_loss: 0.9185, step time: 0.3885
Batch 140/248, train_loss: 0.9890, step time: 0.3464
Batch 141/248, train_loss: 0.9493, step time: 0.3608
Batch 142/248, train_loss: 0.9994, step time: 0.3573
Batch 143/248, train_loss: 0.9902, step time: 0.3674
Batch 144/248, train_loss: 0.9150, step time: 0.3492
Batch 145/248, train_loss: 0.8044, step time: 0.3890
Batch 146/248, train_loss: 0.9997, step time: 0.3558
Batch 147/248, train_loss: 0.7924, step time: 0.3908
Batch 148/248, train_loss: 0.9968, step time: 0.3720
Batch 149/248, train_loss: 0.9782, step time: 0.3709
Batch 150/248, train_loss: 0.9437, step time: 0.3852
Batch 151/248, train_loss: 0.9972, step time: 0.3692
Batch 152/248, train_loss: 0.8181, step time: 0.3538
Batch 153/248, train_loss: 0.9961, step time: 0.3749
Batch 154/248, train_loss: 0.9992, step time: 0.3547
Batch 155/248, train_loss: 0.9782, step time: 0.3766
Batch 156/248, train_loss: 0.9801, step time: 0.3544
Batch 157/248, train_loss: 0.9162, step time: 0.3669
Batch 158/248, train_loss: 0.9997, step time: 0.3462
Batch 159/248, train_loss: 0.9998, step time: 0.3479
Batch 160/248, train_loss: 0.9496, step time: 0.3721
Batch 161/248, train_loss: 0.9795, step time: 0.3482
Batch 162/248, train_loss: 0.7597, step time: 0.3472
Batch 163/248, train_loss: 0.9981, step time: 0.3525

Batch 164/248, train_loss: 0.9796, step time: 0.3782
Batch 165/248, train_loss: 0.9997, step time: 0.3478
Batch 166/248, train_loss: 0.9956, step time: 0.3844
Batch 167/248, train_loss: 0.9802, step time: 0.3867
Batch 168/248, train_loss: 0.9790, step time: 0.3648
Batch 169/248, train_loss: 0.9545, step time: 0.3892
Batch 170/248, train_loss: 0.9981, step time: 0.3859
Batch 171/248, train_loss: 0.8444, step time: 0.3775
Batch 172/248, train_loss: 0.9999, step time: 0.3723
Batch 173/248, train_loss: 0.9136, step time: 0.3483
Batch 174/248, train_loss: 0.9989, step time: 0.3455
Batch 175/248, train_loss: 0.8597, step time: 0.3723
Batch 176/248, train_loss: 0.9895, step time: 0.3651
Batch 177/248, train_loss: 0.9996, step time: 0.3574
Batch 178/248, train_loss: 0.9451, step time: 0.3561
Batch 179/248, train_loss: 0.7232, step time: 0.3729
Batch 180/248, train_loss: 0.9794, step time: 0.3477
Batch 181/248, train_loss: 0.8990, step time: 0.3904
Batch 182/248, train_loss: 0.9955, step time: 0.3786
Batch 183/248, train_loss: 0.9789, step time: 0.3881
Batch 184/248, train_loss: 0.9961, step time: 0.3640
Batch 185/248, train_loss: 0.9794, step time: 0.3905
Batch 186/248, train_loss: 0.9571, step time: 0.3883
Batch 187/248, train_loss: 0.9580, step time: 0.3908
Batch 188/248, train_loss: 0.9812, step time: 0.3617
Batch 189/248, train_loss: 0.9999, step time: 0.3768
Batch 190/248, train_loss: 0.9606, step time: 0.3804
Batch 191/248, train_loss: 0.9997, step time: 0.3475
Batch 192/248, train_loss: 0.9468, step time: 0.3565
Batch 193/248, train_loss: 0.9894, step time: 0.3441
Batch 194/248, train_loss: 0.9883, step time: 0.3643
Batch 195/248, train_loss: 0.9997, step time: 0.3700
Batch 196/248, train_loss: 1.0000, step time: 0.3782
Batch 197/248, train_loss: 0.9940, step time: 0.3904
Batch 198/248, train_loss: 1.0000, step time: 0.3738
Batch 199/248, train_loss: 0.9819, step time: 0.3518
Batch 200/248, train_loss: 0.9800, step time: 0.3710
Batch 201/248, train_loss: 0.9498, step time: 0.3780
Batch 202/248, train_loss: 0.9873, step time: 0.3442
Batch 203/248, train_loss: 0.9990, step time: 0.3638
Batch 204/248, train_loss: 0.8779, step time: 0.3570
Batch 205/248, train_loss: 0.9948, step time: 0.3645
Batch 206/248, train_loss: 0.9997, step time: 0.3691
Batch 207/248, train_loss: 0.9411, step time: 0.3472
Batch 208/248, train_loss: 0.9791, step time: 0.3476
Batch 209/248, train_loss: 0.9688, step time: 0.3542
Batch 210/248, train_loss: 0.9411, step time: 0.3699
Batch 211/248, train_loss: 0.9352, step time: 0.3765
Batch 212/248, train_loss: 0.9912, step time: 0.3451
Batch 213/248, train_loss: 0.9903, step time: 0.3510
Batch 214/248, train_loss: 0.9622, step time: 0.3636
Batch 215/248, train_loss: 0.9935, step time: 0.3624
Batch 216/248, train_loss: 0.9392, step time: 0.3810
Batch 217/248, train_loss: 0.9962, step time: 0.3697
Batch 218/248, train_loss: 0.9994, step time: 0.3508
Batch 219/248, train_loss: 0.9640, step time: 0.3580
Batch 220/248, train_loss: 0.9938, step time: 0.3656
Batch 221/248, train_loss: 0.9920, step time: 0.3806
Batch 222/248, train_loss: 0.9451, step time: 0.3557
Batch 223/248, train_loss: 0.8960, step time: 0.3564
Batch 224/248, train_loss: 0.9332, step time: 0.3928
Batch 225/248, train_loss: 0.9997, step time: 0.3807
Batch 226/248, train_loss: 0.9962, step time: 0.3465
Batch 227/248, train_loss: 0.9628, step time: 0.3832
Batch 228/248, train_loss: 0.9919, step time: 0.3572
Batch 229/248, train_loss: 0.8801, step time: 0.3626
Batch 230/248, train_loss: 0.9659, step time: 0.3719
Batch 231/248, train_loss: 0.9991, step time: 0.3587
Batch 232/248, train_loss: 0.9631, step time: 0.3546
Batch 233/248, train_loss: 0.9999, step time: 0.3580
Batch 234/248, train_loss: 0.9980, step time: 0.3679
Batch 235/248, train_loss: 0.9986, step time: 0.3573
Batch 236/248, train_loss: 0.9993, step time: 0.3907
Batch 237/248, train_loss: 0.9035, step time: 0.3596
Batch 238/248, train_loss: 0.9525, step time: 0.3611
Batch 239/248, train_loss: 0.6755, step time: 0.3540
Batch 240/248, train_loss: 0.9879, step time: 0.3669
Batch 241/248, train_loss: 0.9999, step time: 0.3514
Batch 242/248, train_loss: 0.9955, step time: 0.3565
Batch 243/248, train_loss: 0.9993, step time: 0.3694
Batch 244/248, train_loss: 0.9985, step time: 0.3485
Batch 245/248, train_loss: 0.9422, step time: 0.3675
Batch 246/248, train_loss: 0.9982, step time: 0.3534
Batch 247/248, train_loss: 0.7915, step time: 0.3812
Batch 248/248, train_loss: 1.0000, step time: 0.3812

Labels

TC



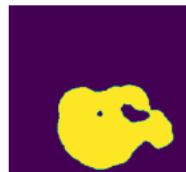
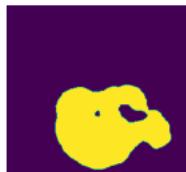
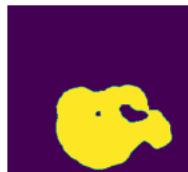
WT



ET



Predictions



VAL

```
Batch 1/31, val_loss: 0.9837
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9973
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8913
Batch 7/31, val_loss: 0.9764
Batch 8/31, val_loss: 0.9977
Batch 9/31, val_loss: 0.9216
Batch 10/31, val_loss: 0.9967
Batch 11/31, val_loss: 0.9877
Batch 12/31, val_loss: 0.9990
Batch 13/31, val_loss: 0.9984
Batch 14/31, val_loss: 0.9981
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9995
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9981
Batch 19/31, val_loss: 0.9642
Batch 20/31, val_loss: 0.9827
Batch 21/31, val_loss: 0.9940
Batch 22/31, val_loss: 0.9995
Batch 23/31, val_loss: 0.9996
Batch 24/31, val_loss: 0.8931
Batch 25/31, val_loss: 0.9743
Batch 26/31, val_loss: 0.9956
Batch 27/31, val_loss: 0.9998
Batch 28/31, val_loss: 0.9655
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9996
Batch 31/31, val_loss: 0.9992
```

Labels

TC



WT



ET



Predictions



epoch 9

```
average train loss: 0.9635
average validation loss: 0.9843
saved as best model: False
current mean dice: 0.0601
current TC dice: 0.0628
      0.0000    0.0000
```

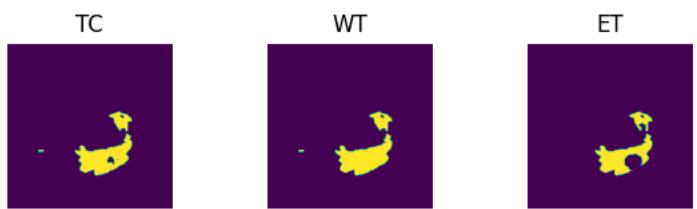
```
current WI dice: 0.063/
current ET dice: 0.0594
Best Mean Metric: 0.0885
time consuming of epoch 9 is: 1461.4487
-----
epoch 10/100
TRAIN
Batch 1/248, train_loss: 0.8721, step time: 0.3822
Batch 2/248, train_loss: 0.9998, step time: 0.3893
Batch 3/248, train_loss: 0.9978, step time: 0.3577
Batch 4/248, train_loss: 0.9999, step time: 0.3785
Batch 5/248, train_loss: 0.9882, step time: 0.3849
Batch 6/248, train_loss: 0.9873, step time: 0.3743
Batch 7/248, train_loss: 0.8145, step time: 0.3680
Batch 8/248, train_loss: 0.9638, step time: 0.3593
Batch 9/248, train_loss: 0.8975, step time: 0.3510
Batch 10/248, train_loss: 0.9956, step time: 0.3692
Batch 11/248, train_loss: 0.9892, step time: 0.3464
Batch 12/248, train_loss: 0.9995, step time: 0.3770
Batch 13/248, train_loss: 0.9971, step time: 0.3667
Batch 14/248, train_loss: 0.7922, step time: 0.3731
Batch 15/248, train_loss: 0.9946, step time: 0.3756
Batch 16/248, train_loss: 0.9883, step time: 0.3861
Batch 17/248, train_loss: 0.9995, step time: 0.3848
Batch 18/248, train_loss: 0.9993, step time: 0.3862
Batch 19/248, train_loss: 0.8933, step time: 0.3488
Batch 20/248, train_loss: 0.9843, step time: 0.3676
Batch 21/248, train_loss: 0.9535, step time: 0.3672
Batch 22/248, train_loss: 0.9999, step time: 0.3530
Batch 23/248, train_loss: 0.9998, step time: 0.3478
Batch 24/248, train_loss: 0.9611, step time: 0.3478
Batch 25/248, train_loss: 0.7552, step time: 0.3477
Batch 26/248, train_loss: 0.9992, step time: 0.3626
Batch 27/248, train_loss: 0.8814, step time: 0.3585
Batch 28/248, train_loss: 0.9874, step time: 0.3497
Batch 29/248, train_loss: 0.9994, step time: 0.3730
Batch 30/248, train_loss: 0.9857, step time: 0.3802
Batch 31/248, train_loss: 0.9940, step time: 0.3500
Batch 32/248, train_loss: 0.9515, step time: 0.3869
Batch 33/248, train_loss: 0.8729, step time: 0.3856
Batch 34/248, train_loss: 0.9140, step time: 0.3834
Batch 35/248, train_loss: 0.9610, step time: 0.3607
Batch 36/248, train_loss: 0.9999, step time: 0.3845
Batch 37/248, train_loss: 0.9654, step time: 0.3604
Batch 38/248, train_loss: 0.9929, step time: 0.3468
Batch 39/248, train_loss: 0.9711, step time: 0.3486
Batch 40/248, train_loss: 0.9999, step time: 0.3489
Batch 41/248, train_loss: 0.9349, step time: 0.3653
Batch 42/248, train_loss: 0.9390, step time: 0.3818
Batch 43/248, train_loss: 0.9026, step time: 0.3474
Batch 44/248, train_loss: 0.9702, step time: 0.3877
Batch 45/248, train_loss: 0.9929, step time: 0.3751
Batch 46/248, train_loss: 0.9744, step time: 0.3610
Batch 47/248, train_loss: 0.9846, step time: 0.3655
Batch 48/248, train_loss: 0.9753, step time: 0.3824
Batch 49/248, train_loss: 0.9986, step time: 0.3470
Batch 50/248, train_loss: 0.9871, step time: 0.3715
Batch 51/248, train_loss: 0.9835, step time: 0.3721
Batch 52/248, train_loss: 0.9764, step time: 0.3791
Batch 53/248, train_loss: 0.9933, step time: 0.3655
Batch 54/248, train_loss: 0.9825, step time: 0.3461
Batch 55/248, train_loss: 0.9949, step time: 0.3574
Batch 56/248, train_loss: 0.9841, step time: 0.3594
Batch 57/248, train_loss: 0.9874, step time: 0.3717
Batch 58/248, train_loss: 0.9445, step time: 0.3546
Batch 59/248, train_loss: 0.9566, step time: 0.3471
Batch 60/248, train_loss: 0.9422, step time: 0.3497
Batch 61/248, train_loss: 0.9594, step time: 0.3658
Batch 62/248, train_loss: 0.9956, step time: 0.3516
Batch 63/248, train_loss: 0.9985, step time: 0.3469
Batch 64/248, train_loss: 0.9980, step time: 0.3654
Batch 65/248, train_loss: 0.9868, step time: 0.3911
Batch 66/248, train_loss: 0.9876, step time: 0.3472
Batch 67/248, train_loss: 0.8605, step time: 0.3533
Batch 68/248, train_loss: 0.9264, step time: 0.3519
Batch 69/248, train_loss: 0.9997, step time: 0.3675
Batch 70/248, train_loss: 0.9477, step time: 0.3453
Batch 71/248, train_loss: 0.9124, step time: 0.3577
Batch 72/248, train_loss: 0.9248, step time: 0.3481
Batch 73/248, train_loss: 0.9320, step time: 0.3566
Batch 74/248, train_loss: 0.9999, step time: 0.3818
Batch 75/248, train_loss: 0.9359, step time: 0.3714
Batch 76/248, train_loss: 0.9989, step time: 0.3657
Batch 77/248, train_loss: 0.9997, step time: 0.3884
Batch 78/248, train_loss: 0.9706, step time: 0.3897
```

Batch 79/248, train_loss: 0.9837, step time: 0.3497
Batch 80/248, train_loss: 0.9898, step time: 0.3557
Batch 81/248, train_loss: 0.9934, step time: 0.3717
Batch 82/248, train_loss: 0.9368, step time: 0.3717
Batch 83/248, train_loss: 0.9983, step time: 0.3500
Batch 84/248, train_loss: 0.9839, step time: 0.3796
Batch 85/248, train_loss: 0.9995, step time: 0.3623
Batch 86/248, train_loss: 0.9449, step time: 0.3516
Batch 87/248, train_loss: 0.9965, step time: 0.3884
Batch 88/248, train_loss: 0.9973, step time: 0.3456
Batch 89/248, train_loss: 0.8283, step time: 0.3676
Batch 90/248, train_loss: 0.9835, step time: 0.3583
Batch 91/248, train_loss: 0.9991, step time: 0.3455
Batch 92/248, train_loss: 0.9792, step time: 0.3481
Batch 93/248, train_loss: 0.9278, step time: 0.3733
Batch 94/248, train_loss: 0.9992, step time: 0.3726
Batch 95/248, train_loss: 0.9657, step time: 0.3476
Batch 96/248, train_loss: 0.9612, step time: 0.3706
Batch 97/248, train_loss: 1.0000, step time: 0.3898
Batch 98/248, train_loss: 0.9122, step time: 0.3448
Batch 99/248, train_loss: 0.9975, step time: 0.3694
Batch 100/248, train_loss: 0.9995, step time: 0.3871
Batch 101/248, train_loss: 0.7986, step time: 0.3863
Batch 102/248, train_loss: 0.9780, step time: 0.3555
Batch 103/248, train_loss: 0.9987, step time: 0.3853
Batch 104/248, train_loss: 0.9651, step time: 0.3865
Batch 105/248, train_loss: 0.9057, step time: 0.3822
Batch 106/248, train_loss: 0.9877, step time: 0.3485
Batch 107/248, train_loss: 0.9973, step time: 0.3643
Batch 108/248, train_loss: 0.9985, step time: 0.3550
Batch 109/248, train_loss: 0.9997, step time: 0.3792
Batch 110/248, train_loss: 0.9911, step time: 0.3846
Batch 111/248, train_loss: 0.9072, step time: 0.3601
Batch 112/248, train_loss: 0.9175, step time: 0.3770
Batch 113/248, train_loss: 0.9999, step time: 0.3511
Batch 114/248, train_loss: 0.8248, step time: 0.3502
Batch 115/248, train_loss: 0.9738, step time: 0.3880
Batch 116/248, train_loss: 0.9042, step time: 0.3781
Batch 117/248, train_loss: 0.9993, step time: 0.3925
Batch 118/248, train_loss: 0.9972, step time: 0.3695
Batch 119/248, train_loss: 0.9744, step time: 0.3477
Batch 120/248, train_loss: 0.9776, step time: 0.3925
Batch 121/248, train_loss: 0.9942, step time: 0.3482
Batch 122/248, train_loss: 0.9965, step time: 0.3464
Batch 123/248, train_loss: 0.9468, step time: 0.3593
Batch 124/248, train_loss: 0.9969, step time: 0.3845
Batch 125/248, train_loss: 0.9996, step time: 0.3865
Batch 126/248, train_loss: 0.8915, step time: 0.3785
Batch 127/248, train_loss: 0.9795, step time: 0.3809
Batch 128/248, train_loss: 0.9902, step time: 0.3520
Batch 129/248, train_loss: 0.8610, step time: 0.3517
Batch 130/248, train_loss: 0.8600, step time: 0.3526
Batch 131/248, train_loss: 0.9967, step time: 0.3808
Batch 132/248, train_loss: 0.9971, step time: 0.3899
Batch 133/248, train_loss: 0.7462, step time: 0.3478
Batch 134/248, train_loss: 1.0000, step time: 0.3671
Batch 135/248, train_loss: 0.9983, step time: 0.3470
Batch 136/248, train_loss: 0.9886, step time: 0.3828
Batch 137/248, train_loss: 0.8712, step time: 0.3830
Batch 138/248, train_loss: 0.9030, step time: 0.3658
Batch 139/248, train_loss: 0.9047, step time: 0.3875
Batch 140/248, train_loss: 0.9869, step time: 0.3836
Batch 141/248, train_loss: 0.9403, step time: 0.3840
Batch 142/248, train_loss: 0.9995, step time: 0.3545
Batch 143/248, train_loss: 0.9883, step time: 0.3479
Batch 144/248, train_loss: 0.8993, step time: 0.3793
Batch 145/248, train_loss: 0.7696, step time: 0.3587
Batch 146/248, train_loss: 0.9997, step time: 0.3579
Batch 147/248, train_loss: 0.7576, step time: 0.3746
Batch 148/248, train_loss: 0.9963, step time: 0.3884
Batch 149/248, train_loss: 0.9743, step time: 0.3923
Batch 150/248, train_loss: 0.9337, step time: 0.3451
Batch 151/248, train_loss: 0.9965, step time: 0.3788
Batch 152/248, train_loss: 0.7890, step time: 0.3845
Batch 153/248, train_loss: 0.9954, step time: 0.3485
Batch 154/248, train_loss: 0.9990, step time: 0.3774
Batch 155/248, train_loss: 0.9747, step time: 0.3491
Batch 156/248, train_loss: 0.9771, step time: 0.3474
Batch 157/248, train_loss: 0.9010, step time: 0.3462
Batch 158/248, train_loss: 0.9998, step time: 0.3826
Batch 159/248, train_loss: 0.9998, step time: 0.3519
Batch 160/248, train_loss: 0.9404, step time: 0.3498
Batch 161/248, train_loss: 0.9755, step time: 0.3588
Batch 162/248, train_loss: 0.7214, step time: 0.3872
Batch 163/248, train_loss: 0.9977, step time: 0.3607

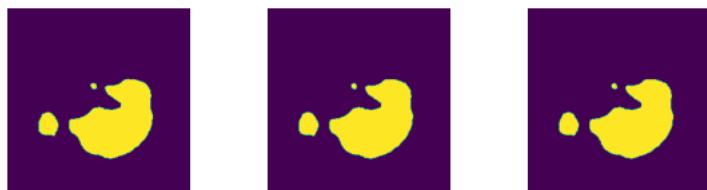
Batch 164/248, train_loss: 0.9755, step time: 0.3475
Batch 165/248, train_loss: 0.9997, step time: 0.3447
Batch 166/248, train_loss: 0.9948, step time: 0.3457
Batch 167/248, train_loss: 0.9766, step time: 0.3481
Batch 168/248, train_loss: 0.9768, step time: 0.3860
Batch 169/248, train_loss: 0.9482, step time: 0.3669
Batch 170/248, train_loss: 0.9978, step time: 0.3660
Batch 171/248, train_loss: 0.8186, step time: 0.3500
Batch 172/248, train_loss: 0.9999, step time: 0.3544
Batch 173/248, train_loss: 0.8996, step time: 0.3550
Batch 174/248, train_loss: 0.9993, step time: 0.3889
Batch 175/248, train_loss: 0.8386, step time: 0.3806
Batch 176/248, train_loss: 0.9878, step time: 0.3575
Batch 177/248, train_loss: 0.9996, step time: 0.3584
Batch 178/248, train_loss: 0.9359, step time: 0.3467
Batch 179/248, train_loss: 0.6855, step time: 0.3463
Batch 180/248, train_loss: 0.9760, step time: 0.3574
Batch 181/248, train_loss: 0.8822, step time: 0.3809
Batch 182/248, train_loss: 0.9949, step time: 0.3932
Batch 183/248, train_loss: 0.9760, step time: 0.3615
Batch 184/248, train_loss: 0.9955, step time: 0.3683
Batch 185/248, train_loss: 0.9772, step time: 0.3506
Batch 186/248, train_loss: 0.9538, step time: 0.3460
Batch 187/248, train_loss: 0.9518, step time: 0.3739
Batch 188/248, train_loss: 0.9792, step time: 0.3865
Batch 189/248, train_loss: 0.9999, step time: 0.3454
Batch 190/248, train_loss: 0.9538, step time: 0.3523
Batch 191/248, train_loss: 0.9997, step time: 0.3465
Batch 192/248, train_loss: 0.9388, step time: 0.3778
Batch 193/248, train_loss: 0.9876, step time: 0.3593
Batch 194/248, train_loss: 0.9866, step time: 0.3836
Batch 195/248, train_loss: 0.9996, step time: 0.3471
Batch 196/248, train_loss: 1.0000, step time: 0.3828
Batch 197/248, train_loss: 0.9931, step time: 0.3860
Batch 198/248, train_loss: 0.9999, step time: 0.3834
Batch 199/248, train_loss: 0.9793, step time: 0.3802
Batch 200/248, train_loss: 0.9770, step time: 0.3466
Batch 201/248, train_loss: 0.9425, step time: 0.3746
Batch 202/248, train_loss: 0.9854, step time: 0.3605
Batch 203/248, train_loss: 0.9989, step time: 0.3843
Batch 204/248, train_loss: 0.8590, step time: 0.3715
Batch 205/248, train_loss: 0.9940, step time: 0.3479
Batch 206/248, train_loss: 0.9997, step time: 0.3604
Batch 207/248, train_loss: 0.9316, step time: 0.3881
Batch 208/248, train_loss: 0.9758, step time: 0.3872
Batch 209/248, train_loss: 0.9644, step time: 0.3864
Batch 210/248, train_loss: 0.9305, step time: 0.3853
Batch 211/248, train_loss: 0.9240, step time: 0.3849
Batch 212/248, train_loss: 0.9897, step time: 0.3508
Batch 213/248, train_loss: 0.9887, step time: 0.3787
Batch 214/248, train_loss: 0.9561, step time: 0.3919
Batch 215/248, train_loss: 0.9920, step time: 0.3655
Batch 216/248, train_loss: 0.9287, step time: 0.3578
Batch 217/248, train_loss: 0.9957, step time: 0.3455
Batch 218/248, train_loss: 0.9994, step time: 0.3511
Batch 219/248, train_loss: 0.9578, step time: 0.3694
Batch 220/248, train_loss: 0.9929, step time: 0.3774
Batch 221/248, train_loss: 0.9906, step time: 0.3460
Batch 222/248, train_loss: 0.9374, step time: 0.3690
Batch 223/248, train_loss: 0.8796, step time: 0.3898
Batch 224/248, train_loss: 0.9218, step time: 0.3507
Batch 225/248, train_loss: 0.9997, step time: 0.3880
Batch 226/248, train_loss: 0.9955, step time: 0.3803
Batch 227/248, train_loss: 0.9561, step time: 0.3524
Batch 228/248, train_loss: 0.9906, step time: 0.3656
Batch 229/248, train_loss: 0.8609, step time: 0.3613
Batch 230/248, train_loss: 0.9608, step time: 0.3504
Batch 231/248, train_loss: 0.9990, step time: 0.3576
Batch 232/248, train_loss: 0.9572, step time: 0.3464
Batch 233/248, train_loss: 0.9999, step time: 0.3439
Batch 234/248, train_loss: 0.9976, step time: 0.3540
Batch 235/248, train_loss: 0.9984, step time: 0.3773
Batch 236/248, train_loss: 0.9992, step time: 0.3455
Batch 237/248, train_loss: 0.8865, step time: 0.3560
Batch 238/248, train_loss: 0.9444, step time: 0.3790
Batch 239/248, train_loss: 0.6286, step time: 0.3715
Batch 240/248, train_loss: 0.9863, step time: 0.3868
Batch 241/248, train_loss: 0.9999, step time: 0.3534
Batch 242/248, train_loss: 0.9946, step time: 0.3468
Batch 243/248, train_loss: 0.9991, step time: 0.3885
Batch 244/248, train_loss: 0.9982, step time: 0.3604
Batch 245/248, train_loss: 0.9290, step time: 0.3624
Batch 246/248, train_loss: 0.9980, step time: 0.3584
Batch 247/248, train_loss: 0.7535, step time: 0.3731
Batch 248/248, train_loss: 1.0000, step time: 0.3615

Batch 240/240, train loss: 1.0000, sleep time: 0.0015

Labels



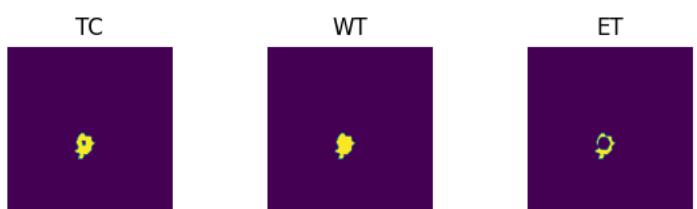
Predictions



VAL

```
Batch 1/31, val_loss: 0.9809
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9962
Batch 5/31, val_loss: 0.9999
Batch 6/31, val_loss: 0.8791
Batch 7/31, val_loss: 0.9735
Batch 8/31, val_loss: 0.9975
Batch 9/31, val_loss: 0.9120
Batch 10/31, val_loss: 0.9962
Batch 11/31, val_loss: 0.9862
Batch 12/31, val_loss: 0.9990
Batch 13/31, val_loss: 0.9980
Batch 14/31, val_loss: 0.9982
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9994
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9979
Batch 19/31, val_loss: 0.9603
Batch 20/31, val_loss: 0.9833
Batch 21/31, val_loss: 0.9934
Batch 22/31, val_loss: 0.9994
Batch 23/31, val_loss: 0.9996
Batch 24/31, val_loss: 0.8835
Batch 25/31, val_loss: 0.9713
Batch 26/31, val_loss: 0.9950
Batch 27/31, val_loss: 0.9998
Batch 28/31, val_loss: 0.9592
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9995
Batch 31/31, val_loss: 0.9991
```

Labels



Predictions



epoch 10

```
average train loss: 0.9571
average validation loss: 0.9825
saved as best model: False
current mean dice: 0.0648
current TC dice: 0.0677
```

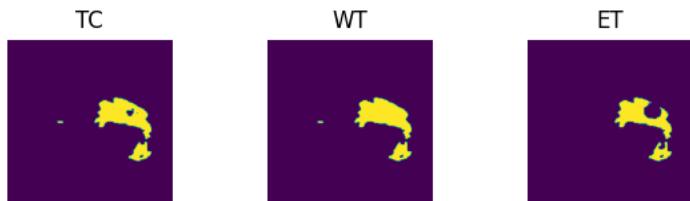
```
current WT dice: 0.0687
current ET dice: 0.0641
Best Mean Metric: 0.0885
time consuming of epoch 10 is: 1461.3176
-----
epoch 11/100
TRAIN
Batch 1/248, train_loss: 0.8510, step time: 0.3820
Batch 2/248, train_loss: 0.9998, step time: 0.3644
Batch 3/248, train_loss: 0.9975, step time: 0.3797
Batch 4/248, train_loss: 0.9998, step time: 0.3860
Batch 5/248, train_loss: 0.9858, step time: 0.3835
Batch 6/248, train_loss: 0.9844, step time: 0.3717
Batch 7/248, train_loss: 0.7709, step time: 0.3886
Batch 8/248, train_loss: 0.9561, step time: 0.3561
Batch 9/248, train_loss: 0.8710, step time: 0.3898
Batch 10/248, train_loss: 0.9948, step time: 0.3516
Batch 11/248, train_loss: 0.9874, step time: 0.3525
Batch 12/248, train_loss: 0.9995, step time: 0.3590
Batch 13/248, train_loss: 0.9963, step time: 0.3548
Batch 14/248, train_loss: 0.7465, step time: 0.3740
Batch 15/248, train_loss: 0.9937, step time: 0.3685
Batch 16/248, train_loss: 0.9856, step time: 0.3663
Batch 17/248, train_loss: 0.9994, step time: 0.3842
Batch 18/248, train_loss: 0.9984, step time: 0.3604
Batch 19/248, train_loss: 0.8708, step time: 0.3862
Batch 20/248, train_loss: 0.9809, step time: 0.3479
Batch 21/248, train_loss: 0.9430, step time: 0.3769
Batch 22/248, train_loss: 1.0000, step time: 0.3486
Batch 23/248, train_loss: 0.9998, step time: 0.3439
Batch 24/248, train_loss: 0.9538, step time: 0.3480
Batch 25/248, train_loss: 0.7153, step time: 0.3502
Batch 26/248, train_loss: 0.9985, step time: 0.3598
Batch 27/248, train_loss: 0.8611, step time: 0.3615
Batch 28/248, train_loss: 0.9843, step time: 0.3475
Batch 29/248, train_loss: 0.9993, step time: 0.3458
Batch 30/248, train_loss: 0.9833, step time: 0.3678
Batch 31/248, train_loss: 0.9929, step time: 0.3855
Batch 32/248, train_loss: 0.9415, step time: 0.3572
Batch 33/248, train_loss: 0.8508, step time: 0.3486
Batch 34/248, train_loss: 0.9008, step time: 0.3903
Batch 35/248, train_loss: 0.9539, step time: 0.3474
Batch 36/248, train_loss: 0.9999, step time: 0.3723
Batch 37/248, train_loss: 0.9590, step time: 0.3492
Batch 38/248, train_loss: 0.9917, step time: 0.3866
Batch 39/248, train_loss: 0.9642, step time: 0.3586
Batch 40/248, train_loss: 0.9999, step time: 0.3682
Batch 41/248, train_loss: 0.9232, step time: 0.3461
Batch 42/248, train_loss: 0.9290, step time: 0.3865
Batch 43/248, train_loss: 0.8841, step time: 0.3473
Batch 44/248, train_loss: 0.9637, step time: 0.3854
Batch 45/248, train_loss: 0.9933, step time: 0.3464
Batch 46/248, train_loss: 0.9697, step time: 0.3900
Batch 47/248, train_loss: 0.9819, step time: 0.3915
Batch 48/248, train_loss: 0.9702, step time: 0.3483
Batch 49/248, train_loss: 0.9982, step time: 0.3775
Batch 50/248, train_loss: 0.9853, step time: 0.3717
Batch 51/248, train_loss: 0.9811, step time: 0.3490
Batch 52/248, train_loss: 0.9722, step time: 0.3579
Batch 53/248, train_loss: 0.9915, step time: 0.3783
Batch 54/248, train_loss: 0.9800, step time: 0.3904
Batch 55/248, train_loss: 0.9941, step time: 0.3455
Batch 56/248, train_loss: 0.9811, step time: 0.3505
Batch 57/248, train_loss: 0.9857, step time: 0.3475
Batch 58/248, train_loss: 0.9362, step time: 0.3803
Batch 59/248, train_loss: 0.9491, step time: 0.3478
Batch 60/248, train_loss: 0.9319, step time: 0.3459
Batch 61/248, train_loss: 0.9524, step time: 0.3754
Batch 62/248, train_loss: 0.9949, step time: 0.3760
Batch 63/248, train_loss: 0.9989, step time: 0.3644
Batch 64/248, train_loss: 0.9977, step time: 0.3722
Batch 65/248, train_loss: 0.9873, step time: 0.3531
Batch 66/248, train_loss: 0.9852, step time: 0.3681
Batch 67/248, train_loss: 0.8405, step time: 0.3480
Batch 68/248, train_loss: 0.9117, step time: 0.3872
Batch 69/248, train_loss: 0.9997, step time: 0.3559
Batch 70/248, train_loss: 0.9387, step time: 0.3774
Batch 71/248, train_loss: 0.8975, step time: 0.3906
Batch 72/248, train_loss: 0.9110, step time: 0.3900
Batch 73/248, train_loss: 0.9214, step time: 0.3809
Batch 74/248, train_loss: 0.9999, step time: 0.3833
Batch 75/248, train_loss: 0.9260, step time: 0.3675
Batch 76/248, train_loss: 0.9987, step time: 0.3732
Batch 77/248, train_loss: 0.9997, step time: 0.3530
Batch 78/248, train_loss: 0.9663, step time: 0.3663
```

Batch 79/248, train_loss: 0.9812, step time: 0.3665
Batch 80/248, train_loss: 0.9880, step time: 0.3456
Batch 81/248, train_loss: 0.9924, step time: 0.3506
Batch 82/248, train_loss: 0.9262, step time: 0.3493
Batch 83/248, train_loss: 0.9980, step time: 0.3735
Batch 84/248, train_loss: 0.9818, step time: 0.3708
Batch 85/248, train_loss: 0.9991, step time: 0.3772
Batch 86/248, train_loss: 0.9365, step time: 0.3784
Batch 87/248, train_loss: 0.9958, step time: 0.3657
Batch 88/248, train_loss: 0.9971, step time: 0.3744
Batch 89/248, train_loss: 0.8060, step time: 0.3757
Batch 90/248, train_loss: 0.9808, step time: 0.3728
Batch 91/248, train_loss: 0.9989, step time: 0.3609
Batch 92/248, train_loss: 0.9762, step time: 0.3864
Batch 93/248, train_loss: 0.9170, step time: 0.3531
Batch 94/248, train_loss: 0.9991, step time: 0.3670
Batch 95/248, train_loss: 0.9596, step time: 0.3658
Batch 96/248, train_loss: 0.9551, step time: 0.3474
Batch 97/248, train_loss: 1.0000, step time: 0.3801
Batch 98/248, train_loss: 0.8996, step time: 0.3603
Batch 99/248, train_loss: 0.9971, step time: 0.3833
Batch 100/248, train_loss: 0.9994, step time: 0.3695
Batch 101/248, train_loss: 0.7656, step time: 0.3714
Batch 102/248, train_loss: 0.9744, step time: 0.3470
Batch 103/248, train_loss: 0.9985, step time: 0.3508
Batch 104/248, train_loss: 0.9593, step time: 0.3603
Batch 105/248, train_loss: 0.8910, step time: 0.3899
Batch 106/248, train_loss: 0.9856, step time: 0.3783
Batch 107/248, train_loss: 0.9969, step time: 0.3484
Batch 108/248, train_loss: 0.9982, step time: 0.3702
Batch 109/248, train_loss: 0.9997, step time: 0.3843
Batch 110/248, train_loss: 0.9897, step time: 0.3729
Batch 111/248, train_loss: 0.8901, step time: 0.3673
Batch 112/248, train_loss: 0.9027, step time: 0.3471
Batch 113/248, train_loss: 0.9999, step time: 0.3841
Batch 114/248, train_loss: 0.7985, step time: 0.3504
Batch 115/248, train_loss: 0.9696, step time: 0.3622
Batch 116/248, train_loss: 0.8878, step time: 0.3558
Batch 117/248, train_loss: 0.9992, step time: 0.3523
Batch 118/248, train_loss: 0.9970, step time: 0.3478
Batch 119/248, train_loss: 0.9697, step time: 0.3821
Batch 120/248, train_loss: 0.9737, step time: 0.3913
Batch 121/248, train_loss: 0.9932, step time: 0.3751
Batch 122/248, train_loss: 0.9960, step time: 0.3586
Batch 123/248, train_loss: 0.9372, step time: 0.3921
Batch 124/248, train_loss: 0.9963, step time: 0.3508
Batch 125/248, train_loss: 0.9993, step time: 0.3493
Batch 126/248, train_loss: 0.8747, step time: 0.3892
Batch 127/248, train_loss: 0.9761, step time: 0.3566
Batch 128/248, train_loss: 0.9885, step time: 0.3479
Batch 129/248, train_loss: 0.8386, step time: 0.3487
Batch 130/248, train_loss: 0.8372, step time: 0.3478
Batch 131/248, train_loss: 0.9962, step time: 0.3789
Batch 132/248, train_loss: 0.9966, step time: 0.3537
Batch 133/248, train_loss: 0.7084, step time: 0.3813
Batch 134/248, train_loss: 1.0000, step time: 0.3824
Batch 135/248, train_loss: 0.9991, step time: 0.3704
Batch 136/248, train_loss: 0.9866, step time: 0.3908
Batch 137/248, train_loss: 0.8508, step time: 0.3566
Batch 138/248, train_loss: 0.8856, step time: 0.3504
Batch 139/248, train_loss: 0.8890, step time: 0.3473
Batch 140/248, train_loss: 0.9846, step time: 0.3498
Batch 141/248, train_loss: 0.9291, step time: 0.3759
Batch 142/248, train_loss: 0.9994, step time: 0.3538
Batch 143/248, train_loss: 0.9864, step time: 0.3585
Batch 144/248, train_loss: 0.8864, step time: 0.3780
Batch 145/248, train_loss: 0.7340, step time: 0.3843
Batch 146/248, train_loss: 0.9997, step time: 0.3482
Batch 147/248, train_loss: 0.7205, step time: 0.3786
Batch 148/248, train_loss: 0.9958, step time: 0.3889
Batch 149/248, train_loss: 0.9707, step time: 0.3615
Batch 150/248, train_loss: 0.9276, step time: 0.3887
Batch 151/248, train_loss: 0.9958, step time: 0.3459
Batch 152/248, train_loss: 0.7573, step time: 0.3459
Batch 153/248, train_loss: 0.9948, step time: 0.3698
Batch 154/248, train_loss: 0.9989, step time: 0.3657
Batch 155/248, train_loss: 0.9702, step time: 0.3469
Batch 156/248, train_loss: 0.9719, step time: 0.3781
Batch 157/248, train_loss: 0.8903, step time: 0.3750
Batch 158/248, train_loss: 0.9997, step time: 0.3540
Batch 159/248, train_loss: 0.9998, step time: 0.3794
Batch 160/248, train_loss: 0.9302, step time: 0.3714
Batch 161/248, train_loss: 0.9725, step time: 0.3513
Batch 162/248, train_loss: 0.6830, step time: 0.3507
Batch 163/248, train_loss: 0.9974, step time: 0.3706

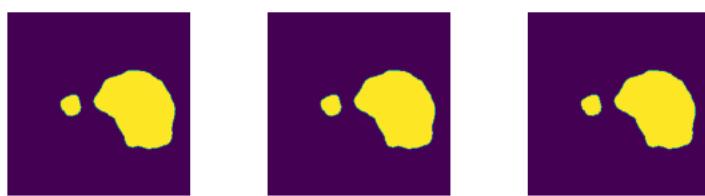
Batch 105/248, train_loss: 0.9974, step time: 0.3700
Batch 164/248, train_loss: 0.9719, step time: 0.3858
Batch 165/248, train_loss: 0.9997, step time: 0.3817
Batch 166/248, train_loss: 0.9940, step time: 0.3696
Batch 167/248, train_loss: 0.9732, step time: 0.3479
Batch 168/248, train_loss: 0.9720, step time: 0.3851
Batch 169/248, train_loss: 0.9381, step time: 0.3583
Batch 170/248, train_loss: 0.9976, step time: 0.3579
Batch 171/248, train_loss: 0.7867, step time: 0.3753
Batch 172/248, train_loss: 0.9999, step time: 0.3805
Batch 173/248, train_loss: 0.8830, step time: 0.3763
Batch 174/248, train_loss: 0.9999, step time: 0.3797
Batch 175/248, train_loss: 0.8130, step time: 0.3483
Batch 176/248, train_loss: 0.9851, step time: 0.3477
Batch 177/248, train_loss: 0.9995, step time: 0.3617
Batch 178/248, train_loss: 0.9242, step time: 0.3864
Batch 179/248, train_loss: 0.6347, step time: 0.3480
Batch 180/248, train_loss: 0.9718, step time: 0.3789
Batch 181/248, train_loss: 0.8641, step time: 0.3643
Batch 182/248, train_loss: 0.9942, step time: 0.3475
Batch 183/248, train_loss: 0.9712, step time: 0.3935
Batch 184/248, train_loss: 0.9945, step time: 0.3779
Batch 185/248, train_loss: 0.9716, step time: 0.3505
Batch 186/248, train_loss: 0.9387, step time: 0.3645
Batch 187/248, train_loss: 0.9409, step time: 0.3482
Batch 188/248, train_loss: 0.9729, step time: 0.3681
Batch 189/248, train_loss: 0.9999, step time: 0.3710
Batch 190/248, train_loss: 0.9456, step time: 0.3792
Batch 191/248, train_loss: 0.9996, step time: 0.3907
Batch 192/248, train_loss: 0.9288, step time: 0.3888
Batch 193/248, train_loss: 0.9854, step time: 0.3873
Batch 194/248, train_loss: 0.9838, step time: 0.3691
Batch 195/248, train_loss: 0.9998, step time: 0.3465
Batch 196/248, train_loss: 1.0000, step time: 0.3862
Batch 197/248, train_loss: 0.9912, step time: 0.3681
Batch 198/248, train_loss: 1.0000, step time: 0.3681
Batch 199/248, train_loss: 0.9752, step time: 0.3537
Batch 200/248, train_loss: 0.9713, step time: 0.3849
Batch 201/248, train_loss: 0.9290, step time: 0.3605
Batch 202/248, train_loss: 0.9827, step time: 0.3854
Batch 203/248, train_loss: 0.9986, step time: 0.3657
Batch 204/248, train_loss: 0.8447, step time: 0.3508
Batch 205/248, train_loss: 0.9932, step time: 0.3543
Batch 206/248, train_loss: 0.9997, step time: 0.3724
Batch 207/248, train_loss: 0.9240, step time: 0.3900
Batch 208/248, train_loss: 0.9731, step time: 0.3563
Batch 209/248, train_loss: 0.9606, step time: 0.3477
Batch 210/248, train_loss: 0.9241, step time: 0.3892
Batch 211/248, train_loss: 0.9158, step time: 0.3839
Batch 212/248, train_loss: 0.9885, step time: 0.3767
Batch 213/248, train_loss: 0.9871, step time: 0.3458
Batch 214/248, train_loss: 0.9498, step time: 0.3913
Batch 215/248, train_loss: 0.9916, step time: 0.3618
Batch 216/248, train_loss: 0.9200, step time: 0.3503
Batch 217/248, train_loss: 0.9954, step time: 0.3856
Batch 218/248, train_loss: 0.9994, step time: 0.3701
Batch 219/248, train_loss: 0.9524, step time: 0.3900
Batch 220/248, train_loss: 0.9913, step time: 0.3844
Batch 221/248, train_loss: 0.9887, step time: 0.3488
Batch 222/248, train_loss: 0.9288, step time: 0.3544
Batch 223/248, train_loss: 0.8663, step time: 0.3864
Batch 224/248, train_loss: 0.9108, step time: 0.3724
Batch 225/248, train_loss: 0.9995, step time: 0.3727
Batch 226/248, train_loss: 0.9949, step time: 0.3883
Batch 227/248, train_loss: 0.9517, step time: 0.3784
Batch 228/248, train_loss: 0.9899, step time: 0.3906
Batch 229/248, train_loss: 0.8471, step time: 0.3819
Batch 230/248, train_loss: 0.9561, step time: 0.3929
Batch 231/248, train_loss: 0.9989, step time: 0.3833
Batch 232/248, train_loss: 0.9510, step time: 0.3836
Batch 233/248, train_loss: 0.9999, step time: 0.3485
Batch 234/248, train_loss: 0.9974, step time: 0.3873
Batch 235/248, train_loss: 0.9979, step time: 0.3499
Batch 236/248, train_loss: 0.9991, step time: 0.3773
Batch 237/248, train_loss: 0.8725, step time: 0.3798
Batch 238/248, train_loss: 0.9365, step time: 0.3873
Batch 239/248, train_loss: 0.5806, step time: 0.3508
Batch 240/248, train_loss: 0.9842, step time: 0.3579
Batch 241/248, train_loss: 0.9998, step time: 0.3477
Batch 242/248, train_loss: 0.9938, step time: 0.3813
Batch 243/248, train_loss: 0.9990, step time: 0.3748
Batch 244/248, train_loss: 0.9982, step time: 0.3469
Batch 245/248, train_loss: 0.9214, step time: 0.3672
Batch 246/248, train_loss: 0.9976, step time: 0.3591
Batch 247/248, train_loss: 0.7248, step time: 0.3642

Batch 248/248, train_loss: 1.0000, step time: 0.3831

Labels



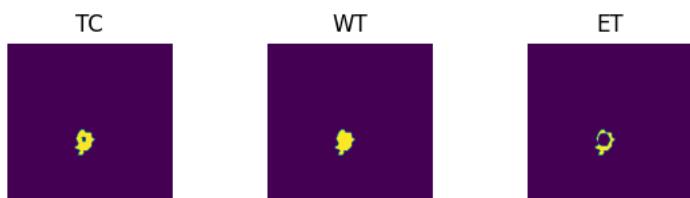
Predictions



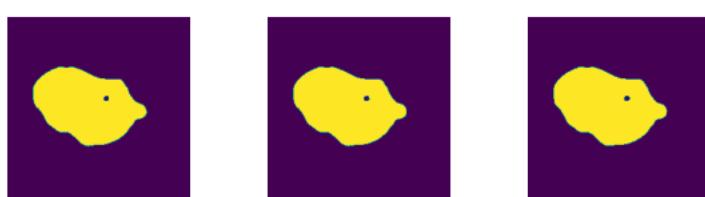
VAL

Batch 1/31, val_loss: 0.9772
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9941
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8695
Batch 7/31, val_loss: 0.9695
Batch 8/31, val_loss: 0.9974
Batch 9/31, val_loss: 0.9046
Batch 10/31, val_loss: 0.9963
Batch 11/31, val_loss: 0.9855
Batch 12/31, val_loss: 0.9984
Batch 13/31, val_loss: 0.9974
Batch 14/31, val_loss: 0.9976
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9993
Batch 17/31, val_loss: 0.9997
Batch 18/31, val_loss: 0.9972
Batch 19/31, val_loss: 0.9558
Batch 20/31, val_loss: 0.9798
Batch 21/31, val_loss: 0.9928
Batch 22/31, val_loss: 0.9994
Batch 23/31, val_loss: 0.9996
Batch 24/31, val_loss: 0.8795
Batch 25/31, val_loss: 0.9692
Batch 26/31, val_loss: 0.9954
Batch 27/31, val_loss: 0.9998
Batch 28/31, val_loss: 0.9506
Batch 29/31, val_loss: 0.9999
Batch 30/31, val_loss: 0.9995
Batch 31/31, val_loss: 0.9991

Labels



Predictions



epoch 11

average train loss: 0.9502
average validation loss: 0.9808
saved as best model: False
current mean dice: 0.0648
current TC dice: 0.0678

current WT dice: 0.0687
current ET dice: 0.0641
Best Mean Metric: 0.0885
time consuming of epoch 11 is: 1467.9688

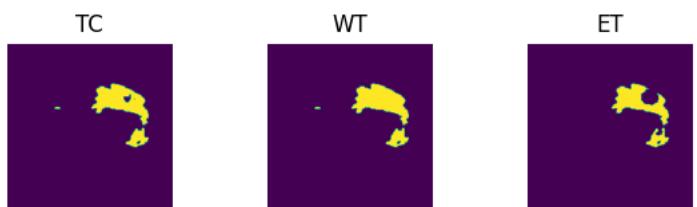
epoch 12/100
TRAIN
Batch 1/248, train_loss: 0.8309, step time: 0.3734
Batch 2/248, train_loss: 0.9997, step time: 0.3537
Batch 3/248, train_loss: 0.9970, step time: 0.3596
Batch 4/248, train_loss: 0.9998, step time: 0.3505
Batch 5/248, train_loss: 0.9840, step time: 0.3721
Batch 6/248, train_loss: 0.9819, step time: 0.3461
Batch 7/248, train_loss: 0.7382, step time: 0.3470
Batch 8/248, train_loss: 0.9491, step time: 0.3779
Batch 9/248, train_loss: 0.8528, step time: 0.3825
Batch 10/248, train_loss: 0.9936, step time: 0.3748
Batch 11/248, train_loss: 0.9852, step time: 0.3580
Batch 12/248, train_loss: 0.9994, step time: 0.3459
Batch 13/248, train_loss: 0.9955, step time: 0.3670
Batch 14/248, train_loss: 0.7091, step time: 0.3638
Batch 15/248, train_loss: 0.9926, step time: 0.3731
Batch 16/248, train_loss: 0.9827, step time: 0.3431
Batch 17/248, train_loss: 0.9992, step time: 0.3782
Batch 18/248, train_loss: 0.9979, step time: 0.3873
Batch 19/248, train_loss: 0.8521, step time: 0.3913
Batch 20/248, train_loss: 0.9779, step time: 0.3561
Batch 21/248, train_loss: 0.9338, step time: 0.3504
Batch 22/248, train_loss: 1.0000, step time: 0.3484
Batch 23/248, train_loss: 0.9998, step time: 0.3783
Batch 24/248, train_loss: 0.9463, step time: 0.3460
Batch 25/248, train_loss: 0.6722, step time: 0.3682
Batch 26/248, train_loss: 0.9986, step time: 0.3509
Batch 27/248, train_loss: 0.8366, step time: 0.3902
Batch 28/248, train_loss: 0.9814, step time: 0.3762
Batch 29/248, train_loss: 0.9992, step time: 0.3691
Batch 30/248, train_loss: 0.9941, step time: 0.3769
Batch 31/248, train_loss: 0.9918, step time: 0.3892
Batch 32/248, train_loss: 0.9321, step time: 0.3784
Batch 33/248, train_loss: 0.8265, step time: 0.3587
Batch 34/248, train_loss: 0.8836, step time: 0.3535
Batch 35/248, train_loss: 0.9461, step time: 0.3515
Batch 36/248, train_loss: 0.9999, step time: 0.3718
Batch 37/248, train_loss: 0.9526, step time: 0.3480
Batch 38/248, train_loss: 0.9907, step time: 0.3522
Batch 39/248, train_loss: 0.9610, step time: 0.3465
Batch 40/248, train_loss: 0.9999, step time: 0.3654
Batch 41/248, train_loss: 0.9107, step time: 0.3920
Batch 42/248, train_loss: 0.9163, step time: 0.3509
Batch 43/248, train_loss: 0.8661, step time: 0.3751
Batch 44/248, train_loss: 0.9556, step time: 0.3887
Batch 45/248, train_loss: 0.9902, step time: 0.3552
Batch 46/248, train_loss: 0.9649, step time: 0.3549
Batch 47/248, train_loss: 0.9789, step time: 0.3623
Batch 48/248, train_loss: 0.9655, step time: 0.3853
Batch 49/248, train_loss: 0.9981, step time: 0.3742
Batch 50/248, train_loss: 0.9829, step time: 0.3602
Batch 51/248, train_loss: 0.9777, step time: 0.3516
Batch 52/248, train_loss: 0.9677, step time: 0.3485
Batch 53/248, train_loss: 0.9902, step time: 0.3473
Batch 54/248, train_loss: 0.9765, step time: 0.3855
Batch 55/248, train_loss: 0.9932, step time: 0.3610
Batch 56/248, train_loss: 0.9782, step time: 0.3895
Batch 57/248, train_loss: 0.9828, step time: 0.3483
Batch 58/248, train_loss: 0.9236, step time: 0.3789
Batch 59/248, train_loss: 0.9403, step time: 0.3657
Batch 60/248, train_loss: 0.9203, step time: 0.3483
Batch 61/248, train_loss: 0.9444, step time: 0.3691
Batch 62/248, train_loss: 0.9941, step time: 0.3879
Batch 63/248, train_loss: 0.9985, step time: 0.3571
Batch 64/248, train_loss: 0.9975, step time: 0.3879
Batch 65/248, train_loss: 0.9899, step time: 0.3834
Batch 66/248, train_loss: 0.9825, step time: 0.3483
Batch 67/248, train_loss: 0.8126, step time: 0.3894
Batch 68/248, train_loss: 0.8976, step time: 0.3812
Batch 69/248, train_loss: 0.9996, step time: 0.3841
Batch 70/248, train_loss: 0.9294, step time: 0.3471
Batch 71/248, train_loss: 0.8827, step time: 0.3628
Batch 72/248, train_loss: 0.8961, step time: 0.3958
Batch 73/248, train_loss: 0.9097, step time: 0.3917
Batch 74/248, train_loss: 0.9999, step time: 0.3460
Batch 75/248, train_loss: 0.9146, step time: 0.3887
Batch 76/248, train_loss: 0.9985, step time: 0.3659
Batch 77/248, train_loss: 0.9996, step time: 0.3665

Batch 78/248, train_loss: 0.9600, step time: 0.3641
Batch 79/248, train_loss: 0.9778, step time: 0.3522
Batch 80/248, train_loss: 0.9861, step time: 0.3642
Batch 81/248, train_loss: 0.9911, step time: 0.3456
Batch 82/248, train_loss: 0.9150, step time: 0.3877
Batch 83/248, train_loss: 0.9980, step time: 0.3565
Batch 84/248, train_loss: 0.9789, step time: 0.3664
Batch 85/248, train_loss: 0.9992, step time: 0.3466
Batch 86/248, train_loss: 0.9273, step time: 0.3681
Batch 87/248, train_loss: 0.9953, step time: 0.3671
Batch 88/248, train_loss: 0.9967, step time: 0.3456
Batch 89/248, train_loss: 0.7733, step time: 0.3697
Batch 90/248, train_loss: 0.9776, step time: 0.3489
Batch 91/248, train_loss: 0.9988, step time: 0.3876
Batch 92/248, train_loss: 0.9710, step time: 0.3645
Batch 93/248, train_loss: 0.9027, step time: 0.3473
Batch 94/248, train_loss: 0.9989, step time: 0.3841
Batch 95/248, train_loss: 0.9527, step time: 0.3877
Batch 96/248, train_loss: 0.9472, step time: 0.3469
Batch 97/248, train_loss: 1.0000, step time: 0.3704
Batch 98/248, train_loss: 0.8817, step time: 0.3610
Batch 99/248, train_loss: 0.9970, step time: 0.3879
Batch 100/248, train_loss: 0.9993, step time: 0.3789
Batch 101/248, train_loss: 0.7286, step time: 0.3545
Batch 102/248, train_loss: 0.9704, step time: 0.3889
Batch 103/248, train_loss: 0.9982, step time: 0.3518
Batch 104/248, train_loss: 0.9533, step time: 0.3714
Batch 105/248, train_loss: 0.8733, step time: 0.3760
Batch 106/248, train_loss: 0.9830, step time: 0.3886
Batch 107/248, train_loss: 0.9964, step time: 0.3891
Batch 108/248, train_loss: 0.9980, step time: 0.3458
Batch 109/248, train_loss: 0.9997, step time: 0.3699
Batch 110/248, train_loss: 0.9880, step time: 0.3737
Batch 111/248, train_loss: 0.8743, step time: 0.3626
Batch 112/248, train_loss: 0.8863, step time: 0.3461
Batch 113/248, train_loss: 0.9999, step time: 0.3476
Batch 114/248, train_loss: 0.7715, step time: 0.3454
Batch 115/248, train_loss: 0.9643, step time: 0.3704
Batch 116/248, train_loss: 0.8706, step time: 0.3632
Batch 117/248, train_loss: 0.9991, step time: 0.3605
Batch 118/248, train_loss: 0.9963, step time: 0.3460
Batch 119/248, train_loss: 0.9679, step time: 0.3551
Batch 120/248, train_loss: 0.9694, step time: 0.3436
Batch 121/248, train_loss: 0.9921, step time: 0.3458
Batch 122/248, train_loss: 0.9951, step time: 0.3862
Batch 123/248, train_loss: 0.9269, step time: 0.3854
Batch 124/248, train_loss: 0.9959, step time: 0.3761
Batch 125/248, train_loss: 0.9991, step time: 0.3844
Batch 126/248, train_loss: 0.8558, step time: 0.3475
Batch 127/248, train_loss: 0.9720, step time: 0.3886
Batch 128/248, train_loss: 0.9866, step time: 0.3629
Batch 129/248, train_loss: 0.8131, step time: 0.3722
Batch 130/248, train_loss: 0.8143, step time: 0.3886
Batch 131/248, train_loss: 0.9956, step time: 0.3639
Batch 132/248, train_loss: 0.9961, step time: 0.3794
Batch 133/248, train_loss: 0.6688, step time: 0.3471
Batch 134/248, train_loss: 1.0000, step time: 0.3456
Batch 135/248, train_loss: 0.9986, step time: 0.3882
Batch 136/248, train_loss: 0.9844, step time: 0.3860
Batch 137/248, train_loss: 0.8269, step time: 0.3883
Batch 138/248, train_loss: 0.8686, step time: 0.3863
Batch 139/248, train_loss: 0.8727, step time: 0.3767
Batch 140/248, train_loss: 0.9823, step time: 0.3448
Batch 141/248, train_loss: 0.9196, step time: 0.3857
Batch 142/248, train_loss: 0.9991, step time: 0.3505
Batch 143/248, train_loss: 0.9841, step time: 0.3826
Batch 144/248, train_loss: 0.8656, step time: 0.3490
Batch 145/248, train_loss: 0.6935, step time: 0.3734
Batch 146/248, train_loss: 0.9997, step time: 0.3682
Batch 147/248, train_loss: 0.6767, step time: 0.3744
Batch 148/248, train_loss: 0.9952, step time: 0.3803
Batch 149/248, train_loss: 0.9650, step time: 0.3463
Batch 150/248, train_loss: 0.9144, step time: 0.3885
Batch 151/248, train_loss: 0.9947, step time: 0.3471
Batch 152/248, train_loss: 0.7184, step time: 0.3664
Batch 153/248, train_loss: 0.9943, step time: 0.3493
Batch 154/248, train_loss: 0.9987, step time: 0.3853
Batch 155/248, train_loss: 0.9651, step time: 0.3643
Batch 156/248, train_loss: 0.9676, step time: 0.3633
Batch 157/248, train_loss: 0.8704, step time: 0.3818
Batch 158/248, train_loss: 0.9996, step time: 0.3805
Batch 159/248, train_loss: 0.9997, step time: 0.3458
Batch 160/248, train_loss: 0.9206, step time: 0.3474
Batch 161/248, train_loss: 0.9688, step time: 0.3883
Batch 162/248, train_loss: 0.6465, step time: 0.3451

Batch 163/248, train_loss: 0.9969, step time: 0.3789
Batch 164/248, train_loss: 0.9687, step time: 0.3547
Batch 165/248, train_loss: 0.9996, step time: 0.3565
Batch 166/248, train_loss: 0.9933, step time: 0.3452
Batch 167/248, train_loss: 0.9700, step time: 0.3670
Batch 168/248, train_loss: 0.9697, step time: 0.3876
Batch 169/248, train_loss: 0.9353, step time: 0.3579
Batch 170/248, train_loss: 0.9970, step time: 0.3673
Batch 171/248, train_loss: 0.7570, step time: 0.3668
Batch 172/248, train_loss: 0.9998, step time: 0.3557
Batch 173/248, train_loss: 0.8689, step time: 0.3457
Batch 174/248, train_loss: 0.9999, step time: 0.3808
Batch 175/248, train_loss: 0.7913, step time: 0.3801
Batch 176/248, train_loss: 0.9826, step time: 0.3821
Batch 177/248, train_loss: 0.9994, step time: 0.3834
Batch 178/248, train_loss: 0.9114, step time: 0.3658
Batch 179/248, train_loss: 0.5910, step time: 0.3825
Batch 180/248, train_loss: 0.9679, step time: 0.3602
Batch 181/248, train_loss: 0.8466, step time: 0.3862
Batch 182/248, train_loss: 0.9937, step time: 0.3447
Batch 183/248, train_loss: 0.9669, step time: 0.3889
Batch 184/248, train_loss: 0.9936, step time: 0.3713
Batch 185/248, train_loss: 0.9682, step time: 0.3520
Batch 186/248, train_loss: 0.9308, step time: 0.3443
Batch 187/248, train_loss: 0.9320, step time: 0.3686
Batch 188/248, train_loss: 0.9687, step time: 0.3763
Batch 189/248, train_loss: 0.9999, step time: 0.3632
Batch 190/248, train_loss: 0.9373, step time: 0.3657
Batch 191/248, train_loss: 0.9997, step time: 0.3885
Batch 192/248, train_loss: 0.9178, step time: 0.3464
Batch 193/248, train_loss: 0.9838, step time: 0.3593
Batch 194/248, train_loss: 0.9817, step time: 0.3527
Batch 195/248, train_loss: 0.9996, step time: 0.3759
Batch 196/248, train_loss: 1.0000, step time: 0.3509
Batch 197/248, train_loss: 0.9904, step time: 0.3575
Batch 198/248, train_loss: 0.9999, step time: 0.3871
Batch 199/248, train_loss: 0.9705, step time: 0.3823
Batch 200/248, train_loss: 0.9666, step time: 0.3756
Batch 201/248, train_loss: 0.9170, step time: 0.3850
Batch 202/248, train_loss: 0.9802, step time: 0.3674
Batch 203/248, train_loss: 0.9985, step time: 0.3672
Batch 204/248, train_loss: 0.8174, step time: 0.3574
Batch 205/248, train_loss: 0.9924, step time: 0.3910
Batch 206/248, train_loss: 0.9996, step time: 0.3439
Batch 207/248, train_loss: 0.9093, step time: 0.3458
Batch 208/248, train_loss: 0.9674, step time: 0.3479
Batch 209/248, train_loss: 0.9523, step time: 0.3782
Batch 210/248, train_loss: 0.9076, step time: 0.3497
Batch 211/248, train_loss: 0.8993, step time: 0.3756
Batch 212/248, train_loss: 0.9863, step time: 0.3637
Batch 213/248, train_loss: 0.9847, step time: 0.3596
Batch 214/248, train_loss: 0.9408, step time: 0.3487
Batch 215/248, train_loss: 0.9891, step time: 0.3577
Batch 216/248, train_loss: 0.9053, step time: 0.3598
Batch 217/248, train_loss: 0.9941, step time: 0.3540
Batch 218/248, train_loss: 0.9993, step time: 0.3703
Batch 219/248, train_loss: 0.9434, step time: 0.3437
Batch 220/248, train_loss: 0.9896, step time: 0.3647
Batch 221/248, train_loss: 0.9868, step time: 0.3776
Batch 222/248, train_loss: 0.9159, step time: 0.3780
Batch 223/248, train_loss: 0.8428, step time: 0.3626
Batch 224/248, train_loss: 0.8952, step time: 0.3530
Batch 225/248, train_loss: 0.9991, step time: 0.3908
Batch 226/248, train_loss: 0.9941, step time: 0.3414
Batch 227/248, train_loss: 0.9445, step time: 0.3576
Batch 228/248, train_loss: 0.9887, step time: 0.3690
Batch 229/248, train_loss: 0.8255, step time: 0.3760
Batch 230/248, train_loss: 0.9503, step time: 0.3654
Batch 231/248, train_loss: 0.9987, step time: 0.3551
Batch 232/248, train_loss: 0.9425, step time: 0.3492
Batch 233/248, train_loss: 0.9999, step time: 0.3681
Batch 234/248, train_loss: 0.9975, step time: 0.3463
Batch 235/248, train_loss: 0.9978, step time: 0.3651
Batch 236/248, train_loss: 0.9991, step time: 0.3479
Batch 237/248, train_loss: 0.8629, step time: 0.3605
Batch 238/248, train_loss: 0.9349, step time: 0.3585
Batch 239/248, train_loss: 0.5326, step time: 0.3822
Batch 240/248, train_loss: 0.9820, step time: 0.3494
Batch 241/248, train_loss: 0.9998, step time: 0.3569
Batch 242/248, train_loss: 0.9930, step time: 0.3654
Batch 243/248, train_loss: 0.9989, step time: 0.3837
Batch 244/248, train_loss: 0.9981, step time: 0.3677
Batch 245/248, train_loss: 0.9162, step time: 0.3447
Batch 246/248, train_loss: 0.9976, step time: 0.3490
Batch 247/248, train_loss: 0.7029, step time: 0.3671

Batch 248/248, train_loss: 1.0000, step time: 0.3586

Labels



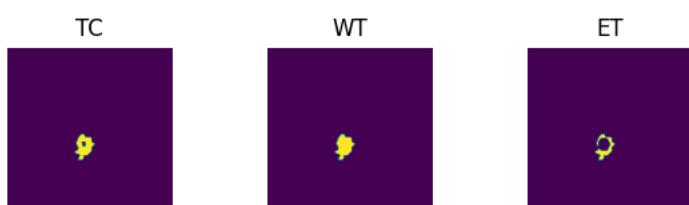
Predictions



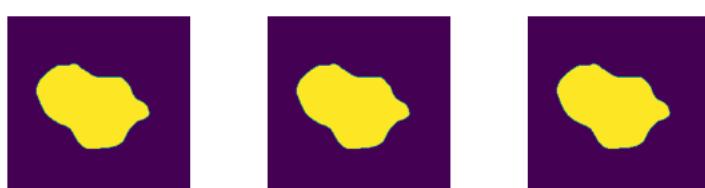
VAL

Batch 1/31, val_loss: 0.9773
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9933
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8656
Batch 7/31, val_loss: 0.9712
Batch 8/31, val_loss: 0.9974
Batch 9/31, val_loss: 0.9067
Batch 10/31, val_loss: 0.9965
Batch 11/31, val_loss: 0.9860
Batch 12/31, val_loss: 0.9988
Batch 13/31, val_loss: 0.9976
Batch 14/31, val_loss: 0.9980
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9994
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9978
Batch 19/31, val_loss: 0.9543
Batch 20/31, val_loss: 0.9773
Batch 21/31, val_loss: 0.9927
Batch 22/31, val_loss: 0.9993
Batch 23/31, val_loss: 0.9995
Batch 24/31, val_loss: 0.8711
Batch 25/31, val_loss: 0.9671
Batch 26/31, val_loss: 0.9954
Batch 27/31, val_loss: 0.9997
Batch 28/31, val_loss: 0.9557
Batch 29/31, val_loss: 0.9999
Batch 30/31, val_loss: 0.9995
Batch 31/31, val_loss: 0.9991

Labels



Predictions



epoch 12

average train loss: 0.9428
average validation loss: 0.9805
saved as best model: False
current mean dice: 0.0642

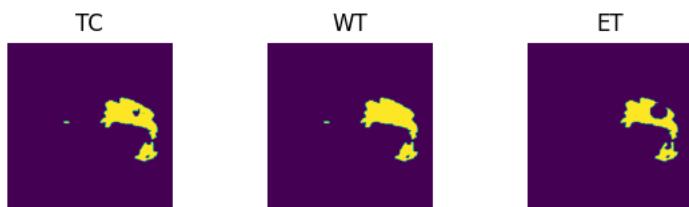
```
current TC dice: 0.0671
current WT dice: 0.0680
current ET dice: 0.0635
Best Mean Metric: 0.0885
time consuming of epoch 12 is: 1451.8650
-----
epoch 13/100
TRAIN
Batch 1/248, train_loss: 0.8161, step time: 0.3839
Batch 2/248, train_loss: 0.9997, step time: 0.3692
Batch 3/248, train_loss: 0.9967, step time: 0.3611
Batch 4/248, train_loss: 0.9998, step time: 0.3526
Batch 5/248, train_loss: 0.9822, step time: 0.3449
Batch 6/248, train_loss: 0.9800, step time: 0.3593
Batch 7/248, train_loss: 0.7131, step time: 0.3782
Batch 8/248, train_loss: 0.9444, step time: 0.3743
Batch 9/248, train_loss: 0.8519, step time: 0.3738
Batch 10/248, train_loss: 0.9930, step time: 0.3605
Batch 11/248, train_loss: 0.9834, step time: 0.3869
Batch 12/248, train_loss: 0.9994, step time: 0.3577
Batch 13/248, train_loss: 0.9947, step time: 0.3483
Batch 14/248, train_loss: 0.6657, step time: 0.3455
Batch 15/248, train_loss: 0.9913, step time: 0.3848
Batch 16/248, train_loss: 0.9799, step time: 0.3580
Batch 17/248, train_loss: 0.9995, step time: 0.3484
Batch 18/248, train_loss: 0.9979, step time: 0.3495
Batch 19/248, train_loss: 0.8330, step time: 0.3658
Batch 20/248, train_loss: 0.9752, step time: 0.3665
Batch 21/248, train_loss: 0.9251, step time: 0.3796
Batch 22/248, train_loss: 1.0000, step time: 0.3448
Batch 23/248, train_loss: 0.9997, step time: 0.3727
Batch 24/248, train_loss: 0.9390, step time: 0.3872
Batch 25/248, train_loss: 0.6330, step time: 0.3581
Batch 26/248, train_loss: 0.9981, step time: 0.3478
Batch 27/248, train_loss: 0.8212, step time: 0.3463
Batch 28/248, train_loss: 0.9778, step time: 0.3733
Batch 29/248, train_loss: 0.9990, step time: 0.3818
Batch 30/248, train_loss: 0.9958, step time: 0.3659
Batch 31/248, train_loss: 0.9911, step time: 0.3868
Batch 32/248, train_loss: 0.9232, step time: 0.3531
Batch 33/248, train_loss: 0.8019, step time: 0.3699
Batch 34/248, train_loss: 0.8695, step time: 0.3459
Batch 35/248, train_loss: 0.9389, step time: 0.3882
Batch 36/248, train_loss: 0.9999, step time: 0.3633
Batch 37/248, train_loss: 0.9471, step time: 0.3443
Batch 38/248, train_loss: 0.9902, step time: 0.3442
Batch 39/248, train_loss: 0.9517, step time: 0.3686
Batch 40/248, train_loss: 0.9999, step time: 0.3835
Batch 41/248, train_loss: 0.9002, step time: 0.3771
Batch 42/248, train_loss: 0.9045, step time: 0.3810
Batch 43/248, train_loss: 0.8467, step time: 0.3424
Batch 44/248, train_loss: 0.9641, step time: 0.3713
Batch 45/248, train_loss: 0.9907, step time: 0.3425
Batch 46/248, train_loss: 0.9592, step time: 0.3441
Batch 47/248, train_loss: 0.9757, step time: 0.3726
Batch 48/248, train_loss: 0.9617, step time: 0.3846
Batch 49/248, train_loss: 0.9976, step time: 0.3898
Batch 50/248, train_loss: 0.9799, step time: 0.3677
Batch 51/248, train_loss: 0.9746, step time: 0.3818
Batch 52/248, train_loss: 0.9636, step time: 0.3512
Batch 53/248, train_loss: 0.9892, step time: 0.3506
Batch 54/248, train_loss: 0.9730, step time: 0.3477
Batch 55/248, train_loss: 0.9921, step time: 0.3421
Batch 56/248, train_loss: 0.9747, step time: 0.3461
Batch 57/248, train_loss: 0.9806, step time: 0.3643
Batch 58/248, train_loss: 0.9133, step time: 0.3821
Batch 59/248, train_loss: 0.9316, step time: 0.3849
Batch 60/248, train_loss: 0.9096, step time: 0.3789
Batch 61/248, train_loss: 0.9369, step time: 0.3820
Batch 62/248, train_loss: 0.9932, step time: 0.3445
Batch 63/248, train_loss: 0.9983, step time: 0.3753
Batch 64/248, train_loss: 0.9971, step time: 0.3692
Batch 65/248, train_loss: 0.9821, step time: 0.3430
Batch 66/248, train_loss: 0.9801, step time: 0.3452
Batch 67/248, train_loss: 0.7850, step time: 0.3443
Batch 68/248, train_loss: 0.8848, step time: 0.3728
Batch 69/248, train_loss: 0.9995, step time: 0.3686
Batch 70/248, train_loss: 0.9191, step time: 0.3546
Batch 71/248, train_loss: 0.8638, step time: 0.3755
Batch 72/248, train_loss: 0.8846, step time: 0.3491
Batch 73/248, train_loss: 0.8975, step time: 0.3595
Batch 74/248, train_loss: 0.9999, step time: 0.3792
Batch 75/248, train_loss: 0.9022, step time: 0.3440
Batch 76/248, train_loss: 0.9983, step time: 0.3846
Batch 77/248, train_loss: 0.9996, step time: 0.3453
```

Batch 78/248, train_loss: 0.9556, step time: 0.3892
Batch 79/248, train_loss: 0.9758, step time: 0.3794
Batch 80/248, train_loss: 0.9843, step time: 0.3767
Batch 81/248, train_loss: 0.9902, step time: 0.3827
Batch 82/248, train_loss: 0.9022, step time: 0.3791
Batch 83/248, train_loss: 0.9977, step time: 0.3425
Batch 84/248, train_loss: 0.9753, step time: 0.3826
Batch 85/248, train_loss: 0.9988, step time: 0.3440
Batch 86/248, train_loss: 0.9169, step time: 0.3760
Batch 87/248, train_loss: 0.9948, step time: 0.3641
Batch 88/248, train_loss: 0.9962, step time: 0.3607
Batch 89/248, train_loss: 0.7448, step time: 0.3801
Batch 90/248, train_loss: 0.9749, step time: 0.3439
Batch 91/248, train_loss: 0.9986, step time: 0.3542
Batch 92/248, train_loss: 0.9664, step time: 0.3742
Batch 93/248, train_loss: 0.8882, step time: 0.3438
Batch 94/248, train_loss: 0.9987, step time: 0.3840
Batch 95/248, train_loss: 0.9463, step time: 0.3449
Batch 96/248, train_loss: 0.9412, step time: 0.3425
Batch 97/248, train_loss: 1.0000, step time: 0.3713
Batch 98/248, train_loss: 0.8690, step time: 0.3597
Batch 99/248, train_loss: 0.9960, step time: 0.3645
Batch 100/248, train_loss: 0.9992, step time: 0.3856
Batch 101/248, train_loss: 0.6935, step time: 0.3735
Batch 102/248, train_loss: 0.9658, step time: 0.3812
Batch 103/248, train_loss: 0.9980, step time: 0.3759
Batch 104/248, train_loss: 0.9470, step time: 0.3854
Batch 105/248, train_loss: 0.8584, step time: 0.3847
Batch 106/248, train_loss: 0.9804, step time: 0.3866
Batch 107/248, train_loss: 0.9959, step time: 0.3477
Batch 108/248, train_loss: 0.9977, step time: 0.3522
Batch 109/248, train_loss: 0.9997, step time: 0.3750
Batch 110/248, train_loss: 0.9871, step time: 0.3458
Batch 111/248, train_loss: 0.8557, step time: 0.3441
Batch 112/248, train_loss: 0.8698, step time: 0.3698
Batch 113/248, train_loss: 0.9999, step time: 0.3582
Batch 114/248, train_loss: 0.7505, step time: 0.3826
Batch 115/248, train_loss: 0.9591, step time: 0.3717
Batch 116/248, train_loss: 0.8500, step time: 0.3570
Batch 117/248, train_loss: 0.9989, step time: 0.3866
Batch 118/248, train_loss: 0.9960, step time: 0.3665
Batch 119/248, train_loss: 0.9630, step time: 0.3454
Batch 120/248, train_loss: 0.9643, step time: 0.3621
Batch 121/248, train_loss: 0.9911, step time: 0.3469
Batch 122/248, train_loss: 0.9947, step time: 0.3501
Batch 123/248, train_loss: 0.9196, step time: 0.3470
Batch 124/248, train_loss: 0.9951, step time: 0.3465
Batch 125/248, train_loss: 0.9994, step time: 0.3855
Batch 126/248, train_loss: 0.8392, step time: 0.3863
Batch 127/248, train_loss: 0.9678, step time: 0.3491
Batch 128/248, train_loss: 0.9848, step time: 0.3861
Batch 129/248, train_loss: 0.7869, step time: 0.3852
Batch 130/248, train_loss: 0.7895, step time: 0.3865
Batch 131/248, train_loss: 0.9951, step time: 0.3480
Batch 132/248, train_loss: 0.9955, step time: 0.3638
Batch 133/248, train_loss: 0.6293, step time: 0.3604
Batch 134/248, train_loss: 1.0000, step time: 0.3785
Batch 135/248, train_loss: 0.9990, step time: 0.3623
Batch 136/248, train_loss: 0.9821, step time: 0.3523
Batch 137/248, train_loss: 0.8047, step time: 0.3821
Batch 138/248, train_loss: 0.8493, step time: 0.3869
Batch 139/248, train_loss: 0.8570, step time: 0.3765
Batch 140/248, train_loss: 0.9795, step time: 0.3854
Batch 141/248, train_loss: 0.9080, step time: 0.3849
Batch 142/248, train_loss: 0.9994, step time: 0.3545
Batch 143/248, train_loss: 0.9818, step time: 0.3714
Batch 144/248, train_loss: 0.8464, step time: 0.3423
Batch 145/248, train_loss: 0.6531, step time: 0.3743
Batch 146/248, train_loss: 0.9997, step time: 0.3471
Batch 147/248, train_loss: 0.6354, step time: 0.3695
Batch 148/248, train_loss: 0.9953, step time: 0.3486
Batch 149/248, train_loss: 0.9598, step time: 0.3488
Batch 150/248, train_loss: 0.8994, step time: 0.3786
Batch 151/248, train_loss: 0.9943, step time: 0.3441
Batch 152/248, train_loss: 0.6764, step time: 0.3818
Batch 153/248, train_loss: 0.9933, step time: 0.3857
Batch 154/248, train_loss: 0.9985, step time: 0.3581
Batch 155/248, train_loss: 0.9603, step time: 0.3493
Batch 156/248, train_loss: 0.9646, step time: 0.3504
Batch 157/248, train_loss: 0.8524, step time: 0.3873
Batch 158/248, train_loss: 0.9996, step time: 0.3447
Batch 159/248, train_loss: 0.9998, step time: 0.3488
Batch 160/248, train_loss: 0.9096, step time: 0.3546
Batch 161/248, train_loss: 0.9623, step time: 0.3503
Batch 162/248, train_loss: 0.6069, step time: 0.3460

Batch 163/248, train_loss: 0.9965, step time: 0.3444
Batch 164/248, train_loss: 0.9637, step time: 0.3603
Batch 165/248, train_loss: 0.9997, step time: 0.3804
Batch 166/248, train_loss: 0.9919, step time: 0.3508
Batch 167/248, train_loss: 0.9644, step time: 0.3812
Batch 168/248, train_loss: 0.9638, step time: 0.3555
Batch 169/248, train_loss: 0.9260, step time: 0.3484
Batch 170/248, train_loss: 0.9969, step time: 0.3723
Batch 171/248, train_loss: 0.7315, step time: 0.3765
Batch 172/248, train_loss: 0.9998, step time: 0.3423
Batch 173/248, train_loss: 0.8497, step time: 0.3626
Batch 174/248, train_loss: 0.9999, step time: 0.3694
Batch 175/248, train_loss: 0.7610, step time: 0.3848
Batch 176/248, train_loss: 0.9802, step time: 0.3441
Batch 177/248, train_loss: 0.9993, step time: 0.3478
Batch 178/248, train_loss: 0.9005, step time: 0.3594
Batch 179/248, train_loss: 0.5522, step time: 0.3832
Batch 180/248, train_loss: 0.9642, step time: 0.3439
Batch 181/248, train_loss: 0.8273, step time: 0.3788
Batch 182/248, train_loss: 0.9929, step time: 0.3751
Batch 183/248, train_loss: 0.9623, step time: 0.3722
Batch 184/248, train_loss: 0.9928, step time: 0.3725
Batch 185/248, train_loss: 0.9656, step time: 0.3729
Batch 186/248, train_loss: 0.9260, step time: 0.3721
Batch 187/248, train_loss: 0.9234, step time: 0.3434
Batch 188/248, train_loss: 0.9641, step time: 0.3851
Batch 189/248, train_loss: 0.9999, step time: 0.3579
Batch 190/248, train_loss: 0.9288, step time: 0.3554
Batch 191/248, train_loss: 0.9995, step time: 0.3467
Batch 192/248, train_loss: 0.9061, step time: 0.3458
Batch 193/248, train_loss: 0.9820, step time: 0.3727
Batch 194/248, train_loss: 0.9797, step time: 0.3787
Batch 195/248, train_loss: 0.9996, step time: 0.3574
Batch 196/248, train_loss: 1.0000, step time: 0.3601
Batch 197/248, train_loss: 0.9890, step time: 0.3513
Batch 198/248, train_loss: 0.9999, step time: 0.3743
Batch 199/248, train_loss: 0.9673, step time: 0.3610
Batch 200/248, train_loss: 0.9623, step time: 0.3450
Batch 201/248, train_loss: 0.9083, step time: 0.3679
Batch 202/248, train_loss: 0.9777, step time: 0.3421
Batch 203/248, train_loss: 0.9984, step time: 0.3627
Batch 204/248, train_loss: 0.7882, step time: 0.3475
Batch 205/248, train_loss: 0.9920, step time: 0.3535
Batch 206/248, train_loss: 0.9995, step time: 0.3685
Batch 207/248, train_loss: 0.8950, step time: 0.3482
Batch 208/248, train_loss: 0.9624, step time: 0.3478
Batch 209/248, train_loss: 0.9437, step time: 0.3732
Batch 210/248, train_loss: 0.8954, step time: 0.3646
Batch 211/248, train_loss: 0.8848, step time: 0.3652
Batch 212/248, train_loss: 0.9842, step time: 0.3647
Batch 213/248, train_loss: 0.9825, step time: 0.3699
Batch 214/248, train_loss: 0.9318, step time: 0.3475
Batch 215/248, train_loss: 0.9871, step time: 0.3858
Batch 216/248, train_loss: 0.8927, step time: 0.3412
Batch 217/248, train_loss: 0.9932, step time: 0.3535
Batch 218/248, train_loss: 0.9991, step time: 0.3576
Batch 219/248, train_loss: 0.9344, step time: 0.3675
Batch 220/248, train_loss: 0.9879, step time: 0.3890
Batch 221/248, train_loss: 0.9851, step time: 0.3801
Batch 222/248, train_loss: 0.9016, step time: 0.3622
Batch 223/248, train_loss: 0.8216, step time: 0.3661
Batch 224/248, train_loss: 0.8805, step time: 0.3656
Batch 225/248, train_loss: 0.9989, step time: 0.3589
Batch 226/248, train_loss: 0.9931, step time: 0.3445
Batch 227/248, train_loss: 0.9329, step time: 0.3474
Batch 228/248, train_loss: 0.9862, step time: 0.3863
Batch 229/248, train_loss: 0.8009, step time: 0.3618
Batch 230/248, train_loss: 0.9428, step time: 0.3544
Batch 231/248, train_loss: 0.9985, step time: 0.3775
Batch 232/248, train_loss: 0.9336, step time: 0.3814
Batch 233/248, train_loss: 0.9999, step time: 0.3585
Batch 234/248, train_loss: 0.9979, step time: 0.3788
Batch 235/248, train_loss: 0.9975, step time: 0.3797
Batch 236/248, train_loss: 0.9993, step time: 0.3808
Batch 237/248, train_loss: 0.8344, step time: 0.3760
Batch 238/248, train_loss: 0.9228, step time: 0.3550
Batch 239/248, train_loss: 0.4784, step time: 0.3693
Batch 240/248, train_loss: 0.9797, step time: 0.3836
Batch 241/248, train_loss: 0.9998, step time: 0.3423
Batch 242/248, train_loss: 0.9917, step time: 0.3853
Batch 243/248, train_loss: 0.9987, step time: 0.3445
Batch 244/248, train_loss: 0.9977, step time: 0.3819
Batch 245/248, train_loss: 0.8927, step time: 0.3722
Batch 246/248, train_loss: 0.9973, step time: 0.3523
Batch 247/248, train_loss: 0.6515, step time: 0.3472

Batch 247/248, train_loss: 1.0000, step time: 0.3594

Labels



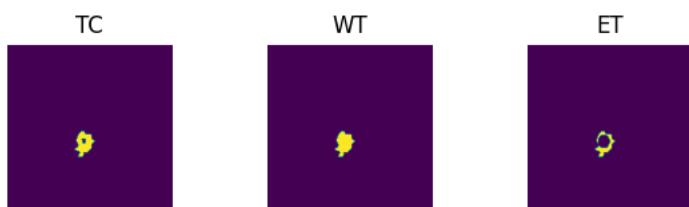
Predictions



VAL

Batch 1/31, val_loss: 0.9631
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9998
Batch 4/31, val_loss: 0.9932
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8463
Batch 7/31, val_loss: 0.9646
Batch 8/31, val_loss: 0.9962
Batch 9/31, val_loss: 0.8959
Batch 10/31, val_loss: 0.9950
Batch 11/31, val_loss: 0.9811
Batch 12/31, val_loss: 0.9982
Batch 13/31, val_loss: 0.9965
Batch 14/31, val_loss: 0.9972
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9992
Batch 17/31, val_loss: 0.9997
Batch 18/31, val_loss: 0.9969
Batch 19/31, val_loss: 0.9455
Batch 20/31, val_loss: 0.9761
Batch 21/31, val_loss: 0.9915
Batch 22/31, val_loss: 0.9994
Batch 23/31, val_loss: 0.9993
Batch 24/31, val_loss: 0.8605
Batch 25/31, val_loss: 0.9615
Batch 26/31, val_loss: 0.9939
Batch 27/31, val_loss: 0.9997
Batch 28/31, val_loss: 0.9477
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9994
Batch 31/31, val_loss: 0.9988

Labels



Predictions



epoch 13

average train loss: 0.9353
average validation loss: 0.9773
saved as best model: False
current mean dice: 0.0794

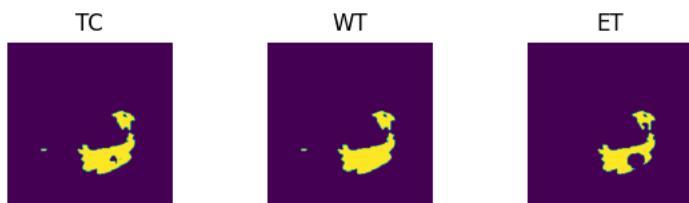
```
current TC dice: 0.0831
current WT dice: 0.0842
current ET dice: 0.0785
Best Mean Metric: 0.0885
time consuming of epoch 13 is: 1460.6230
-----
epoch 14/100
TRAIN
Batch 1/248, train_loss: 0.7784, step time: 0.3837
Batch 2/248, train_loss: 0.9997, step time: 0.3607
Batch 3/248, train_loss: 0.9962, step time: 0.3577
Batch 4/248, train_loss: 0.9998, step time: 0.3528
Batch 5/248, train_loss: 0.9797, step time: 0.3448
Batch 6/248, train_loss: 0.9759, step time: 0.3759
Batch 7/248, train_loss: 0.6664, step time: 0.3728
Batch 8/248, train_loss: 0.9354, step time: 0.3806
Batch 9/248, train_loss: 0.8143, step time: 0.3536
Batch 10/248, train_loss: 0.9916, step time: 0.3736
Batch 11/248, train_loss: 0.9804, step time: 0.3747
Batch 12/248, train_loss: 0.9993, step time: 0.3803
Batch 13/248, train_loss: 0.9941, step time: 0.3450
Batch 14/248, train_loss: 0.6179, step time: 0.3474
Batch 15/248, train_loss: 0.9901, step time: 0.3483
Batch 16/248, train_loss: 0.9766, step time: 0.3634
Batch 17/248, train_loss: 0.9991, step time: 0.3674
Batch 18/248, train_loss: 0.9973, step time: 0.3476
Batch 19/248, train_loss: 0.8107, step time: 0.3578
Batch 20/248, train_loss: 0.9710, step time: 0.3651
Batch 21/248, train_loss: 0.9123, step time: 0.3712
Batch 22/248, train_loss: 1.0000, step time: 0.3757
Batch 23/248, train_loss: 0.9998, step time: 0.3440
Batch 24/248, train_loss: 0.9294, step time: 0.3460
Batch 25/248, train_loss: 0.5847, step time: 0.3703
Batch 26/248, train_loss: 0.9978, step time: 0.3916
Batch 27/248, train_loss: 0.7930, step time: 0.3497
Batch 28/248, train_loss: 0.9745, step time: 0.3899
Batch 29/248, train_loss: 0.9989, step time: 0.3763
Batch 30/248, train_loss: 0.9946, step time: 0.3722
Batch 31/248, train_loss: 0.9895, step time: 0.3475
Batch 32/248, train_loss: 0.9103, step time: 0.3828
Batch 33/248, train_loss: 0.7723, step time: 0.3643
Batch 34/248, train_loss: 0.8463, step time: 0.3483
Batch 35/248, train_loss: 0.9286, step time: 0.3881
Batch 36/248, train_loss: 0.9999, step time: 0.3511
Batch 37/248, train_loss: 0.9379, step time: 0.3877
Batch 38/248, train_loss: 0.9885, step time: 0.3877
Batch 39/248, train_loss: 0.9443, step time: 0.3819
Batch 40/248, train_loss: 0.9999, step time: 0.3594
Batch 41/248, train_loss: 0.8847, step time: 0.3865
Batch 42/248, train_loss: 0.8900, step time: 0.3494
Batch 43/248, train_loss: 0.8215, step time: 0.3493
Batch 44/248, train_loss: 0.9558, step time: 0.3488
Batch 45/248, train_loss: 0.9881, step time: 0.3840
Batch 46/248, train_loss: 0.9538, step time: 0.3847
Batch 47/248, train_loss: 0.9727, step time: 0.3536
Batch 48/248, train_loss: 0.9553, step time: 0.3606
Batch 49/248, train_loss: 0.9973, step time: 0.3459
Batch 50/248, train_loss: 0.9768, step time: 0.3627
Batch 51/248, train_loss: 0.9708, step time: 0.3723
Batch 52/248, train_loss: 0.9575, step time: 0.3584
Batch 53/248, train_loss: 0.9880, step time: 0.3428
Batch 54/248, train_loss: 0.9688, step time: 0.3440
Batch 55/248, train_loss: 0.9913, step time: 0.3453
Batch 56/248, train_loss: 0.9709, step time: 0.3617
Batch 57/248, train_loss: 0.9770, step time: 0.3665
Batch 58/248, train_loss: 0.8996, step time: 0.3479
Batch 59/248, train_loss: 0.9207, step time: 0.3793
Batch 60/248, train_loss: 0.8949, step time: 0.3415
Batch 61/248, train_loss: 0.9260, step time: 0.3845
Batch 62/248, train_loss: 0.9923, step time: 0.3873
Batch 63/248, train_loss: 0.9980, step time: 0.3712
Batch 64/248, train_loss: 0.9966, step time: 0.3449
Batch 65/248, train_loss: 0.9792, step time: 0.3443
Batch 66/248, train_loss: 0.9775, step time: 0.3778
Batch 67/248, train_loss: 0.7548, step time: 0.3731
Batch 68/248, train_loss: 0.8682, step time: 0.3441
Batch 69/248, train_loss: 0.9995, step time: 0.3826
Batch 70/248, train_loss: 0.9049, step time: 0.3742
Batch 71/248, train_loss: 0.8461, step time: 0.3635
Batch 72/248, train_loss: 0.8650, step time: 0.3737
Batch 73/248, train_loss: 0.8814, step time: 0.3637
Batch 74/248, train_loss: 0.9999, step time: 0.3755
Batch 75/248, train_loss: 0.8890, step time: 0.3507
Batch 76/248, train_loss: 0.9987, step time: 0.3600
Batch 77/248, train_loss: 0.9995, step time: 0.3668
```

Batch 77/248, train_loss: 0.9999, step time: 0.3500
Batch 78/248, train_loss: 0.9487, step time: 0.3629
Batch 79/248, train_loss: 0.9717, step time: 0.3847
Batch 80/248, train_loss: 0.9821, step time: 0.3833
Batch 81/248, train_loss: 0.9889, step time: 0.3646
Batch 82/248, train_loss: 0.8885, step time: 0.3472
Batch 83/248, train_loss: 0.9976, step time: 0.3508
Batch 84/248, train_loss: 0.9723, step time: 0.3809
Batch 85/248, train_loss: 0.9985, step time: 0.3619
Batch 86/248, train_loss: 0.9056, step time: 0.3817
Batch 87/248, train_loss: 0.9938, step time: 0.3451
Batch 88/248, train_loss: 0.9961, step time: 0.3449
Batch 89/248, train_loss: 0.7099, step time: 0.3466
Batch 90/248, train_loss: 0.9709, step time: 0.3416
Batch 91/248, train_loss: 0.9984, step time: 0.3605
Batch 92/248, train_loss: 0.9623, step time: 0.3433
Batch 93/248, train_loss: 0.8765, step time: 0.3502
Batch 94/248, train_loss: 0.9985, step time: 0.3855
Batch 95/248, train_loss: 0.9420, step time: 0.3747
Batch 96/248, train_loss: 0.9315, step time: 0.3834
Batch 97/248, train_loss: 1.0000, step time: 0.3866
Batch 98/248, train_loss: 0.8525, step time: 0.3547
Batch 99/248, train_loss: 0.9964, step time: 0.3527
Batch 100/248, train_loss: 0.9992, step time: 0.3684
Batch 101/248, train_loss: 0.6545, step time: 0.3707
Batch 102/248, train_loss: 0.9610, step time: 0.3837
Batch 103/248, train_loss: 0.9980, step time: 0.3826
Batch 104/248, train_loss: 0.9401, step time: 0.3587
Batch 105/248, train_loss: 0.8374, step time: 0.3854
Batch 106/248, train_loss: 0.9775, step time: 0.3775
Batch 107/248, train_loss: 0.9953, step time: 0.3619
Batch 108/248, train_loss: 0.9973, step time: 0.3545
Batch 109/248, train_loss: 0.9997, step time: 0.3775
Batch 110/248, train_loss: 0.9843, step time: 0.3402
Batch 111/248, train_loss: 0.8354, step time: 0.3475
Batch 112/248, train_loss: 0.8553, step time: 0.3534
Batch 113/248, train_loss: 0.9999, step time: 0.3514
Batch 114/248, train_loss: 0.7134, step time: 0.3707
Batch 115/248, train_loss: 0.9524, step time: 0.3822
Batch 116/248, train_loss: 0.8299, step time: 0.3751
Batch 117/248, train_loss: 0.9987, step time: 0.3408
Batch 118/248, train_loss: 0.9958, step time: 0.3545
Batch 119/248, train_loss: 0.9603, step time: 0.3763
Batch 120/248, train_loss: 0.9598, step time: 0.3669
Batch 121/248, train_loss: 0.9896, step time: 0.3836
Batch 122/248, train_loss: 0.9936, step time: 0.3705
Batch 123/248, train_loss: 0.9052, step time: 0.3659
Batch 124/248, train_loss: 0.9944, step time: 0.3668
Batch 125/248, train_loss: 0.9991, step time: 0.3634
Batch 126/248, train_loss: 0.8178, step time: 0.3443
Batch 127/248, train_loss: 0.9628, step time: 0.3439
Batch 128/248, train_loss: 0.9825, step time: 0.3420
Batch 129/248, train_loss: 0.7591, step time: 0.3765
Batch 130/248, train_loss: 0.7604, step time: 0.3768
Batch 131/248, train_loss: 0.9938, step time: 0.3672
Batch 132/248, train_loss: 0.9948, step time: 0.3576
Batch 133/248, train_loss: 0.5897, step time: 0.3411
Batch 134/248, train_loss: 1.0000, step time: 0.3643
Batch 135/248, train_loss: 0.9975, step time: 0.3494
Batch 136/248, train_loss: 0.9794, step time: 0.3451
Batch 137/248, train_loss: 0.7771, step time: 0.3420
Batch 138/248, train_loss: 0.8293, step time: 0.3818
Batch 139/248, train_loss: 0.8399, step time: 0.3441
Batch 140/248, train_loss: 0.9767, step time: 0.3775
Batch 141/248, train_loss: 0.8955, step time: 0.3632
Batch 142/248, train_loss: 0.9987, step time: 0.3682
Batch 143/248, train_loss: 0.9792, step time: 0.3712
Batch 144/248, train_loss: 0.8322, step time: 0.3818
Batch 145/248, train_loss: 0.6099, step time: 0.3733
Batch 146/248, train_loss: 0.9997, step time: 0.3863
Batch 147/248, train_loss: 0.5916, step time: 0.3655
Batch 148/248, train_loss: 0.9945, step time: 0.3586
Batch 149/248, train_loss: 0.9550, step time: 0.3527
Batch 150/248, train_loss: 0.8909, step time: 0.3684
Batch 151/248, train_loss: 0.9932, step time: 0.3454
Batch 152/248, train_loss: 0.6371, step time: 0.3822
Batch 153/248, train_loss: 0.9922, step time: 0.3487
Batch 154/248, train_loss: 0.9983, step time: 0.3575
Batch 155/248, train_loss: 0.9541, step time: 0.3468
Batch 156/248, train_loss: 0.9583, step time: 0.3860
Batch 157/248, train_loss: 0.8322, step time: 0.3517
Batch 158/248, train_loss: 0.9996, step time: 0.3846
Batch 159/248, train_loss: 0.9998, step time: 0.3460
Batch 160/248, train_loss: 0.8954, step time: 0.3439
Batch 161/248, train_loss: 0.9571, step time: 0.3853

Batch 162/248, train_loss: 0.5568, step time: 0.3429
Batch 163/248, train_loss: 0.9960, step time: 0.3548
Batch 164/248, train_loss: 0.9583, step time: 0.3503
Batch 165/248, train_loss: 0.9996, step time: 0.3636
Batch 166/248, train_loss: 0.9908, step time: 0.3524
Batch 167/248, train_loss: 0.9589, step time: 0.3713
Batch 168/248, train_loss: 0.9573, step time: 0.3815
Batch 169/248, train_loss: 0.9069, step time: 0.3678
Batch 170/248, train_loss: 0.9964, step time: 0.3453
Batch 171/248, train_loss: 0.6951, step time: 0.3689
Batch 172/248, train_loss: 0.9999, step time: 0.3561
Batch 173/248, train_loss: 0.8307, step time: 0.3413
Batch 174/248, train_loss: 0.9977, step time: 0.3401
Batch 175/248, train_loss: 0.7243, step time: 0.3564
Batch 176/248, train_loss: 0.9764, step time: 0.3462
Batch 177/248, train_loss: 0.9997, step time: 0.3508
Batch 178/248, train_loss: 0.8877, step time: 0.3655
Batch 179/248, train_loss: 0.5003, step time: 0.3736
Batch 180/248, train_loss: 0.9609, step time: 0.3453
Batch 181/248, train_loss: 0.8070, step time: 0.3442
Batch 182/248, train_loss: 0.9918, step time: 0.3476
Batch 183/248, train_loss: 0.9554, step time: 0.3491
Batch 184/248, train_loss: 0.9917, step time: 0.3458
Batch 185/248, train_loss: 0.9574, step time: 0.3843
Batch 186/248, train_loss: 0.9073, step time: 0.3457
Batch 187/248, train_loss: 0.9127, step time: 0.3853
Batch 188/248, train_loss: 0.9606, step time: 0.3850
Batch 189/248, train_loss: 0.9999, step time: 0.3477
Batch 190/248, train_loss: 0.9192, step time: 0.3432
Batch 191/248, train_loss: 0.9996, step time: 0.3624
Batch 192/248, train_loss: 0.8942, step time: 0.3732
Batch 193/248, train_loss: 0.9778, step time: 0.3750
Batch 194/248, train_loss: 0.9749, step time: 0.3546
Batch 195/248, train_loss: 0.9997, step time: 0.3731
Batch 196/248, train_loss: 1.0000, step time: 0.3683
Batch 197/248, train_loss: 0.9865, step time: 0.3679
Batch 198/248, train_loss: 1.0000, step time: 0.3751
Batch 199/248, train_loss: 0.9619, step time: 0.3852
Batch 200/248, train_loss: 0.9571, step time: 0.3832
Batch 201/248, train_loss: 0.8941, step time: 0.3570
Batch 202/248, train_loss: 0.9745, step time: 0.3676
Batch 203/248, train_loss: 0.9980, step time: 0.3686
Batch 204/248, train_loss: 0.7568, step time: 0.3738
Batch 205/248, train_loss: 0.9907, step time: 0.3694
Batch 206/248, train_loss: 0.9995, step time: 0.3456
Batch 207/248, train_loss: 0.8834, step time: 0.3546
Batch 208/248, train_loss: 0.9589, step time: 0.3489
Batch 209/248, train_loss: 0.9390, step time: 0.3597
Batch 210/248, train_loss: 0.8780, step time: 0.3683
Batch 211/248, train_loss: 0.8714, step time: 0.3700
Batch 212/248, train_loss: 0.9819, step time: 0.3467
Batch 213/248, train_loss: 0.9797, step time: 0.3805
Batch 214/248, train_loss: 0.9227, step time: 0.3427
Batch 215/248, train_loss: 0.9870, step time: 0.3491
Batch 216/248, train_loss: 0.8774, step time: 0.3415
Batch 217/248, train_loss: 0.9949, step time: 0.3873
Batch 218/248, train_loss: 0.9992, step time: 0.3653
Batch 219/248, train_loss: 0.9294, step time: 0.3666
Batch 220/248, train_loss: 0.9863, step time: 0.3674
Batch 221/248, train_loss: 0.9831, step time: 0.3855
Batch 222/248, train_loss: 0.8891, step time: 0.3411
Batch 223/248, train_loss: 0.7931, step time: 0.3672
Batch 224/248, train_loss: 0.8654, step time: 0.3506
Batch 225/248, train_loss: 0.9986, step time: 0.3642
Batch 226/248, train_loss: 0.9923, step time: 0.3639
Batch 227/248, train_loss: 0.9238, step time: 0.3698
Batch 228/248, train_loss: 0.9849, step time: 0.3491
Batch 229/248, train_loss: 0.7765, step time: 0.3478
Batch 230/248, train_loss: 0.9368, step time: 0.3763
Batch 231/248, train_loss: 0.9984, step time: 0.3456
Batch 232/248, train_loss: 0.9266, step time: 0.3488
Batch 233/248, train_loss: 0.9999, step time: 0.3612
Batch 234/248, train_loss: 0.9980, step time: 0.3503
Batch 235/248, train_loss: 0.9970, step time: 0.3864
Batch 236/248, train_loss: 0.9990, step time: 0.3688
Batch 237/248, train_loss: 0.8107, step time: 0.3624
Batch 238/248, train_loss: 0.9076, step time: 0.3808
Batch 239/248, train_loss: 0.4284, step time: 0.3918
Batch 240/248, train_loss: 0.9773, step time: 0.3789
Batch 241/248, train_loss: 0.9998, step time: 0.3665
Batch 242/248, train_loss: 0.9910, step time: 0.3513
Batch 243/248, train_loss: 0.9994, step time: 0.3755
Batch 244/248, train_loss: 0.9974, step time: 0.3634
Batch 245/248, train_loss: 0.8782, step time: 0.3629
Batch 246/248, train_loss: 0.9966, step time: 0.3464

Batch 247/248, train_loss: 0.6142, step time: 0.3603
Batch 248/248, train_loss: 1.0000, step time: 0.3460

Labels



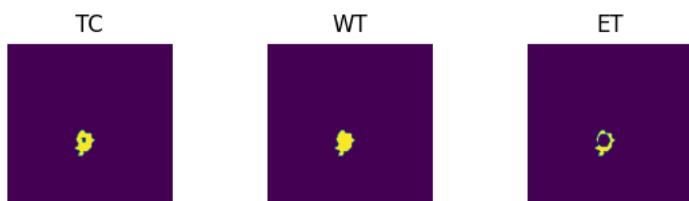
Predictions



VAL

Batch 1/31, val_loss: 0.9475
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9996
Batch 4/31, val_loss: 0.9932
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8331
Batch 7/31, val_loss: 0.9621
Batch 8/31, val_loss: 0.9962
Batch 9/31, val_loss: 0.8908
Batch 10/31, val_loss: 0.9953
Batch 11/31, val_loss: 0.9788
Batch 12/31, val_loss: 0.9972
Batch 13/31, val_loss: 0.9948
Batch 14/31, val_loss: 0.9960
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9991
Batch 17/31, val_loss: 0.9996
Batch 18/31, val_loss: 0.9948
Batch 19/31, val_loss: 0.9408
Batch 20/31, val_loss: 0.9735
Batch 21/31, val_loss: 0.9906
Batch 22/31, val_loss: 0.9991
Batch 23/31, val_loss: 0.9992
Batch 24/31, val_loss: 0.8525
Batch 25/31, val_loss: 0.9575
Batch 26/31, val_loss: 0.9933
Batch 27/31, val_loss: 0.9998
Batch 28/31, val_loss: 0.9421
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9993
Batch 31/31, val_loss: 0.9987

Labels



Predictions



epoch 14

average train loss: 0.9264
average validation loss: 0.9750
saved as best model: True
current_mean_dice: 0.9991

current mean dice: 0.0051
current TC dice: 0.0931
current WT dice: 0.0945
current ET dice: 0.0881
Best Mean Metric: 0.0891
time consuming of epoch 14 is: 1468.7716

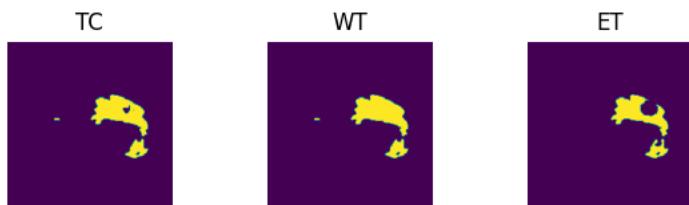
epoch 15/100
TRAIN
Batch 1/248, train_loss: 0.7531, step time: 0.3478
Batch 2/248, train_loss: 0.9997, step time: 0.3667
Batch 3/248, train_loss: 0.9955, step time: 0.3543
Batch 4/248, train_loss: 0.9998, step time: 0.3451
Batch 5/248, train_loss: 0.9766, step time: 0.3546
Batch 6/248, train_loss: 0.9734, step time: 0.3671
Batch 7/248, train_loss: 0.6326, step time: 0.3506
Batch 8/248, train_loss: 0.9290, step time: 0.3775
Batch 9/248, train_loss: 0.7839, step time: 0.3760
Batch 10/248, train_loss: 0.9905, step time: 0.3416
Batch 11/248, train_loss: 0.9780, step time: 0.3839
Batch 12/248, train_loss: 0.9992, step time: 0.3733
Batch 13/248, train_loss: 0.9938, step time: 0.3478
Batch 14/248, train_loss: 0.5758, step time: 0.3810
Batch 15/248, train_loss: 0.9886, step time: 0.3477
Batch 16/248, train_loss: 0.9741, step time: 0.3690
Batch 17/248, train_loss: 0.9993, step time: 0.3484
Batch 18/248, train_loss: 0.9967, step time: 0.3528
Batch 19/248, train_loss: 0.7848, step time: 0.3788
Batch 20/248, train_loss: 0.9670, step time: 0.3509
Batch 21/248, train_loss: 0.9010, step time: 0.3805
Batch 22/248, train_loss: 0.9999, step time: 0.3651
Batch 23/248, train_loss: 0.9998, step time: 0.3488
Batch 24/248, train_loss: 0.9202, step time: 0.3562
Batch 25/248, train_loss: 0.5415, step time: 0.3425
Batch 26/248, train_loss: 0.9973, step time: 0.3562
Batch 27/248, train_loss: 0.7652, step time: 0.3808
Batch 28/248, train_loss: 0.9714, step time: 0.3743
Batch 29/248, train_loss: 0.9987, step time: 0.3515
Batch 30/248, train_loss: 0.9714, step time: 0.3438
Batch 31/248, train_loss: 0.9884, step time: 0.3493
Batch 32/248, train_loss: 0.8982, step time: 0.3704
Batch 33/248, train_loss: 0.7440, step time: 0.3531
Batch 34/248, train_loss: 0.8287, step time: 0.3725
Batch 35/248, train_loss: 0.9190, step time: 0.3445
Batch 36/248, train_loss: 0.9998, step time: 0.3460
Batch 37/248, train_loss: 0.9287, step time: 0.3451
Batch 38/248, train_loss: 0.9868, step time: 0.3847
Batch 39/248, train_loss: 0.9374, step time: 0.3857
Batch 40/248, train_loss: 0.9998, step time: 0.3546
Batch 41/248, train_loss: 0.8683, step time: 0.3480
Batch 42/248, train_loss: 0.8757, step time: 0.3497
Batch 43/248, train_loss: 0.8017, step time: 0.3835
Batch 44/248, train_loss: 0.9417, step time: 0.3773
Batch 45/248, train_loss: 0.9868, step time: 0.3801
Batch 46/248, train_loss: 0.9491, step time: 0.3819
Batch 47/248, train_loss: 0.9690, step time: 0.3523
Batch 48/248, train_loss: 0.9493, step time: 0.3396
Batch 49/248, train_loss: 0.9965, step time: 0.3405
Batch 50/248, train_loss: 0.9740, step time: 0.3488
Batch 51/248, train_loss: 0.9681, step time: 0.3520
Batch 52/248, train_loss: 0.9521, step time: 0.3424
Batch 53/248, train_loss: 0.9863, step time: 0.3770
Batch 54/248, train_loss: 0.9653, step time: 0.3603
Batch 55/248, train_loss: 0.9897, step time: 0.3473
Batch 56/248, train_loss: 0.9663, step time: 0.3695
Batch 57/248, train_loss: 0.9747, step time: 0.3783
Batch 58/248, train_loss: 0.8884, step time: 0.3706
Batch 59/248, train_loss: 0.9106, step time: 0.3611
Batch 60/248, train_loss: 0.8818, step time: 0.3892
Batch 61/248, train_loss: 0.9168, step time: 0.3614
Batch 62/248, train_loss: 0.9914, step time: 0.3777
Batch 63/248, train_loss: 0.9980, step time: 0.3422
Batch 64/248, train_loss: 0.9962, step time: 0.3701
Batch 65/248, train_loss: 0.9731, step time: 0.3728
Batch 66/248, train_loss: 0.9744, step time: 0.3712
Batch 67/248, train_loss: 0.7277, step time: 0.3787
Batch 68/248, train_loss: 0.8506, step time: 0.3493
Batch 69/248, train_loss: 0.9994, step time: 0.3648
Batch 70/248, train_loss: 0.8932, step time: 0.3663
Batch 71/248, train_loss: 0.8264, step time: 0.3422
Batch 72/248, train_loss: 0.8473, step time: 0.3424
Batch 73/248, train_loss: 0.8625, step time: 0.3784
Batch 74/248, train_loss: 0.9999, step time: 0.3628
Batch 75/248, train_loss: 0.8735, step time: 0.3764
Batch 76/248, train_loss: 0.9983, step time: 0.3495

Batch 77/248, train_loss: 0.9995, step time: 0.3824
Batch 78/248, train_loss: 0.9398, step time: 0.3484
Batch 79/248, train_loss: 0.9669, step time: 0.3807
Batch 80/248, train_loss: 0.9815, step time: 0.3828
Batch 81/248, train_loss: 0.9867, step time: 0.3833
Batch 82/248, train_loss: 0.8732, step time: 0.3770
Batch 83/248, train_loss: 0.9975, step time: 0.3539
Batch 84/248, train_loss: 0.9677, step time: 0.3532
Batch 85/248, train_loss: 0.9983, step time: 0.3529
Batch 86/248, train_loss: 0.8973, step time: 0.3553
Batch 87/248, train_loss: 0.9933, step time: 0.3529
Batch 88/248, train_loss: 0.9962, step time: 0.3555
Batch 89/248, train_loss: 0.6715, step time: 0.3815
Batch 90/248, train_loss: 0.9688, step time: 0.3766
Batch 91/248, train_loss: 0.9982, step time: 0.3448
Batch 92/248, train_loss: 0.9578, step time: 0.3473
Batch 93/248, train_loss: 0.8565, step time: 0.3830
Batch 94/248, train_loss: 0.9983, step time: 0.3735
Batch 95/248, train_loss: 0.9342, step time: 0.3613
Batch 96/248, train_loss: 0.9233, step time: 0.3400
Batch 97/248, train_loss: 1.0000, step time: 0.3681
Batch 98/248, train_loss: 0.8340, step time: 0.3684
Batch 99/248, train_loss: 0.9945, step time: 0.3812
Batch 100/248, train_loss: 0.9990, step time: 0.3866
Batch 101/248, train_loss: 0.6163, step time: 0.3476
Batch 102/248, train_loss: 0.9576, step time: 0.3402
Batch 103/248, train_loss: 0.9977, step time: 0.3423
Batch 104/248, train_loss: 0.9334, step time: 0.3688
Batch 105/248, train_loss: 0.8156, step time: 0.3703
Batch 106/248, train_loss: 0.9744, step time: 0.3445
Batch 107/248, train_loss: 0.9947, step time: 0.3820
Batch 108/248, train_loss: 0.9970, step time: 0.3814
Batch 109/248, train_loss: 0.9996, step time: 0.3428
Batch 110/248, train_loss: 0.9825, step time: 0.3724
Batch 111/248, train_loss: 0.8151, step time: 0.3450
Batch 112/248, train_loss: 0.8335, step time: 0.3708
Batch 113/248, train_loss: 0.9999, step time: 0.3663
Batch 114/248, train_loss: 0.6863, step time: 0.3617
Batch 115/248, train_loss: 0.9466, step time: 0.3606
Batch 116/248, train_loss: 0.8090, step time: 0.3523
Batch 117/248, train_loss: 0.9987, step time: 0.3638
Batch 118/248, train_loss: 0.9952, step time: 0.3661
Batch 119/248, train_loss: 0.9524, step time: 0.3409
Batch 120/248, train_loss: 0.9539, step time: 0.3675
Batch 121/248, train_loss: 0.9881, step time: 0.3723
Batch 122/248, train_loss: 0.9925, step time: 0.3698
Batch 123/248, train_loss: 0.8932, step time: 0.3860
Batch 124/248, train_loss: 0.9935, step time: 0.3605
Batch 125/248, train_loss: 0.9990, step time: 0.3783
Batch 126/248, train_loss: 0.8022, step time: 0.3575
Batch 127/248, train_loss: 0.9579, step time: 0.3714
Batch 128/248, train_loss: 0.9800, step time: 0.3486
Batch 129/248, train_loss: 0.7287, step time: 0.3728
Batch 130/248, train_loss: 0.7425, step time: 0.3515
Batch 131/248, train_loss: 0.9930, step time: 0.3711
Batch 132/248, train_loss: 0.9942, step time: 0.3712
Batch 133/248, train_loss: 0.5510, step time: 0.3568
Batch 134/248, train_loss: 1.0000, step time: 0.3695
Batch 135/248, train_loss: 0.9968, step time: 0.3472
Batch 136/248, train_loss: 0.9776, step time: 0.3489
Batch 137/248, train_loss: 0.7504, step time: 0.3623
Batch 138/248, train_loss: 0.8108, step time: 0.3598
Batch 139/248, train_loss: 0.8231, step time: 0.3825
Batch 140/248, train_loss: 0.9742, step time: 0.3434
Batch 141/248, train_loss: 0.8850, step time: 0.3435
Batch 142/248, train_loss: 0.9991, step time: 0.3703
Batch 143/248, train_loss: 0.9774, step time: 0.3623
Batch 144/248, train_loss: 0.8106, step time: 0.3758
Batch 145/248, train_loss: 0.5712, step time: 0.3572
Batch 146/248, train_loss: 0.9997, step time: 0.3615
Batch 147/248, train_loss: 0.5511, step time: 0.3578
Batch 148/248, train_loss: 0.9943, step time: 0.3561
Batch 149/248, train_loss: 0.9510, step time: 0.3422
Batch 150/248, train_loss: 0.8768, step time: 0.3586
Batch 151/248, train_loss: 0.9923, step time: 0.3477
Batch 152/248, train_loss: 0.5953, step time: 0.3526
Batch 153/248, train_loss: 0.9912, step time: 0.3632
Batch 154/248, train_loss: 0.9981, step time: 0.3401
Batch 155/248, train_loss: 0.9479, step time: 0.3498
Batch 156/248, train_loss: 0.9521, step time: 0.3538
Batch 157/248, train_loss: 0.8168, step time: 0.3646
Batch 158/248, train_loss: 0.9997, step time: 0.3698
Batch 159/248, train_loss: 0.9997, step time: 0.3442
Batch 160/248, train_loss: 0.8829, step time: 0.3435
Batch 161/248, train_loss: 0.9552, step time: 0.3585

Batch 162/248, train_loss: 0.5158, step time: 0.3786
Batch 163/248, train_loss: 0.9955, step time: 0.3458
Batch 164/248, train_loss: 0.9524, step time: 0.3528
Batch 165/248, train_loss: 0.9996, step time: 0.3414
Batch 166/248, train_loss: 0.9896, step time: 0.3568
Batch 167/248, train_loss: 0.9535, step time: 0.3843
Batch 168/248, train_loss: 0.9525, step time: 0.3806
Batch 169/248, train_loss: 0.8955, step time: 0.3616
Batch 170/248, train_loss: 0.9962, step time: 0.3551
Batch 171/248, train_loss: 0.6623, step time: 0.3790
Batch 172/248, train_loss: 0.9998, step time: 0.3794
Batch 173/248, train_loss: 0.8124, step time: 0.3743
Batch 174/248, train_loss: 0.9974, step time: 0.3769
Batch 175/248, train_loss: 0.6920, step time: 0.3776
Batch 176/248, train_loss: 0.9731, step time: 0.3826
Batch 177/248, train_loss: 0.9994, step time: 0.3466
Batch 178/248, train_loss: 0.8725, step time: 0.3799
Batch 179/248, train_loss: 0.4607, step time: 0.3680
Batch 180/248, train_loss: 0.9542, step time: 0.3764
Batch 181/248, train_loss: 0.7798, step time: 0.3751
Batch 182/248, train_loss: 0.9904, step time: 0.3422
Batch 183/248, train_loss: 0.9502, step time: 0.3823
Batch 184/248, train_loss: 0.9906, step time: 0.3798
Batch 185/248, train_loss: 0.9535, step time: 0.3789
Batch 186/248, train_loss: 0.9002, step time: 0.3452
Batch 187/248, train_loss: 0.9022, step time: 0.3641
Batch 188/248, train_loss: 0.9551, step time: 0.3512
Batch 189/248, train_loss: 0.9999, step time: 0.3607
Batch 190/248, train_loss: 0.9092, step time: 0.3458
Batch 191/248, train_loss: 0.9996, step time: 0.3481
Batch 192/248, train_loss: 0.8880, step time: 0.3639
Batch 193/248, train_loss: 0.9770, step time: 0.3616
Batch 194/248, train_loss: 0.9732, step time: 0.3570
Batch 195/248, train_loss: 0.9996, step time: 0.3421
Batch 196/248, train_loss: 1.0000, step time: 0.3842
Batch 197/248, train_loss: 0.9860, step time: 0.3457
Batch 198/248, train_loss: 1.0000, step time: 0.3748
Batch 199/248, train_loss: 0.9581, step time: 0.3623
Batch 200/248, train_loss: 0.9499, step time: 0.3511
Batch 201/248, train_loss: 0.8786, step time: 0.3719
Batch 202/248, train_loss: 0.9731, step time: 0.3808
Batch 203/248, train_loss: 0.9980, step time: 0.3516
Batch 204/248, train_loss: 0.7281, step time: 0.3744
Batch 205/248, train_loss: 0.9900, step time: 0.3430
Batch 206/248, train_loss: 0.9994, step time: 0.3549
Batch 207/248, train_loss: 0.8635, step time: 0.3483
Batch 208/248, train_loss: 0.9522, step time: 0.3838
Batch 209/248, train_loss: 0.9270, step time: 0.3774
Batch 210/248, train_loss: 0.8614, step time: 0.3524
Batch 211/248, train_loss: 0.8537, step time: 0.3684
Batch 212/248, train_loss: 0.9793, step time: 0.3837
Batch 213/248, train_loss: 0.9770, step time: 0.3432
Batch 214/248, train_loss: 0.9119, step time: 0.3783
Batch 215/248, train_loss: 0.9865, step time: 0.3706
Batch 216/248, train_loss: 0.8669, step time: 0.3840
Batch 217/248, train_loss: 0.9947, step time: 0.3650
Batch 218/248, train_loss: 0.9990, step time: 0.3494
Batch 219/248, train_loss: 0.9165, step time: 0.3527
Batch 220/248, train_loss: 0.9843, step time: 0.3467
Batch 221/248, train_loss: 0.9799, step time: 0.3419
Batch 222/248, train_loss: 0.8756, step time: 0.3426
Batch 223/248, train_loss: 0.7692, step time: 0.3750
Batch 224/248, train_loss: 0.8482, step time: 0.3399
Batch 225/248, train_loss: 0.9985, step time: 0.3529
Batch 226/248, train_loss: 0.9912, step time: 0.3462
Batch 227/248, train_loss: 0.9131, step time: 0.3569
Batch 228/248, train_loss: 0.9825, step time: 0.3778
Batch 229/248, train_loss: 0.7449, step time: 0.3542
Batch 230/248, train_loss: 0.9262, step time: 0.3642
Batch 231/248, train_loss: 0.9980, step time: 0.3537
Batch 232/248, train_loss: 0.9154, step time: 0.3496
Batch 233/248, train_loss: 0.9999, step time: 0.3490
Batch 234/248, train_loss: 0.9984, step time: 0.3816
Batch 235/248, train_loss: 0.9966, step time: 0.3650
Batch 236/248, train_loss: 0.9994, step time: 0.3480
Batch 237/248, train_loss: 0.7828, step time: 0.3639
Batch 238/248, train_loss: 0.9004, step time: 0.3412
Batch 239/248, train_loss: 0.3856, step time: 0.3800
Batch 240/248, train_loss: 0.9737, step time: 0.3587
Batch 241/248, train_loss: 0.9997, step time: 0.3671
Batch 242/248, train_loss: 0.9898, step time: 0.3848
Batch 243/248, train_loss: 0.9993, step time: 0.3619
Batch 244/248, train_loss: 0.9972, step time: 0.3575
Batch 245/248, train_loss: 0.8668, step time: 0.3509
Batch 246/248, train_loss: 0.9965, step time: 0.3530

```
Batch 247/248, train_loss: 0.5851, step time: 0.3446  
Batch 248/248, train_loss: 1.0000, step time: 0.3464
```

Labels



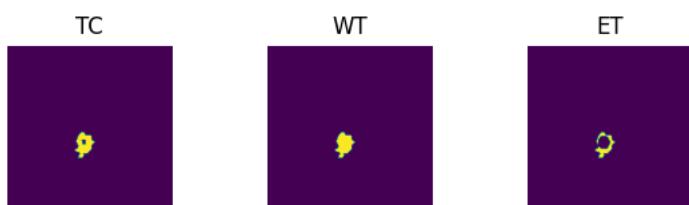
Predictions



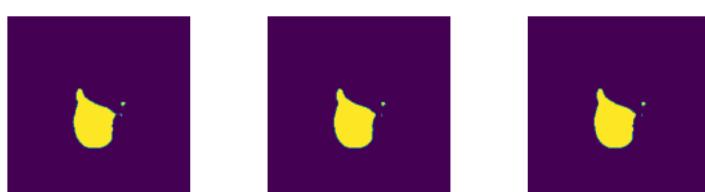
VAL

```
Batch 1/31, val_loss: 0.9449  
Batch 2/31, val_loss: 0.9999  
Batch 3/31, val_loss: 0.9995  
Batch 4/31, val_loss: 0.9923  
Batch 5/31, val_loss: 1.0000  
Batch 6/31, val_loss: 0.8295  
Batch 7/31, val_loss: 0.9601  
Batch 8/31, val_loss: 0.9948  
Batch 9/31, val_loss: 0.8854  
Batch 10/31, val_loss: 0.9940  
Batch 11/31, val_loss: 0.9783  
Batch 12/31, val_loss: 0.9967  
Batch 13/31, val_loss: 0.9951  
Batch 14/31, val_loss: 0.9954  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9990  
Batch 17/31, val_loss: 0.9996  
Batch 18/31, val_loss: 0.9950  
Batch 19/31, val_loss: 0.9322  
Batch 20/31, val_loss: 0.9715  
Batch 21/31, val_loss: 0.9905  
Batch 22/31, val_loss: 0.9991  
Batch 23/31, val_loss: 0.9991  
Batch 24/31, val_loss: 0.8508  
Batch 25/31, val_loss: 0.9513  
Batch 26/31, val_loss: 0.9935  
Batch 27/31, val_loss: 0.9997  
Batch 28/31, val_loss: 0.9426  
Batch 29/31, val_loss: 1.0000  
Batch 30/31, val_loss: 0.9993  
Batch 31/31, val_loss: 0.9986
```

Labels



Predictions



epoch 15

```
average train loss: 0.9177  
average validation loss: 0.9738  
saved as best model: False
```

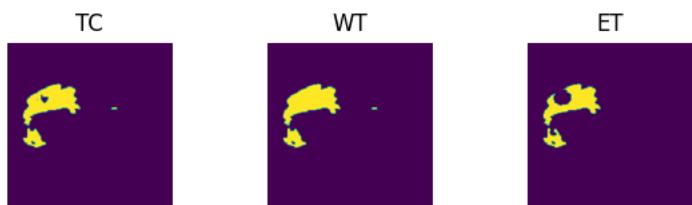
```
current mean dice: 0.0887
current TC dice: 0.0928
current WT dice: 0.0941
current ET dice: 0.0878
Best Mean Metric: 0.0891
time consuming of epoch 15 is: 1456.5781
-----
epoch 16/100
TRAIN
Batch 1/248, train_loss: 0.7294, step time: 0.3574
Batch 2/248, train_loss: 0.9996, step time: 0.3458
Batch 3/248, train_loss: 0.9952, step time: 0.3671
Batch 4/248, train_loss: 0.9998, step time: 0.3770
Batch 5/248, train_loss: 0.9725, step time: 0.3796
Batch 6/248, train_loss: 0.9702, step time: 0.3699
Batch 7/248, train_loss: 0.5953, step time: 0.3492
Batch 8/248, train_loss: 0.9172, step time: 0.3661
Batch 9/248, train_loss: 0.7686, step time: 0.3851
Batch 10/248, train_loss: 0.9892, step time: 0.3671
Batch 11/248, train_loss: 0.9753, step time: 0.3866
Batch 12/248, train_loss: 0.9989, step time: 0.3424
Batch 13/248, train_loss: 0.9924, step time: 0.3445
Batch 14/248, train_loss: 0.5321, step time: 0.3687
Batch 15/248, train_loss: 0.9871, step time: 0.3825
Batch 16/248, train_loss: 0.9703, step time: 0.3777
Batch 17/248, train_loss: 0.9987, step time: 0.3685
Batch 18/248, train_loss: 0.9963, step time: 0.3812
Batch 19/248, train_loss: 0.7614, step time: 0.3469
Batch 20/248, train_loss: 0.9625, step time: 0.3768
Batch 21/248, train_loss: 0.8886, step time: 0.3425
Batch 22/248, train_loss: 0.9999, step time: 0.3544
Batch 23/248, train_loss: 1.0000, step time: 0.3572
Batch 24/248, train_loss: 0.9117, step time: 0.3440
Batch 25/248, train_loss: 0.5012, step time: 0.3636
Batch 26/248, train_loss: 0.9969, step time: 0.3546
Batch 27/248, train_loss: 0.7362, step time: 0.3494
Batch 28/248, train_loss: 0.9680, step time: 0.3794
Batch 29/248, train_loss: 0.9986, step time: 0.3769
Batch 30/248, train_loss: 0.9673, step time: 0.3555
Batch 31/248, train_loss: 0.9874, step time: 0.3727
Batch 32/248, train_loss: 0.8860, step time: 0.3624
Batch 33/248, train_loss: 0.7140, step time: 0.3828
Batch 34/248, train_loss: 0.8066, step time: 0.3699
Batch 35/248, train_loss: 0.9090, step time: 0.3427
Batch 36/248, train_loss: 0.9998, step time: 0.3745
Batch 37/248, train_loss: 0.9194, step time: 0.3826
Batch 38/248, train_loss: 0.9849, step time: 0.3726
Batch 39/248, train_loss: 0.9293, step time: 0.3666
Batch 40/248, train_loss: 0.9998, step time: 0.3685
Batch 41/248, train_loss: 0.8548, step time: 0.3640
Batch 42/248, train_loss: 0.8623, step time: 0.3826
Batch 43/248, train_loss: 0.7753, step time: 0.3461
Batch 44/248, train_loss: 0.9337, step time: 0.3808
Batch 45/248, train_loss: 0.9859, step time: 0.3664
Batch 46/248, train_loss: 0.9423, step time: 0.3405
Batch 47/248, train_loss: 0.9646, step time: 0.3455
Batch 48/248, train_loss: 0.9412, step time: 0.3610
Batch 49/248, train_loss: 0.9966, step time: 0.3827
Batch 50/248, train_loss: 0.9699, step time: 0.3718
Batch 51/248, train_loss: 0.9642, step time: 0.3620
Batch 52/248, train_loss: 0.9449, step time: 0.3445
Batch 53/248, train_loss: 0.9854, step time: 0.3793
Batch 54/248, train_loss: 0.9606, step time: 0.3781
Batch 55/248, train_loss: 0.9882, step time: 0.3610
Batch 56/248, train_loss: 0.9629, step time: 0.3756
Batch 57/248, train_loss: 0.9708, step time: 0.3604
Batch 58/248, train_loss: 0.8720, step time: 0.3774
Batch 59/248, train_loss: 0.8994, step time: 0.3607
Batch 60/248, train_loss: 0.8652, step time: 0.3648
Batch 61/248, train_loss: 0.9052, step time: 0.3417
Batch 62/248, train_loss: 0.9900, step time: 0.3420
Batch 63/248, train_loss: 0.9974, step time: 0.3537
Batch 64/248, train_loss: 0.9957, step time: 0.3787
Batch 65/248, train_loss: 0.9755, step time: 0.3474
Batch 66/248, train_loss: 0.9710, step time: 0.3628
Batch 67/248, train_loss: 0.6947, step time: 0.3507
Batch 68/248, train_loss: 0.8331, step time: 0.3488
Batch 69/248, train_loss: 0.9994, step time: 0.3446
Batch 70/248, train_loss: 0.8805, step time: 0.3832
Batch 71/248, train_loss: 0.8061, step time: 0.3453
Batch 72/248, train_loss: 0.8291, step time: 0.3811
Batch 73/248, train_loss: 0.8464, step time: 0.3760
Batch 74/248, train_loss: 0.9999, step time: 0.3653
Batch 75/248, train_loss: 0.8570, step time: 0.3863
Batch 76/248, train_loss: 0.9985, step time: 0.3436
```

Batch 77/248, train_loss: 0.9995, step time: 0.3462
Batch 78/248, train_loss: 0.9338, step time: 0.3472
Batch 79/248, train_loss: 0.9641, step time: 0.3752
Batch 80/248, train_loss: 0.9774, step time: 0.3802
Batch 81/248, train_loss: 0.9856, step time: 0.3704
Batch 82/248, train_loss: 0.8602, step time: 0.3483
Batch 83/248, train_loss: 0.9974, step time: 0.3453
Batch 84/248, train_loss: 0.9642, step time: 0.3773
Batch 85/248, train_loss: 0.9982, step time: 0.3486
Batch 86/248, train_loss: 0.8833, step time: 0.3614
Batch 87/248, train_loss: 0.9946, step time: 0.3702
Batch 88/248, train_loss: 0.9956, step time: 0.3769
Batch 89/248, train_loss: 0.6326, step time: 0.3646
Batch 90/248, train_loss: 0.9675, step time: 0.3469
Batch 91/248, train_loss: 0.9979, step time: 0.3418
Batch 92/248, train_loss: 0.9513, step time: 0.3724
Batch 93/248, train_loss: 0.8393, step time: 0.3674
Batch 94/248, train_loss: 0.9981, step time: 0.3584
Batch 95/248, train_loss: 0.9268, step time: 0.3557
Batch 96/248, train_loss: 0.9125, step time: 0.3408
Batch 97/248, train_loss: 1.0000, step time: 0.3703
Batch 98/248, train_loss: 0.8146, step time: 0.3582
Batch 99/248, train_loss: 0.9940, step time: 0.3408
Batch 100/248, train_loss: 0.9987, step time: 0.3451
Batch 101/248, train_loss: 0.5812, step time: 0.3787
Batch 102/248, train_loss: 0.9517, step time: 0.3576
Batch 103/248, train_loss: 0.9974, step time: 0.3429
Batch 104/248, train_loss: 0.9240, step time: 0.3847
Batch 105/248, train_loss: 0.7936, step time: 0.3448
Batch 106/248, train_loss: 0.9721, step time: 0.3406
Batch 107/248, train_loss: 0.9940, step time: 0.3568
Batch 108/248, train_loss: 0.9963, step time: 0.3475
Batch 109/248, train_loss: 0.9996, step time: 0.3744
Batch 110/248, train_loss: 0.9803, step time: 0.3452
Batch 111/248, train_loss: 0.7948, step time: 0.3442
Batch 112/248, train_loss: 0.8160, step time: 0.3632
Batch 113/248, train_loss: 0.9999, step time: 0.3513
Batch 114/248, train_loss: 0.6543, step time: 0.3621
Batch 115/248, train_loss: 0.9397, step time: 0.3438
Batch 116/248, train_loss: 0.7866, step time: 0.3606
Batch 117/248, train_loss: 0.9983, step time: 0.3452
Batch 118/248, train_loss: 0.9968, step time: 0.3474
Batch 119/248, train_loss: 0.9493, step time: 0.3845
Batch 120/248, train_loss: 0.9494, step time: 0.3588
Batch 121/248, train_loss: 0.9869, step time: 0.3487
Batch 122/248, train_loss: 0.9916, step time: 0.3458
Batch 123/248, train_loss: 0.8788, step time: 0.3836
Batch 124/248, train_loss: 0.9929, step time: 0.3465
Batch 125/248, train_loss: 0.9987, step time: 0.3790
Batch 126/248, train_loss: 0.7838, step time: 0.3704
Batch 127/248, train_loss: 0.9532, step time: 0.3652
Batch 128/248, train_loss: 0.9773, step time: 0.3473
Batch 129/248, train_loss: 0.6958, step time: 0.3472
Batch 130/248, train_loss: 0.7046, step time: 0.3846
Batch 131/248, train_loss: 0.9922, step time: 0.3419
Batch 132/248, train_loss: 0.9940, step time: 0.3697
Batch 133/248, train_loss: 0.5137, step time: 0.3827
Batch 134/248, train_loss: 1.0000, step time: 0.3480
Batch 135/248, train_loss: 0.9962, step time: 0.3600
Batch 136/248, train_loss: 0.9750, step time: 0.3483
Batch 137/248, train_loss: 0.7214, step time: 0.3849
Batch 138/248, train_loss: 0.7858, step time: 0.3724
Batch 139/248, train_loss: 0.8052, step time: 0.3503
Batch 140/248, train_loss: 0.9710, step time: 0.3554
Batch 141/248, train_loss: 0.8728, step time: 0.3417
Batch 142/248, train_loss: 0.9989, step time: 0.3795
Batch 143/248, train_loss: 0.9746, step time: 0.3771
Batch 144/248, train_loss: 0.7838, step time: 0.3419
Batch 145/248, train_loss: 0.5324, step time: 0.3548
Batch 146/248, train_loss: 0.9997, step time: 0.3868
Batch 147/248, train_loss: 0.5089, step time: 0.3648
Batch 148/248, train_loss: 0.9938, step time: 0.3509
Batch 149/248, train_loss: 0.9451, step time: 0.3564
Batch 150/248, train_loss: 0.8770, step time: 0.3699
Batch 151/248, train_loss: 0.9913, step time: 0.3873
Batch 152/248, train_loss: 0.5514, step time: 0.3407
Batch 153/248, train_loss: 0.9901, step time: 0.3688
Batch 154/248, train_loss: 0.9980, step time: 0.3501
Batch 155/248, train_loss: 0.9436, step time: 0.3461
Batch 156/248, train_loss: 0.9504, step time: 0.3704
Batch 157/248, train_loss: 0.7955, step time: 0.3523
Batch 158/248, train_loss: 0.9997, step time: 0.3820
Batch 159/248, train_loss: 0.9996, step time: 0.3764
Batch 160/248, train_loss: 0.8751, step time: 0.3655
Batch 161/248, train_loss: 0.9464, step time: 0.3428

Batch 162/248, train_loss: 0.4795, step time: 0.3836
Batch 163/248, train_loss: 0.9951, step time: 0.3582
Batch 164/248, train_loss: 0.9474, step time: 0.3484
Batch 165/248, train_loss: 0.9994, step time: 0.3844
Batch 166/248, train_loss: 0.9886, step time: 0.3452
Batch 167/248, train_loss: 0.9508, step time: 0.3856
Batch 168/248, train_loss: 0.9537, step time: 0.3687
Batch 169/248, train_loss: 0.8935, step time: 0.3822
Batch 170/248, train_loss: 0.9957, step time: 0.3851
Batch 171/248, train_loss: 0.6351, step time: 0.3739
Batch 172/248, train_loss: 0.9998, step time: 0.3463
Batch 173/248, train_loss: 0.7930, step time: 0.3466
Batch 174/248, train_loss: 0.9977, step time: 0.3816
Batch 175/248, train_loss: 0.6650, step time: 0.3553
Batch 176/248, train_loss: 0.9703, step time: 0.3409
Batch 177/248, train_loss: 0.9991, step time: 0.3820
Batch 178/248, train_loss: 0.8621, step time: 0.3474
Batch 179/248, train_loss: 0.4248, step time: 0.3486
Batch 180/248, train_loss: 0.9485, step time: 0.3697
Batch 181/248, train_loss: 0.7527, step time: 0.3791
Batch 182/248, train_loss: 0.9895, step time: 0.3557
Batch 183/248, train_loss: 0.9436, step time: 0.3807
Batch 184/248, train_loss: 0.9895, step time: 0.3529
Batch 185/248, train_loss: 0.9480, step time: 0.3859
Batch 186/248, train_loss: 0.8894, step time: 0.3690
Batch 187/248, train_loss: 0.8933, step time: 0.3712
Batch 188/248, train_loss: 0.9524, step time: 0.3452
Batch 189/248, train_loss: 0.9998, step time: 0.3471
Batch 190/248, train_loss: 0.8971, step time: 0.3439
Batch 191/248, train_loss: 0.9994, step time: 0.3488
Batch 192/248, train_loss: 0.8751, step time: 0.3678
Batch 193/248, train_loss: 0.9746, step time: 0.3459
Batch 194/248, train_loss: 0.9719, step time: 0.3451
Batch 195/248, train_loss: 0.9997, step time: 0.3863
Batch 196/248, train_loss: 1.0000, step time: 0.3782
Batch 197/248, train_loss: 0.9853, step time: 0.3607
Batch 198/248, train_loss: 0.9999, step time: 0.3756
Batch 199/248, train_loss: 0.9568, step time: 0.3660
Batch 200/248, train_loss: 0.9468, step time: 0.3469
Batch 201/248, train_loss: 0.8702, step time: 0.3483
Batch 202/248, train_loss: 0.9696, step time: 0.3745
Batch 203/248, train_loss: 0.9977, step time: 0.3432
Batch 204/248, train_loss: 0.6974, step time: 0.3835
Batch 205/248, train_loss: 0.9881, step time: 0.3748
Batch 206/248, train_loss: 0.9993, step time: 0.3735
Batch 207/248, train_loss: 0.8513, step time: 0.3584
Batch 208/248, train_loss: 0.9472, step time: 0.3910
Batch 209/248, train_loss: 0.9203, step time: 0.3496
Batch 210/248, train_loss: 0.8479, step time: 0.3580
Batch 211/248, train_loss: 0.8379, step time: 0.3668
Batch 212/248, train_loss: 0.9773, step time: 0.3406
Batch 213/248, train_loss: 0.9742, step time: 0.3791
Batch 214/248, train_loss: 0.9023, step time: 0.3685
Batch 215/248, train_loss: 0.9830, step time: 0.3427
Batch 216/248, train_loss: 0.8538, step time: 0.3781
Batch 217/248, train_loss: 0.9907, step time: 0.3686
Batch 218/248, train_loss: 0.9990, step time: 0.3548
Batch 219/248, train_loss: 0.9040, step time: 0.3800
Batch 220/248, train_loss: 0.9828, step time: 0.3582
Batch 221/248, train_loss: 0.9780, step time: 0.3455
Batch 222/248, train_loss: 0.8610, step time: 0.3429
Batch 223/248, train_loss: 0.7419, step time: 0.3521
Batch 224/248, train_loss: 0.8312, step time: 0.3446
Batch 225/248, train_loss: 0.9984, step time: 0.3422
Batch 226/248, train_loss: 0.9900, step time: 0.3881
Batch 227/248, train_loss: 0.9014, step time: 0.3689
Batch 228/248, train_loss: 0.9796, step time: 0.3764
Batch 229/248, train_loss: 0.7184, step time: 0.3764
Batch 230/248, train_loss: 0.9204, step time: 0.3748
Batch 231/248, train_loss: 0.9978, step time: 0.3736
Batch 232/248, train_loss: 0.9060, step time: 0.3821
Batch 233/248, train_loss: 0.9999, step time: 0.3619
Batch 234/248, train_loss: 0.9973, step time: 0.3540
Batch 235/248, train_loss: 0.9961, step time: 0.3427
Batch 236/248, train_loss: 0.9992, step time: 0.3570
Batch 237/248, train_loss: 0.7533, step time: 0.3876
Batch 238/248, train_loss: 0.8808, step time: 0.3767
Batch 239/248, train_loss: 0.3488, step time: 0.3726
Batch 240/248, train_loss: 0.9710, step time: 0.3432
Batch 241/248, train_loss: 0.9997, step time: 0.3641
Batch 242/248, train_loss: 0.9882, step time: 0.3430
Batch 243/248, train_loss: 0.9996, step time: 0.3462
Batch 244/248, train_loss: 0.9971, step time: 0.3448
Batch 245/248, train_loss: 0.8533, step time: 0.3731

```
Batch 246/248, train_loss: 0.9956, step time: 0.349/
Batch 247/248, train_loss: 0.5510, step time: 0.3703
Batch 248/248, train_loss: 1.0000, step time: 0.3620
```

Labels



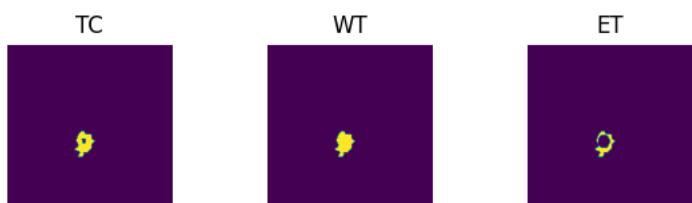
Predictions



VAL

```
Batch 1/31, val_loss: 0.9428
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9995
Batch 4/31, val_loss: 0.9903
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8169
Batch 7/31, val_loss: 0.9566
Batch 8/31, val_loss: 0.9949
Batch 9/31, val_loss: 0.8752
Batch 10/31, val_loss: 0.9935
Batch 11/31, val_loss: 0.9758
Batch 12/31, val_loss: 0.9959
Batch 13/31, val_loss: 0.9928
Batch 14/31, val_loss: 0.9945
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9990
Batch 17/31, val_loss: 0.9994
Batch 18/31, val_loss: 0.9952
Batch 19/31, val_loss: 0.9265
Batch 20/31, val_loss: 0.9667
Batch 21/31, val_loss: 0.9899
Batch 22/31, val_loss: 0.9986
Batch 23/31, val_loss: 0.9989
Batch 24/31, val_loss: 0.8390
Batch 25/31, val_loss: 0.9499
Batch 26/31, val_loss: 0.9927
Batch 27/31, val_loss: 0.9997
Batch 28/31, val_loss: 0.9367
Batch 29/31, val_loss: 0.9999
Batch 30/31, val_loss: 0.9992
Batch 31/31, val_loss: 0.9985
```

Labels



Predictions



epoch 16

```
average train loss: 0.9091
average validation loss: 0.9716
saved as best model: True
```

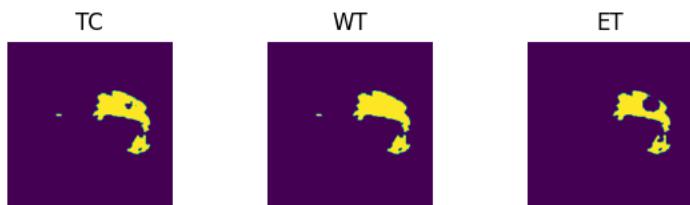
```
current mean dice: 0.0962
current TC dice: 0.1007
current WT dice: 0.1020
current ET dice: 0.0952
Best Mean Metric: 0.0962
time consuming of epoch 16 is: 1454.7453
-----
epoch 17/100
TRAIN
    Batch 1/248, train_loss: 0.7000, step time: 0.3752
    Batch 2/248, train_loss: 0.9996, step time: 0.3796
    Batch 3/248, train_loss: 0.9944, step time: 0.3656
    Batch 4/248, train_loss: 0.9998, step time: 0.3565
    Batch 5/248, train_loss: 0.9705, step time: 0.3608
    Batch 6/248, train_loss: 0.9667, step time: 0.3464
    Batch 7/248, train_loss: 0.5571, step time: 0.3695
    Batch 8/248, train_loss: 0.9082, step time: 0.3600
    Batch 9/248, train_loss: 0.7397, step time: 0.3575
    Batch 10/248, train_loss: 0.9880, step time: 0.3419
    Batch 11/248, train_loss: 0.9735, step time: 0.3488
    Batch 12/248, train_loss: 0.9988, step time: 0.3509
    Batch 13/248, train_loss: 0.9914, step time: 0.3691
    Batch 14/248, train_loss: 0.4893, step time: 0.3849
    Batch 15/248, train_loss: 0.9856, step time: 0.3813
    Batch 16/248, train_loss: 0.9671, step time: 0.3588
    Batch 17/248, train_loss: 0.9987, step time: 0.3656
    Batch 18/248, train_loss: 0.9958, step time: 0.3578
    Batch 19/248, train_loss: 0.7342, step time: 0.3604
    Batch 20/248, train_loss: 0.9583, step time: 0.3671
    Batch 21/248, train_loss: 0.8798, step time: 0.3474
    Batch 22/248, train_loss: 0.9999, step time: 0.3454
    Batch 23/248, train_loss: 0.9996, step time: 0.3459
    Batch 24/248, train_loss: 0.8993, step time: 0.3681
    Batch 25/248, train_loss: 0.4663, step time: 0.3746
    Batch 26/248, train_loss: 0.9967, step time: 0.3833
    Batch 27/248, train_loss: 0.7059, step time: 0.3834
    Batch 28/248, train_loss: 0.9643, step time: 0.3769
    Batch 29/248, train_loss: 0.9984, step time: 0.3808
    Batch 30/248, train_loss: 0.9863, step time: 0.3845
    Batch 31/248, train_loss: 0.9891, step time: 0.3575
    Batch 32/248, train_loss: 0.8742, step time: 0.3476
    Batch 33/248, train_loss: 0.6878, step time: 0.3788
    Batch 34/248, train_loss: 0.7826, step time: 0.3859
    Batch 35/248, train_loss: 0.8994, step time: 0.3859
    Batch 36/248, train_loss: 0.9998, step time: 0.3534
    Batch 37/248, train_loss: 0.9102, step time: 0.3825
    Batch 38/248, train_loss: 0.9840, step time: 0.3789
    Batch 39/248, train_loss: 0.9245, step time: 0.3671
    Batch 40/248, train_loss: 0.9998, step time: 0.3424
    Batch 41/248, train_loss: 0.8406, step time: 0.3650
    Batch 42/248, train_loss: 0.8535, step time: 0.3801
    Batch 43/248, train_loss: 0.7512, step time: 0.3557
    Batch 44/248, train_loss: 0.9263, step time: 0.3494
    Batch 45/248, train_loss: 0.9865, step time: 0.3520
    Batch 46/248, train_loss: 0.9369, step time: 0.3567
    Batch 47/248, train_loss: 0.9600, step time: 0.3520
    Batch 48/248, train_loss: 0.9351, step time: 0.3417
    Batch 49/248, train_loss: 0.9958, step time: 0.3494
    Batch 50/248, train_loss: 0.9669, step time: 0.3671
    Batch 51/248, train_loss: 0.9587, step time: 0.3531
    Batch 52/248, train_loss: 0.9392, step time: 0.3416
    Batch 53/248, train_loss: 0.9840, step time: 0.3806
    Batch 54/248, train_loss: 0.9550, step time: 0.3416
    Batch 55/248, train_loss: 0.9875, step time: 0.3676
    Batch 56/248, train_loss: 0.9586, step time: 0.3619
    Batch 57/248, train_loss: 0.9673, step time: 0.3707
    Batch 58/248, train_loss: 0.8569, step time: 0.3571
    Batch 59/248, train_loss: 0.8864, step time: 0.3415
    Batch 60/248, train_loss: 0.8495, step time: 0.3407
    Batch 61/248, train_loss: 0.8952, step time: 0.3458
    Batch 62/248, train_loss: 0.9891, step time: 0.3672
    Batch 63/248, train_loss: 0.9972, step time: 0.3727
    Batch 64/248, train_loss: 0.9952, step time: 0.3469
    Batch 65/248, train_loss: 0.9690, step time: 0.3479
    Batch 66/248, train_loss: 0.9678, step time: 0.3421
    Batch 67/248, train_loss: 0.6609, step time: 0.3495
    Batch 68/248, train_loss: 0.8137, step time: 0.3780
    Batch 69/248, train_loss: 0.9992, step time: 0.3464
    Batch 70/248, train_loss: 0.8637, step time: 0.3635
    Batch 71/248, train_loss: 0.7847, step time: 0.3453
    Batch 72/248, train_loss: 0.8075, step time: 0.3679
    Batch 73/248, train_loss: 0.8298, step time: 0.3778
    Batch 74/248, train_loss: 0.9999, step time: 0.3772
    Batch 75/248, train_loss: 0.8416, step time: 0.3738
    Batch 76/248, train_loss: 0.9976, step time: 0.3920
```

Batch 76/248, train_loss: 0.9970, step time: 0.3620
Batch 77/248, train_loss: 0.9998, step time: 0.3778
Batch 78/248, train_loss: 0.9234, step time: 0.3843
Batch 79/248, train_loss: 0.9586, step time: 0.3479
Batch 80/248, train_loss: 0.9741, step time: 0.3424
Batch 81/248, train_loss: 0.9835, step time: 0.3525
Batch 82/248, train_loss: 0.8435, step time: 0.3699
Batch 83/248, train_loss: 0.9971, step time: 0.3732
Batch 84/248, train_loss: 0.9595, step time: 0.3602
Batch 85/248, train_loss: 0.9980, step time: 0.3479
Batch 86/248, train_loss: 0.8715, step time: 0.3859
Batch 87/248, train_loss: 0.9921, step time: 0.3577
Batch 88/248, train_loss: 0.9950, step time: 0.3472
Batch 89/248, train_loss: 0.5970, step time: 0.3657
Batch 90/248, train_loss: 0.9596, step time: 0.3771
Batch 91/248, train_loss: 0.9981, step time: 0.3630
Batch 92/248, train_loss: 0.9465, step time: 0.3731
Batch 93/248, train_loss: 0.8219, step time: 0.3411
Batch 94/248, train_loss: 0.9979, step time: 0.3507
Batch 95/248, train_loss: 0.9179, step time: 0.3715
Batch 96/248, train_loss: 0.9028, step time: 0.3840
Batch 97/248, train_loss: 1.0000, step time: 0.3689
Batch 98/248, train_loss: 0.7931, step time: 0.3702
Batch 99/248, train_loss: 0.9932, step time: 0.3752
Batch 100/248, train_loss: 0.9987, step time: 0.3787
Batch 101/248, train_loss: 0.5355, step time: 0.3717
Batch 102/248, train_loss: 0.9455, step time: 0.3746
Batch 103/248, train_loss: 0.9971, step time: 0.3717
Batch 104/248, train_loss: 0.9172, step time: 0.3434
Batch 105/248, train_loss: 0.7683, step time: 0.3495
Batch 106/248, train_loss: 0.9678, step time: 0.3490
Batch 107/248, train_loss: 0.9933, step time: 0.3542
Batch 108/248, train_loss: 0.9953, step time: 0.3647
Batch 109/248, train_loss: 0.9991, step time: 0.3436
Batch 110/248, train_loss: 0.9770, step time: 0.3617
Batch 111/248, train_loss: 0.7734, step time: 0.3776
Batch 112/248, train_loss: 0.7928, step time: 0.3738
Batch 113/248, train_loss: 0.9999, step time: 0.3759
Batch 114/248, train_loss: 0.6243, step time: 0.3853
Batch 115/248, train_loss: 0.9338, step time: 0.3454
Batch 116/248, train_loss: 0.7657, step time: 0.3452
Batch 117/248, train_loss: 0.9982, step time: 0.3664
Batch 118/248, train_loss: 0.9962, step time: 0.3780
Batch 119/248, train_loss: 0.9466, step time: 0.3501
Batch 120/248, train_loss: 0.9441, step time: 0.3839
Batch 121/248, train_loss: 0.9850, step time: 0.3855
Batch 122/248, train_loss: 0.9906, step time: 0.3774
Batch 123/248, train_loss: 0.8628, step time: 0.3677
Batch 124/248, train_loss: 0.9926, step time: 0.3758
Batch 125/248, train_loss: 0.9982, step time: 0.3689
Batch 126/248, train_loss: 0.7619, step time: 0.3474
Batch 127/248, train_loss: 0.9469, step time: 0.3503
Batch 128/248, train_loss: 0.9749, step time: 0.3681
Batch 129/248, train_loss: 0.6641, step time: 0.3408
Batch 130/248, train_loss: 0.6795, step time: 0.3421
Batch 131/248, train_loss: 0.9913, step time: 0.3471
Batch 132/248, train_loss: 0.9927, step time: 0.3473
Batch 133/248, train_loss: 0.4825, step time: 0.3465
Batch 134/248, train_loss: 1.0000, step time: 0.3519
Batch 135/248, train_loss: 0.9965, step time: 0.3466
Batch 136/248, train_loss: 0.9712, step time: 0.3737
Batch 137/248, train_loss: 0.6940, step time: 0.3427
Batch 138/248, train_loss: 0.7572, step time: 0.3796
Batch 139/248, train_loss: 0.7872, step time: 0.3598
Batch 140/248, train_loss: 0.9672, step time: 0.3444
Batch 141/248, train_loss: 0.8574, step time: 0.3585
Batch 142/248, train_loss: 0.9990, step time: 0.3444
Batch 143/248, train_loss: 0.9712, step time: 0.3745
Batch 144/248, train_loss: 0.7575, step time: 0.3587
Batch 145/248, train_loss: 0.4896, step time: 0.3824
Batch 146/248, train_loss: 0.9997, step time: 0.3788
Batch 147/248, train_loss: 0.4646, step time: 0.3726
Batch 148/248, train_loss: 0.9938, step time: 0.3427
Batch 149/248, train_loss: 0.9369, step time: 0.3854
Batch 150/248, train_loss: 0.8523, step time: 0.3707
Batch 151/248, train_loss: 0.9900, step time: 0.3489
Batch 152/248, train_loss: 0.5095, step time: 0.3414
Batch 153/248, train_loss: 0.9890, step time: 0.3641
Batch 154/248, train_loss: 0.9977, step time: 0.3454
Batch 155/248, train_loss: 0.9367, step time: 0.3565
Batch 156/248, train_loss: 0.9431, step time: 0.3816
Batch 157/248, train_loss: 0.7746, step time: 0.3814
Batch 158/248, train_loss: 0.9996, step time: 0.3583
Batch 159/248, train_loss: 0.9995, step time: 0.3482
Batch 160/248, train_loss: 0.8585, step time: 0.3674

Batch 161/248, train_loss: 0.9396, step time: 0.3798
Batch 162/248, train_loss: 0.4363, step time: 0.3750
Batch 163/248, train_loss: 0.9945, step time: 0.3584
Batch 164/248, train_loss: 0.9423, step time: 0.3856
Batch 165/248, train_loss: 0.9993, step time: 0.3681
Batch 166/248, train_loss: 0.9871, step time: 0.3672
Batch 167/248, train_loss: 0.9433, step time: 0.3420
Batch 168/248, train_loss: 0.9444, step time: 0.3464
Batch 169/248, train_loss: 0.8736, step time: 0.3650
Batch 170/248, train_loss: 0.9960, step time: 0.3547
Batch 171/248, train_loss: 0.5966, step time: 0.3844
Batch 172/248, train_loss: 0.9998, step time: 0.3734
Batch 173/248, train_loss: 0.7707, step time: 0.3777
Batch 174/248, train_loss: 0.9984, step time: 0.3465
Batch 175/248, train_loss: 0.6345, step time: 0.3879
Batch 176/248, train_loss: 0.9670, step time: 0.3776
Batch 177/248, train_loss: 0.9989, step time: 0.3740
Batch 178/248, train_loss: 0.8446, step time: 0.3674
Batch 179/248, train_loss: 0.3815, step time: 0.3455
Batch 180/248, train_loss: 0.9431, step time: 0.3790
Batch 181/248, train_loss: 0.7313, step time: 0.3555
Batch 182/248, train_loss: 0.9885, step time: 0.3480
Batch 183/248, train_loss: 0.9371, step time: 0.3853
Batch 184/248, train_loss: 0.9882, step time: 0.3714
Batch 185/248, train_loss: 0.9402, step time: 0.3779
Batch 186/248, train_loss: 0.8729, step time: 0.3873
Batch 187/248, train_loss: 0.8758, step time: 0.3655
Batch 188/248, train_loss: 0.9476, step time: 0.3784
Batch 189/248, train_loss: 0.9998, step time: 0.3440
Batch 190/248, train_loss: 0.8860, step time: 0.3621
Batch 191/248, train_loss: 0.9997, step time: 0.3506
Batch 192/248, train_loss: 0.8586, step time: 0.3718
Batch 193/248, train_loss: 0.9708, step time: 0.3860
Batch 194/248, train_loss: 0.9655, step time: 0.3759
Batch 195/248, train_loss: 0.9997, step time: 0.3533
Batch 196/248, train_loss: 1.0000, step time: 0.3407
Batch 197/248, train_loss: 0.9819, step time: 0.3433
Batch 198/248, train_loss: 0.9999, step time: 0.3449
Batch 199/248, train_loss: 0.9472, step time: 0.3834
Batch 200/248, train_loss: 0.9371, step time: 0.3441
Batch 201/248, train_loss: 0.8536, step time: 0.3476
Batch 202/248, train_loss: 0.9660, step time: 0.3432
Batch 203/248, train_loss: 0.9975, step time: 0.3449
Batch 204/248, train_loss: 0.6645, step time: 0.3653
Batch 205/248, train_loss: 0.9868, step time: 0.3765
Batch 206/248, train_loss: 0.9992, step time: 0.3563
Batch 207/248, train_loss: 0.8318, step time: 0.3797
Batch 208/248, train_loss: 0.9400, step time: 0.3444
Batch 209/248, train_loss: 0.9103, step time: 0.3686
Batch 210/248, train_loss: 0.8297, step time: 0.3749
Batch 211/248, train_loss: 0.8203, step time: 0.3485
Batch 212/248, train_loss: 0.9740, step time: 0.3776
Batch 213/248, train_loss: 0.9710, step time: 0.3602
Batch 214/248, train_loss: 0.8914, step time: 0.3643
Batch 215/248, train_loss: 0.9824, step time: 0.3795
Batch 216/248, train_loss: 0.8365, step time: 0.3472
Batch 217/248, train_loss: 0.9905, step time: 0.3756
Batch 218/248, train_loss: 0.9988, step time: 0.3440
Batch 219/248, train_loss: 0.8936, step time: 0.3421
Batch 220/248, train_loss: 0.9804, step time: 0.3660
Batch 221/248, train_loss: 0.9755, step time: 0.3829
Batch 222/248, train_loss: 0.8470, step time: 0.3431
Batch 223/248, train_loss: 0.7088, step time: 0.3710
Batch 224/248, train_loss: 0.8099, step time: 0.3744
Batch 225/248, train_loss: 0.9981, step time: 0.3452
Batch 226/248, train_loss: 0.9888, step time: 0.3424
Batch 227/248, train_loss: 0.8903, step time: 0.3418
Batch 228/248, train_loss: 0.9773, step time: 0.3629
Batch 229/248, train_loss: 0.6874, step time: 0.3498
Batch 230/248, train_loss: 0.9112, step time: 0.3804
Batch 231/248, train_loss: 0.9976, step time: 0.3772
Batch 232/248, train_loss: 0.8927, step time: 0.3853
Batch 233/248, train_loss: 0.9999, step time: 0.3458
Batch 234/248, train_loss: 0.9969, step time: 0.3451
Batch 235/248, train_loss: 0.9957, step time: 0.3483
Batch 236/248, train_loss: 0.9993, step time: 0.3679
Batch 237/248, train_loss: 0.7280, step time: 0.3426
Batch 238/248, train_loss: 0.8653, step time: 0.3537
Batch 239/248, train_loss: 0.3167, step time: 0.3792
Batch 240/248, train_loss: 0.9684, step time: 0.3563
Batch 241/248, train_loss: 0.9998, step time: 0.3802
Batch 242/248, train_loss: 0.9872, step time: 0.3562
Batch 243/248, train_loss: 0.9996, step time: 0.3842
Batch 244/248, train_loss: 0.9968, step time: 0.3536
Batch 245/248, train_loss: 0.8454, step time: 0.3783

```
Batch 246/248, train_loss: 0.9963, step time: 0.3640  
Batch 247/248, train_loss: 0.5121, step time: 0.3698  
Batch 248/248, train_loss: 1.0000, step time: 0.3406
```

Labels



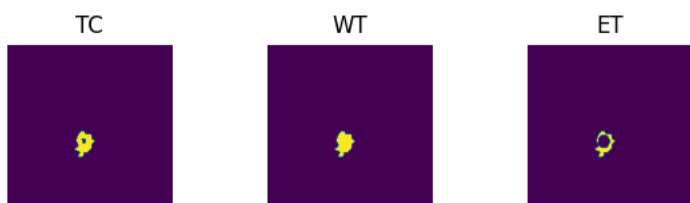
Predictions



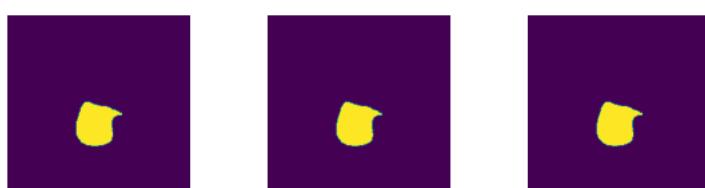
VAL

```
Batch 1/31, val_loss: 0.9381  
Batch 2/31, val_loss: 0.9999  
Batch 3/31, val_loss: 0.9995  
Batch 4/31, val_loss: 0.9893  
Batch 5/31, val_loss: 1.0000  
Batch 6/31, val_loss: 0.8116  
Batch 7/31, val_loss: 0.9571  
Batch 8/31, val_loss: 0.9925  
Batch 9/31, val_loss: 0.8705  
Batch 10/31, val_loss: 0.9921  
Batch 11/31, val_loss: 0.9750  
Batch 12/31, val_loss: 0.9965  
Batch 13/31, val_loss: 0.9945  
Batch 14/31, val_loss: 0.9956  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9990  
Batch 17/31, val_loss: 0.9995  
Batch 18/31, val_loss: 0.9949  
Batch 19/31, val_loss: 0.9202  
Batch 20/31, val_loss: 0.9690  
Batch 21/31, val_loss: 0.9896  
Batch 22/31, val_loss: 0.9988  
Batch 23/31, val_loss: 0.9990  
Batch 24/31, val_loss: 0.8333  
Batch 25/31, val_loss: 0.9427  
Batch 26/31, val_loss: 0.9925  
Batch 27/31, val_loss: 0.9997  
Batch 28/31, val_loss: 0.9364  
Batch 29/31, val_loss: 1.0000  
Batch 30/31, val_loss: 0.9992  
Batch 31/31, val_loss: 0.9984
```

Labels



Predictions



epoch 17

```
average train loss: 0.8996  
average validation loss: 0.9705
```

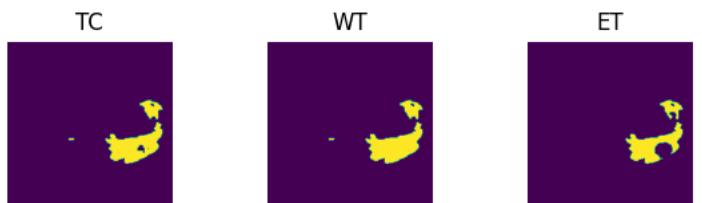
```
saved as best model: true
current mean dice: 0.0986
current TC dice: 0.1031
current WT dice: 0.1045
current ET dice: 0.0975
Best Mean Metric: 0.0986
time consuming of epoch 17 is: 1463.2597
-----
epoch 18/100
TRAIN
    Batch 1/248, train_loss: 0.6786, step time: 0.3585
    Batch 2/248, train_loss: 0.9998, step time: 0.3776
    Batch 3/248, train_loss: 0.9939, step time: 0.3458
    Batch 4/248, train_loss: 0.9998, step time: 0.3423
    Batch 5/248, train_loss: 0.9676, step time: 0.3475
    Batch 6/248, train_loss: 0.9627, step time: 0.3552
    Batch 7/248, train_loss: 0.5284, step time: 0.3587
    Batch 8/248, train_loss: 0.8981, step time: 0.3488
    Batch 9/248, train_loss: 0.7109, step time: 0.3684
    Batch 10/248, train_loss: 0.9869, step time: 0.3498
    Batch 11/248, train_loss: 0.9695, step time: 0.3569
    Batch 12/248, train_loss: 0.9986, step time: 0.3673
    Batch 13/248, train_loss: 0.9902, step time: 0.3774
    Batch 14/248, train_loss: 0.4488, step time: 0.3515
    Batch 15/248, train_loss: 0.9838, step time: 0.3734
    Batch 16/248, train_loss: 0.9633, step time: 0.3833
    Batch 17/248, train_loss: 0.9983, step time: 0.3654
    Batch 18/248, train_loss: 0.9953, step time: 0.3654
    Batch 19/248, train_loss: 0.7042, step time: 0.3843
    Batch 20/248, train_loss: 0.9534, step time: 0.3720
    Batch 21/248, train_loss: 0.8692, step time: 0.3680
    Batch 22/248, train_loss: 0.9999, step time: 0.3722
    Batch 23/248, train_loss: 0.9994, step time: 0.3414
    Batch 24/248, train_loss: 0.8876, step time: 0.3680
    Batch 25/248, train_loss: 0.4254, step time: 0.3428
    Batch 26/248, train_loss: 0.9967, step time: 0.3487
    Batch 27/248, train_loss: 0.6708, step time: 0.3858
    Batch 28/248, train_loss: 0.9590, step time: 0.3554
    Batch 29/248, train_loss: 0.9983, step time: 0.3517
    Batch 30/248, train_loss: 0.9916, step time: 0.3483
    Batch 31/248, train_loss: 0.9855, step time: 0.3665
    Batch 32/248, train_loss: 0.8617, step time: 0.3428
    Batch 33/248, train_loss: 0.6553, step time: 0.3469
    Batch 34/248, train_loss: 0.7601, step time: 0.3427
    Batch 35/248, train_loss: 0.8874, step time: 0.3832
    Batch 36/248, train_loss: 0.9999, step time: 0.3734
    Batch 37/248, train_loss: 0.8994, step time: 0.3459
    Batch 38/248, train_loss: 0.9829, step time: 0.3719
    Batch 39/248, train_loss: 0.9770, step time: 0.3828
    Batch 40/248, train_loss: 0.9998, step time: 0.3669
    Batch 41/248, train_loss: 0.8245, step time: 0.3563
    Batch 42/248, train_loss: 0.8299, step time: 0.3622
    Batch 43/248, train_loss: 0.7248, step time: 0.3500
    Batch 44/248, train_loss: 0.9073, step time: 0.3695
    Batch 45/248, train_loss: 0.9880, step time: 0.3756
    Batch 46/248, train_loss: 0.9389, step time: 0.3811
    Batch 47/248, train_loss: 0.9558, step time: 0.3529
    Batch 48/248, train_loss: 0.9280, step time: 0.3866
    Batch 49/248, train_loss: 0.9955, step time: 0.3490
    Batch 50/248, train_loss: 0.9633, step time: 0.3764
    Batch 51/248, train_loss: 0.9539, step time: 0.3745
    Batch 52/248, train_loss: 0.9298, step time: 0.3449
    Batch 53/248, train_loss: 0.9820, step time: 0.3482
    Batch 54/248, train_loss: 0.9498, step time: 0.3748
    Batch 55/248, train_loss: 0.9852, step time: 0.3655
    Batch 56/248, train_loss: 0.9570, step time: 0.3741
    Batch 57/248, train_loss: 0.9633, step time: 0.3698
    Batch 58/248, train_loss: 0.8411, step time: 0.3505
    Batch 59/248, train_loss: 0.8758, step time: 0.3670
    Batch 60/248, train_loss: 0.8341, step time: 0.3831
    Batch 61/248, train_loss: 0.8855, step time: 0.3839
    Batch 62/248, train_loss: 0.9879, step time: 0.3809
    Batch 63/248, train_loss: 0.9964, step time: 0.3656
    Batch 64/248, train_loss: 0.9947, step time: 0.3601
    Batch 65/248, train_loss: 0.9655, step time: 0.3706
    Batch 66/248, train_loss: 0.9634, step time: 0.3782
    Batch 67/248, train_loss: 0.6311, step time: 0.3577
    Batch 68/248, train_loss: 0.7956, step time: 0.3651
    Batch 69/248, train_loss: 0.9991, step time: 0.3467
    Batch 70/248, train_loss: 0.8458, step time: 0.3564
    Batch 71/248, train_loss: 0.7624, step time: 0.3555
    Batch 72/248, train_loss: 0.7935, step time: 0.3825
    Batch 73/248, train_loss: 0.8116, step time: 0.3463
    Batch 74/248, train_loss: 0.9999, step time: 0.3470
    Batch 75/248, train_loss: 0.8214, step time: 0.3581
```

Batch 76/248, train_loss: 0.9980, step time: 0.3846
Batch 77/248, train_loss: 0.9998, step time: 0.3686
Batch 78/248, train_loss: 0.9151, step time: 0.3475
Batch 79/248, train_loss: 0.9527, step time: 0.3516
Batch 80/248, train_loss: 0.9739, step time: 0.3471
Batch 81/248, train_loss: 0.9809, step time: 0.3632
Batch 82/248, train_loss: 0.8277, step time: 0.3518
Batch 83/248, train_loss: 0.9979, step time: 0.3525
Batch 84/248, train_loss: 0.9543, step time: 0.3461
Batch 85/248, train_loss: 0.9989, step time: 0.3591
Batch 86/248, train_loss: 0.8630, step time: 0.3701
Batch 87/248, train_loss: 0.9929, step time: 0.3546
Batch 88/248, train_loss: 0.9938, step time: 0.3704
Batch 89/248, train_loss: 0.5702, step time: 0.3550
Batch 90/248, train_loss: 0.9566, step time: 0.3481
Batch 91/248, train_loss: 0.9975, step time: 0.3771
Batch 92/248, train_loss: 0.9409, step time: 0.3417
Batch 93/248, train_loss: 0.8034, step time: 0.3843
Batch 94/248, train_loss: 0.9977, step time: 0.3490
Batch 95/248, train_loss: 0.9059, step time: 0.3545
Batch 96/248, train_loss: 0.8904, step time: 0.3440
Batch 97/248, train_loss: 1.0000, step time: 0.3440
Batch 98/248, train_loss: 0.7722, step time: 0.3774
Batch 99/248, train_loss: 0.9928, step time: 0.3729
Batch 100/248, train_loss: 0.9983, step time: 0.3800
Batch 101/248, train_loss: 0.4945, step time: 0.3716
Batch 102/248, train_loss: 0.9409, step time: 0.3741
Batch 103/248, train_loss: 0.9968, step time: 0.3730
Batch 104/248, train_loss: 0.9096, step time: 0.3595
Batch 105/248, train_loss: 0.7445, step time: 0.3854
Batch 106/248, train_loss: 0.9650, step time: 0.3803
Batch 107/248, train_loss: 0.9926, step time: 0.3815
Batch 108/248, train_loss: 0.9958, step time: 0.3454
Batch 109/248, train_loss: 0.9991, step time: 0.3772
Batch 110/248, train_loss: 0.9784, step time: 0.3697
Batch 111/248, train_loss: 0.7523, step time: 0.3423
Batch 112/248, train_loss: 0.7710, step time: 0.3677
Batch 113/248, train_loss: 0.9999, step time: 0.3440
Batch 114/248, train_loss: 0.5958, step time: 0.3497
Batch 115/248, train_loss: 0.9261, step time: 0.3457
Batch 116/248, train_loss: 0.7480, step time: 0.3505
Batch 117/248, train_loss: 0.9981, step time: 0.3610
Batch 118/248, train_loss: 0.9937, step time: 0.3536
Batch 119/248, train_loss: 0.9330, step time: 0.3815
Batch 120/248, train_loss: 0.9362, step time: 0.3674
Batch 121/248, train_loss: 0.9835, step time: 0.3426
Batch 122/248, train_loss: 0.9897, step time: 0.3489
Batch 123/248, train_loss: 0.8458, step time: 0.3440
Batch 124/248, train_loss: 0.9911, step time: 0.3687
Batch 125/248, train_loss: 0.9995, step time: 0.3803
Batch 126/248, train_loss: 0.7408, step time: 0.3551
Batch 127/248, train_loss: 0.9403, step time: 0.3748
Batch 128/248, train_loss: 0.9719, step time: 0.3425
Batch 129/248, train_loss: 0.6344, step time: 0.3610
Batch 130/248, train_loss: 0.6461, step time: 0.3609
Batch 131/248, train_loss: 0.9902, step time: 0.3488
Batch 132/248, train_loss: 0.9918, step time: 0.3542
Batch 133/248, train_loss: 0.4704, step time: 0.3803
Batch 134/248, train_loss: 1.0000, step time: 0.3585
Batch 135/248, train_loss: 0.9964, step time: 0.3762
Batch 136/248, train_loss: 0.9672, step time: 0.3576
Batch 137/248, train_loss: 0.6747, step time: 0.3761
Batch 138/248, train_loss: 0.7351, step time: 0.3528
Batch 139/248, train_loss: 0.7775, step time: 0.3850
Batch 140/248, train_loss: 0.9639, step time: 0.3874
Batch 141/248, train_loss: 0.8440, step time: 0.3749
Batch 142/248, train_loss: 0.9990, step time: 0.3617
Batch 143/248, train_loss: 0.9692, step time: 0.3816
Batch 144/248, train_loss: 0.7567, step time: 0.3482
Batch 145/248, train_loss: 0.4498, step time: 0.3426
Batch 146/248, train_loss: 0.9996, step time: 0.3458
Batch 147/248, train_loss: 0.4240, step time: 0.3508
Batch 148/248, train_loss: 0.9921, step time: 0.3685
Batch 149/248, train_loss: 0.9301, step time: 0.3421
Batch 150/248, train_loss: 0.8397, step time: 0.3791
Batch 151/248, train_loss: 0.9894, step time: 0.3447
Batch 152/248, train_loss: 0.4702, step time: 0.3649
Batch 153/248, train_loss: 0.9879, step time: 0.3454
Batch 154/248, train_loss: 0.9975, step time: 0.3709
Batch 155/248, train_loss: 0.9312, step time: 0.3805
Batch 156/248, train_loss: 0.9380, step time: 0.3536
Batch 157/248, train_loss: 0.7547, step time: 0.3655
Batch 158/248, train_loss: 0.9996, step time: 0.3813
Batch 159/248, train_loss: 0.9992, step time: 0.3660
Batch 160/248, train_loss: 0.8434, step time: 0.3454

Batch 161/248, train_loss: 0.9371, step time: 0.3466
Batch 162/248, train_loss: 0.3969, step time: 0.3532
Batch 163/248, train_loss: 0.9939, step time: 0.3778
Batch 164/248, train_loss: 0.9365, step time: 0.3798
Batch 165/248, train_loss: 0.9996, step time: 0.3451
Batch 166/248, train_loss: 0.9858, step time: 0.3570
Batch 167/248, train_loss: 0.9390, step time: 0.3498
Batch 168/248, train_loss: 0.9376, step time: 0.3666
Batch 169/248, train_loss: 0.8625, step time: 0.3425
Batch 170/248, train_loss: 0.9965, step time: 0.3767
Batch 171/248, train_loss: 0.5574, step time: 0.3551
Batch 172/248, train_loss: 0.9997, step time: 0.3761
Batch 173/248, train_loss: 0.7491, step time: 0.3740
Batch 174/248, train_loss: 0.9998, step time: 0.3472
Batch 175/248, train_loss: 0.5979, step time: 0.3804
Batch 176/248, train_loss: 0.9635, step time: 0.3615
Batch 177/248, train_loss: 0.9993, step time: 0.3758
Batch 178/248, train_loss: 0.8276, step time: 0.3578
Batch 179/248, train_loss: 0.3439, step time: 0.3847
Batch 180/248, train_loss: 0.9355, step time: 0.3483
Batch 181/248, train_loss: 0.7001, step time: 0.3643
Batch 182/248, train_loss: 0.9875, step time: 0.3587
Batch 183/248, train_loss: 0.9300, step time: 0.3448
Batch 184/248, train_loss: 0.9864, step time: 0.3801
Batch 185/248, train_loss: 0.9336, step time: 0.3564
Batch 186/248, train_loss: 0.8580, step time: 0.3609
Batch 187/248, train_loss: 0.8669, step time: 0.3772
Batch 188/248, train_loss: 0.9405, step time: 0.3801
Batch 189/248, train_loss: 0.9999, step time: 0.3452
Batch 190/248, train_loss: 0.8728, step time: 0.3696
Batch 191/248, train_loss: 0.9989, step time: 0.3649
Batch 192/248, train_loss: 0.8414, step time: 0.3423
Batch 193/248, train_loss: 0.9662, step time: 0.3481
Batch 194/248, train_loss: 0.9613, step time: 0.3601
Batch 195/248, train_loss: 0.9992, step time: 0.3813
Batch 196/248, train_loss: 1.0000, step time: 0.3460
Batch 197/248, train_loss: 0.9805, step time: 0.3808
Batch 198/248, train_loss: 0.9998, step time: 0.3833
Batch 199/248, train_loss: 0.9421, step time: 0.3487
Batch 200/248, train_loss: 0.9300, step time: 0.3418
Batch 201/248, train_loss: 0.8341, step time: 0.3444
Batch 202/248, train_loss: 0.9634, step time: 0.3749
Batch 203/248, train_loss: 0.9977, step time: 0.3628
Batch 204/248, train_loss: 0.6379, step time: 0.3464
Batch 205/248, train_loss: 0.9851, step time: 0.3738
Batch 206/248, train_loss: 0.9991, step time: 0.3446
Batch 207/248, train_loss: 0.8141, step time: 0.3522
Batch 208/248, train_loss: 0.9322, step time: 0.3490
Batch 209/248, train_loss: 0.8999, step time: 0.3870
Batch 210/248, train_loss: 0.8103, step time: 0.3492
Batch 211/248, train_loss: 0.8021, step time: 0.3437
Batch 212/248, train_loss: 0.9717, step time: 0.3761
Batch 213/248, train_loss: 0.9679, step time: 0.3456
Batch 214/248, train_loss: 0.8792, step time: 0.3573
Batch 215/248, train_loss: 0.9780, step time: 0.3504
Batch 216/248, train_loss: 0.8154, step time: 0.3505
Batch 217/248, train_loss: 0.9891, step time: 0.3854
Batch 218/248, train_loss: 0.9988, step time: 0.3736
Batch 219/248, train_loss: 0.8813, step time: 0.3837
Batch 220/248, train_loss: 0.9784, step time: 0.3785
Batch 221/248, train_loss: 0.9729, step time: 0.3725
Batch 222/248, train_loss: 0.8307, step time: 0.3650
Batch 223/248, train_loss: 0.6755, step time: 0.3430
Batch 224/248, train_loss: 0.7919, step time: 0.3432
Batch 225/248, train_loss: 0.9978, step time: 0.3506
Batch 226/248, train_loss: 0.9875, step time: 0.3526
Batch 227/248, train_loss: 0.8781, step time: 0.3715
Batch 228/248, train_loss: 0.9737, step time: 0.3740
Batch 229/248, train_loss: 0.6523, step time: 0.3430
Batch 230/248, train_loss: 0.8987, step time: 0.3616
Batch 231/248, train_loss: 0.9972, step time: 0.3482
Batch 232/248, train_loss: 0.8813, step time: 0.3837
Batch 233/248, train_loss: 0.9999, step time: 0.3762
Batch 234/248, train_loss: 0.9969, step time: 0.3751
Batch 235/248, train_loss: 0.9952, step time: 0.3853
Batch 236/248, train_loss: 0.9994, step time: 0.3724
Batch 237/248, train_loss: 0.7016, step time: 0.3649
Batch 238/248, train_loss: 0.8498, step time: 0.3427
Batch 239/248, train_loss: 0.2873, step time: 0.3571
Batch 240/248, train_loss: 0.9633, step time: 0.3841
Batch 241/248, train_loss: 0.9997, step time: 0.3477
Batch 242/248, train_loss: 0.9861, step time: 0.3441
Batch 243/248, train_loss: 0.9996, step time: 0.3749
Batch 244/248, train_loss: 0.9968, step time: 0.3624
Batch 245/248, train_loss: 0.8491, step time: 0.3468

```
Batch 245/248, train_loss: 0.9954, step time: 0.3400  
Batch 246/248, train_loss: 0.9959, step time: 0.3435  
Batch 247/248, train_loss: 0.9970, step time: 0.3600  
Batch 248/248, train_loss: 1.0000, step time: 0.3749
```

Labels



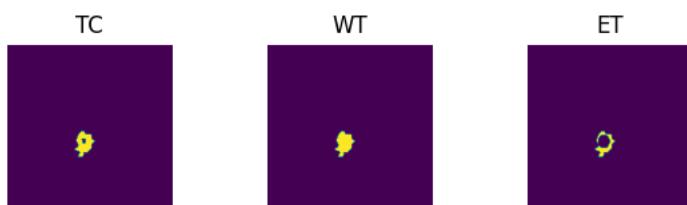
Predictions



VAL

```
Batch 1/31, val_loss: 0.9403  
Batch 2/31, val_loss: 1.0000  
Batch 3/31, val_loss: 0.9995  
Batch 4/31, val_loss: 0.9871  
Batch 5/31, val_loss: 1.0000  
Batch 6/31, val_loss: 0.8112  
Batch 7/31, val_loss: 0.9566  
Batch 8/31, val_loss: 0.9928  
Batch 9/31, val_loss: 0.8709  
Batch 10/31, val_loss: 0.9944  
Batch 11/31, val_loss: 0.9736  
Batch 12/31, val_loss: 0.9942  
Batch 13/31, val_loss: 0.9867  
Batch 14/31, val_loss: 0.9924  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9988  
Batch 17/31, val_loss: 0.9994  
Batch 18/31, val_loss: 0.9927  
Batch 19/31, val_loss: 0.9155  
Batch 20/31, val_loss: 0.9664  
Batch 21/31, val_loss: 0.9897  
Batch 22/31, val_loss: 0.9977  
Batch 23/31, val_loss: 0.9991  
Batch 24/31, val_loss: 0.8396  
Batch 25/31, val_loss: 0.9469  
Batch 26/31, val_loss: 0.9925  
Batch 27/31, val_loss: 0.9996  
Batch 28/31, val_loss: 0.9291  
Batch 29/31, val_loss: 1.0000  
Batch 30/31, val_loss: 0.9993  
Batch 31/31, val_loss: 0.9985
```

Labels



Predictions



epoch 18

```
average train loss: 0.8909  
average validation loss: 0.9698
```

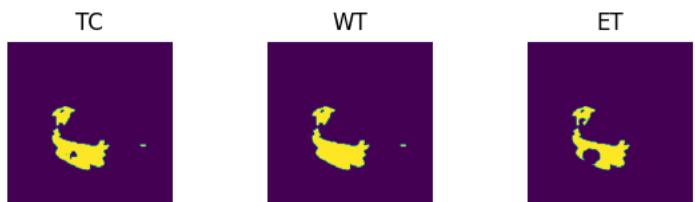
```
saved as best model: False
current mean dice: 0.0939
current TC dice: 0.0981
current WT dice: 0.0995
current ET dice: 0.0929
Best Mean Metric: 0.0986
time consuming of epoch 18 is: 1470.3933
-----
epoch 19/100
TRAIN
    Batch 1/248, train_loss: 0.6738, step time: 0.3711
    Batch 2/248, train_loss: 0.9998, step time: 0.3450
    Batch 3/248, train_loss: 0.9931, step time: 0.3601
    Batch 4/248, train_loss: 0.9997, step time: 0.3457
    Batch 5/248, train_loss: 0.9675, step time: 0.3659
    Batch 6/248, train_loss: 0.9643, step time: 0.3696
    Batch 7/248, train_loss: 0.5000, step time: 0.3780
    Batch 8/248, train_loss: 0.8995, step time: 0.3622
    Batch 9/248, train_loss: 0.6838, step time: 0.3452
    Batch 10/248, train_loss: 0.9863, step time: 0.3538
    Batch 11/248, train_loss: 0.9677, step time: 0.3873
    Batch 12/248, train_loss: 0.9987, step time: 0.3663
    Batch 13/248, train_loss: 0.9930, step time: 0.3851
    Batch 14/248, train_loss: 0.4084, step time: 0.3542
    Batch 15/248, train_loss: 0.9837, step time: 0.3658
    Batch 16/248, train_loss: 0.9615, step time: 0.3614
    Batch 17/248, train_loss: 0.9987, step time: 0.3716
    Batch 18/248, train_loss: 0.9951, step time: 0.3792
    Batch 19/248, train_loss: 0.6783, step time: 0.3449
    Batch 20/248, train_loss: 0.9492, step time: 0.3462
    Batch 21/248, train_loss: 0.8669, step time: 0.3677
    Batch 22/248, train_loss: 0.9999, step time: 0.3604
    Batch 23/248, train_loss: 0.9993, step time: 0.3536
    Batch 24/248, train_loss: 0.8795, step time: 0.3627
    Batch 25/248, train_loss: 0.4010, step time: 0.3452
    Batch 26/248, train_loss: 0.9968, step time: 0.3447
    Batch 27/248, train_loss: 0.6422, step time: 0.3452
    Batch 28/248, train_loss: 0.9590, step time: 0.3485
    Batch 29/248, train_loss: 0.9983, step time: 0.3556
    Batch 30/248, train_loss: 0.9845, step time: 0.3468
    Batch 31/248, train_loss: 0.9830, step time: 0.3750
    Batch 32/248, train_loss: 0.8502, step time: 0.3516
    Batch 33/248, train_loss: 0.6279, step time: 0.3677
    Batch 34/248, train_loss: 0.7448, step time: 0.3738
    Batch 35/248, train_loss: 0.8870, step time: 0.3433
    Batch 36/248, train_loss: 0.9999, step time: 0.3702
    Batch 37/248, train_loss: 0.8926, step time: 0.3419
    Batch 38/248, train_loss: 0.9796, step time: 0.3729
    Batch 39/248, train_loss: 0.9073, step time: 0.3791
    Batch 40/248, train_loss: 0.9998, step time: 0.3612
    Batch 41/248, train_loss: 0.8098, step time: 0.3524
    Batch 42/248, train_loss: 0.8104, step time: 0.3765
    Batch 43/248, train_loss: 0.7021, step time: 0.3665
    Batch 44/248, train_loss: 0.9103, step time: 0.3576
    Batch 45/248, train_loss: 0.9864, step time: 0.3459
    Batch 46/248, train_loss: 0.9223, step time: 0.3467
    Batch 47/248, train_loss: 0.9520, step time: 0.3470
    Batch 48/248, train_loss: 0.9258, step time: 0.3705
    Batch 49/248, train_loss: 0.9947, step time: 0.3575
    Batch 50/248, train_loss: 0.9621, step time: 0.3436
    Batch 51/248, train_loss: 0.9491, step time: 0.3688
    Batch 52/248, train_loss: 0.9222, step time: 0.3759
    Batch 53/248, train_loss: 0.9813, step time: 0.3539
    Batch 54/248, train_loss: 0.9482, step time: 0.3638
    Batch 55/248, train_loss: 0.9860, step time: 0.3540
    Batch 56/248, train_loss: 0.9514, step time: 0.3584
    Batch 57/248, train_loss: 0.9601, step time: 0.3834
    Batch 58/248, train_loss: 0.8250, step time: 0.3499
    Batch 59/248, train_loss: 0.8623, step time: 0.3434
    Batch 60/248, train_loss: 0.8182, step time: 0.3594
    Batch 61/248, train_loss: 0.8707, step time: 0.3593
    Batch 62/248, train_loss: 0.9871, step time: 0.3478
    Batch 63/248, train_loss: 0.9978, step time: 0.3480
    Batch 64/248, train_loss: 0.9945, step time: 0.3626
    Batch 65/248, train_loss: 0.9665, step time: 0.3820
    Batch 66/248, train_loss: 0.9606, step time: 0.3575
    Batch 67/248, train_loss: 0.6021, step time: 0.3655
    Batch 68/248, train_loss: 0.7770, step time: 0.3614
    Batch 69/248, train_loss: 0.9991, step time: 0.3738
    Batch 70/248, train_loss: 0.8308, step time: 0.3852
    Batch 71/248, train_loss: 0.7425, step time: 0.3683
    Batch 72/248, train_loss: 0.7702, step time: 0.3424
    Batch 73/248, train_loss: 0.7945, step time: 0.3851
    Batch 74/248, train_loss: 0.9999, step time: 0.3683
    Batch 75/248, train loss: 0.8071, step time: 0.3469
```

Batch 76/248, train_loss: 0.9979, step time: 0.3662
Batch 77/248, train_loss: 0.9998, step time: 0.3445
Batch 78/248, train_loss: 0.9069, step time: 0.3784
Batch 79/248, train_loss: 0.9477, step time: 0.3671
Batch 80/248, train_loss: 0.9691, step time: 0.3807
Batch 81/248, train_loss: 0.9787, step time: 0.3641
Batch 82/248, train_loss: 0.8091, step time: 0.3659
Batch 83/248, train_loss: 0.9970, step time: 0.3726
Batch 84/248, train_loss: 0.9507, step time: 0.3480
Batch 85/248, train_loss: 0.9984, step time: 0.3537
Batch 86/248, train_loss: 0.8525, step time: 0.3759
Batch 87/248, train_loss: 0.9915, step time: 0.3830
Batch 88/248, train_loss: 0.9931, step time: 0.3685
Batch 89/248, train_loss: 0.5350, step time: 0.3750
Batch 90/248, train_loss: 0.9513, step time: 0.3717
Batch 91/248, train_loss: 0.9971, step time: 0.3881
Batch 92/248, train_loss: 0.9367, step time: 0.3433
Batch 93/248, train_loss: 0.7832, step time: 0.3488
Batch 94/248, train_loss: 0.9975, step time: 0.3480
Batch 95/248, train_loss: 0.9006, step time: 0.3664
Batch 96/248, train_loss: 0.8790, step time: 0.3491
Batch 97/248, train_loss: 0.9999, step time: 0.3633
Batch 98/248, train_loss: 0.7535, step time: 0.3684
Batch 99/248, train_loss: 0.9916, step time: 0.3743
Batch 100/248, train_loss: 0.9981, step time: 0.3511
Batch 101/248, train_loss: 0.4547, step time: 0.3836
Batch 102/248, train_loss: 0.9445, step time: 0.3475
Batch 103/248, train_loss: 0.9966, step time: 0.3522
Batch 104/248, train_loss: 0.8998, step time: 0.3496
Batch 105/248, train_loss: 0.7225, step time: 0.3535
Batch 106/248, train_loss: 0.9614, step time: 0.3575
Batch 107/248, train_loss: 0.9918, step time: 0.3785
Batch 108/248, train_loss: 0.9955, step time: 0.3598
Batch 109/248, train_loss: 0.9990, step time: 0.3882
Batch 110/248, train_loss: 0.9737, step time: 0.3412
Batch 111/248, train_loss: 0.7291, step time: 0.3668
Batch 112/248, train_loss: 0.7508, step time: 0.3799
Batch 113/248, train_loss: 0.9999, step time: 0.3412
Batch 114/248, train_loss: 0.5567, step time: 0.3708
Batch 115/248, train_loss: 0.9185, step time: 0.3477
Batch 116/248, train_loss: 0.7185, step time: 0.3455
Batch 117/248, train_loss: 0.9979, step time: 0.3613
Batch 118/248, train_loss: 0.9952, step time: 0.3474
Batch 119/248, train_loss: 0.9330, step time: 0.3796
Batch 120/248, train_loss: 0.9309, step time: 0.3429
Batch 121/248, train_loss: 0.9821, step time: 0.3714
Batch 122/248, train_loss: 0.9890, step time: 0.3509
Batch 123/248, train_loss: 0.8305, step time: 0.3781
Batch 124/248, train_loss: 0.9899, step time: 0.3583
Batch 125/248, train_loss: 0.9981, step time: 0.3731
Batch 126/248, train_loss: 0.7127, step time: 0.3857
Batch 127/248, train_loss: 0.9359, step time: 0.3432
Batch 128/248, train_loss: 0.9703, step time: 0.3643
Batch 129/248, train_loss: 0.6064, step time: 0.3586
Batch 130/248, train_loss: 0.6149, step time: 0.3415
Batch 131/248, train_loss: 0.9892, step time: 0.3418
Batch 132/248, train_loss: 0.9914, step time: 0.3467
Batch 133/248, train_loss: 0.4475, step time: 0.3648
Batch 134/248, train_loss: 1.0000, step time: 0.3668
Batch 135/248, train_loss: 0.9951, step time: 0.3514
Batch 136/248, train_loss: 0.9643, step time: 0.3459
Batch 137/248, train_loss: 0.6431, step time: 0.3639
Batch 138/248, train_loss: 0.7097, step time: 0.3418
Batch 139/248, train_loss: 0.7620, step time: 0.3823
Batch 140/248, train_loss: 0.9606, step time: 0.3756
Batch 141/248, train_loss: 0.8356, step time: 0.3668
Batch 142/248, train_loss: 0.9990, step time: 0.3823
Batch 143/248, train_loss: 0.9674, step time: 0.3517
Batch 144/248, train_loss: 0.7207, step time: 0.3526
Batch 145/248, train_loss: 0.4280, step time: 0.3750
Batch 146/248, train_loss: 0.9996, step time: 0.3414
Batch 147/248, train_loss: 0.3909, step time: 0.3735
Batch 148/248, train_loss: 0.9927, step time: 0.3413
Batch 149/248, train_loss: 0.9244, step time: 0.3490
Batch 150/248, train_loss: 0.8170, step time: 0.3428
Batch 151/248, train_loss: 0.9887, step time: 0.3841
Batch 152/248, train_loss: 0.4307, step time: 0.3520
Batch 153/248, train_loss: 0.9862, step time: 0.3792
Batch 154/248, train_loss: 0.9972, step time: 0.3756
Batch 155/248, train_loss: 0.9256, step time: 0.3765
Batch 156/248, train_loss: 0.9303, step time: 0.3461
Batch 157/248, train_loss: 0.7341, step time: 0.3821
Batch 158/248, train_loss: 0.9997, step time: 0.3420
Batch 159/248, train_loss: 0.9994, step time: 0.3653
Batch 160/248, train_loss: 0.9321, step time: 0.3427

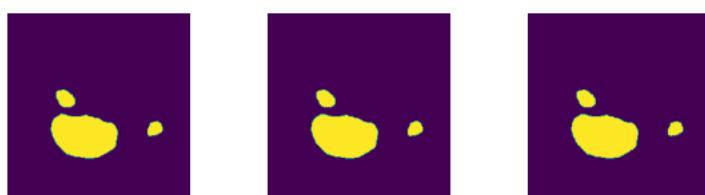
Batch 100/248, train_loss: 0.0554, step time: 0.3427
Batch 101/248, train_loss: 0.9302, step time: 0.3578
Batch 102/248, train_loss: 0.3654, step time: 0.3491
Batch 103/248, train_loss: 0.9932, step time: 0.3469
Batch 104/248, train_loss: 0.9317, step time: 0.3728
Batch 105/248, train_loss: 0.9995, step time: 0.3427
Batch 106/248, train_loss: 0.9845, step time: 0.3610
Batch 107/248, train_loss: 0.9323, step time: 0.3676
Batch 108/248, train_loss: 0.9306, step time: 0.3841
Batch 109/248, train_loss: 0.8424, step time: 0.3791
Batch 110/248, train_loss: 0.9942, step time: 0.3580
Batch 111/248, train_loss: 0.5293, step time: 0.3825
Batch 112/248, train_loss: 0.9998, step time: 0.3769
Batch 113/248, train_loss: 0.7277, step time: 0.3567
Batch 114/248, train_loss: 0.9970, step time: 0.3765
Batch 115/248, train_loss: 0.5701, step time: 0.3867
Batch 116/248, train_loss: 0.9589, step time: 0.3572
Batch 117/248, train_loss: 0.9996, step time: 0.3721
Batch 118/248, train_loss: 0.8133, step time: 0.3448
Batch 119/248, train_loss: 0.3132, step time: 0.3477
Batch 120/248, train_loss: 0.9298, step time: 0.3796
Batch 121/248, train_loss: 0.6755, step time: 0.3765
Batch 122/248, train_loss: 0.9860, step time: 0.3886
Batch 123/248, train_loss: 0.9250, step time: 0.3562
Batch 124/248, train_loss: 0.9858, step time: 0.3650
Batch 125/248, train_loss: 0.9309, step time: 0.3489
Batch 126/248, train_loss: 0.8475, step time: 0.3568
Batch 127/248, train_loss: 0.8597, step time: 0.3614
Batch 128/248, train_loss: 0.9333, step time: 0.3860
Batch 129/248, train_loss: 0.9999, step time: 0.3656
Batch 130/248, train_loss: 0.8634, step time: 0.3508
Batch 131/248, train_loss: 0.9993, step time: 0.3794
Batch 132/248, train_loss: 0.8295, step time: 0.3827
Batch 133/248, train_loss: 0.9637, step time: 0.3775
Batch 134/248, train_loss: 0.9575, step time: 0.3469
Batch 135/248, train_loss: 0.9990, step time: 0.3730
Batch 136/248, train_loss: 1.0000, step time: 0.3415
Batch 137/248, train_loss: 0.9779, step time: 0.3863
Batch 138/248, train_loss: 0.9998, step time: 0.3459
Batch 139/248, train_loss: 0.9397, step time: 0.3825
Batch 140/248, train_loss: 0.9256, step time: 0.3423
Batch 141/248, train_loss: 0.8208, step time: 0.3510
Batch 142/248, train_loss: 0.9605, step time: 0.3833
Batch 143/248, train_loss: 0.9973, step time: 0.3449
Batch 144/248, train_loss: 0.6131, step time: 0.3733
Batch 145/248, train_loss: 0.9837, step time: 0.3742
Batch 146/248, train_loss: 0.9990, step time: 0.3809
Batch 147/248, train_loss: 0.7943, step time: 0.3585
Batch 148/248, train_loss: 0.9270, step time: 0.3845
Batch 149/248, train_loss: 0.8910, step time: 0.3500
Batch 150/248, train_loss: 0.7921, step time: 0.3629
Batch 151/248, train_loss: 0.7809, step time: 0.3680
Batch 152/248, train_loss: 0.9888, step time: 0.3783
Batch 153/248, train_loss: 0.9642, step time: 0.3658
Batch 154/248, train_loss: 0.8689, step time: 0.3511
Batch 155/248, train_loss: 0.9776, step time: 0.3699
Batch 156/248, train_loss: 0.8043, step time: 0.3790
Batch 157/248, train_loss: 0.9882, step time: 0.3486
Batch 158/248, train_loss: 0.9988, step time: 0.3478
Batch 159/248, train_loss: 0.8705, step time: 0.3435
Batch 160/248, train_loss: 0.9767, step time: 0.3779
Batch 161/248, train_loss: 0.9699, step time: 0.3553
Batch 162/248, train_loss: 0.8216, step time: 0.3807
Batch 163/248, train_loss: 0.6449, step time: 0.3614
Batch 164/248, train_loss: 0.7781, step time: 0.3422
Batch 165/248, train_loss: 0.9977, step time: 0.3846
Batch 166/248, train_loss: 0.9866, step time: 0.3741
Batch 167/248, train_loss: 0.8723, step time: 0.3759
Batch 168/248, train_loss: 0.9717, step time: 0.3427
Batch 169/248, train_loss: 0.6145, step time: 0.3585
Batch 170/248, train_loss: 0.8839, step time: 0.3879
Batch 171/248, train_loss: 0.9971, step time: 0.3567
Batch 172/248, train_loss: 0.8693, step time: 0.3466
Batch 173/248, train_loss: 1.0000, step time: 0.3628
Batch 174/248, train_loss: 0.9970, step time: 0.3658
Batch 175/248, train_loss: 0.9963, step time: 0.3452
Batch 176/248, train_loss: 0.9993, step time: 0.3835
Batch 177/248, train_loss: 0.6742, step time: 0.3826
Batch 178/248, train_loss: 0.8329, step time: 0.3661
Batch 179/248, train_loss: 0.2436, step time: 0.3477
Batch 180/248, train_loss: 0.9597, step time: 0.3669
Batch 181/248, train_loss: 0.9999, step time: 0.3714
Batch 182/248, train_loss: 0.9836, step time: 0.3572
Batch 183/248, train_loss: 0.9994, step time: 0.3487
Batch 184/248, train_loss: 0.9960, step time: 0.3809
... - - - - -

```
Batch 245/248, train_loss: 0.8009, step time: 0.3791  
Batch 246/248, train_loss: 0.9959, step time: 0.3435  
Batch 247/248, train_loss: 0.4374, step time: 0.3822  
Batch 248/248, train_loss: 1.0000, step time: 0.3417
```

Labels



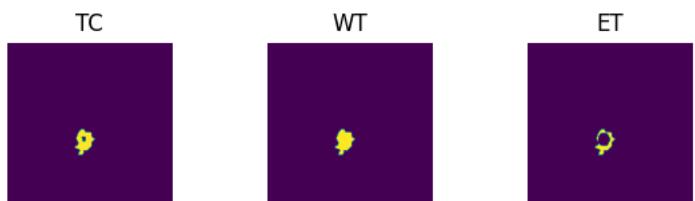
Predictions



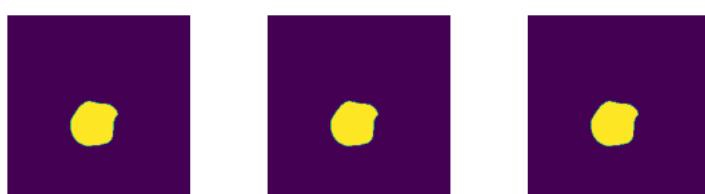
VAL

```
Batch 1/31, val_loss: 0.9230  
Batch 2/31, val_loss: 0.9999  
Batch 3/31, val_loss: 0.9987  
Batch 4/31, val_loss: 0.9896  
Batch 5/31, val_loss: 1.0000  
Batch 6/31, val_loss: 0.7880  
Batch 7/31, val_loss: 0.9527  
Batch 8/31, val_loss: 0.9961  
Batch 9/31, val_loss: 0.8486  
Batch 10/31, val_loss: 0.9924  
Batch 11/31, val_loss: 0.9636  
Batch 12/31, val_loss: 0.9874  
Batch 13/31, val_loss: 0.9912  
Batch 14/31, val_loss: 0.9885  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9987  
Batch 17/31, val_loss: 0.9992  
Batch 18/31, val_loss: 0.9881  
Batch 19/31, val_loss: 0.9110  
Batch 20/31, val_loss: 0.9630  
Batch 21/31, val_loss: 0.9872  
Batch 22/31, val_loss: 0.9982  
Batch 23/31, val_loss: 0.9987  
Batch 24/31, val_loss: 0.8155  
Batch 25/31, val_loss: 0.9365  
Batch 26/31, val_loss: 0.9900  
Batch 27/31, val_loss: 0.9996  
Batch 28/31, val_loss: 0.9287  
Batch 29/31, val_loss: 0.9998  
Batch 30/31, val_loss: 0.9989  
Batch 31/31, val_loss: 0.9981
```

Labels



Predictions



epoch 19

```
average train loss: 0.8820  
average validation loss: 0.9655
```

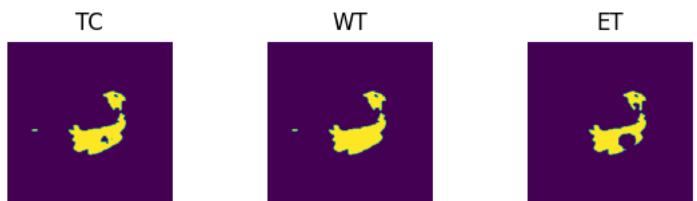
```
-----  
saved as best model: True  
current mean dice: 0.1231  
current TC dice: 0.1285  
current WT dice: 0.1304  
current ET dice: 0.1223  
Best Mean Metric: 0.1231  
time consuming of epoch 19 is: 1477.8857  
-----  
epoch 20/100  
TRAIN  
Batch 1/248, train_loss: 0.5945, step time: 0.3739  
Batch 2/248, train_loss: 0.9997, step time: 0.3546  
Batch 3/248, train_loss: 0.9920, step time: 0.3793  
Batch 4/248, train_loss: 0.9997, step time: 0.3470  
Batch 5/248, train_loss: 0.9604, step time: 0.3678  
Batch 6/248, train_loss: 0.9554, step time: 0.3464  
Batch 7/248, train_loss: 0.4473, step time: 0.3660  
Batch 8/248, train_loss: 0.8787, step time: 0.3666  
Batch 9/248, train_loss: 0.6384, step time: 0.3439  
Batch 10/248, train_loss: 0.9842, step time: 0.3738  
Batch 11/248, train_loss: 0.9630, step time: 0.3832  
Batch 12/248, train_loss: 0.9986, step time: 0.3592  
Batch 13/248, train_loss: 0.9898, step time: 0.3476  
Batch 14/248, train_loss: 0.3677, step time: 0.3787  
Batch 15/248, train_loss: 0.9807, step time: 0.3837  
Batch 16/248, train_loss: 0.9549, step time: 0.3449  
Batch 17/248, train_loss: 0.9986, step time: 0.3407  
Batch 18/248, train_loss: 0.9944, step time: 0.3734  
Batch 19/248, train_loss: 0.6458, step time: 0.3619  
Batch 20/248, train_loss: 0.9427, step time: 0.3816  
Batch 21/248, train_loss: 0.8406, step time: 0.3804  
Batch 22/248, train_loss: 0.9999, step time: 0.3857  
Batch 23/248, train_loss: 0.9992, step time: 0.3636  
Batch 24/248, train_loss: 0.8643, step time: 0.3546  
Batch 25/248, train_loss: 0.3589, step time: 0.3703  
Batch 26/248, train_loss: 0.9957, step time: 0.3446  
Batch 27/248, train_loss: 0.6054, step time: 0.3433  
Batch 28/248, train_loss: 0.9534, step time: 0.3779  
Batch 29/248, train_loss: 0.9981, step time: 0.3610  
Batch 30/248, train_loss: 0.9565, step time: 0.3866  
Batch 31/248, train_loss: 0.9815, step time: 0.3413  
Batch 32/248, train_loss: 0.8294, step time: 0.3459  
Batch 33/248, train_loss: 0.5892, step time: 0.3469  
Batch 34/248, train_loss: 0.7113, step time: 0.3823  
Batch 35/248, train_loss: 0.8634, step time: 0.3746  
Batch 36/248, train_loss: 0.9998, step time: 0.3497  
Batch 37/248, train_loss: 0.8779, step time: 0.3856  
Batch 38/248, train_loss: 0.9759, step time: 0.3483  
Batch 39/248, train_loss: 0.8947, step time: 0.3477  
Batch 40/248, train_loss: 0.9997, step time: 0.3629  
Batch 41/248, train_loss: 0.7848, step time: 0.3465  
Batch 42/248, train_loss: 0.7893, step time: 0.3423  
Batch 43/248, train_loss: 0.6687, step time: 0.3777  
Batch 44/248, train_loss: 0.8976, step time: 0.3420  
Batch 45/248, train_loss: 0.9854, step time: 0.3444  
Batch 46/248, train_loss: 0.9150, step time: 0.3519  
Batch 47/248, train_loss: 0.9463, step time: 0.3680  
Batch 48/248, train_loss: 0.9129, step time: 0.3816  
Batch 49/248, train_loss: 0.9938, step time: 0.3786  
Batch 50/248, train_loss: 0.9573, step time: 0.3448  
Batch 51/248, train_loss: 0.9440, step time: 0.3438  
Batch 52/248, train_loss: 0.9134, step time: 0.3467  
Batch 53/248, train_loss: 0.9786, step time: 0.3476  
Batch 54/248, train_loss: 0.9431, step time: 0.3468  
Batch 55/248, train_loss: 0.9836, step time: 0.3487  
Batch 56/248, train_loss: 0.9464, step time: 0.3732  
Batch 57/248, train_loss: 0.9555, step time: 0.3686  
Batch 58/248, train_loss: 0.8070, step time: 0.3423  
Batch 59/248, train_loss: 0.8514, step time: 0.3501  
Batch 60/248, train_loss: 0.8005, step time: 0.3453  
Batch 61/248, train_loss: 0.8566, step time: 0.3476  
Batch 62/248, train_loss: 0.9853, step time: 0.3870  
Batch 63/248, train_loss: 0.9972, step time: 0.3502  
Batch 64/248, train_loss: 0.9958, step time: 0.3442  
Batch 65/248, train_loss: 0.9574, step time: 0.3558  
Batch 66/248, train_loss: 0.9546, step time: 0.3733  
Batch 67/248, train_loss: 0.5663, step time: 0.3777  
Batch 68/248, train_loss: 0.7553, step time: 0.3475  
Batch 69/248, train_loss: 0.9991, step time: 0.3734  
Batch 70/248, train_loss: 0.8114, step time: 0.3639  
Batch 71/248, train_loss: 0.7227, step time: 0.3505  
Batch 72/248, train_loss: 0.7463, step time: 0.3457  
Batch 73/248, train_loss: 0.7768, step time: 0.3882  
Batch 74/248, train_loss: 0.9998, step time: 0.3684  
Batch 75/248, train_loss: 0.7845, step time: 0.3609
```

Batch 1/248, train_loss: 0.7045, step time: 0.3590
Batch 2/248, train_loss: 0.9977, step time: 0.3711
Batch 3/248, train_loss: 0.9998, step time: 0.3853
Batch 4/248, train_loss: 0.8957, step time: 0.3573
Batch 5/248, train_loss: 0.9431, step time: 0.3637
Batch 6/248, train_loss: 0.9649, step time: 0.3813
Batch 7/248, train_loss: 0.9769, step time: 0.3744
Batch 8/248, train_loss: 0.7887, step time: 0.3614
Batch 9/248, train_loss: 0.9956, step time: 0.3562
Batch 10/248, train_loss: 0.9449, step time: 0.3697
Batch 11/248, train_loss: 0.9979, step time: 0.3776
Batch 12/248, train_loss: 0.8399, step time: 0.3688
Batch 13/248, train_loss: 0.9905, step time: 0.3819
Batch 14/248, train_loss: 0.9927, step time: 0.3772
Batch 15/248, train_loss: 0.4960, step time: 0.3440
Batch 16/248, train_loss: 0.9487, step time: 0.3414
Batch 17/248, train_loss: 0.9969, step time: 0.3513
Batch 18/248, train_loss: 0.9377, step time: 0.3821
Batch 19/248, train_loss: 0.7638, step time: 0.3552
Batch 20/248, train_loss: 0.9972, step time: 0.3551
Batch 21/248, train_loss: 0.8882, step time: 0.3790
Batch 22/248, train_loss: 0.8675, step time: 0.3537
Batch 23/248, train_loss: 1.0000, step time: 0.3481
Batch 24/248, train_loss: 0.7357, step time: 0.3862
Batch 25/248, train_loss: 0.9908, step time: 0.3773
Batch 26/248, train_loss: 0.9984, step time: 0.3532
Batch 27/248, train_loss: 0.4201, step time: 0.3791
Batch 28/248, train_loss: 0.9295, step time: 0.3401
Batch 29/248, train_loss: 0.9961, step time: 0.3442
Batch 30/248, train_loss: 0.8894, step time: 0.3493
Batch 31/248, train_loss: 0.6962, step time: 0.3838
Batch 32/248, train_loss: 0.9576, step time: 0.3480
Batch 33/248, train_loss: 0.9908, step time: 0.3677
Batch 34/248, train_loss: 0.9940, step time: 0.3828
Batch 35/248, train_loss: 0.9993, step time: 0.3736
Batch 36/248, train_loss: 0.9734, step time: 0.3435
Batch 37/248, train_loss: 0.7006, step time: 0.3440
Batch 38/248, train_loss: 0.7276, step time: 0.3834
Batch 39/248, train_loss: 0.9999, step time: 0.3839
Batch 40/248, train_loss: 0.5240, step time: 0.3575
Batch 41/248, train_loss: 0.9086, step time: 0.3442
Batch 42/248, train_loss: 0.6958, step time: 0.3904
Batch 43/248, train_loss: 0.9974, step time: 0.3711
Batch 44/248, train_loss: 0.9926, step time: 0.3474
Batch 45/248, train_loss: 0.9245, step time: 0.3678
Batch 46/248, train_loss: 0.9252, step time: 0.3516
Batch 47/248, train_loss: 0.9802, step time: 0.3872
Batch 48/248, train_loss: 0.9893, step time: 0.3472
Batch 49/248, train_loss: 0.8150, step time: 0.3686
Batch 50/248, train_loss: 0.9891, step time: 0.3823
Batch 51/248, train_loss: 0.9988, step time: 0.3425
Batch 52/248, train_loss: 0.6858, step time: 0.3822
Batch 53/248, train_loss: 0.9283, step time: 0.3590
Batch 54/248, train_loss: 0.9668, step time: 0.3407
Batch 55/248, train_loss: 0.5771, step time: 0.3411
Batch 56/248, train_loss: 0.5768, step time: 0.3425
Batch 57/248, train_loss: 0.9883, step time: 0.3511
Batch 58/248, train_loss: 0.9912, step time: 0.3847
Batch 59/248, train_loss: 0.4825, step time: 0.3750
Batch 60/248, train_loss: 1.0000, step time: 0.3684
Batch 61/248, train_loss: 0.9949, step time: 0.3824
Batch 62/248, train_loss: 0.9641, step time: 0.3498
Batch 63/248, train_loss: 0.6638, step time: 0.3624
Batch 64/248, train_loss: 0.7138, step time: 0.3690
Batch 65/248, train_loss: 0.7253, step time: 0.3715
Batch 66/248, train_loss: 0.9565, step time: 0.3797
Batch 67/248, train_loss: 0.8378, step time: 0.3568
Batch 68/248, train_loss: 0.9993, step time: 0.3866
Batch 69/248, train_loss: 0.9684, step time: 0.3729
Batch 70/248, train_loss: 0.7146, step time: 0.3800
Batch 71/248, train_loss: 0.4219, step time: 0.3831
Batch 72/248, train_loss: 0.9998, step time: 0.3839
Batch 73/248, train_loss: 0.3837, step time: 0.3634
Batch 74/248, train_loss: 0.9916, step time: 0.3737
Batch 75/248, train_loss: 0.9132, step time: 0.3584
Batch 76/248, train_loss: 0.8243, step time: 0.3742
Batch 77/248, train_loss: 0.9870, step time: 0.3812
Batch 78/248, train_loss: 0.3929, step time: 0.3843
Batch 79/248, train_loss: 0.9866, step time: 0.3425
Batch 80/248, train_loss: 0.9981, step time: 0.3450
Batch 81/248, train_loss: 0.9297, step time: 0.3635
Batch 82/248, train_loss: 0.9383, step time: 0.3487
Batch 83/248, train_loss: 0.7184, step time: 0.3710
Batch 84/248, train_loss: 0.9995, step time: 0.3746
Batch 85/248, train_loss: 0.9997, step time: 0.3492

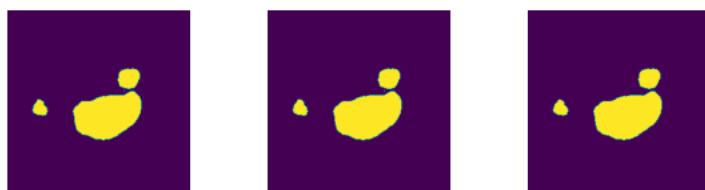
Batch 160/248, train_loss: 0.8144, step time: 0.3852
Batch 161/248, train_loss: 0.9219, step time: 0.3718
Batch 162/248, train_loss: 0.3380, step time: 0.3601
Batch 163/248, train_loss: 0.9938, step time: 0.3676
Batch 164/248, train_loss: 0.9343, step time: 0.3565
Batch 165/248, train_loss: 0.9994, step time: 0.3566
Batch 166/248, train_loss: 0.9843, step time: 0.3481
Batch 167/248, train_loss: 0.9299, step time: 0.3770
Batch 168/248, train_loss: 0.9273, step time: 0.3743
Batch 169/248, train_loss: 0.8396, step time: 0.3797
Batch 170/248, train_loss: 0.9944, step time: 0.3458
Batch 171/248, train_loss: 0.4953, step time: 0.3769
Batch 172/248, train_loss: 0.9998, step time: 0.3645
Batch 173/248, train_loss: 0.7047, step time: 0.3843
Batch 174/248, train_loss: 0.9969, step time: 0.3740
Batch 175/248, train_loss: 0.5615, step time: 0.3813
Batch 176/248, train_loss: 0.9566, step time: 0.3648
Batch 177/248, train_loss: 0.9990, step time: 0.3469
Batch 178/248, train_loss: 0.8061, step time: 0.3824
Batch 179/248, train_loss: 0.2921, step time: 0.3637
Batch 180/248, train_loss: 0.9257, step time: 0.3543
Batch 181/248, train_loss: 0.6438, step time: 0.3686
Batch 182/248, train_loss: 0.9863, step time: 0.3850
Batch 183/248, train_loss: 0.9215, step time: 0.3619
Batch 184/248, train_loss: 0.9847, step time: 0.3732
Batch 185/248, train_loss: 0.9232, step time: 0.3437
Batch 186/248, train_loss: 0.8342, step time: 0.3666
Batch 187/248, train_loss: 0.8523, step time: 0.3838
Batch 188/248, train_loss: 0.9332, step time: 0.3651
Batch 189/248, train_loss: 0.9999, step time: 0.3647
Batch 190/248, train_loss: 0.8516, step time: 0.3809
Batch 191/248, train_loss: 0.9994, step time: 0.3419
Batch 192/248, train_loss: 0.8203, step time: 0.3536
Batch 193/248, train_loss: 0.9610, step time: 0.3488
Batch 194/248, train_loss: 0.9545, step time: 0.3786
Batch 195/248, train_loss: 0.9995, step time: 0.3496
Batch 196/248, train_loss: 1.0000, step time: 0.3450
Batch 197/248, train_loss: 0.9762, step time: 0.3840
Batch 198/248, train_loss: 0.9998, step time: 0.3558
Batch 199/248, train_loss: 0.9331, step time: 0.3492
Batch 200/248, train_loss: 0.9182, step time: 0.3688
Batch 201/248, train_loss: 0.8161, step time: 0.3483
Batch 202/248, train_loss: 0.9578, step time: 0.3445
Batch 203/248, train_loss: 0.9968, step time: 0.3846
Batch 204/248, train_loss: 0.5772, step time: 0.3741
Batch 205/248, train_loss: 0.9828, step time: 0.3465
Batch 206/248, train_loss: 0.9990, step time: 0.3756
Batch 207/248, train_loss: 0.7873, step time: 0.3802
Batch 208/248, train_loss: 0.9202, step time: 0.3564
Batch 209/248, train_loss: 0.8832, step time: 0.3573
Batch 210/248, train_loss: 0.7726, step time: 0.3850
Batch 211/248, train_loss: 0.7646, step time: 0.3710
Batch 212/248, train_loss: 0.9670, step time: 0.3425
Batch 213/248, train_loss: 0.9620, step time: 0.3796
Batch 214/248, train_loss: 0.8590, step time: 0.3455
Batch 215/248, train_loss: 0.9751, step time: 0.3526
Batch 216/248, train_loss: 0.7846, step time: 0.3810
Batch 217/248, train_loss: 0.9879, step time: 0.3527
Batch 218/248, train_loss: 0.9992, step time: 0.3607
Batch 219/248, train_loss: 0.8636, step time: 0.3811
Batch 220/248, train_loss: 0.9758, step time: 0.3700
Batch 221/248, train_loss: 0.9701, step time: 0.3417
Batch 222/248, train_loss: 0.7999, step time: 0.3520
Batch 223/248, train_loss: 0.6164, step time: 0.3737
Batch 224/248, train_loss: 0.7503, step time: 0.3544
Batch 225/248, train_loss: 0.9977, step time: 0.3851
Batch 226/248, train_loss: 0.9852, step time: 0.3472
Batch 227/248, train_loss: 0.8553, step time: 0.3778
Batch 228/248, train_loss: 0.9689, step time: 0.3802
Batch 229/248, train_loss: 0.6025, step time: 0.3438
Batch 230/248, train_loss: 0.8750, step time: 0.3749
Batch 231/248, train_loss: 0.9968, step time: 0.3508
Batch 232/248, train_loss: 0.8562, step time: 0.3588
Batch 233/248, train_loss: 1.0000, step time: 0.3773
Batch 234/248, train_loss: 0.9970, step time: 0.3468
Batch 235/248, train_loss: 0.9962, step time: 0.3654
Batch 236/248, train_loss: 0.9994, step time: 0.3838
Batch 237/248, train_loss: 0.6458, step time: 0.3499
Batch 238/248, train_loss: 0.8206, step time: 0.3453
Batch 239/248, train_loss: 0.2381, step time: 0.3617
Batch 240/248, train_loss: 0.9562, step time: 0.3794
Batch 241/248, train_loss: 0.9999, step time: 0.3716
Batch 242/248, train_loss: 0.9822, step time: 0.3446
Batch 243/248, train_loss: 0.9994, step time: 0.3685
Batch 244/248, train_loss: 0.9959, step time: 0.3596

```
Batch 245/248, train_loss: 0.7931, step time: 0.3803  
Batch 246/248, train_loss: 0.9965, step time: 0.3630  
Batch 247/248, train_loss: 0.4180, step time: 0.3745  
Batch 248/248, train_loss: 1.0000, step time: 0.3570
```

Labels



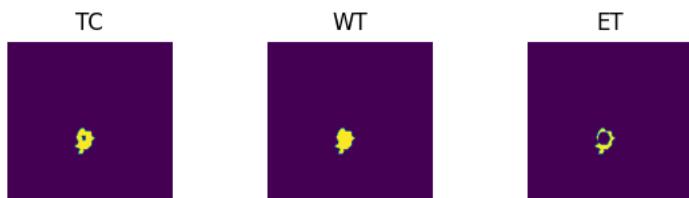
Predictions



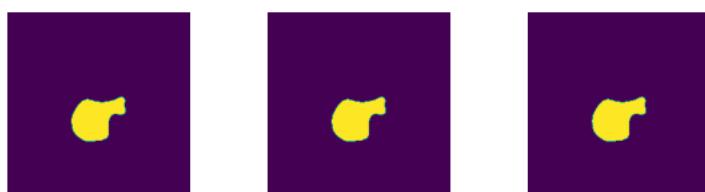
VAL

```
Batch 1/31, val_loss: 0.9250  
Batch 2/31, val_loss: 1.0000  
Batch 3/31, val_loss: 0.9995  
Batch 4/31, val_loss: 0.9850  
Batch 5/31, val_loss: 1.0000  
Batch 6/31, val_loss: 0.7901  
Batch 7/31, val_loss: 0.9519  
Batch 8/31, val_loss: 0.9959  
Batch 9/31, val_loss: 0.8511  
Batch 10/31, val_loss: 0.9933  
Batch 11/31, val_loss: 0.9622  
Batch 12/31, val_loss: 0.9870  
Batch 13/31, val_loss: 0.9922  
Batch 14/31, val_loss: 0.9890  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9986  
Batch 17/31, val_loss: 0.9991  
Batch 18/31, val_loss: 0.9891  
Batch 19/31, val_loss: 0.9041  
Batch 20/31, val_loss: 0.9618  
Batch 21/31, val_loss: 0.9873  
Batch 22/31, val_loss: 0.9984  
Batch 23/31, val_loss: 0.9988  
Batch 24/31, val_loss: 0.8174  
Batch 25/31, val_loss: 0.9338  
Batch 26/31, val_loss: 0.9894  
Batch 27/31, val_loss: 0.9995  
Batch 28/31, val_loss: 0.9278  
Batch 29/31, val_loss: 0.9999  
Batch 30/31, val_loss: 0.9991  
Batch 31/31, val_loss: 0.9980
```

Labels



Predictions



epoch 20

```
average train loss: 0.8730
```

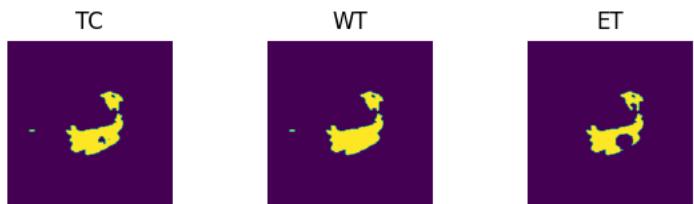
```
average validation loss: 0.9653
saved as best model: False
current mean dice: 0.1199
current TC dice: 0.1251
current WT dice: 0.1269
current ET dice: 0.1192
Best Mean Metric: 0.1231
time consuming of epoch 20 is: 1484.9650
-----
epoch 21/100
TRAIN
    Batch 1/248, train_loss: 0.5781, step time: 0.3800
    Batch 2/248, train_loss: 0.9999, step time: 0.3867
    Batch 3/248, train_loss: 0.9924, step time: 0.3785
    Batch 4/248, train_loss: 0.9997, step time: 0.3464
    Batch 5/248, train_loss: 0.9613, step time: 0.3707
    Batch 6/248, train_loss: 0.9528, step time: 0.3767
    Batch 7/248, train_loss: 0.4181, step time: 0.3635
    Batch 8/248, train_loss: 0.8780, step time: 0.3697
    Batch 9/248, train_loss: 0.6129, step time: 0.3674
    Batch 10/248, train_loss: 0.9834, step time: 0.3778
    Batch 11/248, train_loss: 0.9601, step time: 0.3534
    Batch 12/248, train_loss: 0.9986, step time: 0.3810
    Batch 13/248, train_loss: 0.9878, step time: 0.3464
    Batch 14/248, train_loss: 0.3297, step time: 0.3425
    Batch 15/248, train_loss: 0.9794, step time: 0.3525
    Batch 16/248, train_loss: 0.9522, step time: 0.3670
    Batch 17/248, train_loss: 0.9986, step time: 0.3494
    Batch 18/248, train_loss: 0.9939, step time: 0.3800
    Batch 19/248, train_loss: 0.6181, step time: 0.3613
    Batch 20/248, train_loss: 0.9379, step time: 0.3835
    Batch 21/248, train_loss: 0.8327, step time: 0.3739
    Batch 22/248, train_loss: 0.9999, step time: 0.3664
    Batch 23/248, train_loss: 0.9992, step time: 0.3718
    Batch 24/248, train_loss: 0.8575, step time: 0.3755
    Batch 25/248, train_loss: 0.3508, step time: 0.3860
    Batch 26/248, train_loss: 0.9953, step time: 0.3457
    Batch 27/248, train_loss: 0.5741, step time: 0.3465
    Batch 28/248, train_loss: 0.9502, step time: 0.3834
    Batch 29/248, train_loss: 0.9980, step time: 0.3477
    Batch 30/248, train_loss: 0.9511, step time: 0.3853
    Batch 31/248, train_loss: 0.9801, step time: 0.3752
    Batch 32/248, train_loss: 0.8166, step time: 0.3728
    Batch 33/248, train_loss: 0.5585, step time: 0.3554
    Batch 34/248, train_loss: 0.6892, step time: 0.3461
    Batch 35/248, train_loss: 0.8515, step time: 0.3690
    Batch 36/248, train_loss: 0.9999, step time: 0.3882
    Batch 37/248, train_loss: 0.8711, step time: 0.3507
    Batch 38/248, train_loss: 0.9750, step time: 0.3522
    Batch 39/248, train_loss: 0.9149, step time: 0.3725
    Batch 40/248, train_loss: 0.9997, step time: 0.3622
    Batch 41/248, train_loss: 0.7702, step time: 0.3857
    Batch 42/248, train_loss: 0.7708, step time: 0.3772
    Batch 43/248, train_loss: 0.6436, step time: 0.3601
    Batch 44/248, train_loss: 0.9012, step time: 0.3484
    Batch 45/248, train_loss: 0.9851, step time: 0.3532
    Batch 46/248, train_loss: 0.9075, step time: 0.3831
    Batch 47/248, train_loss: 0.9413, step time: 0.3811
    Batch 48/248, train_loss: 0.9091, step time: 0.3563
    Batch 49/248, train_loss: 0.9946, step time: 0.3442
    Batch 50/248, train_loss: 0.9527, step time: 0.3778
    Batch 51/248, train_loss: 0.9403, step time: 0.3552
    Batch 52/248, train_loss: 0.9074, step time: 0.3632
    Batch 53/248, train_loss: 0.9767, step time: 0.3677
    Batch 54/248, train_loss: 0.9367, step time: 0.3700
    Batch 55/248, train_loss: 0.9835, step time: 0.3515
    Batch 56/248, train_loss: 0.9401, step time: 0.3850
    Batch 57/248, train_loss: 0.9527, step time: 0.3799
    Batch 58/248, train_loss: 0.7906, step time: 0.3689
    Batch 59/248, train_loss: 0.8365, step time: 0.3853
    Batch 60/248, train_loss: 0.7830, step time: 0.3642
    Batch 61/248, train_loss: 0.8466, step time: 0.3684
    Batch 62/248, train_loss: 0.9842, step time: 0.3482
    Batch 63/248, train_loss: 0.9980, step time: 0.3789
    Batch 64/248, train_loss: 0.9956, step time: 0.3536
    Batch 65/248, train_loss: 0.9604, step time: 0.3566
    Batch 66/248, train_loss: 0.9524, step time: 0.3693
    Batch 67/248, train_loss: 0.5427, step time: 0.3859
    Batch 68/248, train_loss: 0.7360, step time: 0.3475
    Batch 69/248, train_loss: 0.9989, step time: 0.3839
    Batch 70/248, train_loss: 0.7964, step time: 0.3413
    Batch 71/248, train_loss: 0.6947, step time: 0.3767
    Batch 72/248, train_loss: 0.7319, step time: 0.3491
    Batch 73/248, train_loss: 0.7577, step time: 0.3662
    Batch 74/248, train_loss: 0.9998, step time: 0.3659
```

Batch 75/248, train_loss: 0.7696, step time: 0.3795
Batch 76/248, train_loss: 0.9973, step time: 0.3605
Batch 77/248, train_loss: 0.9997, step time: 0.3758
Batch 78/248, train_loss: 0.8862, step time: 0.3686
Batch 79/248, train_loss: 0.9372, step time: 0.3862
Batch 80/248, train_loss: 0.9596, step time: 0.3680
Batch 81/248, train_loss: 0.9741, step time: 0.3710
Batch 82/248, train_loss: 0.7734, step time: 0.3740
Batch 83/248, train_loss: 0.9960, step time: 0.3805
Batch 84/248, train_loss: 0.9401, step time: 0.3421
Batch 85/248, train_loss: 0.9970, step time: 0.3738
Batch 86/248, train_loss: 0.8256, step time: 0.3675
Batch 87/248, train_loss: 0.9906, step time: 0.3661
Batch 88/248, train_loss: 0.9920, step time: 0.3875
Batch 89/248, train_loss: 0.4594, step time: 0.3466
Batch 90/248, train_loss: 0.9406, step time: 0.3796
Batch 91/248, train_loss: 0.9969, step time: 0.3807
Batch 92/248, train_loss: 0.9221, step time: 0.3875
Batch 93/248, train_loss: 0.7440, step time: 0.3707
Batch 94/248, train_loss: 0.9970, step time: 0.3478
Batch 95/248, train_loss: 0.8774, step time: 0.3455
Batch 96/248, train_loss: 0.8575, step time: 0.3712
Batch 97/248, train_loss: 0.9999, step time: 0.3697
Batch 98/248, train_loss: 0.7118, step time: 0.3768
Batch 99/248, train_loss: 0.9912, step time: 0.3739
Batch 100/248, train_loss: 0.9977, step time: 0.3440
Batch 101/248, train_loss: 0.3820, step time: 0.3493
Batch 102/248, train_loss: 0.9230, step time: 0.3697
Batch 103/248, train_loss: 0.9957, step time: 0.3826
Batch 104/248, train_loss: 0.8779, step time: 0.3474
Batch 105/248, train_loss: 0.6748, step time: 0.3611
Batch 106/248, train_loss: 0.9530, step time: 0.3519
Batch 107/248, train_loss: 0.9900, step time: 0.3653
Batch 108/248, train_loss: 0.9944, step time: 0.3791
Batch 109/248, train_loss: 0.9992, step time: 0.3719
Batch 110/248, train_loss: 0.9721, step time: 0.3725
Batch 111/248, train_loss: 0.6783, step time: 0.3445
Batch 112/248, train_loss: 0.7036, step time: 0.3428
Batch 113/248, train_loss: 0.9999, step time: 0.3733
Batch 114/248, train_loss: 0.4956, step time: 0.3746
Batch 115/248, train_loss: 0.9017, step time: 0.3432
Batch 116/248, train_loss: 0.6690, step time: 0.3573
Batch 117/248, train_loss: 0.9976, step time: 0.3420
Batch 118/248, train_loss: 0.9924, step time: 0.3648
Batch 119/248, train_loss: 0.9169, step time: 0.3409
Batch 120/248, train_loss: 0.9160, step time: 0.3526
Batch 121/248, train_loss: 0.9789, step time: 0.3449
Batch 122/248, train_loss: 0.9887, step time: 0.3465
Batch 123/248, train_loss: 0.7962, step time: 0.3583
Batch 124/248, train_loss: 0.9876, step time: 0.3871
Batch 125/248, train_loss: 0.9992, step time: 0.3834
Batch 126/248, train_loss: 0.6800, step time: 0.3587
Batch 127/248, train_loss: 0.9228, step time: 0.3730
Batch 128/248, train_loss: 0.9642, step time: 0.3515
Batch 129/248, train_loss: 0.5438, step time: 0.3541
Batch 130/248, train_loss: 0.5453, step time: 0.3466
Batch 131/248, train_loss: 0.9870, step time: 0.3675
Batch 132/248, train_loss: 0.9898, step time: 0.3580
Batch 133/248, train_loss: 0.4087, step time: 0.3555
Batch 134/248, train_loss: 1.0000, step time: 0.3629
Batch 135/248, train_loss: 0.9946, step time: 0.3472
Batch 136/248, train_loss: 0.9581, step time: 0.3806
Batch 137/248, train_loss: 0.5840, step time: 0.3434
Batch 138/248, train_loss: 0.6591, step time: 0.3437
Batch 139/248, train_loss: 0.7127, step time: 0.3578
Batch 140/248, train_loss: 0.9507, step time: 0.3781
Batch 141/248, train_loss: 0.7971, step time: 0.3498
Batch 142/248, train_loss: 0.9975, step time: 0.3795
Batch 143/248, train_loss: 0.9582, step time: 0.3450
Batch 144/248, train_loss: 0.6669, step time: 0.3678
Batch 145/248, train_loss: 0.3483, step time: 0.3456
Batch 146/248, train_loss: 0.9996, step time: 0.3597
Batch 147/248, train_loss: 0.3214, step time: 0.3414
Batch 148/248, train_loss: 0.9913, step time: 0.3807
Batch 149/248, train_loss: 0.9039, step time: 0.3852
Batch 150/248, train_loss: 0.7940, step time: 0.3727
Batch 151/248, train_loss: 0.9860, step time: 0.3515
Batch 152/248, train_loss: 0.3545, step time: 0.3797
Batch 153/248, train_loss: 0.9836, step time: 0.3472
Batch 154/248, train_loss: 0.9967, step time: 0.3559
Batch 155/248, train_loss: 0.9079, step time: 0.3420
Batch 156/248, train_loss: 0.9175, step time: 0.3659
Batch 157/248, train_loss: 0.6852, step time: 0.3858
Batch 158/248, train_loss: 0.9995, step time: 0.3425
Batch 159/248, train_loss: 0.9996, step time: 0.3644

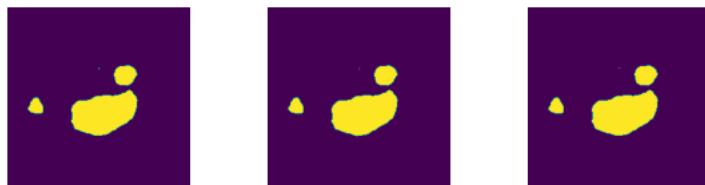
Batch 160/248, train_loss: 0.7936, step time: 0.3539
Batch 161/248, train_loss: 0.9175, step time: 0.3472
Batch 162/248, train_loss: 0.3060, step time: 0.3464
Batch 163/248, train_loss: 0.9918, step time: 0.3501
Batch 164/248, train_loss: 0.9180, step time: 0.3478
Batch 165/248, train_loss: 0.9997, step time: 0.3836
Batch 166/248, train_loss: 0.9806, step time: 0.3429
Batch 167/248, train_loss: 0.9182, step time: 0.3556
Batch 168/248, train_loss: 0.9187, step time: 0.3752
Batch 169/248, train_loss: 0.8090, step time: 0.3855
Batch 170/248, train_loss: 0.9940, step time: 0.3770
Batch 171/248, train_loss: 0.4612, step time: 0.3443
Batch 172/248, train_loss: 0.9998, step time: 0.3845
Batch 173/248, train_loss: 0.6743, step time: 0.3578
Batch 174/248, train_loss: 0.9953, step time: 0.3460
Batch 175/248, train_loss: 0.5079, step time: 0.3495
Batch 176/248, train_loss: 0.9511, step time: 0.3746
Batch 177/248, train_loss: 0.9990, step time: 0.3626
Batch 178/248, train_loss: 0.7816, step time: 0.3638
Batch 179/248, train_loss: 0.2659, step time: 0.3532
Batch 180/248, train_loss: 0.9133, step time: 0.3717
Batch 181/248, train_loss: 0.6066, step time: 0.3447
Batch 182/248, train_loss: 0.9843, step time: 0.3490
Batch 183/248, train_loss: 0.9107, step time: 0.3455
Batch 184/248, train_loss: 0.9819, step time: 0.3476
Batch 185/248, train_loss: 0.9116, step time: 0.3482
Batch 186/248, train_loss: 0.8093, step time: 0.3851
Batch 187/248, train_loss: 0.8192, step time: 0.3850
Batch 188/248, train_loss: 0.9223, step time: 0.3711
Batch 189/248, train_loss: 0.9998, step time: 0.3873
Batch 190/248, train_loss: 0.8344, step time: 0.3601
Batch 191/248, train_loss: 0.9991, step time: 0.3499
Batch 192/248, train_loss: 0.7956, step time: 0.3880
Batch 193/248, train_loss: 0.9530, step time: 0.3445
Batch 194/248, train_loss: 0.9477, step time: 0.3889
Batch 195/248, train_loss: 0.9988, step time: 0.3631
Batch 196/248, train_loss: 1.0000, step time: 0.3792
Batch 197/248, train_loss: 0.9729, step time: 0.3428
Batch 198/248, train_loss: 1.0000, step time: 0.3706
Batch 199/248, train_loss: 0.9239, step time: 0.3742
Batch 200/248, train_loss: 0.9080, step time: 0.3430
Batch 201/248, train_loss: 0.7880, step time: 0.3697
Batch 202/248, train_loss: 0.9522, step time: 0.3470
Batch 203/248, train_loss: 0.9975, step time: 0.3440
Batch 204/248, train_loss: 0.5486, step time: 0.3751
Batch 205/248, train_loss: 0.9803, step time: 0.3436
Batch 206/248, train_loss: 0.9989, step time: 0.3685
Batch 207/248, train_loss: 0.7640, step time: 0.3662
Batch 208/248, train_loss: 0.9112, step time: 0.3626
Batch 209/248, train_loss: 0.8670, step time: 0.3813
Batch 210/248, train_loss: 0.7490, step time: 0.3512
Batch 211/248, train_loss: 0.7402, step time: 0.3601
Batch 212/248, train_loss: 0.9668, step time: 0.3436
Batch 213/248, train_loss: 0.9569, step time: 0.3666
Batch 214/248, train_loss: 0.8431, step time: 0.3499
Batch 215/248, train_loss: 0.9722, step time: 0.3675
Batch 216/248, train_loss: 0.7635, step time: 0.3666
Batch 217/248, train_loss: 0.9868, step time: 0.3677
Batch 218/248, train_loss: 0.9985, step time: 0.3583
Batch 219/248, train_loss: 0.8425, step time: 0.3769
Batch 220/248, train_loss: 0.9720, step time: 0.3477
Batch 221/248, train_loss: 0.9690, step time: 0.3746
Batch 222/248, train_loss: 0.7795, step time: 0.3871
Batch 223/248, train_loss: 0.5852, step time: 0.3571
Batch 224/248, train_loss: 0.7241, step time: 0.3473
Batch 225/248, train_loss: 0.9972, step time: 0.3479
Batch 226/248, train_loss: 0.9837, step time: 0.3669
Batch 227/248, train_loss: 0.8418, step time: 0.3449
Batch 228/248, train_loss: 0.9646, step time: 0.3706
Batch 229/248, train_loss: 0.5603, step time: 0.3815
Batch 230/248, train_loss: 0.8542, step time: 0.3463
Batch 231/248, train_loss: 0.9976, step time: 0.3824
Batch 232/248, train_loss: 0.8431, step time: 0.3869
Batch 233/248, train_loss: 0.9999, step time: 0.3607
Batch 234/248, train_loss: 0.9964, step time: 0.3767
Batch 235/248, train_loss: 0.9958, step time: 0.3592
Batch 236/248, train_loss: 0.9993, step time: 0.3440
Batch 237/248, train_loss: 0.6184, step time: 0.3503
Batch 238/248, train_loss: 0.7966, step time: 0.3458
Batch 239/248, train_loss: 0.2083, step time: 0.3885
Batch 240/248, train_loss: 0.9507, step time: 0.3488
Batch 241/248, train_loss: 0.9999, step time: 0.3718
Batch 242/248, train_loss: 0.9803, step time: 0.3439
Batch 243/248, train_loss: 0.9993, step time: 0.3546
Batch 244/248, train_loss: 0.9950, step time: 0.3182

```
Batch 244/248, train_loss: 0.9990, step time: 0.3405  
Batch 245/248, train_loss: 0.7618, step time: 0.3447  
Batch 246/248, train_loss: 0.9968, step time: 0.3583  
Batch 247/248, train_loss: 0.3680, step time: 0.3613  
Batch 248/248, train_loss: 1.0000, step time: 0.3705
```

Labels



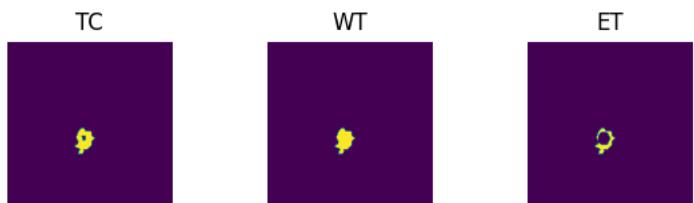
Predictions



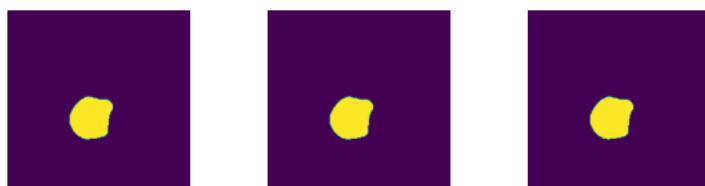
VAL

```
Batch 1/31, val_loss: 0.9208  
Batch 2/31, val_loss: 1.0000  
Batch 3/31, val_loss: 0.9986  
Batch 4/31, val_loss: 0.9908  
Batch 5/31, val_loss: 1.0000  
Batch 6/31, val_loss: 0.7710  
Batch 7/31, val_loss: 0.9440  
Batch 8/31, val_loss: 0.9950  
Batch 9/31, val_loss: 0.8338  
Batch 10/31, val_loss: 0.9923  
Batch 11/31, val_loss: 0.9588  
Batch 12/31, val_loss: 0.9870  
Batch 13/31, val_loss: 0.9898  
Batch 14/31, val_loss: 0.9870  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9983  
Batch 17/31, val_loss: 0.9990  
Batch 18/31, val_loss: 0.9864  
Batch 19/31, val_loss: 0.8992  
Batch 20/31, val_loss: 0.9581  
Batch 21/31, val_loss: 0.9850  
Batch 22/31, val_loss: 0.9977  
Batch 23/31, val_loss: 0.9980  
Batch 24/31, val_loss: 0.7954  
Batch 25/31, val_loss: 0.9278  
Batch 26/31, val_loss: 0.9889  
Batch 27/31, val_loss: 0.9996  
Batch 28/31, val_loss: 0.9274  
Batch 29/31, val_loss: 0.9998  
Batch 30/31, val_loss: 0.9988  
Batch 31/31, val_loss: 0.9978
```

Labels



Predictions



epoch 21

average train loss: 0.8616

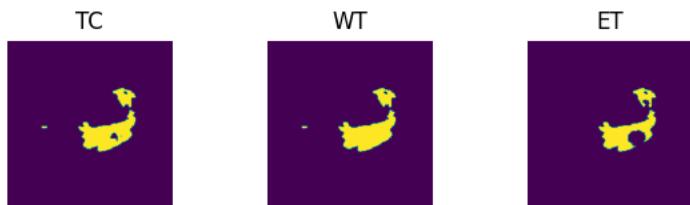
```
average validation loss: 0.9621
saved as best model: True
current mean dice: 0.1382
current TC dice: 0.1442
current WT dice: 0.1463
current ET dice: 0.1374
Best Mean Metric: 0.1382
time consuming of epoch 21 is: 1507.1142
-----
epoch 22/100
TRAIN
Batch 1/248, train_loss: 0.5391, step time: 0.3855
Batch 2/248, train_loss: 0.9998, step time: 0.3722
Batch 3/248, train_loss: 0.9904, step time: 0.3803
Batch 4/248, train_loss: 0.9997, step time: 0.3768
Batch 5/248, train_loss: 0.9591, step time: 0.3791
Batch 6/248, train_loss: 0.9490, step time: 0.3590
Batch 7/248, train_loss: 0.4046, step time: 0.3675
Batch 8/248, train_loss: 0.8586, step time: 0.3505
Batch 9/248, train_loss: 0.5825, step time: 0.3548
Batch 10/248, train_loss: 0.9811, step time: 0.3624
Batch 11/248, train_loss: 0.9563, step time: 0.3695
Batch 12/248, train_loss: 0.9982, step time: 0.3521
Batch 13/248, train_loss: 0.9864, step time: 0.3479
Batch 14/248, train_loss: 0.2973, step time: 0.3714
Batch 15/248, train_loss: 0.9765, step time: 0.3855
Batch 16/248, train_loss: 0.9461, step time: 0.3601
Batch 17/248, train_loss: 0.9993, step time: 0.3776
Batch 18/248, train_loss: 0.9934, step time: 0.3473
Batch 19/248, train_loss: 0.5941, step time: 0.3708
Batch 20/248, train_loss: 0.9334, step time: 0.3778
Batch 21/248, train_loss: 0.8106, step time: 0.3418
Batch 22/248, train_loss: 0.9999, step time: 0.3747
Batch 23/248, train_loss: 0.9995, step time: 0.3541
Batch 24/248, train_loss: 0.8516, step time: 0.3572
Batch 25/248, train_loss: 0.3218, step time: 0.3574
Batch 26/248, train_loss: 0.9943, step time: 0.3705
Batch 27/248, train_loss: 0.5422, step time: 0.3465
Batch 28/248, train_loss: 0.9422, step time: 0.3694
Batch 29/248, train_loss: 0.9977, step time: 0.3683
Batch 30/248, train_loss: 0.9469, step time: 0.3501
Batch 31/248, train_loss: 0.9780, step time: 0.3426
Batch 32/248, train_loss: 0.7968, step time: 0.3415
Batch 33/248, train_loss: 0.5329, step time: 0.3569
Batch 34/248, train_loss: 0.6599, step time: 0.3831
Batch 35/248, train_loss: 0.8349, step time: 0.3758
Batch 36/248, train_loss: 0.9999, step time: 0.3687
Batch 37/248, train_loss: 0.8562, step time: 0.3496
Batch 38/248, train_loss: 0.9714, step time: 0.3495
Batch 39/248, train_loss: 0.8770, step time: 0.3687
Batch 40/248, train_loss: 0.9997, step time: 0.3444
Batch 41/248, train_loss: 0.7523, step time: 0.3865
Batch 42/248, train_loss: 0.7520, step time: 0.3749
Batch 43/248, train_loss: 0.6132, step time: 0.3412
Batch 44/248, train_loss: 0.9306, step time: 0.3464
Batch 45/248, train_loss: 0.9851, step time: 0.3564
Batch 46/248, train_loss: 0.8952, step time: 0.3421
Batch 47/248, train_loss: 0.9341, step time: 0.3846
Batch 48/248, train_loss: 0.8961, step time: 0.3842
Batch 49/248, train_loss: 0.9948, step time: 0.3867
Batch 50/248, train_loss: 0.9448, step time: 0.3464
Batch 51/248, train_loss: 0.9342, step time: 0.3655
Batch 52/248, train_loss: 0.8965, step time: 0.3479
Batch 53/248, train_loss: 0.9742, step time: 0.3474
Batch 54/248, train_loss: 0.9315, step time: 0.3531
Batch 55/248, train_loss: 0.9798, step time: 0.3668
Batch 56/248, train_loss: 0.9409, step time: 0.3617
Batch 57/248, train_loss: 0.9458, step time: 0.3495
Batch 58/248, train_loss: 0.7747, step time: 0.3547
Batch 59/248, train_loss: 0.8249, step time: 0.3442
Batch 60/248, train_loss: 0.7635, step time: 0.3582
Batch 61/248, train_loss: 0.8312, step time: 0.3841
Batch 62/248, train_loss: 0.9821, step time: 0.3520
Batch 63/248, train_loss: 0.9965, step time: 0.3736
Batch 64/248, train_loss: 0.9952, step time: 0.3875
Batch 65/248, train_loss: 0.9495, step time: 0.3733
Batch 66/248, train_loss: 0.9501, step time: 0.3785
Batch 67/248, train_loss: 0.5066, step time: 0.3678
Batch 68/248, train_loss: 0.7103, step time: 0.3858
Batch 69/248, train_loss: 0.9988, step time: 0.3475
Batch 70/248, train_loss: 0.7779, step time: 0.3719
Batch 71/248, train_loss: 0.6765, step time: 0.3871
Batch 72/248, train_loss: 0.7001, step time: 0.3736
Batch 73/248, train_loss: 0.7398, step time: 0.3613
Batch 74/248, train_loss: 0.9997, step time: 0.3811
```

Batch 75/248, train_loss: 0.7471, step time: 0.3627
Batch 76/248, train_loss: 0.9971, step time: 0.3743
Batch 77/248, train_loss: 0.9996, step time: 0.3476
Batch 78/248, train_loss: 0.8770, step time: 0.3479
Batch 79/248, train_loss: 0.9314, step time: 0.3425
Batch 80/248, train_loss: 0.9580, step time: 0.3467
Batch 81/248, train_loss: 0.9721, step time: 0.3590
Batch 82/248, train_loss: 0.7517, step time: 0.3698
Batch 83/248, train_loss: 0.9952, step time: 0.3675
Batch 84/248, train_loss: 0.9346, step time: 0.3810
Batch 85/248, train_loss: 0.9971, step time: 0.3480
Batch 86/248, train_loss: 0.8134, step time: 0.3414
Batch 87/248, train_loss: 0.9903, step time: 0.3838
Batch 88/248, train_loss: 0.9906, step time: 0.3434
Batch 89/248, train_loss: 0.4317, step time: 0.3831
Batch 90/248, train_loss: 0.9366, step time: 0.3459
Batch 91/248, train_loss: 0.9965, step time: 0.3838
Batch 92/248, train_loss: 0.9208, step time: 0.3491
Batch 93/248, train_loss: 0.7213, step time: 0.3759
Batch 94/248, train_loss: 0.9966, step time: 0.3661
Batch 95/248, train_loss: 0.8695, step time: 0.3690
Batch 96/248, train_loss: 0.8439, step time: 0.3696
Batch 97/248, train_loss: 0.9999, step time: 0.3696
Batch 98/248, train_loss: 0.6893, step time: 0.3651
Batch 99/248, train_loss: 0.9891, step time: 0.3830
Batch 100/248, train_loss: 0.9979, step time: 0.3728
Batch 101/248, train_loss: 0.3494, step time: 0.3596
Batch 102/248, train_loss: 0.9077, step time: 0.3511
Batch 103/248, train_loss: 0.9954, step time: 0.3711
Batch 104/248, train_loss: 0.8666, step time: 0.3442
Batch 105/248, train_loss: 0.6488, step time: 0.3433
Batch 106/248, train_loss: 0.9488, step time: 0.3813
Batch 107/248, train_loss: 0.9891, step time: 0.3609
Batch 108/248, train_loss: 0.9940, step time: 0.3671
Batch 109/248, train_loss: 0.9984, step time: 0.3809
Batch 110/248, train_loss: 0.9701, step time: 0.3537
Batch 111/248, train_loss: 0.6520, step time: 0.3701
Batch 112/248, train_loss: 0.6805, step time: 0.3415
Batch 113/248, train_loss: 0.9999, step time: 0.3605
Batch 114/248, train_loss: 0.4709, step time: 0.3473
Batch 115/248, train_loss: 0.8929, step time: 0.3762
Batch 116/248, train_loss: 0.6430, step time: 0.3597
Batch 117/248, train_loss: 0.9970, step time: 0.3841
Batch 118/248, train_loss: 0.9959, step time: 0.3763
Batch 119/248, train_loss: 0.9178, step time: 0.3731
Batch 120/248, train_loss: 0.9127, step time: 0.3507
Batch 121/248, train_loss: 0.9769, step time: 0.3845
Batch 122/248, train_loss: 0.9879, step time: 0.3428
Batch 123/248, train_loss: 0.7793, step time: 0.3746
Batch 124/248, train_loss: 0.9867, step time: 0.3709
Batch 125/248, train_loss: 0.9983, step time: 0.3831
Batch 126/248, train_loss: 0.6693, step time: 0.3464
Batch 127/248, train_loss: 0.9191, step time: 0.3874
Batch 128/248, train_loss: 0.9624, step time: 0.3466
Batch 129/248, train_loss: 0.5097, step time: 0.3486
Batch 130/248, train_loss: 0.5221, step time: 0.3611
Batch 131/248, train_loss: 0.9860, step time: 0.3619
Batch 132/248, train_loss: 0.9885, step time: 0.3684
Batch 133/248, train_loss: 0.3635, step time: 0.3531
Batch 134/248, train_loss: 1.0000, step time: 0.3420
Batch 135/248, train_loss: 0.9951, step time: 0.3413
Batch 136/248, train_loss: 0.9564, step time: 0.3433
Batch 137/248, train_loss: 0.5524, step time: 0.3840
Batch 138/248, train_loss: 0.6387, step time: 0.3801
Batch 139/248, train_loss: 0.7016, step time: 0.3652
Batch 140/248, train_loss: 0.9462, step time: 0.3879
Batch 141/248, train_loss: 0.7767, step time: 0.3700
Batch 142/248, train_loss: 0.9979, step time: 0.3625
Batch 143/248, train_loss: 0.9562, step time: 0.3830
Batch 144/248, train_loss: 0.6407, step time: 0.3438
Batch 145/248, train_loss: 0.3289, step time: 0.3823
Batch 146/248, train_loss: 0.9995, step time: 0.3793
Batch 147/248, train_loss: 0.2936, step time: 0.3851
Batch 148/248, train_loss: 0.9895, step time: 0.3449
Batch 149/248, train_loss: 0.9014, step time: 0.3859
Batch 150/248, train_loss: 0.7699, step time: 0.3727
Batch 151/248, train_loss: 0.9844, step time: 0.3867
Batch 152/248, train_loss: 0.3183, step time: 0.3636
Batch 153/248, train_loss: 0.9826, step time: 0.3722
Batch 154/248, train_loss: 0.9964, step time: 0.3456
Batch 155/248, train_loss: 0.9044, step time: 0.3780
Batch 156/248, train_loss: 0.9111, step time: 0.3879
Batch 157/248, train_loss: 0.6654, step time: 0.3560
Batch 158/248, train_loss: 0.9996, step time: 0.3504
Batch 159/248, train_loss: 0.9999, step time: 0.3410

Batch 159/248, train_loss: 0.9900, step time: 0.3417
Batch 160/248, train_loss: 0.7717, step time: 0.3563
Batch 161/248, train_loss: 0.9100, step time: 0.3522
Batch 162/248, train_loss: 0.2837, step time: 0.3780
Batch 163/248, train_loss: 0.9912, step time: 0.3477
Batch 164/248, train_loss: 0.9111, step time: 0.3618
Batch 165/248, train_loss: 0.9998, step time: 0.3414
Batch 166/248, train_loss: 0.9795, step time: 0.3437
Batch 167/248, train_loss: 0.9128, step time: 0.3664
Batch 168/248, train_loss: 0.9084, step time: 0.3706
Batch 169/248, train_loss: 0.7935, step time: 0.3419
Batch 170/248, train_loss: 0.9928, step time: 0.3482
Batch 171/248, train_loss: 0.4282, step time: 0.3755
Batch 172/248, train_loss: 0.9997, step time: 0.3623
Batch 173/248, train_loss: 0.6491, step time: 0.3673
Batch 174/248, train_loss: 0.9960, step time: 0.3675
Batch 175/248, train_loss: 0.5003, step time: 0.3430
Batch 176/248, train_loss: 0.9472, step time: 0.3653
Batch 177/248, train_loss: 0.9997, step time: 0.3459
Batch 178/248, train_loss: 0.7684, step time: 0.3820
Batch 179/248, train_loss: 0.2353, step time: 0.3779
Batch 180/248, train_loss: 0.9048, step time: 0.3546
Batch 181/248, train_loss: 0.5763, step time: 0.3753
Batch 182/248, train_loss: 0.9825, step time: 0.3466
Batch 183/248, train_loss: 0.9060, step time: 0.3594
Batch 184/248, train_loss: 0.9808, step time: 0.3790
Batch 185/248, train_loss: 0.9039, step time: 0.3834
Batch 186/248, train_loss: 0.7911, step time: 0.3485
Batch 187/248, train_loss: 0.8026, step time: 0.3443
Batch 188/248, train_loss: 0.9179, step time: 0.3420
Batch 189/248, train_loss: 0.9998, step time: 0.3778
Batch 190/248, train_loss: 0.8236, step time: 0.3759
Batch 191/248, train_loss: 0.9990, step time: 0.3506
Batch 192/248, train_loss: 0.7747, step time: 0.3833
Batch 193/248, train_loss: 0.9514, step time: 0.3807
Batch 194/248, train_loss: 0.9432, step time: 0.3732
Batch 195/248, train_loss: 0.9986, step time: 0.3592
Batch 196/248, train_loss: 1.0000, step time: 0.3832
Batch 197/248, train_loss: 0.9705, step time: 0.3417
Batch 198/248, train_loss: 1.0000, step time: 0.3460
Batch 199/248, train_loss: 0.9163, step time: 0.3508
Batch 200/248, train_loss: 0.8994, step time: 0.3547
Batch 201/248, train_loss: 0.7751, step time: 0.3467
Batch 202/248, train_loss: 0.9493, step time: 0.3681
Batch 203/248, train_loss: 0.9974, step time: 0.3514
Batch 204/248, train_loss: 0.5166, step time: 0.3486
Batch 205/248, train_loss: 0.9789, step time: 0.3478
Batch 206/248, train_loss: 0.9987, step time: 0.3538
Batch 207/248, train_loss: 0.7361, step time: 0.3596
Batch 208/248, train_loss: 0.8994, step time: 0.3427
Batch 209/248, train_loss: 0.8574, step time: 0.3698
Batch 210/248, train_loss: 0.7269, step time: 0.3431
Batch 211/248, train_loss: 0.7217, step time: 0.3417
Batch 212/248, train_loss: 0.9601, step time: 0.3608
Batch 213/248, train_loss: 0.9521, step time: 0.3498
Batch 214/248, train_loss: 0.8245, step time: 0.3852
Batch 215/248, train_loss: 0.9666, step time: 0.3561
Batch 216/248, train_loss: 0.7450, step time: 0.3761
Batch 217/248, train_loss: 0.9852, step time: 0.3825
Batch 218/248, train_loss: 0.9993, step time: 0.3646
Batch 219/248, train_loss: 0.8280, step time: 0.3425
Batch 220/248, train_loss: 0.9712, step time: 0.3726
Batch 221/248, train_loss: 0.9642, step time: 0.3446
Batch 222/248, train_loss: 0.7590, step time: 0.3799
Batch 223/248, train_loss: 0.5555, step time: 0.3518
Batch 224/248, train_loss: 0.6990, step time: 0.3791
Batch 225/248, train_loss: 0.9971, step time: 0.3456
Batch 226/248, train_loss: 0.9845, step time: 0.3490
Batch 227/248, train_loss: 0.8251, step time: 0.3477
Batch 228/248, train_loss: 0.9627, step time: 0.3544
Batch 229/248, train_loss: 0.5252, step time: 0.3618
Batch 230/248, train_loss: 0.8316, step time: 0.3549
Batch 231/248, train_loss: 0.9964, step time: 0.3547
Batch 232/248, train_loss: 0.8226, step time: 0.3822
Batch 233/248, train_loss: 0.9999, step time: 0.3496
Batch 234/248, train_loss: 0.9950, step time: 0.3845
Batch 235/248, train_loss: 0.9941, step time: 0.3678
Batch 236/248, train_loss: 0.9995, step time: 0.3630
Batch 237/248, train_loss: 0.5898, step time: 0.3663
Batch 238/248, train_loss: 0.7806, step time: 0.3679
Batch 239/248, train_loss: 0.2539, step time: 0.3665
Batch 240/248, train_loss: 0.9453, step time: 0.3656
Batch 241/248, train_loss: 0.9999, step time: 0.3523
Batch 242/248, train_loss: 0.9781, step time: 0.3656
Batch 243/248, train_loss: 0.9990, step time: 0.3400

```
Batch 244/248, train_loss: 0.9944, step time: 0.3734  
Batch 245/248, train_loss: 0.7418, step time: 0.3806  
Batch 246/248, train_loss: 0.9955, step time: 0.3436  
Batch 247/248, train_loss: 0.3563, step time: 0.3776  
Batch 248/248, train_loss: 1.0000, step time: 0.3692
```

Labels



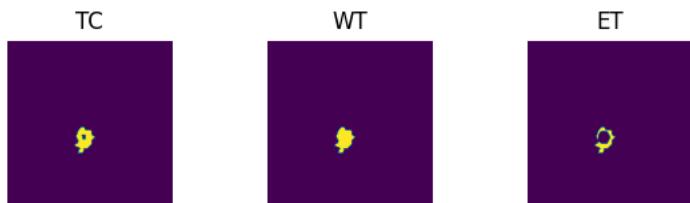
Predictions



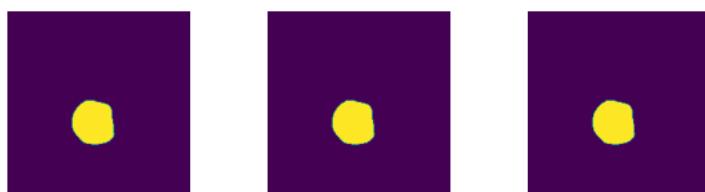
VAL

```
Batch 1/31, val_loss: 0.9185  
Batch 2/31, val_loss: 1.0000  
Batch 3/31, val_loss: 0.9984  
Batch 4/31, val_loss: 0.9897  
Batch 5/31, val_loss: 1.0000  
Batch 6/31, val_loss: 0.7659  
Batch 7/31, val_loss: 0.9456  
Batch 8/31, val_loss: 0.9911  
Batch 9/31, val_loss: 0.8314  
Batch 10/31, val_loss: 0.9884  
Batch 11/31, val_loss: 0.9594  
Batch 12/31, val_loss: 0.9849  
Batch 13/31, val_loss: 0.9950  
Batch 14/31, val_loss: 0.9864  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9986  
Batch 17/31, val_loss: 0.9997  
Batch 18/31, val_loss: 0.9847  
Batch 19/31, val_loss: 0.8942  
Batch 20/31, val_loss: 0.9589  
Batch 21/31, val_loss: 0.9850  
Batch 22/31, val_loss: 0.9971  
Batch 23/31, val_loss: 0.9985  
Batch 24/31, val_loss: 0.7921  
Batch 25/31, val_loss: 0.9259  
Batch 26/31, val_loss: 0.9891  
Batch 27/31, val_loss: 0.9995  
Batch 28/31, val_loss: 0.9289  
Batch 29/31, val_loss: 0.9998  
Batch 30/31, val_loss: 0.9985  
Batch 31/31, val_loss: 0.9980
```

Labels



Predictions



epoch 22

average train loss: 0.8521

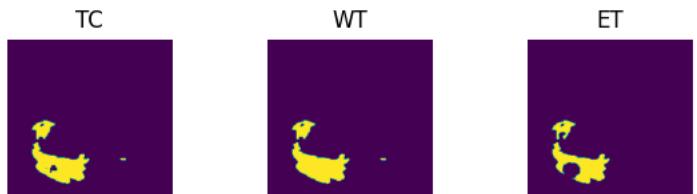
```
average validation loss: 0.9614
saved as best model: True
current mean dice: 0.1415
current TC dice: 0.1476
current WT dice: 0.1496
current ET dice: 0.1410
Best Mean Metric: 0.1415
time consuming of epoch 22 is: 1488.9334
-----
epoch 23/100
TRAIN
Batch 1/248, train_loss: 0.5167, step time: 0.3553
Batch 2/248, train_loss: 0.9997, step time: 0.3788
Batch 3/248, train_loss: 0.9906, step time: 0.3405
Batch 4/248, train_loss: 0.9997, step time: 0.3432
Batch 5/248, train_loss: 0.9504, step time: 0.3721
Batch 6/248, train_loss: 0.9453, step time: 0.3436
Batch 7/248, train_loss: 0.3654, step time: 0.3816
Batch 8/248, train_loss: 0.8618, step time: 0.3506
Batch 9/248, train_loss: 0.5442, step time: 0.3797
Batch 10/248, train_loss: 0.9787, step time: 0.3407
Batch 11/248, train_loss: 0.9521, step time: 0.3502
Batch 12/248, train_loss: 0.9982, step time: 0.3454
Batch 13/248, train_loss: 0.9852, step time: 0.3704
Batch 14/248, train_loss: 0.2720, step time: 0.3488
Batch 15/248, train_loss: 0.9768, step time: 0.3700
Batch 16/248, train_loss: 0.9411, step time: 0.3636
Batch 17/248, train_loss: 0.9980, step time: 0.3464
Batch 18/248, train_loss: 0.9929, step time: 0.3505
Batch 19/248, train_loss: 0.5657, step time: 0.3788
Batch 20/248, train_loss: 0.9265, step time: 0.3477
Batch 21/248, train_loss: 0.7975, step time: 0.3412
Batch 22/248, train_loss: 0.9999, step time: 0.3856
Batch 23/248, train_loss: 0.9998, step time: 0.3629
Batch 24/248, train_loss: 0.8279, step time: 0.3460
Batch 25/248, train_loss: 0.2686, step time: 0.3813
Batch 26/248, train_loss: 0.9957, step time: 0.3775
Batch 27/248, train_loss: 0.5086, step time: 0.3425
Batch 28/248, train_loss: 0.9333, step time: 0.3477
Batch 29/248, train_loss: 0.9973, step time: 0.3491
Batch 30/248, train_loss: 0.9857, step time: 0.3704
Batch 31/248, train_loss: 0.9767, step time: 0.3659
Batch 32/248, train_loss: 0.7800, step time: 0.3542
Batch 33/248, train_loss: 0.4926, step time: 0.3426
Batch 34/248, train_loss: 0.6249, step time: 0.3797
Batch 35/248, train_loss: 0.8180, step time: 0.3539
Batch 36/248, train_loss: 0.9998, step time: 0.3600
Batch 37/248, train_loss: 0.8552, step time: 0.3574
Batch 38/248, train_loss: 0.9683, step time: 0.3622
Batch 39/248, train_loss: 0.8689, step time: 0.3456
Batch 40/248, train_loss: 0.9996, step time: 0.3415
Batch 41/248, train_loss: 0.7377, step time: 0.3693
Batch 42/248, train_loss: 0.7318, step time: 0.3795
Batch 43/248, train_loss: 0.5875, step time: 0.3597
Batch 44/248, train_loss: 0.8694, step time: 0.3869
Batch 45/248, train_loss: 0.9790, step time: 0.3742
Batch 46/248, train_loss: 0.8879, step time: 0.3764
Batch 47/248, train_loss: 0.9374, step time: 0.3838
Batch 48/248, train_loss: 0.8877, step time: 0.3463
Batch 49/248, train_loss: 0.9930, step time: 0.3464
Batch 50/248, train_loss: 0.9393, step time: 0.3829
Batch 51/248, train_loss: 0.9271, step time: 0.3487
Batch 52/248, train_loss: 0.8883, step time: 0.3461
Batch 53/248, train_loss: 0.9716, step time: 0.3856
Batch 54/248, train_loss: 0.9235, step time: 0.3854
Batch 55/248, train_loss: 0.9774, step time: 0.3559
Batch 56/248, train_loss: 0.9312, step time: 0.3554
Batch 57/248, train_loss: 0.9402, step time: 0.3804
Batch 58/248, train_loss: 0.7515, step time: 0.3496
Batch 59/248, train_loss: 0.8066, step time: 0.3682
Batch 60/248, train_loss: 0.7425, step time: 0.3852
Batch 61/248, train_loss: 0.8145, step time: 0.3840
Batch 62/248, train_loss: 0.9806, step time: 0.3606
Batch 63/248, train_loss: 0.9962, step time: 0.3494
Batch 64/248, train_loss: 0.9949, step time: 0.3479
Batch 65/248, train_loss: 0.9395, step time: 0.3702
Batch 66/248, train_loss: 0.9404, step time: 0.3425
Batch 67/248, train_loss: 0.4817, step time: 0.3450
Batch 68/248, train_loss: 0.6894, step time: 0.3465
Batch 69/248, train_loss: 0.9987, step time: 0.3416
Batch 70/248, train_loss: 0.7566, step time: 0.3805
Batch 71/248, train_loss: 0.6492, step time: 0.3838
Batch 72/248, train_loss: 0.6783, step time: 0.3685
Batch 73/248, train_loss: 0.7168, step time: 0.3471
```

Batch 1/248, train_loss: 0.9999, step time: 0.3550
Batch 75/248, train_loss: 0.7272, step time: 0.3486
Batch 76/248, train_loss: 0.9968, step time: 0.3446
Batch 77/248, train_loss: 0.9996, step time: 0.3721
Batch 78/248, train_loss: 0.8638, step time: 0.3485
Batch 79/248, train_loss: 0.9270, step time: 0.3400
Batch 80/248, train_loss: 0.9535, step time: 0.3739
Batch 81/248, train_loss: 0.9689, step time: 0.3744
Batch 82/248, train_loss: 0.7316, step time: 0.3658
Batch 83/248, train_loss: 0.9956, step time: 0.3776
Batch 84/248, train_loss: 0.9281, step time: 0.3520
Batch 85/248, train_loss: 0.9968, step time: 0.3545
Batch 86/248, train_loss: 0.8016, step time: 0.3705
Batch 87/248, train_loss: 0.9877, step time: 0.3797
Batch 88/248, train_loss: 0.9899, step time: 0.3826
Batch 89/248, train_loss: 0.4057, step time: 0.3754
Batch 90/248, train_loss: 0.9291, step time: 0.3696
Batch 91/248, train_loss: 0.9962, step time: 0.3844
Batch 92/248, train_loss: 0.9062, step time: 0.3599
Batch 93/248, train_loss: 0.7006, step time: 0.3528
Batch 94/248, train_loss: 0.9963, step time: 0.3421
Batch 95/248, train_loss: 0.8572, step time: 0.3697
Batch 96/248, train_loss: 0.8349, step time: 0.3809
Batch 97/248, train_loss: 0.9999, step time: 0.3609
Batch 98/248, train_loss: 0.6736, step time: 0.3465
Batch 99/248, train_loss: 0.9878, step time: 0.3852
Batch 100/248, train_loss: 0.9983, step time: 0.3732
Batch 101/248, train_loss: 0.3122, step time: 0.3507
Batch 102/248, train_loss: 0.9002, step time: 0.3596
Batch 103/248, train_loss: 0.9952, step time: 0.3714
Batch 104/248, train_loss: 0.8537, step time: 0.3542
Batch 105/248, train_loss: 0.6254, step time: 0.3673
Batch 106/248, train_loss: 0.9459, step time: 0.3755
Batch 107/248, train_loss: 0.9879, step time: 0.3842
Batch 108/248, train_loss: 0.9926, step time: 0.3450
Batch 109/248, train_loss: 0.9991, step time: 0.3811
Batch 110/248, train_loss: 0.9727, step time: 0.3856
Batch 111/248, train_loss: 0.6315, step time: 0.3630
Batch 112/248, train_loss: 0.6625, step time: 0.3840
Batch 113/248, train_loss: 0.9999, step time: 0.3843
Batch 114/248, train_loss: 0.4392, step time: 0.3617
Batch 115/248, train_loss: 0.8825, step time: 0.3784
Batch 116/248, train_loss: 0.6093, step time: 0.3696
Batch 117/248, train_loss: 0.9976, step time: 0.3410
Batch 118/248, train_loss: 0.9984, step time: 0.3839
Batch 119/248, train_loss: 0.9034, step time: 0.3636
Batch 120/248, train_loss: 0.9095, step time: 0.3756
Batch 121/248, train_loss: 0.9754, step time: 0.3854
Batch 122/248, train_loss: 0.9854, step time: 0.3502
Batch 123/248, train_loss: 0.7614, step time: 0.3675
Batch 124/248, train_loss: 0.9868, step time: 0.3681
Batch 125/248, train_loss: 0.9973, step time: 0.3662
Batch 126/248, train_loss: 0.6417, step time: 0.3697
Batch 127/248, train_loss: 0.9106, step time: 0.3561
Batch 128/248, train_loss: 0.9593, step time: 0.3448
Batch 129/248, train_loss: 0.4771, step time: 0.3582
Batch 130/248, train_loss: 0.4823, step time: 0.3835
Batch 131/248, train_loss: 0.9850, step time: 0.3449
Batch 132/248, train_loss: 0.9909, step time: 0.3636
Batch 133/248, train_loss: 0.3591, step time: 0.3418
Batch 134/248, train_loss: 1.0000, step time: 0.3525
Batch 135/248, train_loss: 0.9932, step time: 0.3460
Batch 136/248, train_loss: 0.9505, step time: 0.3476
Batch 137/248, train_loss: 0.5292, step time: 0.3530
Batch 138/248, train_loss: 0.6128, step time: 0.3592
Batch 139/248, train_loss: 0.6713, step time: 0.3782
Batch 140/248, train_loss: 0.9417, step time: 0.3674
Batch 141/248, train_loss: 0.7585, step time: 0.3524
Batch 142/248, train_loss: 0.9978, step time: 0.3442
Batch 143/248, train_loss: 0.9508, step time: 0.3841
Batch 144/248, train_loss: 0.6333, step time: 0.3535
Batch 145/248, train_loss: 0.2976, step time: 0.3464
Batch 146/248, train_loss: 0.9995, step time: 0.3676
Batch 147/248, train_loss: 0.2646, step time: 0.3804
Batch 148/248, train_loss: 0.9906, step time: 0.3451
Batch 149/248, train_loss: 0.8862, step time: 0.3489
Batch 150/248, train_loss: 0.7671, step time: 0.3837
Batch 151/248, train_loss: 0.9844, step time: 0.3821
Batch 152/248, train_loss: 0.2886, step time: 0.3656
Batch 153/248, train_loss: 0.9805, step time: 0.3420
Batch 154/248, train_loss: 0.9959, step time: 0.3815
Batch 155/248, train_loss: 0.8891, step time: 0.3515
Batch 156/248, train_loss: 0.9010, step time: 0.3464
Batch 157/248, train_loss: 0.6433, step time: 0.3760
Batch 158/248, train_loss: 0.9996, step time: 0.3422

Batch 159/248, train_loss: 0.9987, step time: 0.3808
Batch 160/248, train_loss: 0.7522, step time: 0.3657
Batch 161/248, train_loss: 0.8969, step time: 0.3655
Batch 162/248, train_loss: 0.2506, step time: 0.3418
Batch 163/248, train_loss: 0.9903, step time: 0.3537
Batch 164/248, train_loss: 0.9065, step time: 0.3758
Batch 165/248, train_loss: 0.9997, step time: 0.3616
Batch 166/248, train_loss: 0.9776, step time: 0.3876
Batch 167/248, train_loss: 0.9090, step time: 0.3452
Batch 168/248, train_loss: 0.8958, step time: 0.3659
Batch 169/248, train_loss: 0.7763, step time: 0.3462
Batch 170/248, train_loss: 0.9953, step time: 0.3619
Batch 171/248, train_loss: 0.3907, step time: 0.3704
Batch 172/248, train_loss: 0.9994, step time: 0.3726
Batch 173/248, train_loss: 0.6306, step time: 0.3732
Batch 174/248, train_loss: 0.9992, step time: 0.3538
Batch 175/248, train_loss: 0.4443, step time: 0.3502
Batch 176/248, train_loss: 0.9433, step time: 0.3449
Batch 177/248, train_loss: 0.9993, step time: 0.3545
Batch 178/248, train_loss: 0.7502, step time: 0.3479
Batch 179/248, train_loss: 0.2254, step time: 0.3508
Batch 180/248, train_loss: 0.8965, step time: 0.3491
Batch 181/248, train_loss: 0.5494, step time: 0.3436
Batch 182/248, train_loss: 0.9813, step time: 0.3448
Batch 183/248, train_loss: 0.8999, step time: 0.3843
Batch 184/248, train_loss: 0.9786, step time: 0.3419
Batch 185/248, train_loss: 0.8953, step time: 0.3541
Batch 186/248, train_loss: 0.7760, step time: 0.3687
Batch 187/248, train_loss: 0.7851, step time: 0.3825
Batch 188/248, train_loss: 0.9054, step time: 0.3740
Batch 189/248, train_loss: 0.9999, step time: 0.3444
Batch 190/248, train_loss: 0.8099, step time: 0.3659
Batch 191/248, train_loss: 0.9994, step time: 0.3791
Batch 192/248, train_loss: 0.7657, step time: 0.3474
Batch 193/248, train_loss: 0.9474, step time: 0.3492
Batch 194/248, train_loss: 0.9392, step time: 0.3478
Batch 195/248, train_loss: 0.9991, step time: 0.3609
Batch 196/248, train_loss: 1.0000, step time: 0.3398
Batch 197/248, train_loss: 0.9681, step time: 0.3492
Batch 198/248, train_loss: 1.0000, step time: 0.3442
Batch 199/248, train_loss: 0.9141, step time: 0.3452
Batch 200/248, train_loss: 0.8900, step time: 0.3735
Batch 201/248, train_loss: 0.7578, step time: 0.3491
Batch 202/248, train_loss: 0.9466, step time: 0.3549
Batch 203/248, train_loss: 0.9967, step time: 0.3549
Batch 204/248, train_loss: 0.4871, step time: 0.3465
Batch 205/248, train_loss: 0.9776, step time: 0.3613
Batch 206/248, train_loss: 0.9986, step time: 0.3660
Batch 207/248, train_loss: 0.7230, step time: 0.3814
Batch 208/248, train_loss: 0.8958, step time: 0.3703
Batch 209/248, train_loss: 0.8525, step time: 0.3724
Batch 210/248, train_loss: 0.7073, step time: 0.3772
Batch 211/248, train_loss: 0.6957, step time: 0.3690
Batch 212/248, train_loss: 0.9561, step time: 0.3453
Batch 213/248, train_loss: 0.9484, step time: 0.3748
Batch 214/248, train_loss: 0.8174, step time: 0.3728
Batch 215/248, train_loss: 0.9630, step time: 0.3771
Batch 216/248, train_loss: 0.7346, step time: 0.3732
Batch 217/248, train_loss: 0.9830, step time: 0.3476
Batch 218/248, train_loss: 0.9990, step time: 0.3576
Batch 219/248, train_loss: 0.8143, step time: 0.3586
Batch 220/248, train_loss: 0.9670, step time: 0.3608
Batch 221/248, train_loss: 0.9617, step time: 0.3818
Batch 222/248, train_loss: 0.7454, step time: 0.3556
Batch 223/248, train_loss: 0.5224, step time: 0.3478
Batch 224/248, train_loss: 0.6746, step time: 0.3762
Batch 225/248, train_loss: 0.9969, step time: 0.3659
Batch 226/248, train_loss: 0.9821, step time: 0.3708
Batch 227/248, train_loss: 0.8148, step time: 0.3669
Batch 228/248, train_loss: 0.9782, step time: 0.3581
Batch 229/248, train_loss: 0.4957, step time: 0.3672
Batch 230/248, train_loss: 0.8188, step time: 0.3744
Batch 231/248, train_loss: 0.9977, step time: 0.3718
Batch 232/248, train_loss: 0.8106, step time: 0.3605
Batch 233/248, train_loss: 0.9999, step time: 0.3484
Batch 234/248, train_loss: 0.9961, step time: 0.3445
Batch 235/248, train_loss: 0.9966, step time: 0.3550
Batch 236/248, train_loss: 0.9995, step time: 0.3606
Batch 237/248, train_loss: 0.5653, step time: 0.3793
Batch 238/248, train_loss: 0.7640, step time: 0.3636
Batch 239/248, train_loss: 0.1955, step time: 0.3860
Batch 240/248, train_loss: 0.9483, step time: 0.3776
Batch 241/248, train_loss: 0.9999, step time: 0.3446
Batch 242/248, train_loss: 0.9788, step time: 0.3620
Batch 243/248, train_loss: 0.9992, step time: 0.3703

```
Batch 244/248, train_loss: 0.9943, step time: 0.3818
Batch 245/248, train_loss: 0.7392, step time: 0.3460
Batch 246/248, train_loss: 0.9966, step time: 0.3642
Batch 247/248, train_loss: 0.3090, step time: 0.3603
Batch 248/248, train_loss: 1.0000, step time: 0.3647
```

Labels



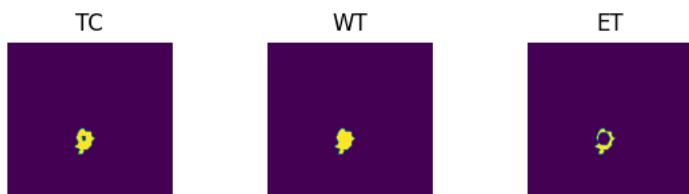
Predictions



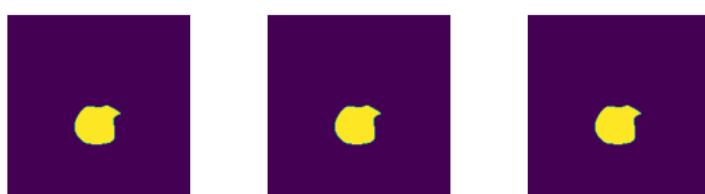
VAL

```
Batch 1/31, val_loss: 0.9166
Batch 2/31, val_loss: 0.9998
Batch 3/31, val_loss: 0.9983
Batch 4/31, val_loss: 0.9851
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.7634
Batch 7/31, val_loss: 0.9431
Batch 8/31, val_loss: 0.9907
Batch 9/31, val_loss: 0.8201
Batch 10/31, val_loss: 0.9817
Batch 11/31, val_loss: 0.9544
Batch 12/31, val_loss: 0.9880
Batch 13/31, val_loss: 0.9938
Batch 14/31, val_loss: 0.9892
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9984
Batch 17/31, val_loss: 0.9993
Batch 18/31, val_loss: 0.9843
Batch 19/31, val_loss: 0.8853
Batch 20/31, val_loss: 0.9578
Batch 21/31, val_loss: 0.9838
Batch 22/31, val_loss: 0.9975
Batch 23/31, val_loss: 0.9980
Batch 24/31, val_loss: 0.7936
Batch 25/31, val_loss: 0.9159
Batch 26/31, val_loss: 0.9871
Batch 27/31, val_loss: 0.9995
Batch 28/31, val_loss: 0.9200
Batch 29/31, val_loss: 0.9998
Batch 30/31, val_loss: 0.9984
Batch 31/31, val_loss: 0.9977
```

Labels



Predictions



epoch 23

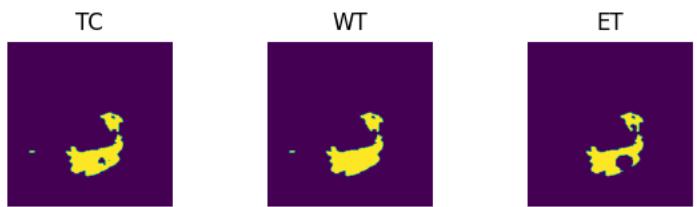
```
average train loss: 0.8421
average validation loss: 0.9594
saved as best model: True
current mean dice: 0.1540
current TC dice: 0.1607
current WT dice: 0.1630
current ET dice: 0.1532
Best Mean Metric: 0.1540
time consuming of epoch 23 is: 1500.3730
-----
epoch 24/100
TRAIN
Batch 1/248, train_loss: 0.4699, step time: 0.3460
Batch 2/248, train_loss: 0.9998, step time: 0.3448
Batch 3/248, train_loss: 0.9896, step time: 0.3476
Batch 4/248, train_loss: 0.9997, step time: 0.3766
Batch 5/248, train_loss: 0.9474, step time: 0.3653
Batch 6/248, train_loss: 0.9399, step time: 0.3721
Batch 7/248, train_loss: 0.3203, step time: 0.3792
Batch 8/248, train_loss: 0.8483, step time: 0.3599
Batch 9/248, train_loss: 0.5220, step time: 0.3636
Batch 10/248, train_loss: 0.9772, step time: 0.3695
Batch 11/248, train_loss: 0.9497, step time: 0.3545
Batch 12/248, train_loss: 0.9981, step time: 0.3629
Batch 13/248, train_loss: 0.9845, step time: 0.3643
Batch 14/248, train_loss: 0.2453, step time: 0.3831
Batch 15/248, train_loss: 0.9726, step time: 0.3686
Batch 16/248, train_loss: 0.9366, step time: 0.3448
Batch 17/248, train_loss: 0.9975, step time: 0.3465
Batch 18/248, train_loss: 0.9926, step time: 0.3694
Batch 19/248, train_loss: 0.5386, step time: 0.3507
Batch 20/248, train_loss: 0.9171, step time: 0.3832
Batch 21/248, train_loss: 0.7798, step time: 0.3699
Batch 22/248, train_loss: 0.9999, step time: 0.3602
Batch 23/248, train_loss: 0.9993, step time: 0.3822
Batch 24/248, train_loss: 0.8231, step time: 0.3635
Batch 25/248, train_loss: 0.2621, step time: 0.3818
Batch 26/248, train_loss: 0.9951, step time: 0.3693
Batch 27/248, train_loss: 0.4775, step time: 0.3448
Batch 28/248, train_loss: 0.9272, step time: 0.3663
Batch 29/248, train_loss: 0.9972, step time: 0.3870
Batch 30/248, train_loss: 0.9365, step time: 0.3723
Batch 31/248, train_loss: 0.9736, step time: 0.3870
Batch 32/248, train_loss: 0.7631, step time: 0.3432
Batch 33/248, train_loss: 0.4588, step time: 0.3831
Batch 34/248, train_loss: 0.5990, step time: 0.3495
Batch 35/248, train_loss: 0.8026, step time: 0.3640
Batch 36/248, train_loss: 0.9999, step time: 0.3525
Batch 37/248, train_loss: 0.8397, step time: 0.3742
Batch 38/248, train_loss: 0.9679, step time: 0.3829
Batch 39/248, train_loss: 0.8575, step time: 0.3770
Batch 40/248, train_loss: 0.9996, step time: 0.3648
Batch 41/248, train_loss: 0.7212, step time: 0.3787
Batch 42/248, train_loss: 0.7094, step time: 0.3703
Batch 43/248, train_loss: 0.5555, step time: 0.3415
Batch 44/248, train_loss: 0.8659, step time: 0.3426
Batch 45/248, train_loss: 0.9787, step time: 0.3450
Batch 46/248, train_loss: 0.8771, step time: 0.3827
Batch 47/248, train_loss: 0.9250, step time: 0.3849
Batch 48/248, train_loss: 0.8787, step time: 0.3751
Batch 49/248, train_loss: 0.9915, step time: 0.3569
Batch 50/248, train_loss: 0.9365, step time: 0.3414
Batch 51/248, train_loss: 0.9212, step time: 0.3439
Batch 52/248, train_loss: 0.8812, step time: 0.3509
Batch 53/248, train_loss: 0.9681, step time: 0.3759
Batch 54/248, train_loss: 0.9177, step time: 0.3870
Batch 55/248, train_loss: 0.9762, step time: 0.3417
Batch 56/248, train_loss: 0.9242, step time: 0.3851
Batch 57/248, train_loss: 0.9354, step time: 0.3800
Batch 58/248, train_loss: 0.7382, step time: 0.3416
Batch 59/248, train_loss: 0.7904, step time: 0.3835
Batch 60/248, train_loss: 0.7211, step time: 0.3793
Batch 61/248, train_loss: 0.7977, step time: 0.3624
Batch 62/248, train_loss: 0.9791, step time: 0.3864
Batch 63/248, train_loss: 0.9964, step time: 0.3726
Batch 64/248, train_loss: 0.9943, step time: 0.3521
Batch 65/248, train_loss: 0.9339, step time: 0.3455
Batch 66/248, train_loss: 0.9379, step time: 0.3844
Batch 67/248, train_loss: 0.4506, step time: 0.3428
Batch 68/248, train_loss: 0.6609, step time: 0.3524
Batch 69/248, train_loss: 0.9986, step time: 0.3706
Batch 70/248, train_loss: 0.7386, step time: 0.3646
Batch 71/248, train_loss: 0.6309, step time: 0.3614
Batch 72/248, train_loss: 0.6519, step time: 0.3471
Batch 73/248, train_loss: 0.6893, step time: 0.3624
```

Batch 74/248, train_loss: 0.9997, step time: 0.3598
Batch 75/248, train_loss: 0.7054, step time: 0.3726
Batch 76/248, train_loss: 0.9966, step time: 0.3703
Batch 77/248, train_loss: 0.9997, step time: 0.3756
Batch 78/248, train_loss: 0.8528, step time: 0.3446
Batch 79/248, train_loss: 0.9198, step time: 0.3666
Batch 80/248, train_loss: 0.9516, step time: 0.3515
Batch 81/248, train_loss: 0.9666, step time: 0.3746
Batch 82/248, train_loss: 0.7108, step time: 0.3858
Batch 83/248, train_loss: 0.9947, step time: 0.3421
Batch 84/248, train_loss: 0.9212, step time: 0.3832
Batch 85/248, train_loss: 0.9966, step time: 0.3730
Batch 86/248, train_loss: 0.7964, step time: 0.3876
Batch 87/248, train_loss: 0.9893, step time: 0.3808
Batch 88/248, train_loss: 0.9892, step time: 0.3474
Batch 89/248, train_loss: 0.3769, step time: 0.3696
Batch 90/248, train_loss: 0.9225, step time: 0.3435
Batch 91/248, train_loss: 0.9957, step time: 0.3556
Batch 92/248, train_loss: 0.8990, step time: 0.3766
Batch 93/248, train_loss: 0.6789, step time: 0.3669
Batch 94/248, train_loss: 0.9958, step time: 0.3503
Batch 95/248, train_loss: 0.8453, step time: 0.3820
Batch 96/248, train_loss: 0.8145, step time: 0.3468
Batch 97/248, train_loss: 0.9999, step time: 0.3476
Batch 98/248, train_loss: 0.6422, step time: 0.3841
Batch 99/248, train_loss: 0.9873, step time: 0.3511
Batch 100/248, train_loss: 0.9974, step time: 0.3820
Batch 101/248, train_loss: 0.2794, step time: 0.3471
Batch 102/248, train_loss: 0.8888, step time: 0.3870
Batch 103/248, train_loss: 0.9947, step time: 0.3409
Batch 104/248, train_loss: 0.8410, step time: 0.3508
Batch 105/248, train_loss: 0.5973, step time: 0.3467
Batch 106/248, train_loss: 0.9429, step time: 0.3534
Batch 107/248, train_loss: 0.9865, step time: 0.3818
Batch 108/248, train_loss: 0.9917, step time: 0.3551
Batch 109/248, train_loss: 0.9979, step time: 0.3635
Batch 110/248, train_loss: 0.9950, step time: 0.3484
Batch 111/248, train_loss: 0.6049, step time: 0.3742
Batch 112/248, train_loss: 0.6377, step time: 0.3511
Batch 113/248, train_loss: 0.9999, step time: 0.3413
Batch 114/248, train_loss: 0.4117, step time: 0.3874
Batch 115/248, train_loss: 0.8741, step time: 0.3466
Batch 116/248, train_loss: 0.5843, step time: 0.3761
Batch 117/248, train_loss: 0.9967, step time: 0.3695
Batch 118/248, train_loss: 0.9926, step time: 0.3572
Batch 119/248, train_loss: 0.8941, step time: 0.3650
Batch 120/248, train_loss: 0.8988, step time: 0.3427
Batch 121/248, train_loss: 0.9738, step time: 0.3796
Batch 122/248, train_loss: 0.9844, step time: 0.3831
Batch 123/248, train_loss: 0.7417, step time: 0.3420
Batch 124/248, train_loss: 0.9845, step time: 0.3625
Batch 125/248, train_loss: 0.9978, step time: 0.3850
Batch 126/248, train_loss: 0.6433, step time: 0.3766
Batch 127/248, train_loss: 0.9015, step time: 0.3646
Batch 128/248, train_loss: 0.9547, step time: 0.3472
Batch 129/248, train_loss: 0.4480, step time: 0.3545
Batch 130/248, train_loss: 0.4722, step time: 0.3809
Batch 131/248, train_loss: 0.9837, step time: 0.3440
Batch 132/248, train_loss: 0.9899, step time: 0.3853
Batch 133/248, train_loss: 0.3492, step time: 0.3663
Batch 134/248, train_loss: 1.0000, step time: 0.3676
Batch 135/248, train_loss: 0.9913, step time: 0.3411
Batch 136/248, train_loss: 0.9438, step time: 0.3814
Batch 137/248, train_loss: 0.5048, step time: 0.3430
Batch 138/248, train_loss: 0.5801, step time: 0.3690
Batch 139/248, train_loss: 0.6624, step time: 0.3799
Batch 140/248, train_loss: 0.9381, step time: 0.3607
Batch 141/248, train_loss: 0.7343, step time: 0.3823
Batch 142/248, train_loss: 0.9965, step time: 0.3754
Batch 143/248, train_loss: 0.9473, step time: 0.3758
Batch 144/248, train_loss: 0.6038, step time: 0.3454
Batch 145/248, train_loss: 0.2652, step time: 0.3861
Batch 146/248, train_loss: 0.9995, step time: 0.3426
Batch 147/248, train_loss: 0.2336, step time: 0.3746
Batch 148/248, train_loss: 0.9891, step time: 0.3420
Batch 149/248, train_loss: 0.8739, step time: 0.3771
Batch 150/248, train_loss: 0.7653, step time: 0.3771
Batch 151/248, train_loss: 0.9838, step time: 0.3549
Batch 152/248, train_loss: 0.2589, step time: 0.3667
Batch 153/248, train_loss: 0.9787, step time: 0.3407
Batch 154/248, train_loss: 0.9955, step time: 0.3500
Batch 155/248, train_loss: 0.8829, step time: 0.3430
Batch 156/248, train_loss: 0.8924, step time: 0.3764
Batch 157/248, train_loss: 0.6181, step time: 0.3473
Batch 158/248, train_loss: 0.9993, step time: 0.3578

Batch 159/248, train_loss: 0.9980, step time: 0.3420
Batch 160/248, train_loss: 0.7333, step time: 0.3456
Batch 161/248, train_loss: 0.8898, step time: 0.3746
Batch 162/248, train_loss: 0.2375, step time: 0.3751
Batch 163/248, train_loss: 0.9894, step time: 0.3715
Batch 164/248, train_loss: 0.8941, step time: 0.3839
Batch 165/248, train_loss: 0.9996, step time: 0.3462
Batch 166/248, train_loss: 0.9746, step time: 0.3659
Batch 167/248, train_loss: 0.9002, step time: 0.3490
Batch 168/248, train_loss: 0.8928, step time: 0.3733
Batch 169/248, train_loss: 0.7571, step time: 0.3509
Batch 170/248, train_loss: 0.9921, step time: 0.3847
Batch 171/248, train_loss: 0.3669, step time: 0.3545
Batch 172/248, train_loss: 0.9997, step time: 0.3444
Batch 173/248, train_loss: 0.6085, step time: 0.3575
Batch 174/248, train_loss: 0.9996, step time: 0.3422
Batch 175/248, train_loss: 0.4273, step time: 0.3424
Batch 176/248, train_loss: 0.9383, step time: 0.3608
Batch 177/248, train_loss: 0.9989, step time: 0.3462
Batch 178/248, train_loss: 0.7370, step time: 0.3806
Batch 179/248, train_loss: 0.2259, step time: 0.3449
Batch 180/248, train_loss: 0.8891, step time: 0.3646
Batch 181/248, train_loss: 0.5196, step time: 0.3677
Batch 182/248, train_loss: 0.9798, step time: 0.3610
Batch 183/248, train_loss: 0.8950, step time: 0.3471
Batch 184/248, train_loss: 0.9768, step time: 0.3517
Batch 185/248, train_loss: 0.8857, step time: 0.3838
Batch 186/248, train_loss: 0.7594, step time: 0.3786
Batch 187/248, train_loss: 0.7677, step time: 0.3752
Batch 188/248, train_loss: 0.8993, step time: 0.3774
Batch 189/248, train_loss: 0.9998, step time: 0.3661
Batch 190/248, train_loss: 0.7952, step time: 0.3878
Batch 191/248, train_loss: 0.9991, step time: 0.3537
Batch 192/248, train_loss: 0.7420, step time: 0.3435
Batch 193/248, train_loss: 0.9432, step time: 0.3838
Batch 194/248, train_loss: 0.9334, step time: 0.3811
Batch 195/248, train_loss: 0.9991, step time: 0.3658
Batch 196/248, train_loss: 0.9999, step time: 0.3806
Batch 197/248, train_loss: 0.9659, step time: 0.3718
Batch 198/248, train_loss: 1.0000, step time: 0.3751
Batch 199/248, train_loss: 0.9022, step time: 0.3484
Batch 200/248, train_loss: 0.8806, step time: 0.3798
Batch 201/248, train_loss: 0.7419, step time: 0.3761
Batch 202/248, train_loss: 0.9412, step time: 0.3679
Batch 203/248, train_loss: 0.9959, step time: 0.3452
Batch 204/248, train_loss: 0.4586, step time: 0.3458
Batch 205/248, train_loss: 0.9759, step time: 0.3773
Batch 206/248, train_loss: 0.9986, step time: 0.3697
Batch 207/248, train_loss: 0.6978, step time: 0.3459
Batch 208/248, train_loss: 0.8855, step time: 0.3736
Batch 209/248, train_loss: 0.8345, step time: 0.3532
Batch 210/248, train_loss: 0.6880, step time: 0.3468
Batch 211/248, train_loss: 0.6746, step time: 0.3666
Batch 212/248, train_loss: 0.9595, step time: 0.3881
Batch 213/248, train_loss: 0.9419, step time: 0.3444
Batch 214/248, train_loss: 0.7982, step time: 0.3825
Batch 215/248, train_loss: 0.9630, step time: 0.3474
Batch 216/248, train_loss: 0.7323, step time: 0.3437
Batch 217/248, train_loss: 0.9825, step time: 0.3420
Batch 218/248, train_loss: 0.9991, step time: 0.3479
Batch 219/248, train_loss: 0.8033, step time: 0.3599
Batch 220/248, train_loss: 0.9638, step time: 0.3670
Batch 221/248, train_loss: 0.9598, step time: 0.3847
Batch 222/248, train_loss: 0.7296, step time: 0.3461
Batch 223/248, train_loss: 0.4910, step time: 0.3440
Batch 224/248, train_loss: 0.6517, step time: 0.3862
Batch 225/248, train_loss: 0.9966, step time: 0.3465
Batch 226/248, train_loss: 0.9802, step time: 0.3812
Batch 227/248, train_loss: 0.8051, step time: 0.3536
Batch 228/248, train_loss: 0.9558, step time: 0.3717
Batch 229/248, train_loss: 0.4566, step time: 0.3677
Batch 230/248, train_loss: 0.8041, step time: 0.3459
Batch 231/248, train_loss: 0.9994, step time: 0.3658
Batch 232/248, train_loss: 0.7944, step time: 0.3840
Batch 233/248, train_loss: 0.9999, step time: 0.3589
Batch 234/248, train_loss: 0.9975, step time: 0.3768
Batch 235/248, train_loss: 0.9947, step time: 0.3591
Batch 236/248, train_loss: 0.9996, step time: 0.3699
Batch 237/248, train_loss: 0.5345, step time: 0.3810
Batch 238/248, train_loss: 0.7456, step time: 0.3716
Batch 239/248, train_loss: 0.2109, step time: 0.3544
Batch 240/248, train_loss: 0.9381, step time: 0.3578
Batch 241/248, train_loss: 0.9998, step time: 0.3691
Batch 242/248, train_loss: 0.9769, step time: 0.3442
Batch 243/248, train_loss: 0.9993, step time: 0.3521

```
Batch 243/248, train_loss: 0.9994, step time: 0.3524  
Batch 244/248, train_loss: 0.9946, step time: 0.3419  
Batch 245/248, train_loss: 0.7343, step time: 0.3797  
Batch 246/248, train_loss: 0.9964, step time: 0.3576  
Batch 247/248, train_loss: 0.3431, step time: 0.3707  
Batch 248/248, train_loss: 1.0000, step time: 0.3672
```

Labels



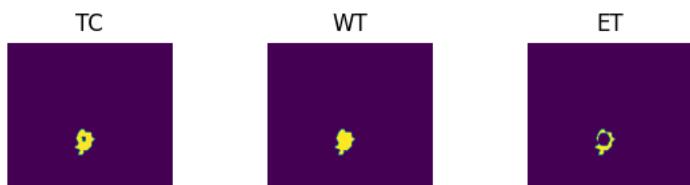
Predictions



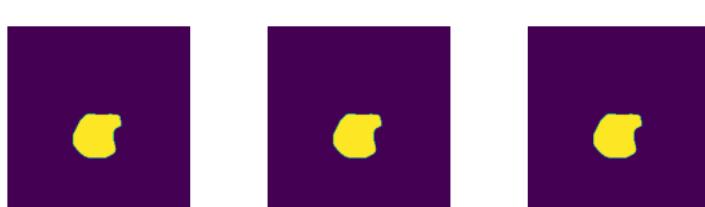
VAL

```
Batch 1/31, val_loss: 0.9007  
Batch 2/31, val_loss: 1.0000  
Batch 3/31, val_loss: 0.9979  
Batch 4/31, val_loss: 0.9818  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7667  
Batch 7/31, val_loss: 0.9400  
Batch 8/31, val_loss: 0.9917  
Batch 9/31, val_loss: 0.8292  
Batch 10/31, val_loss: 0.9879  
Batch 11/31, val_loss: 0.9564  
Batch 12/31, val_loss: 0.9816  
Batch 13/31, val_loss: 0.9943  
Batch 14/31, val_loss: 0.9843  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9983  
Batch 17/31, val_loss: 0.9990  
Batch 18/31, val_loss: 0.9811  
Batch 19/31, val_loss: 0.8801  
Batch 20/31, val_loss: 0.9593  
Batch 21/31, val_loss: 0.9848  
Batch 22/31, val_loss: 0.9970  
Batch 23/31, val_loss: 0.9989  
Batch 24/31, val_loss: 0.7942  
Batch 25/31, val_loss: 0.9193  
Batch 26/31, val_loss: 0.9885  
Batch 27/31, val_loss: 0.9995  
Batch 28/31, val_loss: 0.9256  
Batch 29/31, val_loss: 0.9998  
Batch 30/31, val_loss: 0.9985  
Batch 31/31, val_loss: 0.9980
```

Labels



Predictions



epoch 24

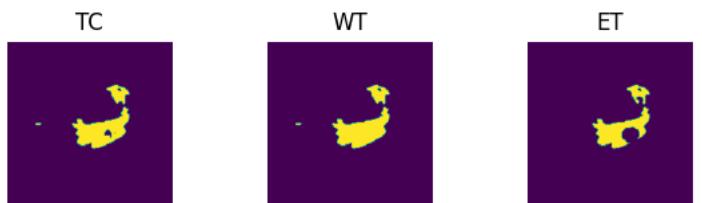
```
average train loss: 0.8327
average validation loss: 0.9592
saved as best model: False
current mean dice: 0.1375
current TC dice: 0.1434
current WT dice: 0.1454
current ET dice: 0.1368
Best Mean Metric: 0.1540
time consuming of epoch 24 is: 1493.5239
-----
epoch 25/100
TRAIN
Batch 1/248, train_loss: 0.4886, step time: 0.3611
Batch 2/248, train_loss: 0.9997, step time: 0.3453
Batch 3/248, train_loss: 0.9886, step time: 0.3824
Batch 4/248, train_loss: 0.9996, step time: 0.3418
Batch 5/248, train_loss: 0.9434, step time: 0.3772
Batch 6/248, train_loss: 0.9330, step time: 0.3462
Batch 7/248, train_loss: 0.2994, step time: 0.3496
Batch 8/248, train_loss: 0.8407, step time: 0.3751
Batch 9/248, train_loss: 0.4906, step time: 0.3498
Batch 10/248, train_loss: 0.9760, step time: 0.3820
Batch 11/248, train_loss: 0.9432, step time: 0.3505
Batch 12/248, train_loss: 0.9983, step time: 0.3496
Batch 13/248, train_loss: 0.9853, step time: 0.3466
Batch 14/248, train_loss: 0.2133, step time: 0.3415
Batch 15/248, train_loss: 0.9729, step time: 0.3485
Batch 16/248, train_loss: 0.9306, step time: 0.3869
Batch 17/248, train_loss: 0.9992, step time: 0.3676
Batch 18/248, train_loss: 0.9917, step time: 0.3426
Batch 19/248, train_loss: 0.5140, step time: 0.3828
Batch 20/248, train_loss: 0.9109, step time: 0.3461
Batch 21/248, train_loss: 0.7599, step time: 0.3744
Batch 22/248, train_loss: 0.9999, step time: 0.3754
Batch 23/248, train_loss: 0.9999, step time: 0.3495
Batch 24/248, train_loss: 0.8015, step time: 0.3623
Batch 25/248, train_loss: 0.2332, step time: 0.3818
Batch 26/248, train_loss: 0.9956, step time: 0.3768
Batch 27/248, train_loss: 0.4464, step time: 0.3430
Batch 28/248, train_loss: 0.9234, step time: 0.3513
Batch 29/248, train_loss: 0.9968, step time: 0.3713
Batch 30/248, train_loss: 0.9311, step time: 0.3831
Batch 31/248, train_loss: 0.9710, step time: 0.3469
Batch 32/248, train_loss: 0.7491, step time: 0.3719
Batch 33/248, train_loss: 0.4336, step time: 0.3463
Batch 34/248, train_loss: 0.5727, step time: 0.3769
Batch 35/248, train_loss: 0.7890, step time: 0.3768
Batch 36/248, train_loss: 0.9998, step time: 0.3805
Batch 37/248, train_loss: 0.8357, step time: 0.3689
Batch 38/248, train_loss: 0.9646, step time: 0.3438
Batch 39/248, train_loss: 0.8490, step time: 0.3449
Batch 40/248, train_loss: 0.9996, step time: 0.3527
Batch 41/248, train_loss: 0.7059, step time: 0.3790
Batch 42/248, train_loss: 0.7048, step time: 0.3784
Batch 43/248, train_loss: 0.5295, step time: 0.3429
Batch 44/248, train_loss: 0.8475, step time: 0.3745
Batch 45/248, train_loss: 0.9740, step time: 0.3418
Batch 46/248, train_loss: 0.8645, step time: 0.3455
Batch 47/248, train_loss: 0.9164, step time: 0.3803
Batch 48/248, train_loss: 0.8677, step time: 0.3583
Batch 49/248, train_loss: 0.9940, step time: 0.3767
Batch 50/248, train_loss: 0.9308, step time: 0.3478
Batch 51/248, train_loss: 0.9182, step time: 0.3488
Batch 52/248, train_loss: 0.8697, step time: 0.3569
Batch 53/248, train_loss: 0.9669, step time: 0.3783
Batch 54/248, train_loss: 0.9087, step time: 0.3651
Batch 55/248, train_loss: 0.9744, step time: 0.3838
Batch 56/248, train_loss: 0.9166, step time: 0.3453
Batch 57/248, train_loss: 0.9316, step time: 0.3457
Batch 58/248, train_loss: 0.7175, step time: 0.3489
Batch 59/248, train_loss: 0.7714, step time: 0.3841
Batch 60/248, train_loss: 0.7036, step time: 0.3455
Batch 61/248, train_loss: 0.7908, step time: 0.3715
Batch 62/248, train_loss: 0.9776, step time: 0.3557
Batch 63/248, train_loss: 0.9952, step time: 0.3530
Batch 64/248, train_loss: 0.9935, step time: 0.3446
Batch 65/248, train_loss: 0.9293, step time: 0.3469
Batch 66/248, train_loss: 0.9332, step time: 0.3458
Batch 67/248, train_loss: 0.4324, step time: 0.3687
Batch 68/248, train_loss: 0.6408, step time: 0.3468
Batch 69/248, train_loss: 0.9990, step time: 0.3464
Batch 70/248, train_loss: 0.7188, step time: 0.3839
Batch 71/248, train_loss: 0.6055, step time: 0.3767
Batch 72/248, train_loss: 0.6269, step time: 0.3522
Batch 73/248, train_loss: 0.6693, step time: 0.3700
```

Batch 74/248, train_loss: 0.9998, step time: 0.3807
Batch 75/248, train_loss: 0.6851, step time: 0.3636
Batch 76/248, train_loss: 0.9964, step time: 0.3763
Batch 77/248, train_loss: 0.9995, step time: 0.3731
Batch 78/248, train_loss: 0.8455, step time: 0.3591
Batch 79/248, train_loss: 0.9130, step time: 0.3537
Batch 80/248, train_loss: 0.9488, step time: 0.3458
Batch 81/248, train_loss: 0.9651, step time: 0.3605
Batch 82/248, train_loss: 0.6913, step time: 0.3690
Batch 83/248, train_loss: 0.9960, step time: 0.3447
Batch 84/248, train_loss: 0.9153, step time: 0.3655
Batch 85/248, train_loss: 0.9969, step time: 0.3725
Batch 86/248, train_loss: 0.7725, step time: 0.3416
Batch 87/248, train_loss: 0.9913, step time: 0.3487
Batch 88/248, train_loss: 0.9890, step time: 0.3852
Batch 89/248, train_loss: 0.3529, step time: 0.3508
Batch 90/248, train_loss: 0.9206, step time: 0.3520
Batch 91/248, train_loss: 0.9955, step time: 0.3870
Batch 92/248, train_loss: 0.8905, step time: 0.3853
Batch 93/248, train_loss: 0.6655, step time: 0.3802
Batch 94/248, train_loss: 0.9956, step time: 0.3828
Batch 95/248, train_loss: 0.8316, step time: 0.3478
Batch 96/248, train_loss: 0.8024, step time: 0.3611
Batch 97/248, train_loss: 0.9999, step time: 0.3704
Batch 98/248, train_loss: 0.6276, step time: 0.3450
Batch 99/248, train_loss: 0.9862, step time: 0.3706
Batch 100/248, train_loss: 0.9979, step time: 0.3852
Batch 101/248, train_loss: 0.2531, step time: 0.3463
Batch 102/248, train_loss: 0.8797, step time: 0.3465
Batch 103/248, train_loss: 0.9946, step time: 0.3828
Batch 104/248, train_loss: 0.8301, step time: 0.3818
Batch 105/248, train_loss: 0.5749, step time: 0.3586
Batch 106/248, train_loss: 0.9339, step time: 0.3864
Batch 107/248, train_loss: 0.9858, step time: 0.3840
Batch 108/248, train_loss: 0.9913, step time: 0.3759
Batch 109/248, train_loss: 0.9981, step time: 0.3575
Batch 110/248, train_loss: 0.9783, step time: 0.3722
Batch 111/248, train_loss: 0.5789, step time: 0.3461
Batch 112/248, train_loss: 0.6065, step time: 0.3852
Batch 113/248, train_loss: 0.9999, step time: 0.3420
Batch 114/248, train_loss: 0.4143, step time: 0.3608
Batch 115/248, train_loss: 0.8652, step time: 0.3768
Batch 116/248, train_loss: 0.5593, step time: 0.3754
Batch 117/248, train_loss: 0.9971, step time: 0.3786
Batch 118/248, train_loss: 0.9974, step time: 0.3681
Batch 119/248, train_loss: 0.8976, step time: 0.3609
Batch 120/248, train_loss: 0.8944, step time: 0.3532
Batch 121/248, train_loss: 0.9720, step time: 0.3442
Batch 122/248, train_loss: 0.9821, step time: 0.3422
Batch 123/248, train_loss: 0.7336, step time: 0.3810
Batch 124/248, train_loss: 0.9847, step time: 0.3442
Batch 125/248, train_loss: 0.9975, step time: 0.3484
Batch 126/248, train_loss: 0.6132, step time: 0.3500
Batch 127/248, train_loss: 0.8967, step time: 0.3816
Batch 128/248, train_loss: 0.9517, step time: 0.3642
Batch 129/248, train_loss: 0.4137, step time: 0.3708
Batch 130/248, train_loss: 0.4418, step time: 0.3838
Batch 131/248, train_loss: 0.9819, step time: 0.3724
Batch 132/248, train_loss: 0.9875, step time: 0.3615
Batch 133/248, train_loss: 0.3159, step time: 0.3842
Batch 134/248, train_loss: 1.0000, step time: 0.3536
Batch 135/248, train_loss: 0.9950, step time: 0.3504
Batch 136/248, train_loss: 0.9405, step time: 0.3765
Batch 137/248, train_loss: 0.4721, step time: 0.3483
Batch 138/248, train_loss: 0.5562, step time: 0.3773
Batch 139/248, train_loss: 0.6262, step time: 0.3832
Batch 140/248, train_loss: 0.9309, step time: 0.3555
Batch 141/248, train_loss: 0.7208, step time: 0.3809
Batch 142/248, train_loss: 0.9971, step time: 0.3844
Batch 143/248, train_loss: 0.9422, step time: 0.3744
Batch 144/248, train_loss: 0.5545, step time: 0.3858
Batch 145/248, train_loss: 0.2528, step time: 0.3443
Batch 146/248, train_loss: 0.9995, step time: 0.3771
Batch 147/248, train_loss: 0.2172, step time: 0.3674
Batch 148/248, train_loss: 0.9904, step time: 0.3739
Batch 149/248, train_loss: 0.8633, step time: 0.3710
Batch 150/248, train_loss: 0.7524, step time: 0.3681
Batch 151/248, train_loss: 0.9830, step time: 0.3520
Batch 152/248, train_loss: 0.2407, step time: 0.3856
Batch 153/248, train_loss: 0.9778, step time: 0.3509
Batch 154/248, train_loss: 0.9952, step time: 0.3570
Batch 155/248, train_loss: 0.8729, step time: 0.3665
Batch 156/248, train_loss: 0.8905, step time: 0.3721
Batch 157/248, train_loss: 0.5931, step time: 0.3733

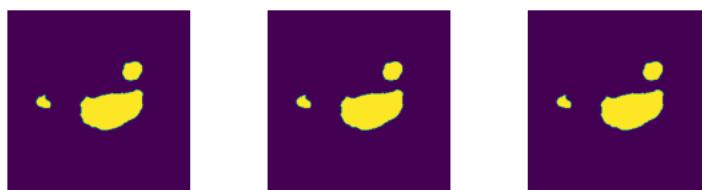
Batch 158/248, train_loss: 0.9993, step time: 0.382/
Batch 159/248, train_loss: 0.9984, step time: 0.3464
Batch 160/248, train_loss: 0.7140, step time: 0.3467
Batch 161/248, train_loss: 0.8794, step time: 0.3486
Batch 162/248, train_loss: 0.2610, step time: 0.3800
Batch 163/248, train_loss: 0.9886, step time: 0.3453
Batch 164/248, train_loss: 0.8836, step time: 0.3528
Batch 165/248, train_loss: 0.9997, step time: 0.3449
Batch 166/248, train_loss: 0.9724, step time: 0.3855
Batch 167/248, train_loss: 0.8941, step time: 0.3670
Batch 168/248, train_loss: 0.8791, step time: 0.3655
Batch 169/248, train_loss: 0.7505, step time: 0.3452
Batch 170/248, train_loss: 0.9918, step time: 0.3828
Batch 171/248, train_loss: 0.3540, step time: 0.3784
Batch 172/248, train_loss: 0.9997, step time: 0.3423
Batch 173/248, train_loss: 0.5880, step time: 0.3545
Batch 174/248, train_loss: 0.9943, step time: 0.3475
Batch 175/248, train_loss: 0.3876, step time: 0.3670
Batch 176/248, train_loss: 0.9341, step time: 0.3489
Batch 177/248, train_loss: 0.9992, step time: 0.3420
Batch 178/248, train_loss: 0.7359, step time: 0.3592
Batch 179/248, train_loss: 0.2235, step time: 0.3622
Batch 180/248, train_loss: 0.8780, step time: 0.3694
Batch 181/248, train_loss: 0.4883, step time: 0.3539
Batch 182/248, train_loss: 0.9796, step time: 0.3404
Batch 183/248, train_loss: 0.8770, step time: 0.3492
Batch 184/248, train_loss: 0.9751, step time: 0.3449
Batch 185/248, train_loss: 0.8780, step time: 0.3747
Batch 186/248, train_loss: 0.7437, step time: 0.3696
Batch 187/248, train_loss: 0.7528, step time: 0.3447
Batch 188/248, train_loss: 0.8874, step time: 0.3434
Batch 189/248, train_loss: 0.9998, step time: 0.3869
Batch 190/248, train_loss: 0.7856, step time: 0.3788
Batch 191/248, train_loss: 0.9987, step time: 0.3641
Batch 192/248, train_loss: 0.7387, step time: 0.3872
Batch 193/248, train_loss: 0.9386, step time: 0.3532
Batch 194/248, train_loss: 0.9278, step time: 0.3446
Batch 195/248, train_loss: 0.9990, step time: 0.3592
Batch 196/248, train_loss: 1.0000, step time: 0.3753
Batch 197/248, train_loss: 0.9623, step time: 0.3753
Batch 198/248, train_loss: 1.0000, step time: 0.3478
Batch 199/248, train_loss: 0.8930, step time: 0.3544
Batch 200/248, train_loss: 0.8701, step time: 0.3632
Batch 201/248, train_loss: 0.7243, step time: 0.3861
Batch 202/248, train_loss: 0.9358, step time: 0.3577
Batch 203/248, train_loss: 0.9954, step time: 0.3816
Batch 204/248, train_loss: 0.4369, step time: 0.3729
Batch 205/248, train_loss: 0.9751, step time: 0.3539
Batch 206/248, train_loss: 0.9984, step time: 0.3475
Batch 207/248, train_loss: 0.6769, step time: 0.3404
Batch 208/248, train_loss: 0.8751, step time: 0.3427
Batch 209/248, train_loss: 0.8162, step time: 0.3714
Batch 210/248, train_loss: 0.6631, step time: 0.3852
Batch 211/248, train_loss: 0.6529, step time: 0.3781
Batch 212/248, train_loss: 0.9503, step time: 0.3586
Batch 213/248, train_loss: 0.9372, step time: 0.3674
Batch 214/248, train_loss: 0.7824, step time: 0.3629
Batch 215/248, train_loss: 0.9585, step time: 0.3527
Batch 216/248, train_loss: 0.6918, step time: 0.3843
Batch 217/248, train_loss: 0.9799, step time: 0.3602
Batch 218/248, train_loss: 0.9991, step time: 0.3727
Batch 219/248, train_loss: 0.7840, step time: 0.3805
Batch 220/248, train_loss: 0.9595, step time: 0.3710
Batch 221/248, train_loss: 0.9557, step time: 0.3506
Batch 222/248, train_loss: 0.7127, step time: 0.3417
Batch 223/248, train_loss: 0.4638, step time: 0.3762
Batch 224/248, train_loss: 0.6296, step time: 0.3522
Batch 225/248, train_loss: 0.9964, step time: 0.3868
Batch 226/248, train_loss: 0.9779, step time: 0.3461
Batch 227/248, train_loss: 0.7813, step time: 0.3654
Batch 228/248, train_loss: 0.9530, step time: 0.3459
Batch 229/248, train_loss: 0.4459, step time: 0.3699
Batch 230/248, train_loss: 0.7873, step time: 0.3863
Batch 231/248, train_loss: 0.9984, step time: 0.3836
Batch 232/248, train_loss: 0.7774, step time: 0.3555
Batch 233/248, train_loss: 0.9999, step time: 0.3488
Batch 234/248, train_loss: 0.9947, step time: 0.3803
Batch 235/248, train_loss: 0.9951, step time: 0.3425
Batch 236/248, train_loss: 0.9993, step time: 0.3626
Batch 237/248, train_loss: 0.5089, step time: 0.3702
Batch 238/248, train_loss: 0.7271, step time: 0.3551
Batch 239/248, train_loss: 0.1552, step time: 0.3734
Batch 240/248, train_loss: 0.9331, step time: 0.3457
Batch 241/248, train_loss: 0.9996, step time: 0.3528
Batch 242/248, train_loss: 0.9723, step time: 0.3801

```
Batch 243/248, train_loss: 0.9991, step time: 0.3698  
Batch 244/248, train_loss: 0.9929, step time: 0.3728  
Batch 245/248, train_loss: 0.6743, step time: 0.3416  
Batch 246/248, train_loss: 0.9943, step time: 0.3696  
Batch 247/248, train_loss: 0.2649, step time: 0.3577  
Batch 248/248, train_loss: 1.0000, step time: 0.3430
```

Labels



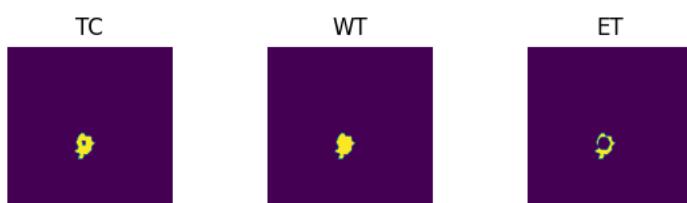
Predictions



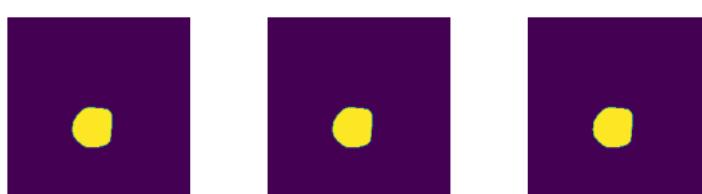
VAL

```
Batch 1/31, val_loss: 0.9075  
Batch 2/31, val_loss: 0.9999  
Batch 3/31, val_loss: 0.9941  
Batch 4/31, val_loss: 0.9853  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7480  
Batch 7/31, val_loss: 0.9301  
Batch 8/31, val_loss: 0.9909  
Batch 9/31, val_loss: 0.8054  
Batch 10/31, val_loss: 0.9866  
Batch 11/31, val_loss: 0.9485  
Batch 12/31, val_loss: 0.9809  
Batch 13/31, val_loss: 0.9949  
Batch 14/31, val_loss: 0.9823  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9979  
Batch 17/31, val_loss: 0.9992  
Batch 18/31, val_loss: 0.9818  
Batch 19/31, val_loss: 0.8724  
Batch 20/31, val_loss: 0.9542  
Batch 21/31, val_loss: 0.9823  
Batch 22/31, val_loss: 0.9966  
Batch 23/31, val_loss: 0.9981  
Batch 24/31, val_loss: 0.7741  
Batch 25/31, val_loss: 0.9105  
Batch 26/31, val_loss: 0.9868  
Batch 27/31, val_loss: 0.9994  
Batch 28/31, val_loss: 0.9143  
Batch 29/31, val_loss: 0.9998  
Batch 30/31, val_loss: 0.9984  
Batch 31/31, val_loss: 0.9977
```

Labels



Predictions



epoch 25

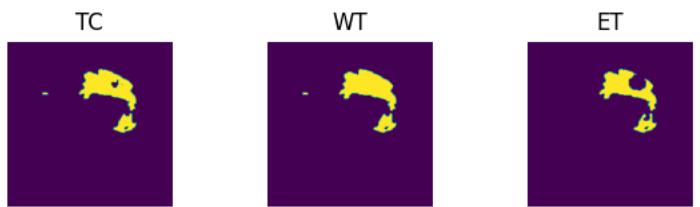
```
epoch 25
average train loss: 0.8231
average validation loss: 0.9554
saved as best model: True
current mean dice: 0.1602
current TC dice: 0.1670
current WT dice: 0.1693
current ET dice: 0.1599
Best Mean Metric: 0.1602
time consuming of epoch 25 is: 1507.3703
-----
epoch 26/100
TRAIN
Batch 1/248, train_loss: 0.4314, step time: 0.3572
Batch 2/248, train_loss: 0.9995, step time: 0.3424
Batch 3/248, train_loss: 0.9869, step time: 0.3444
Batch 4/248, train_loss: 0.9995, step time: 0.3577
Batch 5/248, train_loss: 0.9386, step time: 0.3809
Batch 6/248, train_loss: 0.9292, step time: 0.3694
Batch 7/248, train_loss: 0.2734, step time: 0.3754
Batch 8/248, train_loss: 0.8274, step time: 0.3664
Batch 9/248, train_loss: 0.4483, step time: 0.3691
Batch 10/248, train_loss: 0.9734, step time: 0.3838
Batch 11/248, train_loss: 0.9365, step time: 0.3493
Batch 12/248, train_loss: 0.9975, step time: 0.3493
Batch 13/248, train_loss: 0.9861, step time: 0.3798
Batch 14/248, train_loss: 0.1965, step time: 0.3603
Batch 15/248, train_loss: 0.9690, step time: 0.3841
Batch 16/248, train_loss: 0.9237, step time: 0.3742
Batch 17/248, train_loss: 0.9996, step time: 0.3745
Batch 18/248, train_loss: 0.9915, step time: 0.3426
Batch 19/248, train_loss: 0.4775, step time: 0.3820
Batch 20/248, train_loss: 0.9019, step time: 0.3753
Batch 21/248, train_loss: 0.7330, step time: 0.3811
Batch 22/248, train_loss: 0.9999, step time: 0.3424
Batch 23/248, train_loss: 0.9999, step time: 0.3785
Batch 24/248, train_loss: 0.7760, step time: 0.3421
Batch 25/248, train_loss: 0.2276, step time: 0.3443
Batch 26/248, train_loss: 0.9950, step time: 0.3645
Batch 27/248, train_loss: 0.4147, step time: 0.3798
Batch 28/248, train_loss: 0.9136, step time: 0.3769
Batch 29/248, train_loss: 0.9965, step time: 0.3752
Batch 30/248, train_loss: 0.9260, step time: 0.3517
Batch 31/248, train_loss: 0.9729, step time: 0.3685
Batch 32/248, train_loss: 0.7246, step time: 0.3749
Batch 33/248, train_loss: 0.3969, step time: 0.3553
Batch 34/248, train_loss: 0.5449, step time: 0.3746
Batch 35/248, train_loss: 0.7690, step time: 0.3441
Batch 36/248, train_loss: 0.9998, step time: 0.3648
Batch 37/248, train_loss: 0.8193, step time: 0.3731
Batch 38/248, train_loss: 0.9611, step time: 0.3493
Batch 39/248, train_loss: 0.8325, step time: 0.3608
Batch 40/248, train_loss: 0.9995, step time: 0.3417
Batch 41/248, train_loss: 0.6784, step time: 0.3749
Batch 42/248, train_loss: 0.6667, step time: 0.3505
Batch 43/248, train_loss: 0.4954, step time: 0.3638
Batch 44/248, train_loss: 0.8349, step time: 0.3479
Batch 45/248, train_loss: 0.9669, step time: 0.3468
Batch 46/248, train_loss: 0.8541, step time: 0.3864
Batch 47/248, train_loss: 0.9095, step time: 0.3672
Batch 48/248, train_loss: 0.8604, step time: 0.3755
Batch 49/248, train_loss: 0.9924, step time: 0.3503
Batch 50/248, train_loss: 0.9220, step time: 0.3479
Batch 51/248, train_loss: 0.9095, step time: 0.3602
Batch 52/248, train_loss: 0.8586, step time: 0.3555
Batch 53/248, train_loss: 0.9637, step time: 0.3450
Batch 54/248, train_loss: 0.9027, step time: 0.3715
Batch 55/248, train_loss: 0.9717, step time: 0.3853
Batch 56/248, train_loss: 0.9116, step time: 0.3721
Batch 57/248, train_loss: 0.9256, step time: 0.3610
Batch 58/248, train_loss: 0.6947, step time: 0.3621
Batch 59/248, train_loss: 0.7574, step time: 0.3827
Batch 60/248, train_loss: 0.6805, step time: 0.3654
Batch 61/248, train_loss: 0.7669, step time: 0.3678
Batch 62/248, train_loss: 0.9757, step time: 0.3445
Batch 63/248, train_loss: 0.9949, step time: 0.3540
Batch 64/248, train_loss: 0.9935, step time: 0.3513
Batch 65/248, train_loss: 0.9233, step time: 0.3839
Batch 66/248, train_loss: 0.9266, step time: 0.3467
Batch 67/248, train_loss: 0.3939, step time: 0.3803
Batch 68/248, train_loss: 0.6188, step time: 0.3681
Batch 69/248, train_loss: 0.9985, step time: 0.3825
Batch 70/248, train_loss: 0.7049, step time: 0.3578
Batch 71/248, train_loss: 0.5845, step time: 0.3704
Batch 72/248, train_loss: 0.6000, step time: 0.3588
-----
```

Batch 73/248, train_loss: 0.6535, step time: 0.3607
Batch 74/248, train_loss: 0.9998, step time: 0.3836
Batch 75/248, train_loss: 0.6715, step time: 0.3688
Batch 76/248, train_loss: 0.9960, step time: 0.3470
Batch 77/248, train_loss: 0.9997, step time: 0.3788
Batch 78/248, train_loss: 0.8285, step time: 0.3826
Batch 79/248, train_loss: 0.9052, step time: 0.3490
Batch 80/248, train_loss: 0.9428, step time: 0.3511
Batch 81/248, train_loss: 0.9611, step time: 0.3911
Batch 82/248, train_loss: 0.6699, step time: 0.3450
Batch 83/248, train_loss: 0.9953, step time: 0.3437
Batch 84/248, train_loss: 0.9091, step time: 0.3656
Batch 85/248, train_loss: 0.9968, step time: 0.3867
Batch 86/248, train_loss: 0.7625, step time: 0.3667
Batch 87/248, train_loss: 0.9904, step time: 0.3748
Batch 88/248, train_loss: 0.9888, step time: 0.3542
Batch 89/248, train_loss: 0.3380, step time: 0.3779
Batch 90/248, train_loss: 0.9160, step time: 0.3850
Batch 91/248, train_loss: 0.9950, step time: 0.3863
Batch 92/248, train_loss: 0.8908, step time: 0.3426
Batch 93/248, train_loss: 0.6423, step time: 0.3646
Batch 94/248, train_loss: 0.9956, step time: 0.3739
Batch 95/248, train_loss: 0.8195, step time: 0.3493
Batch 96/248, train_loss: 0.7966, step time: 0.3678
Batch 97/248, train_loss: 0.9999, step time: 0.3723
Batch 98/248, train_loss: 0.6061, step time: 0.3823
Batch 99/248, train_loss: 0.9860, step time: 0.3537
Batch 100/248, train_loss: 0.9968, step time: 0.3580
Batch 101/248, train_loss: 0.2300, step time: 0.3832
Batch 102/248, train_loss: 0.8715, step time: 0.3783
Batch 103/248, train_loss: 0.9939, step time: 0.3551
Batch 104/248, train_loss: 0.8205, step time: 0.3493
Batch 105/248, train_loss: 0.5505, step time: 0.3453
Batch 106/248, train_loss: 0.9300, step time: 0.3419
Batch 107/248, train_loss: 0.9841, step time: 0.3620
Batch 108/248, train_loss: 0.9900, step time: 0.3457
Batch 109/248, train_loss: 0.9983, step time: 0.3434
Batch 110/248, train_loss: 0.9501, step time: 0.3442
Batch 111/248, train_loss: 0.5565, step time: 0.3859
Batch 112/248, train_loss: 0.5886, step time: 0.3833
Batch 113/248, train_loss: 0.9999, step time: 0.3472
Batch 114/248, train_loss: 0.3689, step time: 0.3471
Batch 115/248, train_loss: 0.8538, step time: 0.3873
Batch 116/248, train_loss: 0.5274, step time: 0.3567
Batch 117/248, train_loss: 0.9967, step time: 0.3882
Batch 118/248, train_loss: 0.9941, step time: 0.3876
Batch 119/248, train_loss: 0.8760, step time: 0.3896
Batch 120/248, train_loss: 0.8891, step time: 0.3514
Batch 121/248, train_loss: 0.9698, step time: 0.3842
Batch 122/248, train_loss: 0.9829, step time: 0.3395
Batch 123/248, train_loss: 0.7116, step time: 0.3418
Batch 124/248, train_loss: 0.9840, step time: 0.3498
Batch 125/248, train_loss: 0.9986, step time: 0.3840
Batch 126/248, train_loss: 0.6306, step time: 0.3457
Batch 127/248, train_loss: 0.8849, step time: 0.3815
Batch 128/248, train_loss: 0.9466, step time: 0.3562
Batch 129/248, train_loss: 0.3920, step time: 0.3444
Batch 130/248, train_loss: 0.4250, step time: 0.3444
Batch 131/248, train_loss: 0.9813, step time: 0.3431
Batch 132/248, train_loss: 0.9848, step time: 0.3453
Batch 133/248, train_loss: 0.2627, step time: 0.3440
Batch 134/248, train_loss: 1.0000, step time: 0.3556
Batch 135/248, train_loss: 0.9906, step time: 0.3859
Batch 136/248, train_loss: 0.9344, step time: 0.3495
Batch 137/248, train_loss: 0.4422, step time: 0.3715
Batch 138/248, train_loss: 0.5246, step time: 0.3628
Batch 139/248, train_loss: 0.6018, step time: 0.3465
Batch 140/248, train_loss: 0.9267, step time: 0.3410
Batch 141/248, train_loss: 0.6967, step time: 0.3486
Batch 142/248, train_loss: 0.9968, step time: 0.3848
Batch 143/248, train_loss: 0.9350, step time: 0.3613
Batch 144/248, train_loss: 0.5511, step time: 0.3529
Batch 145/248, train_loss: 0.2221, step time: 0.3437
Batch 146/248, train_loss: 0.9995, step time: 0.3734
Batch 147/248, train_loss: 0.1900, step time: 0.3743
Batch 148/248, train_loss: 0.9884, step time: 0.3668
Batch 149/248, train_loss: 0.8481, step time: 0.3700
Batch 150/248, train_loss: 0.7132, step time: 0.3866
Batch 151/248, train_loss: 0.9804, step time: 0.3472
Batch 152/248, train_loss: 0.2047, step time: 0.3692
Batch 153/248, train_loss: 0.9757, step time: 0.3436
Batch 154/248, train_loss: 0.9946, step time: 0.3684
Batch 155/248, train_loss: 0.8603, step time: 0.3567
Batch 156/248, train_loss: 0.8689, step time: 0.3486
Batch 157/248, train_loss: 0.5774, step time: 0.3426

Batch 158/248, train_loss: 0.9997, step time: 0.3699
Batch 159/248, train_loss: 0.9995, step time: 0.3509
Batch 160/248, train_loss: 0.6934, step time: 0.3454
Batch 161/248, train_loss: 0.8678, step time: 0.3774
Batch 162/248, train_loss: 0.2200, step time: 0.3741
Batch 163/248, train_loss: 0.9873, step time: 0.3726
Batch 164/248, train_loss: 0.8816, step time: 0.3715
Batch 165/248, train_loss: 0.9995, step time: 0.3815
Batch 166/248, train_loss: 0.9707, step time: 0.3855
Batch 167/248, train_loss: 0.8814, step time: 0.3847
Batch 168/248, train_loss: 0.8712, step time: 0.3613
Batch 169/248, train_loss: 0.7181, step time: 0.3753
Batch 170/248, train_loss: 0.9927, step time: 0.3715
Batch 171/248, train_loss: 0.3225, step time: 0.3805
Batch 172/248, train_loss: 0.9997, step time: 0.3528
Batch 173/248, train_loss: 0.5516, step time: 0.3766
Batch 174/248, train_loss: 0.9939, step time: 0.3790
Batch 175/248, train_loss: 0.3757, step time: 0.3452
Batch 176/248, train_loss: 0.9265, step time: 0.3501
Batch 177/248, train_loss: 0.9984, step time: 0.3658
Batch 178/248, train_loss: 0.7007, step time: 0.3643
Batch 179/248, train_loss: 0.2023, step time: 0.3880
Batch 180/248, train_loss: 0.8689, step time: 0.3820
Batch 181/248, train_loss: 0.4590, step time: 0.3762
Batch 182/248, train_loss: 0.9763, step time: 0.3527
Batch 183/248, train_loss: 0.8652, step time: 0.3815
Batch 184/248, train_loss: 0.9737, step time: 0.3618
Batch 185/248, train_loss: 0.8693, step time: 0.3900
Batch 186/248, train_loss: 0.7293, step time: 0.3828
Batch 187/248, train_loss: 0.7349, step time: 0.3567
Batch 188/248, train_loss: 0.8732, step time: 0.3489
Batch 189/248, train_loss: 0.9996, step time: 0.3659
Batch 190/248, train_loss: 0.7658, step time: 0.3590
Batch 191/248, train_loss: 0.9986, step time: 0.3803
Batch 192/248, train_loss: 0.7226, step time: 0.3864
Batch 193/248, train_loss: 0.9347, step time: 0.3598
Batch 194/248, train_loss: 0.9238, step time: 0.3461
Batch 195/248, train_loss: 0.9996, step time: 0.3610
Batch 196/248, train_loss: 1.0000, step time: 0.3439
Batch 197/248, train_loss: 0.9590, step time: 0.3826
Batch 198/248, train_loss: 1.0000, step time: 0.3475
Batch 199/248, train_loss: 0.8893, step time: 0.3440
Batch 200/248, train_loss: 0.8553, step time: 0.3456
Batch 201/248, train_loss: 0.7069, step time: 0.3662
Batch 202/248, train_loss: 0.9313, step time: 0.3545
Batch 203/248, train_loss: 0.9954, step time: 0.3633
Batch 204/248, train_loss: 0.4220, step time: 0.3484
Batch 205/248, train_loss: 0.9709, step time: 0.3855
Batch 206/248, train_loss: 0.9982, step time: 0.3479
Batch 207/248, train_loss: 0.6581, step time: 0.3453
Batch 208/248, train_loss: 0.8663, step time: 0.3744
Batch 209/248, train_loss: 0.8032, step time: 0.3553
Batch 210/248, train_loss: 0.6394, step time: 0.3638
Batch 211/248, train_loss: 0.6310, step time: 0.3557
Batch 212/248, train_loss: 0.9470, step time: 0.3630
Batch 213/248, train_loss: 0.9324, step time: 0.3549
Batch 214/248, train_loss: 0.7694, step time: 0.3420
Batch 215/248, train_loss: 0.9566, step time: 0.3808
Batch 216/248, train_loss: 0.6796, step time: 0.3531
Batch 217/248, train_loss: 0.9786, step time: 0.3839
Batch 218/248, train_loss: 0.9989, step time: 0.3663
Batch 219/248, train_loss: 0.7680, step time: 0.3429
Batch 220/248, train_loss: 0.9595, step time: 0.3750
Batch 221/248, train_loss: 0.9490, step time: 0.3855
Batch 222/248, train_loss: 0.6869, step time: 0.3759
Batch 223/248, train_loss: 0.4327, step time: 0.3490
Batch 224/248, train_loss: 0.6032, step time: 0.3610
Batch 225/248, train_loss: 0.9957, step time: 0.3582
Batch 226/248, train_loss: 0.9759, step time: 0.3608
Batch 227/248, train_loss: 0.7681, step time: 0.3444
Batch 228/248, train_loss: 0.9496, step time: 0.3679
Batch 229/248, train_loss: 0.4101, step time: 0.3726
Batch 230/248, train_loss: 0.7717, step time: 0.3469
Batch 231/248, train_loss: 0.9995, step time: 0.3570
Batch 232/248, train_loss: 0.7616, step time: 0.3843
Batch 233/248, train_loss: 0.9999, step time: 0.3469
Batch 234/248, train_loss: 0.9963, step time: 0.3716
Batch 235/248, train_loss: 0.9955, step time: 0.3441
Batch 236/248, train_loss: 0.9995, step time: 0.3693
Batch 237/248, train_loss: 0.4795, step time: 0.3794
Batch 238/248, train_loss: 0.7069, step time: 0.4214
Batch 239/248, train_loss: 0.1515, step time: 0.3518
Batch 240/248, train_loss: 0.9252, step time: 0.3424
Batch 241/248, train_loss: 0.9999, step time: 0.3731
Batch 242/248, train_loss: 0.9743, step time: 0.3725

```
Batch 243/248, train_loss: 0.9990, step time: 0.3795  
Batch 244/248, train_loss: 0.9933, step time: 0.3511  
Batch 245/248, train_loss: 0.6502, step time: 0.3523  
Batch 246/248, train_loss: 0.9956, step time: 0.3721  
Batch 247/248, train_loss: 0.2429, step time: 0.3792  
Batch 248/248, train_loss: 1.0000, step time: 0.3714
```

Labels



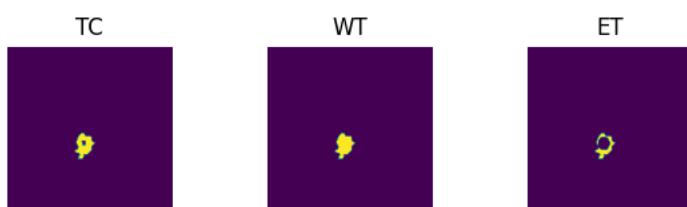
Predictions



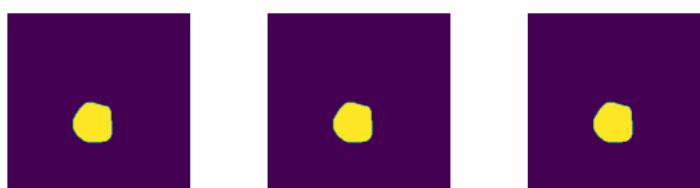
VAL

```
Batch 1/31, val_loss: 0.9032  
Batch 2/31, val_loss: 0.9999  
Batch 3/31, val_loss: 0.9910  
Batch 4/31, val_loss: 0.9848  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7470  
Batch 7/31, val_loss: 0.9322  
Batch 8/31, val_loss: 0.9918  
Batch 9/31, val_loss: 0.7982  
Batch 10/31, val_loss: 0.9861  
Batch 11/31, val_loss: 0.9444  
Batch 12/31, val_loss: 0.9813  
Batch 13/31, val_loss: 0.9941  
Batch 14/31, val_loss: 0.9822  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9977  
Batch 17/31, val_loss: 0.9992  
Batch 18/31, val_loss: 0.9801  
Batch 19/31, val_loss: 0.8674  
Batch 20/31, val_loss: 0.9540  
Batch 21/31, val_loss: 0.9804  
Batch 22/31, val_loss: 0.9967  
Batch 23/31, val_loss: 0.9977  
Batch 24/31, val_loss: 0.7748  
Batch 25/31, val_loss: 0.9065  
Batch 26/31, val_loss: 0.9863  
Batch 27/31, val_loss: 0.9995  
Batch 28/31, val_loss: 0.9080  
Batch 29/31, val_loss: 0.9997  
Batch 30/31, val_loss: 0.9983  
Batch 31/31, val_loss: 0.9976
```

Labels



Predictions



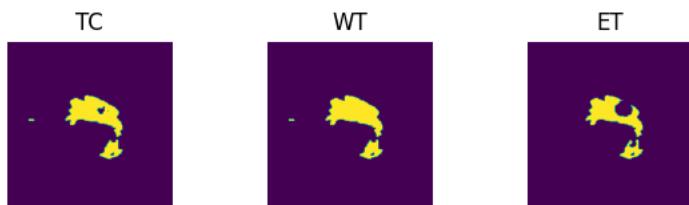
```
epoch 26
    average train loss: 0.8121
    average validation loss: 0.9542
    saved as best model: True
    current mean dice: 0.1662
    current TC dice: 0.1732
    current WT dice: 0.1757
    current ET dice: 0.1657
Best Mean Metric: 0.1662
time consuming of epoch 26 is: 1500.0094
-----
epoch 27/100
TRAIN
    Batch 1/248, train_loss: 0.4020, step time: 0.3865
    Batch 2/248, train_loss: 0.9999, step time: 0.3876
    Batch 3/248, train_loss: 0.9863, step time: 0.3735
    Batch 4/248, train_loss: 0.9994, step time: 0.3879
    Batch 5/248, train_loss: 0.9364, step time: 0.3802
    Batch 6/248, train_loss: 0.9239, step time: 0.3723
    Batch 7/248, train_loss: 0.2473, step time: 0.3704
    Batch 8/248, train_loss: 0.8237, step time: 0.3678
    Batch 9/248, train_loss: 0.4194, step time: 0.3548
    Batch 10/248, train_loss: 0.9704, step time: 0.3658
    Batch 11/248, train_loss: 0.9309, step time: 0.3721
    Batch 12/248, train_loss: 0.9969, step time: 0.3424
    Batch 13/248, train_loss: 0.9839, step time: 0.4189
    Batch 14/248, train_loss: 0.1770, step time: 0.3739
    Batch 15/248, train_loss: 0.9658, step time: 0.3873
    Batch 16/248, train_loss: 0.9164, step time: 0.3634
    Batch 17/248, train_loss: 0.9985, step time: 0.3579
    Batch 18/248, train_loss: 0.9899, step time: 0.3696
    Batch 19/248, train_loss: 0.4600, step time: 0.3714
    Batch 20/248, train_loss: 0.8950, step time: 0.3704
    Batch 21/248, train_loss: 0.7143, step time: 0.3806
    Batch 22/248, train_loss: 0.9999, step time: 0.3457
    Batch 23/248, train_loss: 0.9999, step time: 0.3681
    Batch 24/248, train_loss: 0.7635, step time: 0.3786
    Batch 25/248, train_loss: 0.1989, step time: 0.3854
    Batch 26/248, train_loss: 0.9930, step time: 0.3429
    Batch 27/248, train_loss: 0.3850, step time: 0.3562
    Batch 28/248, train_loss: 0.9072, step time: 0.3468
    Batch 29/248, train_loss: 0.9962, step time: 0.3906
    Batch 30/248, train_loss: 0.9175, step time: 0.3434
    Batch 31/248, train_loss: 0.9683, step time: 0.3731
    Batch 32/248, train_loss: 0.7060, step time: 0.3513
    Batch 33/248, train_loss: 0.3751, step time: 0.3466
    Batch 34/248, train_loss: 0.5153, step time: 0.3582
    Batch 35/248, train_loss: 0.7517, step time: 0.3589
    Batch 36/248, train_loss: 0.9998, step time: 0.3486
    Batch 37/248, train_loss: 0.7985, step time: 0.3477
    Batch 38/248, train_loss: 0.9579, step time: 0.3512
    Batch 39/248, train_loss: 0.8285, step time: 0.3426
    Batch 40/248, train_loss: 0.9995, step time: 0.3586
    Batch 41/248, train_loss: 0.6606, step time: 0.3771
    Batch 42/248, train_loss: 0.6444, step time: 0.3654
    Batch 43/248, train_loss: 0.4692, step time: 0.3466
    Batch 44/248, train_loss: 0.8180, step time: 0.3776
    Batch 45/248, train_loss: 0.9722, step time: 0.3845
    Batch 46/248, train_loss: 0.8425, step time: 0.3607
    Batch 47/248, train_loss: 0.9075, step time: 0.3664
    Batch 48/248, train_loss: 0.8501, step time: 0.3838
    Batch 49/248, train_loss: 0.9912, step time: 0.3729
    Batch 50/248, train_loss: 0.9155, step time: 0.3543
    Batch 51/248, train_loss: 0.9014, step time: 0.3799
    Batch 52/248, train_loss: 0.8523, step time: 0.3453
    Batch 53/248, train_loss: 0.9613, step time: 0.3556
    Batch 54/248, train_loss: 0.8943, step time: 0.3859
    Batch 55/248, train_loss: 0.9680, step time: 0.3854
    Batch 56/248, train_loss: 0.9093, step time: 0.3754
    Batch 57/248, train_loss: 0.9190, step time: 0.3823
    Batch 58/248, train_loss: 0.6797, step time: 0.3656
    Batch 59/248, train_loss: 0.7406, step time: 0.3569
    Batch 60/248, train_loss: 0.6628, step time: 0.3713
    Batch 61/248, train_loss: 0.7514, step time: 0.3511
    Batch 62/248, train_loss: 0.9734, step time: 0.3408
    Batch 63/248, train_loss: 0.9954, step time: 0.3590
    Batch 64/248, train_loss: 0.9933, step time: 0.3603
    Batch 65/248, train_loss: 0.9207, step time: 0.3510
    Batch 66/248, train_loss: 0.9271, step time: 0.3850
    Batch 67/248, train_loss: 0.3810, step time: 0.3493
    Batch 68/248, train_loss: 0.6075, step time: 0.3600
    Batch 69/248, train_loss: 0.9990, step time: 0.3794
    Batch 70/248, train_loss: 0.6822, step time: 0.3461
    Batch 71/248, train_loss: 0.6038, step time: 0.3435
    Batch 72/248, train_loss: 0.5756, step time: 0.3456
```

Batch 73/248, train_loss: 0.6364, step time: 0.3683
Batch 74/248, train_loss: 0.9997, step time: 0.3849
Batch 75/248, train_loss: 0.6607, step time: 0.3812
Batch 76/248, train_loss: 0.9959, step time: 0.3624
Batch 77/248, train_loss: 0.9996, step time: 0.3748
Batch 78/248, train_loss: 0.8190, step time: 0.3436
Batch 79/248, train_loss: 0.8968, step time: 0.3447
Batch 80/248, train_loss: 0.9387, step time: 0.3769
Batch 81/248, train_loss: 0.9593, step time: 0.3448
Batch 82/248, train_loss: 0.6508, step time: 0.3863
Batch 83/248, train_loss: 0.9943, step time: 0.3608
Batch 84/248, train_loss: 0.9029, step time: 0.3804
Batch 85/248, train_loss: 0.9979, step time: 0.3735
Batch 86/248, train_loss: 0.7675, step time: 0.3462
Batch 87/248, train_loss: 0.9886, step time: 0.3541
Batch 88/248, train_loss: 0.9864, step time: 0.3665
Batch 89/248, train_loss: 0.3063, step time: 0.3831
Batch 90/248, train_loss: 0.9073, step time: 0.3763
Batch 91/248, train_loss: 0.9952, step time: 0.3738
Batch 92/248, train_loss: 0.8845, step time: 0.3702
Batch 93/248, train_loss: 0.6122, step time: 0.3463
Batch 94/248, train_loss: 0.9950, step time: 0.3734
Batch 95/248, train_loss: 0.8079, step time: 0.3550
Batch 96/248, train_loss: 0.7759, step time: 0.3465
Batch 97/248, train_loss: 0.9999, step time: 0.3774
Batch 98/248, train_loss: 0.5661, step time: 0.3483
Batch 99/248, train_loss: 0.9875, step time: 0.3642
Batch 100/248, train_loss: 0.9971, step time: 0.3415
Batch 101/248, train_loss: 0.2025, step time: 0.3488
Batch 102/248, train_loss: 0.8591, step time: 0.3464
Batch 103/248, train_loss: 0.9935, step time: 0.3614
Batch 104/248, train_loss: 0.8049, step time: 0.3694
Batch 105/248, train_loss: 0.5202, step time: 0.3798
Batch 106/248, train_loss: 0.9228, step time: 0.3467
Batch 107/248, train_loss: 0.9832, step time: 0.3582
Batch 108/248, train_loss: 0.9913, step time: 0.3807
Batch 109/248, train_loss: 0.9993, step time: 0.3705
Batch 110/248, train_loss: 0.9525, step time: 0.3789
Batch 111/248, train_loss: 0.5287, step time: 0.3451
Batch 112/248, train_loss: 0.5776, step time: 0.3562
Batch 113/248, train_loss: 0.9999, step time: 0.3717
Batch 114/248, train_loss: 0.3476, step time: 0.3718
Batch 115/248, train_loss: 0.8446, step time: 0.3460
Batch 116/248, train_loss: 0.5017, step time: 0.3517
Batch 117/248, train_loss: 0.9962, step time: 0.3696
Batch 118/248, train_loss: 0.9979, step time: 0.3428
Batch 119/248, train_loss: 0.8750, step time: 0.3686
Batch 120/248, train_loss: 0.8850, step time: 0.3883
Batch 121/248, train_loss: 0.9688, step time: 0.3768
Batch 122/248, train_loss: 0.9822, step time: 0.3495
Batch 123/248, train_loss: 0.6853, step time: 0.3737
Batch 124/248, train_loss: 0.9824, step time: 0.3406
Batch 125/248, train_loss: 0.9985, step time: 0.3744
Batch 126/248, train_loss: 0.6022, step time: 0.3501
Batch 127/248, train_loss: 0.8768, step time: 0.3701
Batch 128/248, train_loss: 0.9438, step time: 0.3751
Batch 129/248, train_loss: 0.3663, step time: 0.3612
Batch 130/248, train_loss: 0.3874, step time: 0.3699
Batch 131/248, train_loss: 0.9788, step time: 0.3537
Batch 132/248, train_loss: 0.9835, step time: 0.3668
Batch 133/248, train_loss: 0.2666, step time: 0.3787
Batch 134/248, train_loss: 1.0000, step time: 0.3805
Batch 135/248, train_loss: 0.9916, step time: 0.3534
Batch 136/248, train_loss: 0.9303, step time: 0.3865
Batch 137/248, train_loss: 0.4235, step time: 0.3857
Batch 138/248, train_loss: 0.4964, step time: 0.3573
Batch 139/248, train_loss: 0.5737, step time: 0.3443
Batch 140/248, train_loss: 0.9223, step time: 0.3476
Batch 141/248, train_loss: 0.6777, step time: 0.3629
Batch 142/248, train_loss: 0.9960, step time: 0.3767
Batch 143/248, train_loss: 0.9315, step time: 0.3742
Batch 144/248, train_loss: 0.4948, step time: 0.3409
Batch 145/248, train_loss: 0.2033, step time: 0.3830
Batch 146/248, train_loss: 0.9995, step time: 0.3834
Batch 147/248, train_loss: 0.1683, step time: 0.3687
Batch 148/248, train_loss: 0.9889, step time: 0.3435
Batch 149/248, train_loss: 0.8366, step time: 0.3548
Batch 150/248, train_loss: 0.7074, step time: 0.3614
Batch 151/248, train_loss: 0.9802, step time: 0.3412
Batch 152/248, train_loss: 0.1924, step time: 0.3478
Batch 153/248, train_loss: 0.9767, step time: 0.3403
Batch 154/248, train_loss: 0.9942, step time: 0.3712
Batch 155/248, train_loss: 0.8504, step time: 0.3725
Batch 156/248, train_loss: 0.8546, step time: 0.3832
Batch 157/248, train_loss: 0.5540, step time: 0.3782

Batch 127/248, train_loss: 0.9999, step time: 0.3572
Batch 158/248, train_loss: 0.9998, step time: 0.3572
Batch 159/248, train_loss: 0.9983, step time: 0.3674
Batch 160/248, train_loss: 0.6742, step time: 0.3444
Batch 161/248, train_loss: 0.8477, step time: 0.3711
Batch 162/248, train_loss: 0.1985, step time: 0.3701
Batch 163/248, train_loss: 0.9868, step time: 0.3685
Batch 164/248, train_loss: 0.8699, step time: 0.3512
Batch 165/248, train_loss: 0.9982, step time: 0.3776
Batch 166/248, train_loss: 0.9684, step time: 0.3549
Batch 167/248, train_loss: 0.8751, step time: 0.3720
Batch 168/248, train_loss: 0.8610, step time: 0.3691
Batch 169/248, train_loss: 0.7010, step time: 0.3691
Batch 170/248, train_loss: 0.9938, step time: 0.3813
Batch 171/248, train_loss: 0.2794, step time: 0.3547
Batch 172/248, train_loss: 0.9995, step time: 0.3527
Batch 173/248, train_loss: 0.5226, step time: 0.3502
Batch 174/248, train_loss: 0.9924, step time: 0.3595
Batch 175/248, train_loss: 0.3404, step time: 0.3873
Batch 176/248, train_loss: 0.9213, step time: 0.3575
Batch 177/248, train_loss: 0.9994, step time: 0.3599
Batch 178/248, train_loss: 0.6866, step time: 0.3565
Batch 179/248, train_loss: 0.1849, step time: 0.3814
Batch 180/248, train_loss: 0.8614, step time: 0.3517
Batch 181/248, train_loss: 0.4359, step time: 0.3707
Batch 182/248, train_loss: 0.9760, step time: 0.3802
Batch 183/248, train_loss: 0.8585, step time: 0.3615
Batch 184/248, train_loss: 0.9710, step time: 0.3416
Batch 185/248, train_loss: 0.8565, step time: 0.3486
Batch 186/248, train_loss: 0.7074, step time: 0.3859
Batch 187/248, train_loss: 0.7134, step time: 0.3584
Batch 188/248, train_loss: 0.8678, step time: 0.3784
Batch 189/248, train_loss: 0.9998, step time: 0.3584
Batch 190/248, train_loss: 0.7461, step time: 0.3528
Batch 191/248, train_loss: 0.9981, step time: 0.3655
Batch 192/248, train_loss: 0.7058, step time: 0.3552
Batch 193/248, train_loss: 0.9281, step time: 0.3420
Batch 194/248, train_loss: 0.9162, step time: 0.3523
Batch 195/248, train_loss: 0.9999, step time: 0.3802
Batch 196/248, train_loss: 1.0000, step time: 0.3779
Batch 197/248, train_loss: 0.9562, step time: 0.3536
Batch 198/248, train_loss: 1.0000, step time: 0.3672
Batch 199/248, train_loss: 0.8786, step time: 0.3688
Batch 200/248, train_loss: 0.8474, step time: 0.3627
Batch 201/248, train_loss: 0.6876, step time: 0.3828
Batch 202/248, train_loss: 0.9250, step time: 0.3498
Batch 203/248, train_loss: 0.9946, step time: 0.3581
Batch 204/248, train_loss: 0.3906, step time: 0.3455
Batch 205/248, train_loss: 0.9715, step time: 0.3648
Batch 206/248, train_loss: 0.9981, step time: 0.3438
Batch 207/248, train_loss: 0.6242, step time: 0.3430
Batch 208/248, train_loss: 0.8538, step time: 0.3412
Batch 209/248, train_loss: 0.7901, step time: 0.3833
Batch 210/248, train_loss: 0.6156, step time: 0.3670
Batch 211/248, train_loss: 0.6082, step time: 0.3415
Batch 212/248, train_loss: 0.9485, step time: 0.3672
Batch 213/248, train_loss: 0.9289, step time: 0.3582
Batch 214/248, train_loss: 0.7527, step time: 0.3818
Batch 215/248, train_loss: 0.9539, step time: 0.3551
Batch 216/248, train_loss: 0.6639, step time: 0.3739
Batch 217/248, train_loss: 0.9772, step time: 0.3449
Batch 218/248, train_loss: 0.9990, step time: 0.3459
Batch 219/248, train_loss: 0.7524, step time: 0.3841
Batch 220/248, train_loss: 0.9542, step time: 0.3498
Batch 221/248, train_loss: 0.9510, step time: 0.3782
Batch 222/248, train_loss: 0.6801, step time: 0.3449
Batch 223/248, train_loss: 0.4027, step time: 0.3719
Batch 224/248, train_loss: 0.5791, step time: 0.3455
Batch 225/248, train_loss: 0.9956, step time: 0.3678
Batch 226/248, train_loss: 0.9742, step time: 0.3446
Batch 227/248, train_loss: 0.7525, step time: 0.3836
Batch 228/248, train_loss: 0.9461, step time: 0.3452
Batch 229/248, train_loss: 0.3741, step time: 0.3488
Batch 230/248, train_loss: 0.7576, step time: 0.3693
Batch 231/248, train_loss: 0.9950, step time: 0.3553
Batch 232/248, train_loss: 0.7450, step time: 0.3412
Batch 233/248, train_loss: 0.9999, step time: 0.3632
Batch 234/248, train_loss: 0.9949, step time: 0.3437
Batch 235/248, train_loss: 0.9932, step time: 0.3818
Batch 236/248, train_loss: 0.9992, step time: 0.3764
Batch 237/248, train_loss: 0.4649, step time: 0.3438
Batch 238/248, train_loss: 0.6956, step time: 0.3723
Batch 239/248, train_loss: 0.1747, step time: 0.3734
Batch 240/248, train_loss: 0.9197, step time: 0.3450
Batch 241/248, train_loss: 0.9999, step time: 0.3604

```
Batch 242/248, train_loss: 0.9721, step time: 0.3497  
Batch 243/248, train_loss: 0.9990, step time: 0.3525  
Batch 244/248, train_loss: 0.9931, step time: 0.3676  
Batch 245/248, train_loss: 0.6753, step time: 0.3451  
Batch 246/248, train_loss: 0.9956, step time: 0.3745  
Batch 247/248, train_loss: 0.2637, step time: 0.3797  
Batch 248/248, train_loss: 1.0000, step time: 0.3806
```

Labels



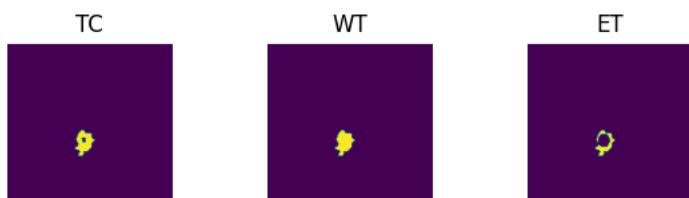
Predictions



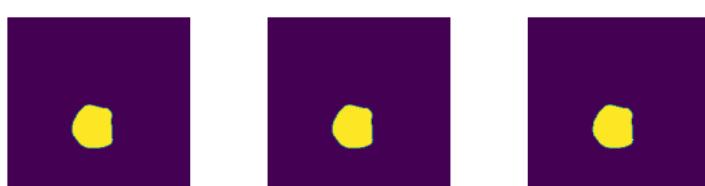
VAL

```
Batch 1/31, val_loss: 0.9024  
Batch 2/31, val_loss: 1.0000  
Batch 3/31, val_loss: 0.9916  
Batch 4/31, val_loss: 0.9820  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7496  
Batch 7/31, val_loss: 0.9356  
Batch 8/31, val_loss: 0.9886  
Batch 9/31, val_loss: 0.8079  
Batch 10/31, val_loss: 0.9880  
Batch 11/31, val_loss: 0.9457  
Batch 12/31, val_loss: 0.9778  
Batch 13/31, val_loss: 0.9941  
Batch 14/31, val_loss: 0.9793  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9978  
Batch 17/31, val_loss: 0.9992  
Batch 18/31, val_loss: 0.9792  
Batch 19/31, val_loss: 0.8637  
Batch 20/31, val_loss: 0.9551  
Batch 21/31, val_loss: 0.9821  
Batch 22/31, val_loss: 0.9969  
Batch 23/31, val_loss: 0.9983  
Batch 24/31, val_loss: 0.7772  
Batch 25/31, val_loss: 0.9073  
Batch 26/31, val_loss: 0.9865  
Batch 27/31, val_loss: 0.9995  
Batch 28/31, val_loss: 0.9130  
Batch 29/31, val_loss: 0.9998  
Batch 30/31, val_loss: 0.9983  
Batch 31/31, val_loss: 0.9976
```

Labels



Predictions



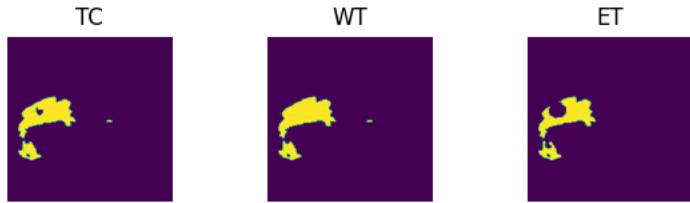
```
epoch 27
average train loss: 0.8031
average validation loss: 0.9546
saved as best model: False
current mean dice: 0.1547
current TC dice: 0.1612
current WT dice: 0.1636
current ET dice: 0.1541
Best Mean Metric: 0.1662
time consuming of epoch 27 is: 1434.8329
-----
epoch 28/100
TRAIN
Batch 1/248, train_loss: 0.4137, step time: 0.3832
Batch 2/248, train_loss: 0.9995, step time: 0.3440
Batch 3/248, train_loss: 0.9864, step time: 0.3851
Batch 4/248, train_loss: 0.9995, step time: 0.3465
Batch 5/248, train_loss: 0.9307, step time: 0.3688
Batch 6/248, train_loss: 0.9175, step time: 0.3796
Batch 7/248, train_loss: 0.2478, step time: 0.3649
Batch 8/248, train_loss: 0.8230, step time: 0.3456
Batch 9/248, train_loss: 0.3889, step time: 0.3776
Batch 10/248, train_loss: 0.9701, step time: 0.3529
Batch 11/248, train_loss: 0.9268, step time: 0.3530
Batch 12/248, train_loss: 0.9976, step time: 0.3556
Batch 13/248, train_loss: 0.9868, step time: 0.3494
Batch 14/248, train_loss: 0.1642, step time: 0.3439
Batch 15/248, train_loss: 0.9657, step time: 0.3410
Batch 16/248, train_loss: 0.9136, step time: 0.3460
Batch 17/248, train_loss: 0.9969, step time: 0.3416
Batch 18/248, train_loss: 0.9913, step time: 0.3642
Batch 19/248, train_loss: 0.4332, step time: 0.3562
Batch 20/248, train_loss: 0.8903, step time: 0.3481
Batch 21/248, train_loss: 0.6976, step time: 0.3469
Batch 22/248, train_loss: 0.9999, step time: 0.3793
Batch 23/248, train_loss: 0.9999, step time: 0.3692
Batch 24/248, train_loss: 0.7446, step time: 0.3530
Batch 25/248, train_loss: 0.1964, step time: 0.3739
Batch 26/248, train_loss: 0.9937, step time: 0.3445
Batch 27/248, train_loss: 0.3642, step time: 0.3441
Batch 28/248, train_loss: 0.8971, step time: 0.3844
Batch 29/248, train_loss: 0.9959, step time: 0.3425
Batch 30/248, train_loss: 0.9143, step time: 0.3419
Batch 31/248, train_loss: 0.9692, step time: 0.3806
Batch 32/248, train_loss: 0.6913, step time: 0.3576
Batch 33/248, train_loss: 0.3533, step time: 0.3678
Batch 34/248, train_loss: 0.4903, step time: 0.3596
Batch 35/248, train_loss: 0.7378, step time: 0.3816
Batch 36/248, train_loss: 0.9998, step time: 0.3537
Batch 37/248, train_loss: 0.7907, step time: 0.3411
Batch 38/248, train_loss: 0.9569, step time: 0.3547
Batch 39/248, train_loss: 0.8170, step time: 0.3669
Batch 40/248, train_loss: 0.9995, step time: 0.3685
Batch 41/248, train_loss: 0.6436, step time: 0.3845
Batch 42/248, train_loss: 0.6291, step time: 0.3789
Batch 43/248, train_loss: 0.4372, step time: 0.3490
Batch 44/248, train_loss: 0.8812, step time: 0.3799
Batch 45/248, train_loss: 0.9701, step time: 0.3660
Batch 46/248, train_loss: 0.8328, step time: 0.3520
Batch 47/248, train_loss: 0.8946, step time: 0.3478
Batch 48/248, train_loss: 0.8361, step time: 0.3469
Batch 49/248, train_loss: 0.9900, step time: 0.3621
Batch 50/248, train_loss: 0.9103, step time: 0.3784
Batch 51/248, train_loss: 0.8954, step time: 0.3578
Batch 52/248, train_loss: 0.8384, step time: 0.3675
Batch 53/248, train_loss: 0.9585, step time: 0.3455
Batch 54/248, train_loss: 0.8930, step time: 0.3732
Batch 55/248, train_loss: 0.9663, step time: 0.3418
Batch 56/248, train_loss: 0.9085, step time: 0.3564
Batch 57/248, train_loss: 0.9140, step time: 0.3545
Batch 58/248, train_loss: 0.6557, step time: 0.3483
Batch 59/248, train_loss: 0.7256, step time: 0.3813
Batch 60/248, train_loss: 0.6422, step time: 0.3750
Batch 61/248, train_loss: 0.7360, step time: 0.3552
Batch 62/248, train_loss: 0.9716, step time: 0.3878
Batch 63/248, train_loss: 0.9952, step time: 0.3781
Batch 64/248, train_loss: 0.9927, step time: 0.3805
Batch 65/248, train_loss: 0.9060, step time: 0.3420
Batch 66/248, train_loss: 0.9170, step time: 0.3504
Batch 67/248, train_loss: 0.3517, step time: 0.3812
Batch 68/248, train_loss: 0.5793, step time: 0.3413
Batch 69/248, train_loss: 0.9982, step time: 0.3803
Batch 70/248, train_loss: 0.6622, step time: 0.3857
Batch 71/248, train_loss: 0.5479, step time: 0.3798
Batch 72/248, train_loss: 0.5510, step time: 0.3762
```

Batch 1/248, train_loss: 0.9910, step time: 0.3702
Batch 2/248, train_loss: 0.9997, step time: 0.3572
Batch 3/248, train_loss: 0.6315, step time: 0.3676
Batch 4/248, train_loss: 0.9954, step time: 0.3851
Batch 5/248, train_loss: 0.9997, step time: 0.3621
Batch 6/248, train_loss: 0.8040, step time: 0.3788
Batch 7/248, train_loss: 0.8868, step time: 0.3715
Batch 8/248, train_loss: 0.9370, step time: 0.3574
Batch 9/248, train_loss: 0.9555, step time: 0.3597
Batch 10/248, train_loss: 0.6286, step time: 0.3452
Batch 11/248, train_loss: 0.9951, step time: 0.3462
Batch 12/248, train_loss: 0.8950, step time: 0.3801
Batch 13/248, train_loss: 0.9987, step time: 0.3739
Batch 14/248, train_loss: 0.7616, step time: 0.3819
Batch 15/248, train_loss: 0.9873, step time: 0.3521
Batch 16/248, train_loss: 0.9850, step time: 0.3421
Batch 17/248, train_loss: 0.2868, step time: 0.3710
Batch 18/248, train_loss: 0.9030, step time: 0.3432
Batch 19/248, train_loss: 0.9944, step time: 0.3491
Batch 20/248, train_loss: 0.8674, step time: 0.3476
Batch 21/248, train_loss: 0.5940, step time: 0.3440
Batch 22/248, train_loss: 0.9952, step time: 0.3616
Batch 23/248, train_loss: 0.7946, step time: 0.3407
Batch 24/248, train_loss: 0.7574, step time: 0.3692
Batch 25/248, train_loss: 0.9999, step time: 0.3573
Batch 26/248, train_loss: 0.5382, step time: 0.3650
Batch 27/248, train_loss: 0.9844, step time: 0.3483
Batch 28/248, train_loss: 0.9963, step time: 0.3514
Batch 29/248, train_loss: 0.1875, step time: 0.3600
Batch 30/248, train_loss: 0.8487, step time: 0.3522
Batch 31/248, train_loss: 0.9928, step time: 0.3408
Batch 32/248, train_loss: 0.7933, step time: 0.3701
Batch 33/248, train_loss: 0.5009, step time: 0.3448
Batch 34/248, train_loss: 0.9173, step time: 0.3537
Batch 35/248, train_loss: 0.9828, step time: 0.3578
Batch 36/248, train_loss: 0.9895, step time: 0.3856
Batch 37/248, train_loss: 0.9987, step time: 0.3634
Batch 38/248, train_loss: 0.9593, step time: 0.3591
Batch 39/248, train_loss: 0.5124, step time: 0.3832
Batch 40/248, train_loss: 0.5356, step time: 0.3842
Batch 41/248, train_loss: 0.9999, step time: 0.3474
Batch 42/248, train_loss: 0.3392, step time: 0.3531
Batch 43/248, train_loss: 0.8373, step time: 0.3591
Batch 44/248, train_loss: 0.4779, step time: 0.3618
Batch 45/248, train_loss: 0.9962, step time: 0.3433
Batch 46/248, train_loss: 0.9872, step time: 0.3554
Batch 47/248, train_loss: 0.8647, step time: 0.3612
Batch 48/248, train_loss: 0.8711, step time: 0.3598
Batch 49/248, train_loss: 0.9659, step time: 0.3484
Batch 50/248, train_loss: 0.9777, step time: 0.3703
Batch 51/248, train_loss: 0.6650, step time: 0.3844
Batch 52/248, train_loss: 0.9791, step time: 0.3538
Batch 53/248, train_loss: 0.9975, step time: 0.3719
Batch 54/248, train_loss: 0.5759, step time: 0.3760
Batch 55/248, train_loss: 0.8659, step time: 0.3729
Batch 56/248, train_loss: 0.9398, step time: 0.3775
Batch 57/248, train_loss: 0.3623, step time: 0.3739
Batch 58/248, train_loss: 0.3585, step time: 0.3836
Batch 59/248, train_loss: 0.9767, step time: 0.3783
Batch 60/248, train_loss: 0.9819, step time: 0.3651
Batch 61/248, train_loss: 0.2380, step time: 0.3420
Batch 62/248, train_loss: 1.0000, step time: 0.3614
Batch 63/248, train_loss: 0.9893, step time: 0.3785
Batch 64/248, train_loss: 0.9240, step time: 0.3714
Batch 65/248, train_loss: 0.3933, step time: 0.3483
Batch 66/248, train_loss: 0.4770, step time: 0.3846
Batch 67/248, train_loss: 0.5717, step time: 0.3812
Batch 68/248, train_loss: 0.9144, step time: 0.3662
Batch 69/248, train_loss: 0.6575, step time: 0.3853
Batch 70/248, train_loss: 0.9968, step time: 0.3632
Batch 71/248, train_loss: 0.9259, step time: 0.3647
Batch 72/248, train_loss: 0.4856, step time: 0.3494
Batch 73/248, train_loss: 0.1818, step time: 0.3598
Batch 74/248, train_loss: 0.9994, step time: 0.3851
Batch 75/248, train_loss: 0.1641, step time: 0.3702
Batch 76/248, train_loss: 0.9863, step time: 0.3626
Batch 77/248, train_loss: 0.8305, step time: 0.3718
Batch 78/248, train_loss: 0.6997, step time: 0.3614
Batch 79/248, train_loss: 0.9784, step time: 0.3430
Batch 80/248, train_loss: 0.1823, step time: 0.3691
Batch 81/248, train_loss: 0.9721, step time: 0.3536
Batch 82/248, train_loss: 0.9943, step time: 0.3734
Batch 83/248, train_loss: 0.8442, step time: 0.3590
Batch 84/248, train_loss: 0.8632, step time: 0.3817
... -----

Batch 157/248, train_loss: 0.5344, step time: 0.3449
Batch 158/248, train_loss: 0.9996, step time: 0.3790
Batch 159/248, train_loss: 0.9979, step time: 0.3453
Batch 160/248, train_loss: 0.6570, step time: 0.3574
Batch 161/248, train_loss: 0.8436, step time: 0.3850
Batch 162/248, train_loss: 0.1713, step time: 0.3556
Batch 163/248, train_loss: 0.9857, step time: 0.3423
Batch 164/248, train_loss: 0.8607, step time: 0.3418
Batch 165/248, train_loss: 0.9995, step time: 0.3841
Batch 166/248, train_loss: 0.9658, step time: 0.3503
Batch 167/248, train_loss: 0.8688, step time: 0.3587
Batch 168/248, train_loss: 0.8527, step time: 0.3451
Batch 169/248, train_loss: 0.6826, step time: 0.3708
Batch 170/248, train_loss: 0.9928, step time: 0.3438
Batch 171/248, train_loss: 0.2724, step time: 0.3818
Batch 172/248, train_loss: 0.9995, step time: 0.3794
Batch 173/248, train_loss: 0.4962, step time: 0.3466
Batch 174/248, train_loss: 0.9959, step time: 0.3817
Batch 175/248, train_loss: 0.3277, step time: 0.3421
Batch 176/248, train_loss: 0.9164, step time: 0.3653
Batch 177/248, train_loss: 0.9998, step time: 0.4185
Batch 178/248, train_loss: 0.6690, step time: 0.4227
Batch 179/248, train_loss: 0.1803, step time: 0.3421
Batch 180/248, train_loss: 0.8490, step time: 0.3658
Batch 181/248, train_loss: 0.4067, step time: 0.3489
Batch 182/248, train_loss: 0.9732, step time: 0.3437
Batch 183/248, train_loss: 0.8505, step time: 0.3703
Batch 184/248, train_loss: 0.9677, step time: 0.3827
Batch 185/248, train_loss: 0.8468, step time: 0.3519
Batch 186/248, train_loss: 0.6938, step time: 0.4036
Batch 187/248, train_loss: 0.6969, step time: 0.3818
Batch 188/248, train_loss: 0.8653, step time: 0.3860
Batch 189/248, train_loss: 0.9997, step time: 0.3849
Batch 190/248, train_loss: 0.7279, step time: 0.3882
Batch 191/248, train_loss: 0.9988, step time: 0.3656
Batch 192/248, train_loss: 0.7314, step time: 0.3509
Batch 193/248, train_loss: 0.9216, step time: 0.3428
Batch 194/248, train_loss: 0.9113, step time: 0.3749
Batch 195/248, train_loss: 0.9983, step time: 0.3534
Batch 196/248, train_loss: 1.0000, step time: 0.3520
Batch 197/248, train_loss: 0.9557, step time: 0.3821
Batch 198/248, train_loss: 1.0000, step time: 0.3567
Batch 199/248, train_loss: 0.8952, step time: 0.3817
Batch 200/248, train_loss: 0.8547, step time: 0.3453
Batch 201/248, train_loss: 0.6891, step time: 0.3823
Batch 202/248, train_loss: 0.9328, step time: 0.3706
Batch 203/248, train_loss: 0.9950, step time: 0.3612
Batch 204/248, train_loss: 0.3714, step time: 0.3637
Batch 205/248, train_loss: 0.9687, step time: 0.3828
Batch 206/248, train_loss: 0.9980, step time: 0.3639
Batch 207/248, train_loss: 0.6093, step time: 0.3730
Batch 208/248, train_loss: 0.8480, step time: 0.3709
Batch 209/248, train_loss: 0.7885, step time: 0.3466
Batch 210/248, train_loss: 0.5945, step time: 0.3869
Batch 211/248, train_loss: 0.5874, step time: 0.3784
Batch 212/248, train_loss: 0.9370, step time: 0.3460
Batch 213/248, train_loss: 0.9250, step time: 0.3448
Batch 214/248, train_loss: 0.7349, step time: 0.3485
Batch 215/248, train_loss: 0.9505, step time: 0.3442
Batch 216/248, train_loss: 0.6432, step time: 0.3481
Batch 217/248, train_loss: 0.9760, step time: 0.3729
Batch 218/248, train_loss: 0.9989, step time: 0.3723
Batch 219/248, train_loss: 0.7357, step time: 0.3769
Batch 220/248, train_loss: 0.9513, step time: 0.3852
Batch 221/248, train_loss: 0.9464, step time: 0.3481
Batch 222/248, train_loss: 0.6671, step time: 0.3691
Batch 223/248, train_loss: 0.3758, step time: 0.3478
Batch 224/248, train_loss: 0.5548, step time: 0.3441
Batch 225/248, train_loss: 0.9952, step time: 0.3588
Batch 226/248, train_loss: 0.9727, step time: 0.3609
Batch 227/248, train_loss: 0.7352, step time: 0.3748
Batch 228/248, train_loss: 0.9418, step time: 0.3749
Batch 229/248, train_loss: 0.3634, step time: 0.3435
Batch 230/248, train_loss: 0.7421, step time: 0.3445
Batch 231/248, train_loss: 0.9949, step time: 0.3860
Batch 232/248, train_loss: 0.7294, step time: 0.3421
Batch 233/248, train_loss: 0.9999, step time: 0.3838
Batch 234/248, train_loss: 0.9955, step time: 0.3483
Batch 235/248, train_loss: 0.9951, step time: 0.3905
Batch 236/248, train_loss: 0.9993, step time: 0.3605
Batch 237/248, train_loss: 0.4376, step time: 0.3789
Batch 238/248, train_loss: 0.6803, step time: 0.3712
Batch 239/248, train_loss: 0.2010, step time: 0.3486
Batch 240/248, train_loss: 0.9142, step time: 0.3763
Batch 241/248, train_loss: 0.9999, step time: 0.3883

```
Batch 242/248, train_loss: 0.9656, step time: 0.3447  
Batch 243/248, train_loss: 0.9989, step time: 0.3834  
Batch 244/248, train_loss: 0.9923, step time: 0.3639  
Batch 245/248, train_loss: 0.6317, step time: 0.3443  
Batch 246/248, train_loss: 0.9954, step time: 0.3566  
Batch 247/248, train_loss: 0.2362, step time: 0.3754  
Batch 248/248, train_loss: 1.0000, step time: 0.3717
```

Labels



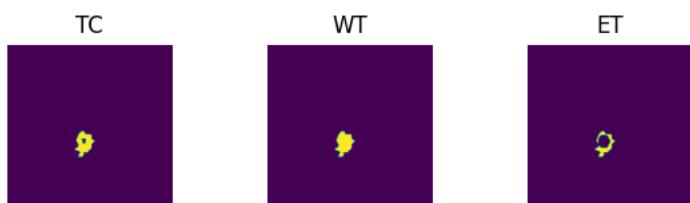
Predictions



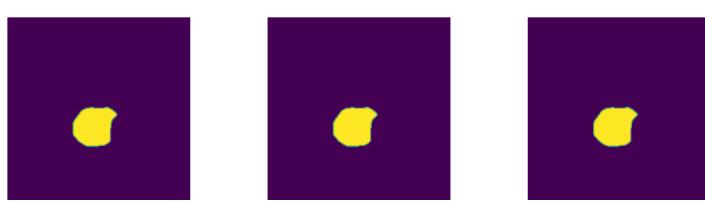
VAL

```
Batch 1/31, val_loss: 0.8982  
Batch 2/31, val_loss: 1.0000  
Batch 3/31, val_loss: 0.9905  
Batch 4/31, val_loss: 0.9818  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7411  
Batch 7/31, val_loss: 0.9297  
Batch 8/31, val_loss: 0.9894  
Batch 9/31, val_loss: 0.7937  
Batch 10/31, val_loss: 0.9856  
Batch 11/31, val_loss: 0.9408  
Batch 12/31, val_loss: 0.9777  
Batch 13/31, val_loss: 0.9934  
Batch 14/31, val_loss: 0.9794  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9977  
Batch 17/31, val_loss: 0.9995  
Batch 18/31, val_loss: 0.9774  
Batch 19/31, val_loss: 0.8567  
Batch 20/31, val_loss: 0.9530  
Batch 21/31, val_loss: 0.9812  
Batch 22/31, val_loss: 0.9970  
Batch 23/31, val_loss: 0.9982  
Batch 24/31, val_loss: 0.7675  
Batch 25/31, val_loss: 0.9016  
Batch 26/31, val_loss: 0.9856  
Batch 27/31, val_loss: 0.9993  
Batch 28/31, val_loss: 0.9053  
Batch 29/31, val_loss: 0.9998  
Batch 30/31, val_loss: 0.9983  
Batch 31/31, val_loss: 0.9974
```

Labels



Predictions



```
epoch 28
average train loss: 0.7951
average validation loss: 0.9522
saved as best model: True
current mean dice: 0.1662
current TC dice: 0.1732
current WT dice: 0.1758
current ET dice: 0.1658
Best Mean Metric: 0.1662
time consuming of epoch 28 is: 1445.6884
-----
epoch 29/100
TRAIN
Batch 1/248, train_loss: 0.3698, step time: 0.3571
Batch 2/248, train_loss: 0.9998, step time: 0.3582
Batch 3/248, train_loss: 0.9859, step time: 0.3812
Batch 4/248, train_loss: 0.9995, step time: 0.3419
Batch 5/248, train_loss: 0.9279, step time: 0.3572
Batch 6/248, train_loss: 0.9159, step time: 0.3459
Batch 7/248, train_loss: 0.2225, step time: 0.3812
Batch 8/248, train_loss: 0.8198, step time: 0.3672
Batch 9/248, train_loss: 0.3575, step time: 0.3549
Batch 10/248, train_loss: 0.9656, step time: 0.3875
Batch 11/248, train_loss: 0.9218, step time: 0.3557
Batch 12/248, train_loss: 0.9970, step time: 0.3428
Batch 13/248, train_loss: 0.9832, step time: 0.3739
Batch 14/248, train_loss: 0.1588, step time: 0.3721
Batch 15/248, train_loss: 0.9634, step time: 0.3612
Batch 16/248, train_loss: 0.9096, step time: 0.3459
Batch 17/248, train_loss: 0.9983, step time: 0.3837
Batch 18/248, train_loss: 0.9906, step time: 0.3741
Batch 19/248, train_loss: 0.4185, step time: 0.3694
Batch 20/248, train_loss: 0.8809, step time: 0.3535
Batch 21/248, train_loss: 0.6773, step time: 0.3847
Batch 22/248, train_loss: 0.9999, step time: 0.3805
Batch 23/248, train_loss: 0.9999, step time: 0.3792
Batch 24/248, train_loss: 0.7269, step time: 0.3455
Batch 25/248, train_loss: 0.1828, step time: 0.3614
Batch 26/248, train_loss: 0.9922, step time: 0.3471
Batch 27/248, train_loss: 0.3373, step time: 0.3877
Batch 28/248, train_loss: 0.8980, step time: 0.3753
Batch 29/248, train_loss: 0.9958, step time: 0.3569
Batch 30/248, train_loss: 0.9637, step time: 0.3471
Batch 31/248, train_loss: 0.9638, step time: 0.3457
Batch 32/248, train_loss: 0.6732, step time: 0.3842
Batch 33/248, train_loss: 0.3192, step time: 0.3426
Batch 34/248, train_loss: 0.4637, step time: 0.3753
Batch 35/248, train_loss: 0.7208, step time: 0.3441
Batch 36/248, train_loss: 0.9997, step time: 0.3810
Batch 37/248, train_loss: 0.7840, step time: 0.3455
Batch 38/248, train_loss: 0.9515, step time: 0.3570
Batch 39/248, train_loss: 0.8091, step time: 0.3711
Batch 40/248, train_loss: 0.9995, step time: 0.3400
Batch 41/248, train_loss: 0.6222, step time: 0.3568
Batch 42/248, train_loss: 0.6157, step time: 0.3537
Batch 43/248, train_loss: 0.4190, step time: 0.3819
Batch 44/248, train_loss: 0.8100, step time: 0.3444
Batch 45/248, train_loss: 0.9679, step time: 0.3465
Batch 46/248, train_loss: 0.8210, step time: 0.3770
Batch 47/248, train_loss: 0.8911, step time: 0.3556
Batch 48/248, train_loss: 0.8314, step time: 0.3546
Batch 49/248, train_loss: 0.9884, step time: 0.3429
Batch 50/248, train_loss: 0.9040, step time: 0.3846
Batch 51/248, train_loss: 0.8886, step time: 0.3575
Batch 52/248, train_loss: 0.8290, step time: 0.3871
Batch 53/248, train_loss: 0.9577, step time: 0.3612
Batch 54/248, train_loss: 0.8799, step time: 0.3882
Batch 55/248, train_loss: 0.9664, step time: 0.3459
Batch 56/248, train_loss: 0.8958, step time: 0.3485
Batch 57/248, train_loss: 0.9063, step time: 0.3790
Batch 58/248, train_loss: 0.6361, step time: 0.3545
Batch 59/248, train_loss: 0.7074, step time: 0.3795
Batch 60/248, train_loss: 0.6171, step time: 0.3766
Batch 61/248, train_loss: 0.7200, step time: 0.3783
Batch 62/248, train_loss: 0.9698, step time: 0.3847
Batch 63/248, train_loss: 0.9940, step time: 0.3463
Batch 64/248, train_loss: 0.9926, step time: 0.3727
Batch 65/248, train_loss: 0.9086, step time: 0.3599
Batch 66/248, train_loss: 0.9176, step time: 0.3647
Batch 67/248, train_loss: 0.3297, step time: 0.3797
Batch 68/248, train_loss: 0.5628, step time: 0.3535
Batch 69/248, train_loss: 0.9998, step time: 0.3761
Batch 70/248, train_loss: 0.6418, step time: 0.3566
Batch 71/248, train_loss: 0.5186, step time: 0.3744
```

Batch 72/248, train_loss: 0.5262, step time: 0.3564
Batch 73/248, train_loss: 0.5910, step time: 0.3749
Batch 74/248, train_loss: 0.9998, step time: 0.3560
Batch 75/248, train_loss: 0.6118, step time: 0.3818
Batch 76/248, train_loss: 0.9954, step time: 0.3709
Batch 77/248, train_loss: 0.9996, step time: 0.3755
Batch 78/248, train_loss: 0.7938, step time: 0.3683
Batch 79/248, train_loss: 0.8844, step time: 0.3803
Batch 80/248, train_loss: 0.9413, step time: 0.3422
Batch 81/248, train_loss: 0.9537, step time: 0.3414
Batch 82/248, train_loss: 0.6096, step time: 0.3426
Batch 83/248, train_loss: 0.9943, step time: 0.3477
Batch 84/248, train_loss: 0.8879, step time: 0.3454
Batch 85/248, train_loss: 0.9950, step time: 0.3734
Batch 86/248, train_loss: 0.7483, step time: 0.3816
Batch 87/248, train_loss: 0.9917, step time: 0.3689
Batch 88/248, train_loss: 0.9861, step time: 0.3419
Batch 89/248, train_loss: 0.2694, step time: 0.3490
Batch 90/248, train_loss: 0.8974, step time: 0.3593
Batch 91/248, train_loss: 0.9941, step time: 0.3747
Batch 92/248, train_loss: 0.8602, step time: 0.3763
Batch 93/248, train_loss: 0.5750, step time: 0.3798
Batch 94/248, train_loss: 0.9961, step time: 0.3506
Batch 95/248, train_loss: 0.7823, step time: 0.3794
Batch 96/248, train_loss: 0.7502, step time: 0.3559
Batch 97/248, train_loss: 0.9999, step time: 0.3820
Batch 98/248, train_loss: 0.5297, step time: 0.3424
Batch 99/248, train_loss: 0.9861, step time: 0.3455
Batch 100/248, train_loss: 0.9966, step time: 0.3784
Batch 101/248, train_loss: 0.1737, step time: 0.3819
Batch 102/248, train_loss: 0.8378, step time: 0.3479
Batch 103/248, train_loss: 0.9925, step time: 0.3842
Batch 104/248, train_loss: 0.7754, step time: 0.3827
Batch 105/248, train_loss: 0.4751, step time: 0.3709
Batch 106/248, train_loss: 0.9099, step time: 0.3662
Batch 107/248, train_loss: 0.9806, step time: 0.3439
Batch 108/248, train_loss: 0.9900, step time: 0.3578
Batch 109/248, train_loss: 0.9987, step time: 0.3647
Batch 110/248, train_loss: 0.9421, step time: 0.3581
Batch 111/248, train_loss: 0.4855, step time: 0.3850
Batch 112/248, train_loss: 0.5279, step time: 0.3623
Batch 113/248, train_loss: 0.9999, step time: 0.3400
Batch 114/248, train_loss: 0.3234, step time: 0.3422
Batch 115/248, train_loss: 0.8224, step time: 0.3782
Batch 116/248, train_loss: 0.4498, step time: 0.3778
Batch 117/248, train_loss: 0.9969, step time: 0.3464
Batch 118/248, train_loss: 0.9938, step time: 0.3530
Batch 119/248, train_loss: 0.8633, step time: 0.3799
Batch 120/248, train_loss: 0.8645, step time: 0.3407
Batch 121/248, train_loss: 0.9655, step time: 0.3652
Batch 122/248, train_loss: 0.9746, step time: 0.3743
Batch 123/248, train_loss: 0.6544, step time: 0.3838
Batch 124/248, train_loss: 0.9783, step time: 0.3496
Batch 125/248, train_loss: 0.9967, step time: 0.3568
Batch 126/248, train_loss: 0.5821, step time: 0.3478
Batch 127/248, train_loss: 0.8550, step time: 0.3444
Batch 128/248, train_loss: 0.9360, step time: 0.3602
Batch 129/248, train_loss: 0.3214, step time: 0.3459
Batch 130/248, train_loss: 0.3357, step time: 0.3526
Batch 131/248, train_loss: 0.9781, step time: 0.3476
Batch 132/248, train_loss: 0.9950, step time: 0.3825
Batch 133/248, train_loss: 0.2681, step time: 0.3731
Batch 134/248, train_loss: 1.0000, step time: 0.3784
Batch 135/248, train_loss: 0.9890, step time: 0.3702
Batch 136/248, train_loss: 0.9181, step time: 0.3781
Batch 137/248, train_loss: 0.4050, step time: 0.3459
Batch 138/248, train_loss: 0.4515, step time: 0.3865
Batch 139/248, train_loss: 0.5459, step time: 0.3587
Batch 140/248, train_loss: 0.9083, step time: 0.3748
Batch 141/248, train_loss: 0.6476, step time: 0.3424
Batch 142/248, train_loss: 0.9958, step time: 0.3718
Batch 143/248, train_loss: 0.9247, step time: 0.3716
Batch 144/248, train_loss: 0.4746, step time: 0.3486
Batch 145/248, train_loss: 0.1944, step time: 0.3843
Batch 146/248, train_loss: 0.9995, step time: 0.3417
Batch 147/248, train_loss: 0.1558, step time: 0.3559
Batch 148/248, train_loss: 0.9859, step time: 0.3635
Batch 149/248, train_loss: 0.8185, step time: 0.3580
Batch 150/248, train_loss: 0.7181, step time: 0.3424
Batch 151/248, train_loss: 0.9826, step time: 0.3523
Batch 152/248, train_loss: 0.1577, step time: 0.3775
Batch 153/248, train_loss: 0.9720, step time: 0.3812
Batch 154/248, train_loss: 0.9933, step time: 0.3775
Batch 155/248, train_loss: 0.8334, step time: 0.3721
Batch 156/248, train_loss: 0.8482, step time: 0.3435

Batch 157/248, train_loss: 0.5274, step time: 0.3663
Batch 158/248, train_loss: 0.9996, step time: 0.3746
Batch 159/248, train_loss: 0.9990, step time: 0.3520
Batch 160/248, train_loss: 0.6410, step time: 0.3463
Batch 161/248, train_loss: 0.8318, step time: 0.3731
Batch 162/248, train_loss: 0.1706, step time: 0.3725
Batch 163/248, train_loss: 0.9857, step time: 0.3792
Batch 164/248, train_loss: 0.8549, step time: 0.3531
Batch 165/248, train_loss: 0.9995, step time: 0.3652
Batch 166/248, train_loss: 0.9634, step time: 0.3853
Batch 167/248, train_loss: 0.8619, step time: 0.3691
Batch 168/248, train_loss: 0.8466, step time: 0.3406
Batch 169/248, train_loss: 0.6671, step time: 0.3598
Batch 170/248, train_loss: 0.9934, step time: 0.3447
Batch 171/248, train_loss: 0.2529, step time: 0.3571
Batch 172/248, train_loss: 0.9996, step time: 0.3510
Batch 173/248, train_loss: 0.4832, step time: 0.3418
Batch 174/248, train_loss: 0.9980, step time: 0.3427
Batch 175/248, train_loss: 0.3014, step time: 0.3452
Batch 176/248, train_loss: 0.9118, step time: 0.3822
Batch 177/248, train_loss: 0.9997, step time: 0.3503
Batch 178/248, train_loss: 0.6439, step time: 0.3752
Batch 179/248, train_loss: 0.1735, step time: 0.3670
Batch 180/248, train_loss: 0.8426, step time: 0.3458
Batch 181/248, train_loss: 0.3840, step time: 0.3417
Batch 182/248, train_loss: 0.9726, step time: 0.3849
Batch 183/248, train_loss: 0.8393, step time: 0.3731
Batch 184/248, train_loss: 0.9705, step time: 0.3551
Batch 185/248, train_loss: 0.8395, step time: 0.3838
Batch 186/248, train_loss: 0.6774, step time: 0.3530
Batch 187/248, train_loss: 0.6803, step time: 0.3468
Batch 188/248, train_loss: 0.8522, step time: 0.3544
Batch 189/248, train_loss: 0.9997, step time: 0.3817
Batch 190/248, train_loss: 0.7228, step time: 0.3505
Batch 191/248, train_loss: 0.9990, step time: 0.3422
Batch 192/248, train_loss: 0.6780, step time: 0.3656
Batch 193/248, train_loss: 0.9183, step time: 0.3781
Batch 194/248, train_loss: 0.9061, step time: 0.3833
Batch 195/248, train_loss: 0.9978, step time: 0.3690
Batch 196/248, train_loss: 1.0000, step time: 0.3548
Batch 197/248, train_loss: 0.9547, step time: 0.3743
Batch 198/248, train_loss: 1.0000, step time: 0.3813
Batch 199/248, train_loss: 0.8701, step time: 0.3597
Batch 200/248, train_loss: 0.8281, step time: 0.3860
Batch 201/248, train_loss: 0.6652, step time: 0.3417
Batch 202/248, train_loss: 0.9239, step time: 0.3765
Batch 203/248, train_loss: 0.9974, step time: 0.3598
Batch 204/248, train_loss: 0.3533, step time: 0.3690
Batch 205/248, train_loss: 0.9674, step time: 0.3653
Batch 206/248, train_loss: 0.9979, step time: 0.3671
Batch 207/248, train_loss: 0.5863, step time: 0.3595
Batch 208/248, train_loss: 0.8382, step time: 0.3474
Batch 209/248, train_loss: 0.7681, step time: 0.3646
Batch 210/248, train_loss: 0.5708, step time: 0.3798
Batch 211/248, train_loss: 0.5645, step time: 0.3741
Batch 212/248, train_loss: 0.9340, step time: 0.3717
Batch 213/248, train_loss: 0.9170, step time: 0.3420
Batch 214/248, train_loss: 0.7204, step time: 0.3538
Batch 215/248, train_loss: 0.9432, step time: 0.3794
Batch 216/248, train_loss: 0.6353, step time: 0.3455
Batch 217/248, train_loss: 0.9742, step time: 0.3769
Batch 218/248, train_loss: 0.9989, step time: 0.3584
Batch 219/248, train_loss: 0.7196, step time: 0.3572
Batch 220/248, train_loss: 0.9475, step time: 0.3835
Batch 221/248, train_loss: 0.9392, step time: 0.3790
Batch 222/248, train_loss: 0.6399, step time: 0.3723
Batch 223/248, train_loss: 0.3467, step time: 0.3622
Batch 224/248, train_loss: 0.5329, step time: 0.3556
Batch 225/248, train_loss: 0.9948, step time: 0.3645
Batch 226/248, train_loss: 0.9714, step time: 0.3457
Batch 227/248, train_loss: 0.7231, step time: 0.3700
Batch 228/248, train_loss: 0.9373, step time: 0.3840
Batch 229/248, train_loss: 0.3371, step time: 0.3793
Batch 230/248, train_loss: 0.7250, step time: 0.3483
Batch 231/248, train_loss: 0.9995, step time: 0.3436
Batch 232/248, train_loss: 0.7126, step time: 0.3658
Batch 233/248, train_loss: 0.9999, step time: 0.3516
Batch 234/248, train_loss: 0.9955, step time: 0.3454
Batch 235/248, train_loss: 0.9913, step time: 0.3713
Batch 236/248, train_loss: 0.9995, step time: 0.3765
Batch 237/248, train_loss: 0.4141, step time: 0.3429
Batch 238/248, train_loss: 0.6542, step time: 0.3677
Batch 239/248, train_loss: 0.1923, step time: 0.3564
Batch 240/248, train_loss: 0.9150, step time: 0.3602
Batch 241/248, train_loss: 0.9997, step time: 0.3818

```
Batch 212/248, train_loss: 0.9999, step time: 0.3651
Batch 242/248, train_loss: 0.9649, step time: 0.3678
Batch 243/248, train_loss: 0.9987, step time: 0.3436
Batch 244/248, train_loss: 0.9917, step time: 0.3559
Batch 245/248, train_loss: 0.6119, step time: 0.3892
Batch 246/248, train_loss: 0.9945, step time: 0.3436
Batch 247/248, train_loss: 0.2174, step time: 0.3870
Batch 248/248, train_loss: 1.0000, step time: 0.3651
```

Labels



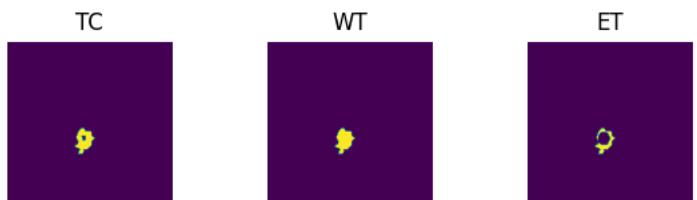
Predictions



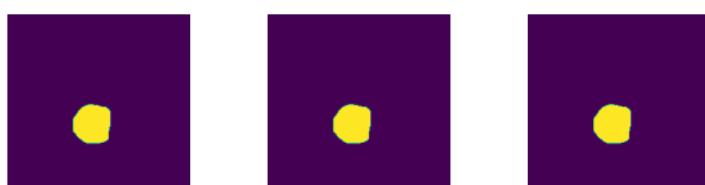
VAL

```
Batch 1/31, val_loss: 0.8991
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9912
Batch 4/31, val_loss: 0.9820
Batch 5/31, val_loss: 0.9999
Batch 6/31, val_loss: 0.7391
Batch 7/31, val_loss: 0.9240
Batch 8/31, val_loss: 0.9866
Batch 9/31, val_loss: 0.7846
Batch 10/31, val_loss: 0.9862
Batch 11/31, val_loss: 0.9377
Batch 12/31, val_loss: 0.9768
Batch 13/31, val_loss: 0.9941
Batch 14/31, val_loss: 0.9777
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9975
Batch 17/31, val_loss: 0.9992
Batch 18/31, val_loss: 0.9786
Batch 19/31, val_loss: 0.8515
Batch 20/31, val_loss: 0.9515
Batch 21/31, val_loss: 0.9785
Batch 22/31, val_loss: 0.9964
Batch 23/31, val_loss: 0.9976
Batch 24/31, val_loss: 0.7688
Batch 25/31, val_loss: 0.8976
Batch 26/31, val_loss: 0.9854
Batch 27/31, val_loss: 0.9994
Batch 28/31, val_loss: 0.9833
Batch 29/31, val_loss: 0.9997
Batch 30/31, val_loss: 0.9980
Batch 31/31, val_loss: 0.9974
```

Labels



Predictions



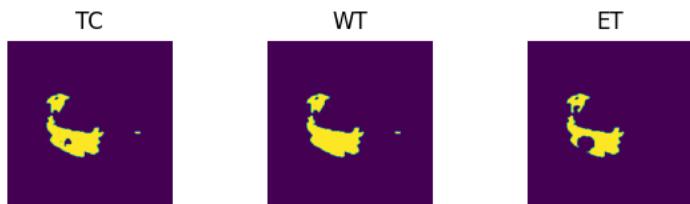
```
epoch 29
    average train loss: 0.7868
    average validation loss: 0.9510
    saved as best model: True
    current mean dice: 0.1735
    current TC dice: 0.1807
    current WT dice: 0.1834
    current ET dice: 0.1729
Best Mean Metric: 0.1735
time consuming of epoch 29 is: 1438.5272
-----
epoch 30/100
TRAIN
    Batch 1/248, train_loss: 0.3574, step time: 0.3860
    Batch 2/248, train_loss: 0.9997, step time: 0.3505
    Batch 3/248, train_loss: 0.9839, step time: 0.3438
    Batch 4/248, train_loss: 0.9995, step time: 0.3745
    Batch 5/248, train_loss: 0.9237, step time: 0.3544
    Batch 6/248, train_loss: 0.9087, step time: 0.3471
    Batch 7/248, train_loss: 0.2113, step time: 0.3768
    Batch 8/248, train_loss: 0.8077, step time: 0.3417
    Batch 9/248, train_loss: 0.3317, step time: 0.3791
    Batch 10/248, train_loss: 0.9650, step time: 0.3437
    Batch 11/248, train_loss: 0.9156, step time: 0.3496
    Batch 12/248, train_loss: 0.9967, step time: 0.3736
    Batch 13/248, train_loss: 0.9841, step time: 0.3799
    Batch 14/248, train_loss: 0.1542, step time: 0.3675
    Batch 15/248, train_loss: 0.9596, step time: 0.3419
    Batch 16/248, train_loss: 0.9009, step time: 0.3420
    Batch 17/248, train_loss: 0.9982, step time: 0.3870
    Batch 18/248, train_loss: 0.9895, step time: 0.3834
    Batch 19/248, train_loss: 0.3962, step time: 0.3479
    Batch 20/248, train_loss: 0.8729, step time: 0.3869
    Batch 21/248, train_loss: 0.6606, step time: 0.3462
    Batch 22/248, train_loss: 0.9999, step time: 0.3751
    Batch 23/248, train_loss: 0.9999, step time: 0.3538
    Batch 24/248, train_loss: 0.7080, step time: 0.3467
    Batch 25/248, train_loss: 0.1679, step time: 0.3771
    Batch 26/248, train_loss: 0.9953, step time: 0.3744
    Batch 27/248, train_loss: 0.3143, step time: 0.3412
    Batch 28/248, train_loss: 0.8877, step time: 0.3835
    Batch 29/248, train_loss: 0.9953, step time: 0.3789
    Batch 30/248, train_loss: 0.9012, step time: 0.3583
    Batch 31/248, train_loss: 0.9592, step time: 0.3456
    Batch 32/248, train_loss: 0.6548, step time: 0.3476
    Batch 33/248, train_loss: 0.2995, step time: 0.3484
    Batch 34/248, train_loss: 0.4377, step time: 0.3729
    Batch 35/248, train_loss: 0.7039, step time: 0.3683
    Batch 36/248, train_loss: 0.9997, step time: 0.3463
    Batch 37/248, train_loss: 0.7732, step time: 0.3751
    Batch 38/248, train_loss: 0.9503, step time: 0.3405
    Batch 39/248, train_loss: 0.7978, step time: 0.3719
    Batch 40/248, train_loss: 0.9994, step time: 0.3843
    Batch 41/248, train_loss: 0.6116, step time: 0.3588
    Batch 42/248, train_loss: 0.5815, step time: 0.3554
    Batch 43/248, train_loss: 0.3919, step time: 0.3862
    Batch 44/248, train_loss: 0.8122, step time: 0.3535
    Batch 45/248, train_loss: 0.9620, step time: 0.3612
    Batch 46/248, train_loss: 0.8121, step time: 0.3436
    Batch 47/248, train_loss: 0.8811, step time: 0.3708
    Batch 48/248, train_loss: 0.8214, step time: 0.3829
    Batch 49/248, train_loss: 0.9867, step time: 0.3465
    Batch 50/248, train_loss: 0.8981, step time: 0.3783
    Batch 51/248, train_loss: 0.8837, step time: 0.3859
    Batch 52/248, train_loss: 0.8224, step time: 0.3578
    Batch 53/248, train_loss: 0.9534, step time: 0.3613
    Batch 54/248, train_loss: 0.8730, step time: 0.3813
    Batch 55/248, train_loss: 0.9606, step time: 0.3419
    Batch 56/248, train_loss: 0.8945, step time: 0.3399
    Batch 57/248, train_loss: 0.9010, step time: 0.3470
    Batch 58/248, train_loss: 0.6163, step time: 0.3434
    Batch 59/248, train_loss: 0.6931, step time: 0.3507
    Batch 60/248, train_loss: 0.5985, step time: 0.3741
    Batch 61/248, train_loss: 0.7136, step time: 0.3723
    Batch 62/248, train_loss: 0.9680, step time: 0.3409
    Batch 63/248, train_loss: 0.9964, step time: 0.3643
    Batch 64/248, train_loss: 0.9922, step time: 0.3597
    Batch 65/248, train_loss: 0.8938, step time: 0.3620
    Batch 66/248, train_loss: 0.9136, step time: 0.3484
    Batch 67/248, train_loss: 0.3086, step time: 0.3757
    Batch 68/248, train_loss: 0.5408, step time: 0.3746
    Batch 69/248, train_loss: 0.9981, step time: 0.3421
    Batch 70/248, train_loss: 0.6353, step time: 0.3774
    Batch 71/248, train loss: 0.4993, step time: 0.3747
```

Batch 72/248, train_loss: 0.5036, step time: 0.3411
Batch 73/248, train_loss: 0.5711, step time: 0.3724
Batch 74/248, train_loss: 0.9996, step time: 0.3436
Batch 75/248, train_loss: 0.5932, step time: 0.3617
Batch 76/248, train_loss: 0.9946, step time: 0.3458
Batch 77/248, train_loss: 0.9997, step time: 0.3536
Batch 78/248, train_loss: 0.7803, step time: 0.3500
Batch 79/248, train_loss: 0.8795, step time: 0.3846
Batch 80/248, train_loss: 0.9302, step time: 0.3825
Batch 81/248, train_loss: 0.9486, step time: 0.3612
Batch 82/248, train_loss: 0.5858, step time: 0.3472
Batch 83/248, train_loss: 0.9936, step time: 0.3525
Batch 84/248, train_loss: 0.8800, step time: 0.3728
Batch 85/248, train_loss: 0.9957, step time: 0.3417
Batch 86/248, train_loss: 0.7263, step time: 0.3762
Batch 87/248, train_loss: 0.9916, step time: 0.3568
Batch 88/248, train_loss: 0.9842, step time: 0.3626
Batch 89/248, train_loss: 0.2538, step time: 0.3795
Batch 90/248, train_loss: 0.8883, step time: 0.3429
Batch 91/248, train_loss: 0.9937, step time: 0.3497
Batch 92/248, train_loss: 0.8758, step time: 0.3500
Batch 93/248, train_loss: 0.5573, step time: 0.3466
Batch 94/248, train_loss: 0.9940, step time: 0.3445
Batch 95/248, train_loss: 0.7689, step time: 0.3584
Batch 96/248, train_loss: 0.7365, step time: 0.3596
Batch 97/248, train_loss: 0.9999, step time: 0.3720
Batch 98/248, train_loss: 0.5104, step time: 0.3527
Batch 99/248, train_loss: 0.9799, step time: 0.3526
Batch 100/248, train_loss: 0.9962, step time: 0.3452
Batch 101/248, train_loss: 0.1655, step time: 0.3410
Batch 102/248, train_loss: 0.8304, step time: 0.3548
Batch 103/248, train_loss: 0.9916, step time: 0.3840
Batch 104/248, train_loss: 0.7677, step time: 0.3577
Batch 105/248, train_loss: 0.4559, step time: 0.3570
Batch 106/248, train_loss: 0.9058, step time: 0.3742
Batch 107/248, train_loss: 0.9797, step time: 0.3615
Batch 108/248, train_loss: 0.9890, step time: 0.3655
Batch 109/248, train_loss: 0.9991, step time: 0.3438
Batch 110/248, train_loss: 0.9330, step time: 0.3435
Batch 111/248, train_loss: 0.4620, step time: 0.3427
Batch 112/248, train_loss: 0.5002, step time: 0.3499
Batch 113/248, train_loss: 0.9999, step time: 0.3807
Batch 114/248, train_loss: 0.3171, step time: 0.3472
Batch 115/248, train_loss: 0.8196, step time: 0.3444
Batch 116/248, train_loss: 0.4228, step time: 0.3410
Batch 117/248, train_loss: 0.9962, step time: 0.3440
Batch 118/248, train_loss: 0.9869, step time: 0.3509
Batch 119/248, train_loss: 0.8403, step time: 0.3451
Batch 120/248, train_loss: 0.8625, step time: 0.3838
Batch 121/248, train_loss: 0.9636, step time: 0.3564
Batch 122/248, train_loss: 0.9752, step time: 0.3676
Batch 123/248, train_loss: 0.6243, step time: 0.3528
Batch 124/248, train_loss: 0.9781, step time: 0.3745
Batch 125/248, train_loss: 0.9958, step time: 0.3483
Batch 126/248, train_loss: 0.5788, step time: 0.3675
Batch 127/248, train_loss: 0.8455, step time: 0.3416
Batch 128/248, train_loss: 0.9306, step time: 0.3466
Batch 129/248, train_loss: 0.2970, step time: 0.3407
Batch 130/248, train_loss: 0.3245, step time: 0.3458
Batch 131/248, train_loss: 0.9750, step time: 0.3487
Batch 132/248, train_loss: 0.9848, step time: 0.3840
Batch 133/248, train_loss: 0.2394, step time: 0.3611
Batch 134/248, train_loss: 0.9999, step time: 0.3795
Batch 135/248, train_loss: 0.9876, step time: 0.3834
Batch 136/248, train_loss: 0.9136, step time: 0.3657
Batch 137/248, train_loss: 0.3541, step time: 0.3621
Batch 138/248, train_loss: 0.4217, step time: 0.3593
Batch 139/248, train_loss: 0.5116, step time: 0.3792
Batch 140/248, train_loss: 0.9062, step time: 0.3649
Batch 141/248, train_loss: 0.6137, step time: 0.3743
Batch 142/248, train_loss: 0.9952, step time: 0.3462
Batch 143/248, train_loss: 0.9159, step time: 0.3734
Batch 144/248, train_loss: 0.4455, step time: 0.3571
Batch 145/248, train_loss: 0.1724, step time: 0.3694
Batch 146/248, train_loss: 0.9995, step time: 0.3811
Batch 147/248, train_loss: 0.1525, step time: 0.3549
Batch 148/248, train_loss: 0.9863, step time: 0.3444
Batch 149/248, train_loss: 0.8029, step time: 0.3830
Batch 150/248, train_loss: 0.6955, step time: 0.3749
Batch 151/248, train_loss: 0.9858, step time: 0.3508
Batch 152/248, train_loss: 0.1574, step time: 0.3756
Batch 153/248, train_loss: 0.9714, step time: 0.3455
Batch 154/248, train_loss: 0.9934, step time: 0.3490
Batch 155/248, train_loss: 0.8213, step time: 0.3861
Batch 156/248, train_loss: 0.8222, step time: 0.3677

```
Batch 150/248, train_loss: 0.0555, step time: 0.3577  
Batch 157/248, train_loss: 0.5037, step time: 0.3668  
Batch 158/248, train_loss: 0.9994, step time: 0.3488  
Batch 159/248, train_loss: 0.9984, step time: 0.3497  
Batch 160/248, train_loss: 0.6185, step time: 0.3553  
Batch 161/248, train_loss: 0.8242, step time: 0.3448  
Batch 162/248, train_loss: 0.1590, step time: 0.3420  
Batch 163/248, train_loss: 0.9833, step time: 0.3565  
Batch 164/248, train_loss: 0.8482, step time: 0.3521  
Batch 165/248, train_loss: 0.9996, step time: 0.3473  
Batch 166/248, train_loss: 0.9607, step time: 0.3470  
Batch 167/248, train_loss: 0.8545, step time: 0.3751  
Batch 168/248, train_loss: 0.8344, step time: 0.3794  
Batch 169/248, train_loss: 0.6468, step time: 0.3789  
Batch 170/248, train_loss: 0.9946, step time: 0.3537  
Batch 171/248, train_loss: 0.2384, step time: 0.3474  
Batch 172/248, train_loss: 0.9995, step time: 0.3720  
Batch 173/248, train_loss: 0.4511, step time: 0.3750  
Batch 174/248, train_loss: 0.9962, step time: 0.3769  
Batch 175/248, train_loss: 0.3018, step time: 0.3426  
Batch 176/248, train_loss: 0.9070, step time: 0.3581  
Batch 177/248, train_loss: 0.9982, step time: 0.3852  
Batch 178/248, train_loss: 0.6341, step time: 0.3795  
Batch 179/248, train_loss: 0.1717, step time: 0.3656  
Batch 180/248, train_loss: 0.8308, step time: 0.3612  
Batch 181/248, train_loss: 0.3619, step time: 0.3440  
Batch 182/248, train_loss: 0.9711, step time: 0.3640  
Batch 183/248, train_loss: 0.8299, step time: 0.3707  
Batch 184/248, train_loss: 0.9668, step time: 0.3704  
Batch 185/248, train_loss: 0.8322, step time: 0.3832  
Batch 186/248, train_loss: 0.6611, step time: 0.3449  
Batch 187/248, train_loss: 0.6628, step time: 0.3839  
Batch 188/248, train_loss: 0.8418, step time: 0.3740  
Batch 189/248, train_loss: 0.9997, step time: 0.3439  
Batch 190/248, train_loss: 0.7062, step time: 0.3820  
Batch 191/248, train_loss: 0.9993, step time: 0.3833  
Batch 192/248, train_loss: 0.6458, step time: 0.3561  
Batch 193/248, train_loss: 0.9150, step time: 0.3465  
Batch 194/248, train_loss: 0.8990, step time: 0.3471  
Batch 195/248, train_loss: 0.9981, step time: 0.3767  
Batch 196/248, train_loss: 1.0000, step time: 0.3429  
Batch 197/248, train_loss: 0.9479, step time: 0.3457  
Batch 198/248, train_loss: 1.0000, step time: 0.3720  
Batch 199/248, train_loss: 0.8523, step time: 0.3420  
Batch 200/248, train_loss: 0.8118, step time: 0.3701  
Batch 201/248, train_loss: 0.6376, step time: 0.3617  
Batch 202/248, train_loss: 0.9131, step time: 0.3470  
Batch 203/248, train_loss: 0.9959, step time: 0.3425  
Batch 204/248, train_loss: 0.3263, step time: 0.3781  
Batch 205/248, train_loss: 0.9700, step time: 0.3792  
Batch 206/248, train_loss: 0.9977, step time: 0.3716  
Batch 207/248, train_loss: 0.5611, step time: 0.3536  
Batch 208/248, train_loss: 0.8207, step time: 0.3869  
Batch 209/248, train_loss: 0.7454, step time: 0.3608  
Batch 210/248, train_loss: 0.5477, step time: 0.3844  
Batch 211/248, train_loss: 0.5463, step time: 0.3836  
Batch 212/248, train_loss: 0.9274, step time: 0.3853  
Batch 213/248, train_loss: 0.9112, step time: 0.3875  
Batch 214/248, train_loss: 0.7078, step time: 0.3548  
Batch 215/248, train_loss: 0.9435, step time: 0.3436  
Batch 216/248, train_loss: 0.6147, step time: 0.3417  
Batch 217/248, train_loss: 0.9724, step time: 0.3667  
Batch 218/248, train_loss: 0.9975, step time: 0.3552  
Batch 219/248, train_loss: 0.7062, step time: 0.3723  
Batch 220/248, train_loss: 0.9442, step time: 0.3430  
Batch 221/248, train_loss: 0.9340, step time: 0.3528  
Batch 222/248, train_loss: 0.6192, step time: 0.3756  
Batch 223/248, train_loss: 0.3192, step time: 0.3469  
Batch 224/248, train_loss: 0.5108, step time: 0.3617  
Batch 225/248, train_loss: 0.9942, step time: 0.3699  
Batch 226/248, train_loss: 0.9719, step time: 0.3543  
Batch 227/248, train_loss: 0.7044, step time: 0.3788  
Batch 228/248, train_loss: 0.9325, step time: 0.3683  
Batch 229/248, train_loss: 0.3089, step time: 0.3480  
Batch 230/248, train_loss: 0.7106, step time: 0.3761  
Batch 231/248, train_loss: 0.9994, step time: 0.3774  
Batch 232/248, train_loss: 0.6956, step time: 0.3653  
Batch 233/248, train_loss: 0.9999, step time: 0.3461  
Batch 234/248, train_loss: 0.9937, step time: 0.3713  
Batch 235/248, train_loss: 0.9925, step time: 0.3725  
Batch 236/248, train_loss: 0.9992, step time: 0.3444  
Batch 237/248, train_loss: 0.3868, step time: 0.3499  
Batch 238/248, train_loss: 0.6358, step time: 0.3617  
Batch 239/248, train_loss: 0.1526, step time: 0.3838  
Batch 240/248, train_loss: 0.9051, step time: 0.3873  
-----
```

```
Batch 241/248, train_loss: 0.9996, step time: 0.3730  
Batch 242/248, train_loss: 0.9616, step time: 0.3468  
Batch 243/248, train_loss: 0.9987, step time: 0.3450  
Batch 244/248, train_loss: 0.9920, step time: 0.3651  
Batch 245/248, train_loss: 0.5806, step time: 0.3454  
Batch 246/248, train_loss: 0.9924, step time: 0.3584  
Batch 247/248, train_loss: 0.1868, step time: 0.3776  
Batch 248/248, train_loss: 1.0000, step time: 0.3523
```

Labels



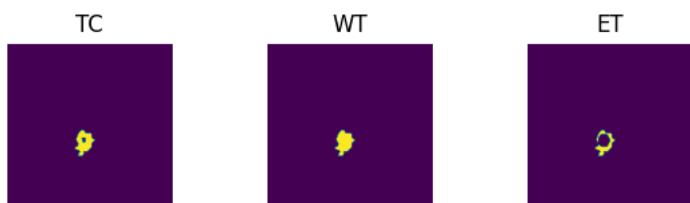
Predictions



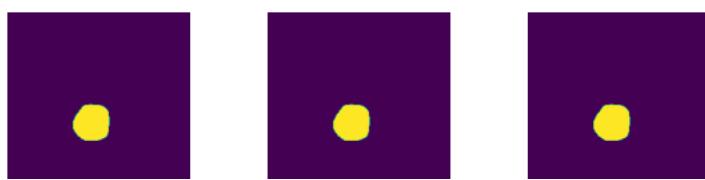
VAL

```
Batch 1/31, val_loss: 0.8975  
Batch 2/31, val_loss: 0.9998  
Batch 3/31, val_loss: 0.9909  
Batch 4/31, val_loss: 0.9832  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7348  
Batch 7/31, val_loss: 0.9186  
Batch 8/31, val_loss: 0.9876  
Batch 9/31, val_loss: 0.7648  
Batch 10/31, val_loss: 0.9839  
Batch 11/31, val_loss: 0.9306  
Batch 12/31, val_loss: 0.9803  
Batch 13/31, val_loss: 0.9937  
Batch 14/31, val_loss: 0.9812  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9970  
Batch 17/31, val_loss: 0.9991  
Batch 18/31, val_loss: 0.9789  
Batch 19/31, val_loss: 0.8454  
Batch 20/31, val_loss: 0.9367  
Batch 21/31, val_loss: 0.9716  
Batch 22/31, val_loss: 0.9972  
Batch 23/31, val_loss: 0.9978  
Batch 24/31, val_loss: 0.7660  
Batch 25/31, val_loss: 0.8869  
Batch 26/31, val_loss: 0.9839  
Batch 27/31, val_loss: 0.9993  
Batch 28/31, val_loss: 0.8885  
Batch 29/31, val_loss: 0.9997  
Batch 30/31, val_loss: 0.9970  
Batch 31/31, val_loss: 0.9972
```

Labels



Predictions



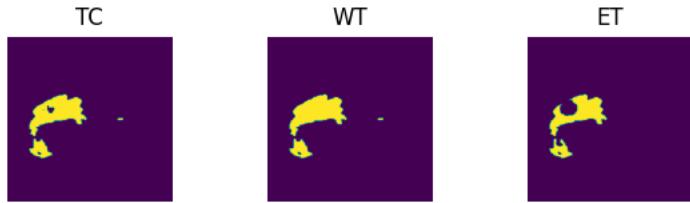
```
epoch 30
    average train loss: 0.7770
    average validation loss: 0.9478
    saved as best model: True
    current mean dice: 0.1927
    current TC dice: 0.2008
    current WT dice: 0.2038
    current ET dice: 0.1922
Best Mean Metric: 0.1927
time consuming of epoch 30 is: 1444.4752
-----
epoch 31/100
TRAIN
    Batch 1/248, train_loss: 0.3166, step time: 0.3487
    Batch 2/248, train_loss: 0.9998, step time: 0.3430
    Batch 3/248, train_loss: 0.9810, step time: 0.3522
    Batch 4/248, train_loss: 0.9994, step time: 0.3829
    Batch 5/248, train_loss: 0.9205, step time: 0.3493
    Batch 6/248, train_loss: 0.9031, step time: 0.3483
    Batch 7/248, train_loss: 0.1932, step time: 0.3444
    Batch 8/248, train_loss: 0.7983, step time: 0.3614
    Batch 9/248, train_loss: 0.3025, step time: 0.3740
    Batch 10/248, train_loss: 0.9625, step time: 0.3666
    Batch 11/248, train_loss: 0.9107, step time: 0.3786
    Batch 12/248, train_loss: 0.9961, step time: 0.3426
    Batch 13/248, train_loss: 0.9828, step time: 0.3626
    Batch 14/248, train_loss: 0.1371, step time: 0.3620
    Batch 15/248, train_loss: 0.9596, step time: 0.3716
    Batch 16/248, train_loss: 0.8928, step time: 0.3480
    Batch 17/248, train_loss: 0.9975, step time: 0.3831
    Batch 18/248, train_loss: 0.9869, step time: 0.3835
    Batch 19/248, train_loss: 0.3722, step time: 0.3834
    Batch 20/248, train_loss: 0.8651, step time: 0.3414
    Batch 21/248, train_loss: 0.6389, step time: 0.3449
    Batch 22/248, train_loss: 0.9999, step time: 0.3440
    Batch 23/248, train_loss: 0.9998, step time: 0.3770
    Batch 24/248, train_loss: 0.6906, step time: 0.3565
    Batch 25/248, train_loss: 0.1602, step time: 0.3561
    Batch 26/248, train_loss: 0.9902, step time: 0.3439
    Batch 27/248, train_loss: 0.2899, step time: 0.3794
    Batch 28/248, train_loss: 0.8784, step time: 0.3407
    Batch 29/248, train_loss: 0.9950, step time: 0.3715
    Batch 30/248, train_loss: 0.8959, step time: 0.3838
    Batch 31/248, train_loss: 0.9612, step time: 0.3794
    Batch 32/248, train_loss: 0.6308, step time: 0.3619
    Batch 33/248, train_loss: 0.2701, step time: 0.3436
    Batch 34/248, train_loss: 0.4111, step time: 0.3483
    Batch 35/248, train_loss: 0.6853, step time: 0.3401
    Batch 36/248, train_loss: 0.9997, step time: 0.3768
    Batch 37/248, train_loss: 0.7524, step time: 0.3425
    Batch 38/248, train_loss: 0.9472, step time: 0.3764
    Batch 39/248, train_loss: 0.7822, step time: 0.3429
    Batch 40/248, train_loss: 0.9993, step time: 0.3438
    Batch 41/248, train_loss: 0.5792, step time: 0.3453
    Batch 42/248, train_loss: 0.5572, step time: 0.3538
    Batch 43/248, train_loss: 0.3608, step time: 0.3415
    Batch 44/248, train_loss: 0.7864, step time: 0.3617
    Batch 45/248, train_loss: 0.9587, step time: 0.3455
    Batch 46/248, train_loss: 0.8039, step time: 0.3467
    Batch 47/248, train_loss: 0.8739, step time: 0.3428
    Batch 48/248, train_loss: 0.8111, step time: 0.3545
    Batch 49/248, train_loss: 0.9894, step time: 0.3747
    Batch 50/248, train_loss: 0.8913, step time: 0.3445
    Batch 51/248, train_loss: 0.8775, step time: 0.3692
    Batch 52/248, train_loss: 0.8067, step time: 0.3732
    Batch 53/248, train_loss: 0.9497, step time: 0.3731
    Batch 54/248, train_loss: 0.8634, step time: 0.3748
    Batch 55/248, train_loss: 0.9596, step time: 0.3667
    Batch 56/248, train_loss: 0.8858, step time: 0.3715
    Batch 57/248, train_loss: 0.8939, step time: 0.3870
    Batch 58/248, train_loss: 0.5945, step time: 0.3425
    Batch 59/248, train_loss: 0.6730, step time: 0.3718
    Batch 60/248, train_loss: 0.5731, step time: 0.3773
    Batch 61/248, train_loss: 0.6842, step time: 0.3555
    Batch 62/248, train_loss: 0.9656, step time: 0.3679
    Batch 63/248, train_loss: 0.9932, step time: 0.3658
    Batch 64/248, train_loss: 0.9907, step time: 0.3744
    Batch 65/248, train_loss: 0.8864, step time: 0.3628
    Batch 66/248, train_loss: 0.9036, step time: 0.3828
    Batch 67/248, train_loss: 0.2836, step time: 0.3473
    Batch 68/248, train_loss: 0.5163, step time: 0.3447
    Batch 69/248, train_loss: 0.9985, step time: 0.3461
    Batch 70/248, train_loss: 0.6110, step time: 0.3488
    total 71/248 train loss: 0.1995 step time: 0.3527
```

Batch 1/248, train_loss: 0.4003, step time: 0.3551
Batch 2/248, train_loss: 0.4801, step time: 0.3769
Batch 3/248, train_loss: 0.5546, step time: 0.3595
Batch 4/248, train_loss: 0.9998, step time: 0.3688
Batch 5/248, train_loss: 0.5823, step time: 0.3867
Batch 6/248, train_loss: 0.9943, step time: 0.3773
Batch 7/248, train_loss: 0.9997, step time: 0.3841
Batch 8/248, train_loss: 0.7688, step time: 0.3466
Batch 9/248, train_loss: 0.8700, step time: 0.3706
Batch 10/248, train_loss: 0.9232, step time: 0.3696
Batch 11/248, train_loss: 0.9457, step time: 0.3578
Batch 12/248, train_loss: 0.5699, step time: 0.3411
Batch 13/248, train_loss: 0.9926, step time: 0.3688
Batch 14/248, train_loss: 0.8747, step time: 0.3698
Batch 15/248, train_loss: 0.9982, step time: 0.3814
Batch 16/248, train_loss: 0.7187, step time: 0.3601
Batch 17/248, train_loss: 0.9928, step time: 0.3801
Batch 18/248, train_loss: 0.9816, step time: 0.3494
Batch 19/248, train_loss: 0.2348, step time: 0.3824
Batch 20/248, train_loss: 0.8846, step time: 0.3700
Batch 21/248, train_loss: 0.9932, step time: 0.3503
Batch 22/248, train_loss: 0.8543, step time: 0.3473
Batch 23/248, train_loss: 0.5320, step time: 0.3745
Batch 24/248, train_loss: 0.9943, step time: 0.3852
Batch 25/248, train_loss: 0.7550, step time: 0.3688
Batch 26/248, train_loss: 0.7193, step time: 0.3459
Batch 27/248, train_loss: 0.9998, step time: 0.3597
Batch 28/248, train_loss: 0.4866, step time: 0.3402
Batch 29/248, train_loss: 0.9792, step time: 0.3489
Batch 30/248, train_loss: 0.9969, step time: 0.3518
Batch 31/248, train_loss: 0.1526, step time: 0.3472
Batch 32/248, train_loss: 0.8194, step time: 0.3496
Batch 33/248, train_loss: 0.9915, step time: 0.3434
Batch 34/248, train_loss: 0.7554, step time: 0.3812
Batch 35/248, train_loss: 0.4201, step time: 0.3798
Batch 36/248, train_loss: 0.9029, step time: 0.3482
Batch 37/248, train_loss: 0.9791, step time: 0.3766
Batch 38/248, train_loss: 0.9866, step time: 0.3454
Batch 39/248, train_loss: 0.9978, step time: 0.3839
Batch 40/248, train_loss: 0.9292, step time: 0.3560
Batch 41/248, train_loss: 0.4579, step time: 0.3686
Batch 42/248, train_loss: 0.4937, step time: 0.3774
Batch 43/248, train_loss: 0.9999, step time: 0.3682
Batch 44/248, train_loss: 0.2862, step time: 0.3482
Batch 45/248, train_loss: 0.8020, step time: 0.3491
Batch 46/248, train_loss: 0.4001, step time: 0.3848
Batch 47/248, train_loss: 0.9961, step time: 0.3473
Batch 48/248, train_loss: 0.9807, step time: 0.3747
Batch 49/248, train_loss: 0.8384, step time: 0.3809
Batch 50/248, train_loss: 0.8566, step time: 0.3851
Batch 51/248, train_loss: 0.9612, step time: 0.3656
Batch 52/248, train_loss: 0.9761, step time: 0.3715
Batch 53/248, train_loss: 0.6126, step time: 0.3577
Batch 54/248, train_loss: 0.9763, step time: 0.3510
Batch 55/248, train_loss: 0.9960, step time: 0.3651
Batch 56/248, train_loss: 0.5712, step time: 0.3472
Batch 57/248, train_loss: 0.8337, step time: 0.3444
Batch 58/248, train_loss: 0.9306, step time: 0.3545
Batch 59/248, train_loss: 0.2932, step time: 0.3449
Batch 60/248, train_loss: 0.3190, step time: 0.3571
Batch 61/248, train_loss: 0.9749, step time: 0.3786
Batch 62/248, train_loss: 0.9889, step time: 0.3793
Batch 63/248, train_loss: 0.2443, step time: 0.3454
Batch 64/248, train_loss: 1.0000, step time: 0.3590
Batch 65/248, train_loss: 0.9896, step time: 0.3653
Batch 66/248, train_loss: 0.9076, step time: 0.3821
Batch 67/248, train_loss: 0.3347, step time: 0.3728
Batch 68/248, train_loss: 0.4109, step time: 0.3794
Batch 69/248, train_loss: 0.5018, step time: 0.3540
Batch 70/248, train_loss: 0.8996, step time: 0.3607
Batch 71/248, train_loss: 0.6135, step time: 0.3421
Batch 72/248, train_loss: 0.9959, step time: 0.3571
Batch 73/248, train_loss: 0.9099, step time: 0.3532
Batch 74/248, train_loss: 0.4630, step time: 0.3762
Batch 75/248, train_loss: 0.1709, step time: 0.3447
Batch 76/248, train_loss: 0.9994, step time: 0.3431
Batch 77/248, train_loss: 0.1350, step time: 0.3677
Batch 78/248, train_loss: 0.9915, step time: 0.3532
Batch 79/248, train_loss: 0.7939, step time: 0.3536
Batch 80/248, train_loss: 0.6863, step time: 0.3489
Batch 81/248, train_loss: 0.9791, step time: 0.3688
Batch 82/248, train_loss: 0.1446, step time: 0.3637
Batch 83/248, train_loss: 0.9727, step time: 0.3468
Batch 84/248, train_loss: 0.9934, step time: 0.3422
Batch 85/248, train_loss: 0.8185, step time: 0.3682

Batch 156/248, train_loss: 0.8465, step time: 0.3600
Batch 157/248, train_loss: 0.4993, step time: 0.3432
Batch 158/248, train_loss: 0.9995, step time: 0.3501
Batch 159/248, train_loss: 0.9984, step time: 0.3428
Batch 160/248, train_loss: 0.6092, step time: 0.3808
Batch 161/248, train_loss: 0.8120, step time: 0.3793
Batch 162/248, train_loss: 0.1734, step time: 0.3718
Batch 163/248, train_loss: 0.9828, step time: 0.3463
Batch 164/248, train_loss: 0.8481, step time: 0.3708
Batch 165/248, train_loss: 0.9996, step time: 0.3861
Batch 166/248, train_loss: 0.9584, step time: 0.3447
Batch 167/248, train_loss: 0.8480, step time: 0.3545
Batch 168/248, train_loss: 0.8277, step time: 0.3592
Batch 169/248, train_loss: 0.6291, step time: 0.3836
Batch 170/248, train_loss: 0.9927, step time: 0.3479
Batch 171/248, train_loss: 0.2213, step time: 0.3826
Batch 172/248, train_loss: 0.9994, step time: 0.3596
Batch 173/248, train_loss: 0.4428, step time: 0.3674
Batch 174/248, train_loss: 0.9999, step time: 0.3829
Batch 175/248, train_loss: 0.3059, step time: 0.3433
Batch 176/248, train_loss: 0.9044, step time: 0.3811
Batch 177/248, train_loss: 0.9995, step time: 0.3656
Batch 178/248, train_loss: 0.6253, step time: 0.3763
Batch 179/248, train_loss: 0.1747, step time: 0.3596
Batch 180/248, train_loss: 0.8180, step time: 0.3438
Batch 181/248, train_loss: 0.3384, step time: 0.3454
Batch 182/248, train_loss: 0.9714, step time: 0.3846
Batch 183/248, train_loss: 0.8277, step time: 0.3487
Batch 184/248, train_loss: 0.9639, step time: 0.3755
Batch 185/248, train_loss: 0.8187, step time: 0.3726
Batch 186/248, train_loss: 0.6409, step time: 0.3886
Batch 187/248, train_loss: 0.6443, step time: 0.3839
Batch 188/248, train_loss: 0.8393, step time: 0.3871
Batch 189/248, train_loss: 0.9996, step time: 0.3421
Batch 190/248, train_loss: 0.6860, step time: 0.3483
Batch 191/248, train_loss: 0.9979, step time: 0.3746
Batch 192/248, train_loss: 0.6508, step time: 0.3678
Batch 193/248, train_loss: 0.9075, step time: 0.3557
Batch 194/248, train_loss: 0.8936, step time: 0.3471
Batch 195/248, train_loss: 0.9996, step time: 0.3672
Batch 196/248, train_loss: 1.0000, step time: 0.3488
Batch 197/248, train_loss: 0.9466, step time: 0.3654
Batch 198/248, train_loss: 1.0000, step time: 0.3510
Batch 199/248, train_loss: 0.8563, step time: 0.3798
Batch 200/248, train_loss: 0.8087, step time: 0.3831
Batch 201/248, train_loss: 0.6206, step time: 0.3446
Batch 202/248, train_loss: 0.9118, step time: 0.3662
Batch 203/248, train_loss: 0.9935, step time: 0.3663
Batch 204/248, train_loss: 0.3178, step time: 0.3565
Batch 205/248, train_loss: 0.9707, step time: 0.3749
Batch 206/248, train_loss: 0.9976, step time: 0.3461
Batch 207/248, train_loss: 0.5371, step time: 0.3836
Batch 208/248, train_loss: 0.8143, step time: 0.3807
Batch 209/248, train_loss: 0.7354, step time: 0.3671
Batch 210/248, train_loss: 0.5261, step time: 0.3677
Batch 211/248, train_loss: 0.5233, step time: 0.3538
Batch 212/248, train_loss: 0.9315, step time: 0.3455
Batch 213/248, train_loss: 0.9062, step time: 0.3541
Batch 214/248, train_loss: 0.6878, step time: 0.3754
Batch 215/248, train_loss: 0.9375, step time: 0.3466
Batch 216/248, train_loss: 0.6064, step time: 0.3698
Batch 217/248, train_loss: 0.9712, step time: 0.3645
Batch 218/248, train_loss: 0.9979, step time: 0.3701
Batch 219/248, train_loss: 0.6882, step time: 0.3546
Batch 220/248, train_loss: 0.9422, step time: 0.3401
Batch 221/248, train_loss: 0.9380, step time: 0.3853
Batch 222/248, train_loss: 0.6147, step time: 0.3866
Batch 223/248, train_loss: 0.3054, step time: 0.3448
Batch 224/248, train_loss: 0.4862, step time: 0.3543
Batch 225/248, train_loss: 0.9939, step time: 0.3504
Batch 226/248, train_loss: 0.9723, step time: 0.3646
Batch 227/248, train_loss: 0.6961, step time: 0.3441
Batch 228/248, train_loss: 0.9282, step time: 0.3806
Batch 229/248, train_loss: 0.3059, step time: 0.3665
Batch 230/248, train_loss: 0.6924, step time: 0.3586
Batch 231/248, train_loss: 0.9993, step time: 0.3821
Batch 232/248, train_loss: 0.6805, step time: 0.3709
Batch 233/248, train_loss: 0.9999, step time: 0.3522
Batch 234/248, train_loss: 0.9927, step time: 0.3511
Batch 235/248, train_loss: 0.9886, step time: 0.3728
Batch 236/248, train_loss: 0.9994, step time: 0.3515
Batch 237/248, train_loss: 0.3738, step time: 0.3740
Batch 238/248, train_loss: 0.6187, step time: 0.3677
Batch 239/248, train_loss: 0.1587, step time: 0.3514
Batch 240/248, train_loss: 0.9076, step time: 0.3428

```
Batch 241/248, train_loss: 0.9999, step time: 0.3563  
Batch 242/248, train_loss: 0.9626, step time: 0.3707  
Batch 243/248, train_loss: 0.9986, step time: 0.3798  
Batch 244/248, train_loss: 0.9898, step time: 0.3728  
Batch 245/248, train_loss: 0.5639, step time: 0.3728  
Batch 246/248, train_loss: 0.9926, step time: 0.3715  
Batch 247/248, train_loss: 0.1886, step time: 0.3613  
Batch 248/248, train_loss: 1.0000, step time: 0.3465
```

Labels



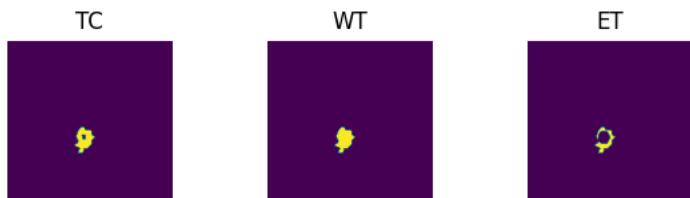
Predictions



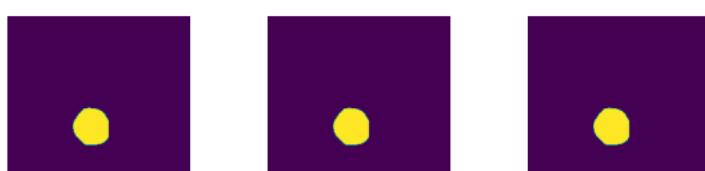
VAL

```
Batch 1/31, val_loss: 0.8963  
Batch 2/31, val_loss: 0.9999  
Batch 3/31, val_loss: 0.9903  
Batch 4/31, val_loss: 0.9841  
Batch 5/31, val_loss: 0.9998  
Batch 6/31, val_loss: 0.7383  
Batch 7/31, val_loss: 0.9201  
Batch 8/31, val_loss: 0.9854  
Batch 9/31, val_loss: 0.7638  
Batch 10/31, val_loss: 0.9844  
Batch 11/31, val_loss: 0.9289  
Batch 12/31, val_loss: 0.9773  
Batch 13/31, val_loss: 0.9951  
Batch 14/31, val_loss: 0.9769  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9976  
Batch 17/31, val_loss: 0.9994  
Batch 18/31, val_loss: 0.9773  
Batch 19/31, val_loss: 0.8429  
Batch 20/31, val_loss: 0.9472  
Batch 21/31, val_loss: 0.9762  
Batch 22/31, val_loss: 0.9966  
Batch 23/31, val_loss: 0.9975  
Batch 24/31, val_loss: 0.7691  
Batch 25/31, val_loss: 0.8859  
Batch 26/31, val_loss: 0.9838  
Batch 27/31, val_loss: 0.9994  
Batch 28/31, val_loss: 0.8903  
Batch 29/31, val_loss: 0.9998  
Batch 30/31, val_loss: 0.9966  
Batch 31/31, val_loss: 0.9971
```

Labels



Predictions



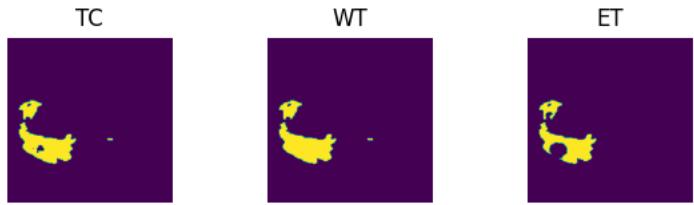
```
epoch 31
    average train loss: 0.7696
    average validation loss: 0.9483
    saved as best model: False
    current mean dice: 0.1874
    current TC dice: 0.1953
    current WT dice: 0.1981
    current ET dice: 0.1868
Best Mean Metric: 0.1927
time consuming of epoch 31 is: 1452.8651
-----
epoch 32/100
TRAIN
    Batch 1/248, train_loss: 0.3062, step time: 0.3524
    Batch 2/248, train_loss: 0.9996, step time: 0.3673
    Batch 3/248, train_loss: 0.9818, step time: 0.3511
    Batch 4/248, train_loss: 0.9993, step time: 0.3807
    Batch 5/248, train_loss: 0.9184, step time: 0.3533
    Batch 6/248, train_loss: 0.8917, step time: 0.3587
    Batch 7/248, train_loss: 0.1849, step time: 0.3871
    Batch 8/248, train_loss: 0.7988, step time: 0.3687
    Batch 9/248, train_loss: 0.2824, step time: 0.3635
    Batch 10/248, train_loss: 0.9605, step time: 0.3432
    Batch 11/248, train_loss: 0.9048, step time: 0.3817
    Batch 12/248, train_loss: 0.9965, step time: 0.3803
    Batch 13/248, train_loss: 0.9784, step time: 0.3424
    Batch 14/248, train_loss: 0.1289, step time: 0.3461
    Batch 15/248, train_loss: 0.9539, step time: 0.3721
    Batch 16/248, train_loss: 0.8861, step time: 0.3516
    Batch 17/248, train_loss: 0.9972, step time: 0.3429
    Batch 18/248, train_loss: 0.9901, step time: 0.3670
    Batch 19/248, train_loss: 0.3457, step time: 0.3729
    Batch 20/248, train_loss: 0.8574, step time: 0.3739
    Batch 21/248, train_loss: 0.6304, step time: 0.3468
    Batch 22/248, train_loss: 0.9999, step time: 0.3419
    Batch 23/248, train_loss: 0.9999, step time: 0.3825
    Batch 24/248, train_loss: 0.6780, step time: 0.3508
    Batch 25/248, train_loss: 0.1600, step time: 0.3797
    Batch 26/248, train_loss: 0.9919, step time: 0.3845
    Batch 27/248, train_loss: 0.2696, step time: 0.3776
    Batch 28/248, train_loss: 0.8698, step time: 0.3811
    Batch 29/248, train_loss: 0.9946, step time: 0.3522
    Batch 30/248, train_loss: 0.9807, step time: 0.3652
    Batch 31/248, train_loss: 0.9530, step time: 0.3673
    Batch 32/248, train_loss: 0.6104, step time: 0.3803
    Batch 33/248, train_loss: 0.2535, step time: 0.3800
    Batch 34/248, train_loss: 0.3890, step time: 0.3547
    Batch 35/248, train_loss: 0.6690, step time: 0.3434
    Batch 36/248, train_loss: 0.9998, step time: 0.3672
    Batch 37/248, train_loss: 0.7495, step time: 0.3468
    Batch 38/248, train_loss: 0.9442, step time: 0.3608
    Batch 39/248, train_loss: 0.8904, step time: 0.3461
    Batch 40/248, train_loss: 0.9993, step time: 0.3459
    Batch 41/248, train_loss: 0.5676, step time: 0.3838
    Batch 42/248, train_loss: 0.5351, step time: 0.3625
    Batch 43/248, train_loss: 0.3324, step time: 0.3783
    Batch 44/248, train_loss: 0.7531, step time: 0.3763
    Batch 45/248, train_loss: 0.9591, step time: 0.3521
    Batch 46/248, train_loss: 0.7888, step time: 0.3437
    Batch 47/248, train_loss: 0.8648, step time: 0.3800
    Batch 48/248, train_loss: 0.7943, step time: 0.3812
    Batch 49/248, train_loss: 0.9911, step time: 0.3456
    Batch 50/248, train_loss: 0.8851, step time: 0.3682
    Batch 51/248, train_loss: 0.8679, step time: 0.3570
    Batch 52/248, train_loss: 0.7951, step time: 0.3747
    Batch 53/248, train_loss: 0.9480, step time: 0.3847
    Batch 54/248, train_loss: 0.8592, step time: 0.3796
    Batch 55/248, train_loss: 0.9577, step time: 0.3543
    Batch 56/248, train_loss: 0.8791, step time: 0.3751
    Batch 57/248, train_loss: 0.8907, step time: 0.3639
    Batch 58/248, train_loss: 0.5732, step time: 0.3815
    Batch 59/248, train_loss: 0.6599, step time: 0.3421
    Batch 60/248, train_loss: 0.5533, step time: 0.3737
    Batch 61/248, train_loss: 0.6694, step time: 0.3875
    Batch 62/248, train_loss: 0.9641, step time: 0.3422
    Batch 63/248, train_loss: 0.9925, step time: 0.3735
    Batch 64/248, train_loss: 0.9906, step time: 0.3686
    Batch 65/248, train_loss: 0.8916, step time: 0.3422
    Batch 66/248, train_loss: 0.8971, step time: 0.3649
    Batch 67/248, train_loss: 0.2628, step time: 0.3452
    Batch 68/248, train_loss: 0.4939, step time: 0.3831
    Batch 69/248, train_loss: 0.9995, step time: 0.3571
    Batch 70/248, train_loss: 0.5888, step time: 0.3663
```

Batch 71/248, train_loss: 0.4876, step time: 0.3441
Batch 72/248, train_loss: 0.4565, step time: 0.3497
Batch 73/248, train_loss: 0.5555, step time: 0.3485
Batch 74/248, train_loss: 0.9999, step time: 0.3795
Batch 75/248, train_loss: 0.5744, step time: 0.3473
Batch 76/248, train_loss: 0.9946, step time: 0.3750
Batch 77/248, train_loss: 0.9998, step time: 0.3856
Batch 78/248, train_loss: 0.7574, step time: 0.3867
Batch 79/248, train_loss: 0.8698, step time: 0.3749
Batch 80/248, train_loss: 0.9315, step time: 0.3423
Batch 81/248, train_loss: 0.9454, step time: 0.3815
Batch 82/248, train_loss: 0.5530, step time: 0.3774
Batch 83/248, train_loss: 0.9950, step time: 0.3462
Batch 84/248, train_loss: 0.8729, step time: 0.3529
Batch 85/248, train_loss: 0.9966, step time: 0.3730
Batch 86/248, train_loss: 0.7225, step time: 0.3552
Batch 87/248, train_loss: 0.9927, step time: 0.3474
Batch 88/248, train_loss: 0.9832, step time: 0.3693
Batch 89/248, train_loss: 0.2329, step time: 0.3469
Batch 90/248, train_loss: 0.8859, step time: 0.3506
Batch 91/248, train_loss: 0.9933, step time: 0.3704
Batch 92/248, train_loss: 0.8828, step time: 0.3699
Batch 93/248, train_loss: 0.5140, step time: 0.3420
Batch 94/248, train_loss: 0.9939, step time: 0.3490
Batch 95/248, train_loss: 0.7455, step time: 0.3467
Batch 96/248, train_loss: 0.7043, step time: 0.3842
Batch 97/248, train_loss: 0.9999, step time: 0.3442
Batch 98/248, train_loss: 0.4789, step time: 0.3737
Batch 99/248, train_loss: 0.9798, step time: 0.3405
Batch 100/248, train_loss: 0.9960, step time: 0.3813
Batch 101/248, train_loss: 0.1418, step time: 0.3535
Batch 102/248, train_loss: 0.8081, step time: 0.3706
Batch 103/248, train_loss: 0.9909, step time: 0.3442
Batch 104/248, train_loss: 0.7419, step time: 0.3872
Batch 105/248, train_loss: 0.3969, step time: 0.3621
Batch 106/248, train_loss: 0.8934, step time: 0.3779
Batch 107/248, train_loss: 0.9785, step time: 0.3646
Batch 108/248, train_loss: 0.9881, step time: 0.3768
Batch 109/248, train_loss: 0.9963, step time: 0.3765
Batch 110/248, train_loss: 0.9625, step time: 0.3822
Batch 111/248, train_loss: 0.4249, step time: 0.3680
Batch 112/248, train_loss: 0.4504, step time: 0.3651
Batch 113/248, train_loss: 0.9999, step time: 0.3419
Batch 114/248, train_loss: 0.2721, step time: 0.3476
Batch 115/248, train_loss: 0.7931, step time: 0.3669
Batch 116/248, train_loss: 0.3800, step time: 0.3530
Batch 117/248, train_loss: 0.9951, step time: 0.3791
Batch 118/248, train_loss: 0.9882, step time: 0.3439
Batch 119/248, train_loss: 0.8264, step time: 0.3675
Batch 120/248, train_loss: 0.8496, step time: 0.3746
Batch 121/248, train_loss: 0.9593, step time: 0.3689
Batch 122/248, train_loss: 0.9729, step time: 0.3469
Batch 123/248, train_loss: 0.5885, step time: 0.3499
Batch 124/248, train_loss: 0.9745, step time: 0.3723
Batch 125/248, train_loss: 0.9957, step time: 0.3461
Batch 126/248, train_loss: 0.4998, step time: 0.3567
Batch 127/248, train_loss: 0.8310, step time: 0.3422
Batch 128/248, train_loss: 0.9226, step time: 0.3518
Batch 129/248, train_loss: 0.2932, step time: 0.3462
Batch 130/248, train_loss: 0.2861, step time: 0.3874
Batch 131/248, train_loss: 0.9726, step time: 0.3723
Batch 132/248, train_loss: 0.9813, step time: 0.3429
Batch 133/248, train_loss: 0.2627, step time: 0.3575
Batch 134/248, train_loss: 0.9999, step time: 0.3688
Batch 135/248, train_loss: 0.9879, step time: 0.3463
Batch 136/248, train_loss: 0.9019, step time: 0.3663
Batch 137/248, train_loss: 0.3336, step time: 0.3702
Batch 138/248, train_loss: 0.3803, step time: 0.3437
Batch 139/248, train_loss: 0.4853, step time: 0.3488
Batch 140/248, train_loss: 0.8907, step time: 0.3533
Batch 141/248, train_loss: 0.5955, step time: 0.3783
Batch 142/248, train_loss: 0.9974, step time: 0.3428
Batch 143/248, train_loss: 0.9095, step time: 0.3785
Batch 144/248, train_loss: 0.3946, step time: 0.3556
Batch 145/248, train_loss: 0.1532, step time: 0.3778
Batch 146/248, train_loss: 0.9993, step time: 0.3543
Batch 147/248, train_loss: 0.1284, step time: 0.3650
Batch 148/248, train_loss: 0.9846, step time: 0.3757
Batch 149/248, train_loss: 0.7835, step time: 0.3838
Batch 150/248, train_loss: 0.6905, step time: 0.3589
Batch 151/248, train_loss: 0.9752, step time: 0.3523
Batch 152/248, train_loss: 0.1303, step time: 0.3485
Batch 153/248, train_loss: 0.9656, step time: 0.3557
Batch 154/248, train_loss: 0.9925, step time: 0.3529
Batch 155/248, train_loss: 0.8026, step time: 0.3698

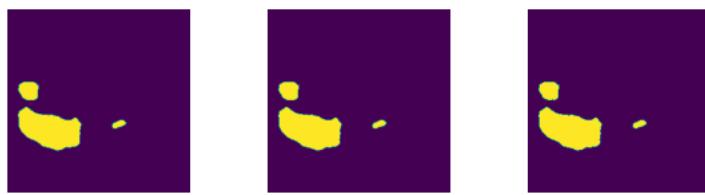
Batch 156/248, train_loss: 0.8233, step time: 0.3818
Batch 157/248, train_loss: 0.4776, step time: 0.3789
Batch 158/248, train_loss: 0.9997, step time: 0.3570
Batch 159/248, train_loss: 0.9988, step time: 0.3821
Batch 160/248, train_loss: 0.5845, step time: 0.3715
Batch 161/248, train_loss: 0.7965, step time: 0.3464
Batch 162/248, train_loss: 0.1500, step time: 0.3852
Batch 163/248, train_loss: 0.9814, step time: 0.3594
Batch 164/248, train_loss: 0.8233, step time: 0.3743
Batch 165/248, train_loss: 0.9995, step time: 0.3480
Batch 166/248, train_loss: 0.9555, step time: 0.3521
Batch 167/248, train_loss: 0.8362, step time: 0.3743
Batch 168/248, train_loss: 0.8146, step time: 0.3448
Batch 169/248, train_loss: 0.6157, step time: 0.3507
Batch 170/248, train_loss: 0.9929, step time: 0.3557
Batch 171/248, train_loss: 0.2068, step time: 0.3806
Batch 172/248, train_loss: 0.9994, step time: 0.3413
Batch 173/248, train_loss: 0.4140, step time: 0.3715
Batch 174/248, train_loss: 0.9999, step time: 0.3470
Batch 175/248, train_loss: 0.2473, step time: 0.3874
Batch 176/248, train_loss: 0.8951, step time: 0.3850
Batch 177/248, train_loss: 0.9995, step time: 0.3587
Batch 178/248, train_loss: 0.6079, step time: 0.3471
Batch 179/248, train_loss: 0.1625, step time: 0.3852
Batch 180/248, train_loss: 0.8077, step time: 0.3416
Batch 181/248, train_loss: 0.3215, step time: 0.3580
Batch 182/248, train_loss: 0.9671, step time: 0.3423
Batch 183/248, train_loss: 0.8104, step time: 0.3484
Batch 184/248, train_loss: 0.9653, step time: 0.3898
Batch 185/248, train_loss: 0.8075, step time: 0.3770
Batch 186/248, train_loss: 0.6227, step time: 0.3793
Batch 187/248, train_loss: 0.6259, step time: 0.3712
Batch 188/248, train_loss: 0.8264, step time: 0.3809
Batch 189/248, train_loss: 0.9997, step time: 0.3682
Batch 190/248, train_loss: 0.6682, step time: 0.3727
Batch 191/248, train_loss: 0.9978, step time: 0.3632
Batch 192/248, train_loss: 0.6258, step time: 0.3654
Batch 193/248, train_loss: 0.9042, step time: 0.3460
Batch 194/248, train_loss: 0.8831, step time: 0.3693
Batch 195/248, train_loss: 0.9993, step time: 0.3826
Batch 196/248, train_loss: 0.9999, step time: 0.3505
Batch 197/248, train_loss: 0.9412, step time: 0.3455
Batch 198/248, train_loss: 1.0000, step time: 0.3748
Batch 199/248, train_loss: 0.8384, step time: 0.3439
Batch 200/248, train_loss: 0.7927, step time: 0.3584
Batch 201/248, train_loss: 0.5947, step time: 0.3546
Batch 202/248, train_loss: 0.9022, step time: 0.3522
Batch 203/248, train_loss: 0.9956, step time: 0.3499
Batch 204/248, train_loss: 0.2916, step time: 0.3808
Batch 205/248, train_loss: 0.9655, step time: 0.3741
Batch 206/248, train_loss: 0.9974, step time: 0.3611
Batch 207/248, train_loss: 0.5124, step time: 0.3757
Batch 208/248, train_loss: 0.8023, step time: 0.3429
Batch 209/248, train_loss: 0.7192, step time: 0.3567
Batch 210/248, train_loss: 0.5039, step time: 0.3657
Batch 211/248, train_loss: 0.5022, step time: 0.3757
Batch 212/248, train_loss: 0.9207, step time: 0.3704
Batch 213/248, train_loss: 0.9026, step time: 0.3791
Batch 214/248, train_loss: 0.6753, step time: 0.3674
Batch 215/248, train_loss: 0.9342, step time: 0.3825
Batch 216/248, train_loss: 0.5763, step time: 0.3629
Batch 217/248, train_loss: 0.9687, step time: 0.3777
Batch 218/248, train_loss: 0.9980, step time: 0.3834
Batch 219/248, train_loss: 0.6858, step time: 0.3622
Batch 220/248, train_loss: 0.9416, step time: 0.3472
Batch 221/248, train_loss: 0.9355, step time: 0.3516
Batch 222/248, train_loss: 0.5904, step time: 0.3697
Batch 223/248, train_loss: 0.2763, step time: 0.3700
Batch 224/248, train_loss: 0.4648, step time: 0.3485
Batch 225/248, train_loss: 0.9943, step time: 0.3684
Batch 226/248, train_loss: 0.9678, step time: 0.3750
Batch 227/248, train_loss: 0.6678, step time: 0.3528
Batch 228/248, train_loss: 0.9261, step time: 0.3735
Batch 229/248, train_loss: 0.2851, step time: 0.3420
Batch 230/248, train_loss: 0.6800, step time: 0.3422
Batch 231/248, train_loss: 0.9936, step time: 0.3467
Batch 232/248, train_loss: 0.6645, step time: 0.3835
Batch 233/248, train_loss: 0.9998, step time: 0.3522
Batch 234/248, train_loss: 0.9947, step time: 0.3537
Batch 235/248, train_loss: 0.9912, step time: 0.3440
Batch 236/248, train_loss: 0.9992, step time: 0.3808
Batch 237/248, train_loss: 0.3617, step time: 0.3430
Batch 238/248, train_loss: 0.6147, step time: 0.3546
Batch 239/248, train_loss: 0.2042, step time: 0.3671
Batch 240/248, train_loss: 0.9080, step time: 0.3105

```
Batch 240/248, train_loss: 0.0000, step time: 0.3499  
Batch 241/248, train_loss: 0.9998, step time: 0.3499  
Batch 242/248, train_loss: 0.9582, step time: 0.3756  
Batch 243/248, train_loss: 0.9984, step time: 0.3685  
Batch 244/248, train_loss: 0.9900, step time: 0.3499  
Batch 245/248, train_loss: 0.5547, step time: 0.3494  
Batch 246/248, train_loss: 0.9939, step time: 0.3465  
Batch 247/248, train_loss: 0.2091, step time: 0.3579  
Batch 248/248, train_loss: 1.0000, step time: 0.3666
```

Labels



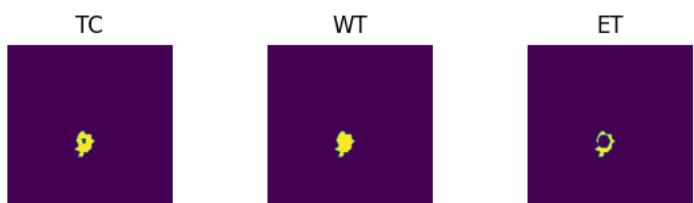
Predictions



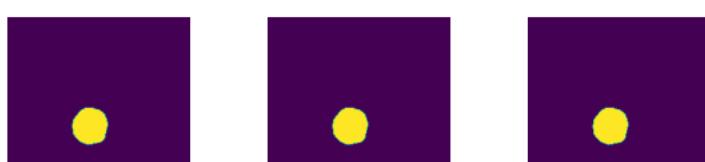
VAL

```
Batch 1/31, val_loss: 0.8945  
Batch 2/31, val_loss: 1.0000  
Batch 3/31, val_loss: 0.9895  
Batch 4/31, val_loss: 0.9827  
Batch 5/31, val_loss: 0.9998  
Batch 6/31, val_loss: 0.7324  
Batch 7/31, val_loss: 0.9212  
Batch 8/31, val_loss: 0.9847  
Batch 9/31, val_loss: 0.7701  
Batch 10/31, val_loss: 0.9852  
Batch 11/31, val_loss: 0.9309  
Batch 12/31, val_loss: 0.9777  
Batch 13/31, val_loss: 0.9938  
Batch 14/31, val_loss: 0.9775  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9974  
Batch 17/31, val_loss: 0.9994  
Batch 18/31, val_loss: 0.9765  
Batch 19/31, val_loss: 0.8383  
Batch 20/31, val_loss: 0.9461  
Batch 21/31, val_loss: 0.9754  
Batch 22/31, val_loss: 0.9969  
Batch 23/31, val_loss: 0.9982  
Batch 24/31, val_loss: 0.7615  
Batch 25/31, val_loss: 0.8876  
Batch 26/31, val_loss: 0.9833  
Batch 27/31, val_loss: 0.9993  
Batch 28/31, val_loss: 0.8862  
Batch 29/31, val_loss: 0.9998  
Batch 30/31, val_loss: 0.9975  
Batch 31/31, val_loss: 0.9971
```

Labels



Predictions



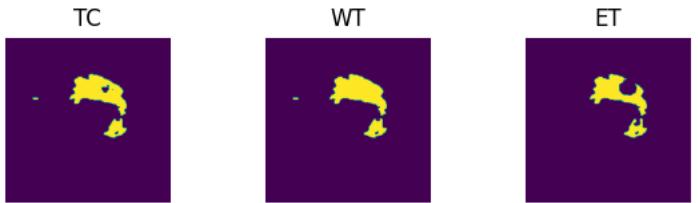
```
epoch 32
    average train loss: 0.7621
    average validation loss: 0.9478
    saved as best model: False
    current mean dice: 0.1841
    current TC dice: 0.1918
    current WT dice: 0.1947
    current ET dice: 0.1835
Best Mean Metric: 0.1927
time consuming of epoch 32 is: 1454.3833
-----
epoch 33/100
TRAIN
    Batch 1/248, train_loss: 0.3191, step time: 0.3659
    Batch 2/248, train_loss: 0.9998, step time: 0.3437
    Batch 3/248, train_loss: 0.9816, step time: 0.3738
    Batch 4/248, train_loss: 0.9994, step time: 0.3571
    Batch 5/248, train_loss: 0.9141, step time: 0.3662
    Batch 6/248, train_loss: 0.8953, step time: 0.3488
    Batch 7/248, train_loss: 0.1891, step time: 0.3749
    Batch 8/248, train_loss: 0.8015, step time: 0.3830
    Batch 9/248, train_loss: 0.2674, step time: 0.3786
    Batch 10/248, train_loss: 0.9584, step time: 0.3833
    Batch 11/248, train_loss: 0.9034, step time: 0.3661
    Batch 12/248, train_loss: 0.9971, step time: 0.3686
    Batch 13/248, train_loss: 0.9802, step time: 0.3672
    Batch 14/248, train_loss: 0.1260, step time: 0.3672
    Batch 15/248, train_loss: 0.9523, step time: 0.3495
    Batch 16/248, train_loss: 0.8906, step time: 0.3776
    Batch 17/248, train_loss: 0.9969, step time: 0.3479
    Batch 18/248, train_loss: 0.9904, step time: 0.3804
    Batch 19/248, train_loss: 0.3432, step time: 0.3780
    Batch 20/248, train_loss: 0.8535, step time: 0.3770
    Batch 21/248, train_loss: 0.6166, step time: 0.3565
    Batch 22/248, train_loss: 0.9998, step time: 0.3487
    Batch 23/248, train_loss: 0.9998, step time: 0.3810
    Batch 24/248, train_loss: 0.6655, step time: 0.3846
    Batch 25/248, train_loss: 0.1624, step time: 0.3466
    Batch 26/248, train_loss: 0.9932, step time: 0.3536
    Batch 27/248, train_loss: 0.2568, step time: 0.3825
    Batch 28/248, train_loss: 0.8569, step time: 0.3830
    Batch 29/248, train_loss: 0.9942, step time: 0.3845
    Batch 30/248, train_loss: 0.8857, step time: 0.3823
    Batch 31/248, train_loss: 0.9524, step time: 0.3767
    Batch 32/248, train_loss: 0.5991, step time: 0.3822
    Batch 33/248, train_loss: 0.2354, step time: 0.3421
    Batch 34/248, train_loss: 0.3676, step time: 0.3808
    Batch 35/248, train_loss: 0.6542, step time: 0.3468
    Batch 36/248, train_loss: 0.9997, step time: 0.3417
    Batch 37/248, train_loss: 0.7406, step time: 0.3423
    Batch 38/248, train_loss: 0.9387, step time: 0.3737
    Batch 39/248, train_loss: 0.7834, step time: 0.3476
    Batch 40/248, train_loss: 0.9993, step time: 0.3627
    Batch 41/248, train_loss: 0.5525, step time: 0.3668
    Batch 42/248, train_loss: 0.5139, step time: 0.3695
    Batch 43/248, train_loss: 0.3047, step time: 0.3738
    Batch 44/248, train_loss: 0.7617, step time: 0.3710
    Batch 45/248, train_loss: 0.9383, step time: 0.3824
    Batch 46/248, train_loss: 0.7776, step time: 0.3807
    Batch 47/248, train_loss: 0.8606, step time: 0.3741
    Batch 48/248, train_loss: 0.7866, step time: 0.3533
    Batch 49/248, train_loss: 0.9884, step time: 0.3668
    Batch 50/248, train_loss: 0.8787, step time: 0.3472
    Batch 51/248, train_loss: 0.8586, step time: 0.3601
    Batch 52/248, train_loss: 0.7853, step time: 0.3776
    Batch 53/248, train_loss: 0.9473, step time: 0.3714
    Batch 54/248, train_loss: 0.8559, step time: 0.3470
    Batch 55/248, train_loss: 0.9543, step time: 0.3758
    Batch 56/248, train_loss: 0.8797, step time: 0.3845
    Batch 57/248, train_loss: 0.8901, step time: 0.3603
    Batch 58/248, train_loss: 0.5546, step time: 0.3407
    Batch 59/248, train_loss: 0.6460, step time: 0.3745
    Batch 60/248, train_loss: 0.5353, step time: 0.3868
    Batch 61/248, train_loss: 0.6526, step time: 0.3443
    Batch 62/248, train_loss: 0.9630, step time: 0.3814
    Batch 63/248, train_loss: 0.9920, step time: 0.3536
    Batch 64/248, train_loss: 0.9921, step time: 0.3435
    Batch 65/248, train_loss: 0.8790, step time: 0.3738
    Batch 66/248, train_loss: 0.8839, step time: 0.3418
    Batch 67/248, train_loss: 0.2501, step time: 0.3829
    Batch 68/248, train_loss: 0.4804, step time: 0.3693
    Batch 69/248, train_loss: 0.9996, step time: 0.3450
    Batch 70/248, train_loss: 0.5617, step time: 0.3434
```

Batch 71/248, train_loss: 0.4727, step time: 0.3419
Batch 72/248, train_loss: 0.4347, step time: 0.3749
Batch 73/248, train_loss: 0.5400, step time: 0.3445
Batch 74/248, train_loss: 0.9997, step time: 0.3503
Batch 75/248, train_loss: 0.5461, step time: 0.3487
Batch 76/248, train_loss: 0.9925, step time: 0.3611
Batch 77/248, train_loss: 0.9997, step time: 0.3653
Batch 78/248, train_loss: 0.7444, step time: 0.3457
Batch 79/248, train_loss: 0.8488, step time: 0.3646
Batch 80/248, train_loss: 0.9188, step time: 0.3520
Batch 81/248, train_loss: 0.9424, step time: 0.3843
Batch 82/248, train_loss: 0.5312, step time: 0.3746
Batch 83/248, train_loss: 0.9939, step time: 0.3498
Batch 84/248, train_loss: 0.8681, step time: 0.3812
Batch 85/248, train_loss: 0.9972, step time: 0.3804
Batch 86/248, train_loss: 0.7200, step time: 0.3453
Batch 87/248, train_loss: 0.9936, step time: 0.3514
Batch 88/248, train_loss: 0.9820, step time: 0.3461
Batch 89/248, train_loss: 0.2197, step time: 0.3633
Batch 90/248, train_loss: 0.8801, step time: 0.3857
Batch 91/248, train_loss: 0.9931, step time: 0.3640
Batch 92/248, train_loss: 0.8693, step time: 0.3847
Batch 93/248, train_loss: 0.4972, step time: 0.3660
Batch 94/248, train_loss: 0.9931, step time: 0.3461
Batch 95/248, train_loss: 0.7310, step time: 0.3870
Batch 96/248, train_loss: 0.6884, step time: 0.3798
Batch 97/248, train_loss: 0.9999, step time: 0.3626
Batch 98/248, train_loss: 0.4424, step time: 0.3429
Batch 99/248, train_loss: 0.9792, step time: 0.3834
Batch 100/248, train_loss: 0.9962, step time: 0.3730
Batch 101/248, train_loss: 0.1294, step time: 0.3743
Batch 102/248, train_loss: 0.8037, step time: 0.3730
Batch 103/248, train_loss: 0.9904, step time: 0.3650
Batch 104/248, train_loss: 0.7306, step time: 0.3459
Batch 105/248, train_loss: 0.3768, step time: 0.3825
Batch 106/248, train_loss: 0.8841, step time: 0.3839
Batch 107/248, train_loss: 0.9760, step time: 0.3607
Batch 108/248, train_loss: 0.9862, step time: 0.3546
Batch 109/248, train_loss: 0.9991, step time: 0.3502
Batch 110/248, train_loss: 0.9217, step time: 0.3460
Batch 111/248, train_loss: 0.4025, step time: 0.3434
Batch 112/248, train_loss: 0.4438, step time: 0.3551
Batch 113/248, train_loss: 0.9999, step time: 0.3417
Batch 114/248, train_loss: 0.2706, step time: 0.3753
Batch 115/248, train_loss: 0.7826, step time: 0.3488
Batch 116/248, train_loss: 0.3619, step time: 0.3641
Batch 117/248, train_loss: 0.9954, step time: 0.3832
Batch 118/248, train_loss: 0.9918, step time: 0.3719
Batch 119/248, train_loss: 0.8206, step time: 0.3796
Batch 120/248, train_loss: 0.8273, step time: 0.3911
Batch 121/248, train_loss: 0.9555, step time: 0.3520
Batch 122/248, train_loss: 0.9729, step time: 0.3853
Batch 123/248, train_loss: 0.5649, step time: 0.3446
Batch 124/248, train_loss: 0.9748, step time: 0.3768
Batch 125/248, train_loss: 0.9939, step time: 0.3590
Batch 126/248, train_loss: 0.5474, step time: 0.3602
Batch 127/248, train_loss: 0.8138, step time: 0.3467
Batch 128/248, train_loss: 0.9195, step time: 0.3728
Batch 129/248, train_loss: 0.2599, step time: 0.3493
Batch 130/248, train_loss: 0.2837, step time: 0.3463
Batch 131/248, train_loss: 0.9702, step time: 0.3889
Batch 132/248, train_loss: 0.9801, step time: 0.3678
Batch 133/248, train_loss: 0.2358, step time: 0.3635
Batch 134/248, train_loss: 1.0000, step time: 0.3763
Batch 135/248, train_loss: 0.9870, step time: 0.3467
Batch 136/248, train_loss: 0.8970, step time: 0.3573
Batch 137/248, train_loss: 0.3139, step time: 0.3833
Batch 138/248, train_loss: 0.3570, step time: 0.3592
Batch 139/248, train_loss: 0.4626, step time: 0.3484
Batch 140/248, train_loss: 0.8891, step time: 0.3909
Batch 141/248, train_loss: 0.5614, step time: 0.3843
Batch 142/248, train_loss: 0.9954, step time: 0.3466
Batch 143/248, train_loss: 0.9032, step time: 0.3630
Batch 144/248, train_loss: 0.3826, step time: 0.3599
Batch 145/248, train_loss: 0.1499, step time: 0.3729
Batch 146/248, train_loss: 0.9992, step time: 0.3490
Batch 147/248, train_loss: 0.1326, step time: 0.3542
Batch 148/248, train_loss: 0.9841, step time: 0.3427
Batch 149/248, train_loss: 0.7678, step time: 0.3441
Batch 150/248, train_loss: 0.6682, step time: 0.3829
Batch 151/248, train_loss: 0.9743, step time: 0.3811
Batch 152/248, train_loss: 0.1265, step time: 0.3691
Batch 153/248, train_loss: 0.9645, step time: 0.3450
Batch 154/248, train_loss: 0.9920, step time: 0.3710
Batch 155/248, train_loss: 0.7882, step time: 0.3707

Batch 154/248, train_loss: 0.7991, step time: 0.3559
Batch 155/248, train_loss: 0.7993, step time: 0.3559
Batch 156/248, train_loss: 0.7935, step time: 0.3860
Batch 157/248, train_loss: 0.4738, step time: 0.3682
Batch 158/248, train_loss: 0.9994, step time: 0.3523
Batch 159/248, train_loss: 0.9980, step time: 0.3732
Batch 160/248, train_loss: 0.5628, step time: 0.3426
Batch 161/248, train_loss: 0.7922, step time: 0.3630
Batch 162/248, train_loss: 0.1518, step time: 0.3608
Batch 163/248, train_loss: 0.9805, step time: 0.3462
Batch 164/248, train_loss: 0.8145, step time: 0.3842
Batch 165/248, train_loss: 0.9992, step time: 0.3894
Batch 166/248, train_loss: 0.9532, step time: 0.3612
Batch 167/248, train_loss: 0.8294, step time: 0.3516
Batch 168/248, train_loss: 0.8111, step time: 0.3668
Batch 169/248, train_loss: 0.5949, step time: 0.3687
Batch 170/248, train_loss: 0.9914, step time: 0.3545
Batch 171/248, train_loss: 0.1930, step time: 0.3600
Batch 172/248, train_loss: 0.9994, step time: 0.3480
Batch 173/248, train_loss: 0.3737, step time: 0.3586
Batch 174/248, train_loss: 0.9961, step time: 0.3650
Batch 175/248, train_loss: 0.2686, step time: 0.3717
Batch 176/248, train_loss: 0.8911, step time: 0.3636
Batch 177/248, train_loss: 0.9995, step time: 0.3417
Batch 178/248, train_loss: 0.6005, step time: 0.3515
Batch 179/248, train_loss: 0.1599, step time: 0.3409
Batch 180/248, train_loss: 0.8031, step time: 0.3823
Batch 181/248, train_loss: 0.2956, step time: 0.3440
Batch 182/248, train_loss: 0.9664, step time: 0.3454
Batch 183/248, train_loss: 0.8017, step time: 0.3827
Batch 184/248, train_loss: 0.9582, step time: 0.3864
Batch 185/248, train_loss: 0.7990, step time: 0.3512
Batch 186/248, train_loss: 0.6051, step time: 0.3418
Batch 187/248, train_loss: 0.6090, step time: 0.3765
Batch 188/248, train_loss: 0.8198, step time: 0.3572
Batch 189/248, train_loss: 0.9996, step time: 0.3868
Batch 190/248, train_loss: 0.6518, step time: 0.3622
Batch 191/248, train_loss: 0.9984, step time: 0.3460
Batch 192/248, train_loss: 0.6115, step time: 0.3851
Batch 193/248, train_loss: 0.8995, step time: 0.3467
Batch 194/248, train_loss: 0.8779, step time: 0.3417
Batch 195/248, train_loss: 0.9974, step time: 0.3755
Batch 196/248, train_loss: 0.9999, step time: 0.3671
Batch 197/248, train_loss: 0.9371, step time: 0.3552
Batch 198/248, train_loss: 1.0000, step time: 0.3839
Batch 199/248, train_loss: 0.8332, step time: 0.3517
Batch 200/248, train_loss: 0.7816, step time: 0.3473
Batch 201/248, train_loss: 0.5848, step time: 0.3842
Batch 202/248, train_loss: 0.8985, step time: 0.3537
Batch 203/248, train_loss: 0.9932, step time: 0.3607
Batch 204/248, train_loss: 0.2759, step time: 0.3847
Batch 205/248, train_loss: 0.9626, step time: 0.3456
Batch 206/248, train_loss: 0.9979, step time: 0.3809
Batch 207/248, train_loss: 0.5012, step time: 0.3422
Batch 208/248, train_loss: 0.7946, step time: 0.3786
Batch 209/248, train_loss: 0.7043, step time: 0.3468
Batch 210/248, train_loss: 0.4810, step time: 0.3420
Batch 211/248, train_loss: 0.4839, step time: 0.3681
Batch 212/248, train_loss: 0.9155, step time: 0.3840
Batch 213/248, train_loss: 0.8937, step time: 0.3462
Batch 214/248, train_loss: 0.6554, step time: 0.3869
Batch 215/248, train_loss: 0.9273, step time: 0.3731
Batch 216/248, train_loss: 0.5576, step time: 0.3844
Batch 217/248, train_loss: 0.9676, step time: 0.3731
Batch 218/248, train_loss: 0.9973, step time: 0.3691
Batch 219/248, train_loss: 0.6545, step time: 0.3632
Batch 220/248, train_loss: 0.9335, step time: 0.3453
Batch 221/248, train_loss: 0.9213, step time: 0.3436
Batch 222/248, train_loss: 0.5627, step time: 0.3471
Batch 223/248, train_loss: 0.2512, step time: 0.3706
Batch 224/248, train_loss: 0.4411, step time: 0.3701
Batch 225/248, train_loss: 0.9929, step time: 0.3852
Batch 226/248, train_loss: 0.9654, step time: 0.3409
Batch 227/248, train_loss: 0.6552, step time: 0.3525
Batch 228/248, train_loss: 0.9178, step time: 0.3804
Batch 229/248, train_loss: 0.2574, step time: 0.3859
Batch 230/248, train_loss: 0.6604, step time: 0.3708
Batch 231/248, train_loss: 0.9919, step time: 0.3790
Batch 232/248, train_loss: 0.6589, step time: 0.3478
Batch 233/248, train_loss: 0.9999, step time: 0.3445
Batch 234/248, train_loss: 0.9935, step time: 0.3411
Batch 235/248, train_loss: 0.9933, step time: 0.3761
Batch 236/248, train_loss: 0.9993, step time: 0.3679
Batch 237/248, train_loss: 0.3387, step time: 0.3514
Batch 238/248, train_loss: 0.5818, step time: 0.3536
Batch 239/248, train_loss: 0.1697, step time: 0.3559

```
Batch 240/248, train_loss: 0.8881, step time: 0.3465  
Batch 241/248, train_loss: 0.9999, step time: 0.3454  
Batch 242/248, train_loss: 0.9590, step time: 0.3656  
Batch 243/248, train_loss: 0.9984, step time: 0.3500  
Batch 244/248, train_loss: 0.9879, step time: 0.3537  
Batch 245/248, train_loss: 0.5253, step time: 0.3659  
Batch 246/248, train_loss: 0.9890, step time: 0.3802  
Batch 247/248, train_loss: 0.1694, step time: 0.3833  
Batch 248/248, train_loss: 1.0000, step time: 0.3802
```

Labels



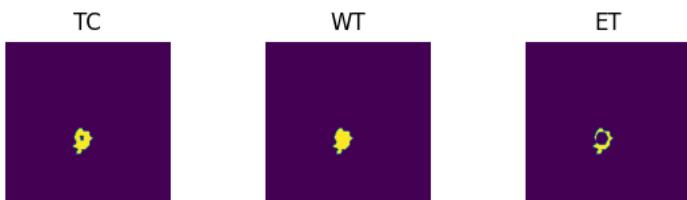
Predictions



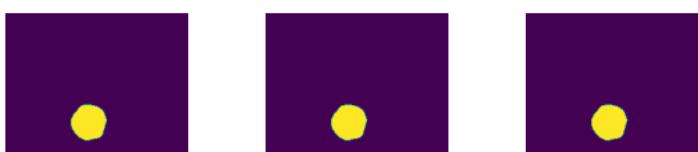
VAL

```
Batch 1/31, val_loss: 0.8962  
Batch 2/31, val_loss: 0.9999  
Batch 3/31, val_loss: 0.9907  
Batch 4/31, val_loss: 0.9893  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7274  
Batch 7/31, val_loss: 0.9136  
Batch 8/31, val_loss: 0.9880  
Batch 9/31, val_loss: 0.7560  
Batch 10/31, val_loss: 0.9892  
Batch 11/31, val_loss: 0.9247  
Batch 12/31, val_loss: 0.9789  
Batch 13/31, val_loss: 0.9942  
Batch 14/31, val_loss: 0.9755  
Batch 15/31, val_loss: 1.0000  
Batch 16/31, val_loss: 0.9967  
Batch 17/31, val_loss: 0.9996  
Batch 18/31, val_loss: 0.9777  
Batch 19/31, val_loss: 0.8305  
Batch 20/31, val_loss: 0.9389  
Batch 21/31, val_loss: 0.9659  
Batch 22/31, val_loss: 0.9963  
Batch 23/31, val_loss: 0.9981  
Batch 24/31, val_loss: 0.7641  
Batch 25/31, val_loss: 0.8795  
Batch 26/31, val_loss: 0.9824  
Batch 27/31, val_loss: 0.9992  
Batch 28/31, val_loss: 0.8771  
Batch 29/31, val_loss: 0.9997  
Batch 30/31, val_loss: 0.9974  
Batch 31/31, val_loss: 0.9969
```

Labels



Predictions



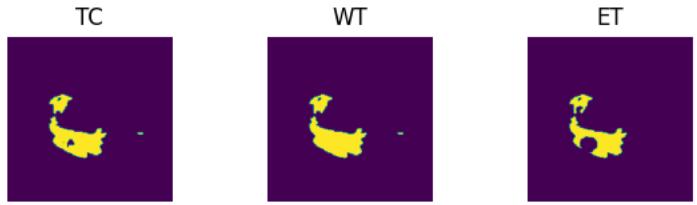
```
epoch 33
    average train loss: 0.7532
    average validation loss: 0.9459
    saved as best model: True
    current mean dice: 0.1996
    current TC dice: 0.2080
    current WT dice: 0.2113
    current ET dice: 0.1987
Best Mean Metric: 0.1996
time consuming of epoch 33 is: 1470.1399
-----
epoch 34/100
TRAIN
    Batch 1/248, train_loss: 0.2760, step time: 0.3776
    Batch 2/248, train_loss: 0.9990, step time: 0.3427
    Batch 3/248, train_loss: 0.9790, step time: 0.3782
    Batch 4/248, train_loss: 0.9992, step time: 0.3546
    Batch 5/248, train_loss: 0.9065, step time: 0.3420
    Batch 6/248, train_loss: 0.8852, step time: 0.3845
    Batch 7/248, train_loss: 0.1651, step time: 0.3853
    Batch 8/248, train_loss: 0.7920, step time: 0.3771
    Batch 9/248, train_loss: 0.2368, step time: 0.3545
    Batch 10/248, train_loss: 0.9612, step time: 0.3845
    Batch 11/248, train_loss: 0.8970, step time: 0.3455
    Batch 12/248, train_loss: 0.9969, step time: 0.3448
    Batch 13/248, train_loss: 0.9840, step time: 0.3845
    Batch 14/248, train_loss: 0.1175, step time: 0.3827
    Batch 15/248, train_loss: 0.9533, step time: 0.3477
    Batch 16/248, train_loss: 0.8699, step time: 0.3841
    Batch 17/248, train_loss: 0.9949, step time: 0.3574
    Batch 18/248, train_loss: 0.9849, step time: 0.3749
    Batch 19/248, train_loss: 0.3174, step time: 0.3429
    Batch 20/248, train_loss: 0.8471, step time: 0.3669
    Batch 21/248, train_loss: 0.5765, step time: 0.3805
    Batch 22/248, train_loss: 0.9999, step time: 0.3746
    Batch 23/248, train_loss: 0.9997, step time: 0.3617
    Batch 24/248, train_loss: 0.6428, step time: 0.3824
    Batch 25/248, train_loss: 0.1520, step time: 0.3413
    Batch 26/248, train_loss: 0.9951, step time: 0.3682
    Batch 27/248, train_loss: 0.2399, step time: 0.3674
    Batch 28/248, train_loss: 0.8488, step time: 0.3856
    Batch 29/248, train_loss: 0.9944, step time: 0.3797
    Batch 30/248, train_loss: 0.8814, step time: 0.3760
    Batch 31/248, train_loss: 0.9555, step time: 0.3682
    Batch 32/248, train_loss: 0.5769, step time: 0.3862
    Batch 33/248, train_loss: 0.2147, step time: 0.3488
    Batch 34/248, train_loss: 0.3373, step time: 0.3420
    Batch 35/248, train_loss: 0.6362, step time: 0.3878
    Batch 36/248, train_loss: 0.9997, step time: 0.3627
    Batch 37/248, train_loss: 0.7223, step time: 0.3429
    Batch 38/248, train_loss: 0.9328, step time: 0.3472
    Batch 39/248, train_loss: 0.7486, step time: 0.3872
    Batch 40/248, train_loss: 0.9992, step time: 0.3859
    Batch 41/248, train_loss: 0.5466, step time: 0.3646
    Batch 42/248, train_loss: 0.4888, step time: 0.3856
    Batch 43/248, train_loss: 0.2903, step time: 0.3714
    Batch 44/248, train_loss: 0.8433, step time: 0.3613
    Batch 45/248, train_loss: 0.9337, step time: 0.3684
    Batch 46/248, train_loss: 0.7671, step time: 0.3493
    Batch 47/248, train_loss: 0.8463, step time: 0.3518
    Batch 48/248, train_loss: 0.7797, step time: 0.3696
    Batch 49/248, train_loss: 0.9871, step time: 0.3852
    Batch 50/248, train_loss: 0.8718, step time: 0.3450
    Batch 51/248, train_loss: 0.8496, step time: 0.3762
    Batch 52/248, train_loss: 0.7764, step time: 0.3729
    Batch 53/248, train_loss: 0.9431, step time: 0.3558
    Batch 54/248, train_loss: 0.8442, step time: 0.3452
    Batch 55/248, train_loss: 0.9502, step time: 0.3563
    Batch 56/248, train_loss: 0.8698, step time: 0.3547
    Batch 57/248, train_loss: 0.8822, step time: 0.3689
    Batch 58/248, train_loss: 0.5411, step time: 0.3536
    Batch 59/248, train_loss: 0.6322, step time: 0.3693
    Batch 60/248, train_loss: 0.5090, step time: 0.3673
    Batch 61/248, train_loss: 0.6373, step time: 0.3466
    Batch 62/248, train_loss: 0.9596, step time: 0.3419
    Batch 63/248, train_loss: 0.9925, step time: 0.3788
    Batch 64/248, train_loss: 0.9895, step time: 0.3747
    Batch 65/248, train_loss: 0.8676, step time: 0.3444
    Batch 66/248, train_loss: 0.8889, step time: 0.3727
    Batch 67/248, train_loss: 0.2461, step time: 0.3730
    Batch 68/248, train_loss: 0.4530, step time: 0.3595
    Batch 69/248, train_loss: 0.9997, step time: 0.3600
```

```
Batch 0/248, train_loss: 0.5473, step time: 0.3752
Batch 1/248, train_loss: 0.4423, step time: 0.3472
Batch 2/248, train_loss: 0.4124, step time: 0.3578
Batch 3/248, train_loss: 0.5057, step time: 0.3471
Batch 4/248, train_loss: 0.9988, step time: 0.3735
Batch 5/248, train_loss: 0.5200, step time: 0.3422
Batch 6/248, train_loss: 0.9934, step time: 0.3784
Batch 7/248, train_loss: 0.9994, step time: 0.3791
Batch 8/248, train_loss: 0.7337, step time: 0.3547
Batch 9/248, train_loss: 0.8436, step time: 0.3509
Batch 10/248, train_loss: 0.9174, step time: 0.3866
Batch 11/248, train_loss: 0.9394, step time: 0.3433
Batch 12/248, train_loss: 0.5094, step time: 0.3840
Batch 13/248, train_loss: 0.9917, step time: 0.3609
Batch 14/248, train_loss: 0.8553, step time: 0.3825
Batch 15/248, train_loss: 0.9944, step time: 0.3539
Batch 16/248, train_loss: 0.7196, step time: 0.3624
Batch 17/248, train_loss: 0.9895, step time: 0.3815
Batch 18/248, train_loss: 0.9808, step time: 0.3467
Batch 19/248, train_loss: 0.2033, step time: 0.3676
Batch 20/248, train_loss: 0.8679, step time: 0.3468
Batch 21/248, train_loss: 0.9922, step time: 0.3729
Batch 22/248, train_loss: 0.8765, step time: 0.3646
Batch 23/248, train_loss: 0.4832, step time: 0.3442
Batch 24/248, train_loss: 0.9931, step time: 0.3654
Batch 25/248, train_loss: 0.7201, step time: 0.3449
Batch 26/248, train_loss: 0.6765, step time: 0.3847
Batch 27/248, train_loss: 0.9999, step time: 0.3850
Batch 28/248, train_loss: 0.4242, step time: 0.3805
Batch 29/248, train_loss: 0.9756, step time: 0.3816
Batch 30/248, train_loss: 0.9949, step time: 0.3750
Batch 31/248, train_loss: 0.1302, step time: 0.3874
Batch 32/248, train_loss: 0.7846, step time: 0.3854
Batch 33/248, train_loss: 0.9899, step time: 0.3501
Batch 34/248, train_loss: 0.7165, step time: 0.3452
Batch 35/248, train_loss: 0.3648, step time: 0.3862
Batch 36/248, train_loss: 0.8839, step time: 0.3502
Batch 37/248, train_loss: 0.9746, step time: 0.3794
Batch 38/248, train_loss: 0.9863, step time: 0.3447
Batch 39/248, train_loss: 0.9973, step time: 0.3590
Batch 40/248, train_loss: 0.9168, step time: 0.3593
Batch 41/248, train_loss: 0.3847, step time: 0.3849
Batch 42/248, train_loss: 0.4065, step time: 0.3434
Batch 43/248, train_loss: 0.9999, step time: 0.3521
Batch 44/248, train_loss: 0.2689, step time: 0.3507
Batch 45/248, train_loss: 0.7786, step time: 0.3770
Batch 46/248, train_loss: 0.3357, step time: 0.3660
Batch 47/248, train_loss: 0.9946, step time: 0.3407
Batch 48/248, train_loss: 0.9796, step time: 0.3485
Batch 49/248, train_loss: 0.8337, step time: 0.3750
Batch 50/248, train_loss: 0.8199, step time: 0.3867
Batch 51/248, train_loss: 0.9538, step time: 0.3802
Batch 52/248, train_loss: 0.9686, step time: 0.3524
Batch 53/248, train_loss: 0.5475, step time: 0.3762
Batch 54/248, train_loss: 0.9737, step time: 0.3712
Batch 55/248, train_loss: 0.9956, step time: 0.3464
Batch 56/248, train_loss: 0.5228, step time: 0.3421
Batch 57/248, train_loss: 0.8053, step time: 0.3836
Batch 58/248, train_loss: 0.9175, step time: 0.3802
Batch 59/248, train_loss: 0.2641, step time: 0.3409
Batch 60/248, train_loss: 0.2788, step time: 0.3517
Batch 61/248, train_loss: 0.9702, step time: 0.3557
Batch 62/248, train_loss: 0.9786, step time: 0.3487
Batch 63/248, train_loss: 0.2640, step time: 0.3455
Batch 64/248, train_loss: 0.9999, step time: 0.3539
Batch 65/248, train_loss: 0.9855, step time: 0.3446
Batch 66/248, train_loss: 0.8947, step time: 0.3583
Batch 67/248, train_loss: 0.2981, step time: 0.3756
Batch 68/248, train_loss: 0.3367, step time: 0.3836
Batch 69/248, train_loss: 0.4665, step time: 0.3855
Batch 70/248, train_loss: 0.8813, step time: 0.3721
Batch 71/248, train_loss: 0.5663, step time: 0.3436
Batch 72/248, train_loss: 0.9955, step time: 0.3706
Batch 73/248, train_loss: 0.8984, step time: 0.3412
Batch 74/248, train_loss: 0.3580, step time: 0.3592
Batch 75/248, train_loss: 0.1329, step time: 0.3826
Batch 76/248, train_loss: 0.9993, step time: 0.3628
Batch 77/248, train_loss: 0.1165, step time: 0.3809
Batch 78/248, train_loss: 0.9818, step time: 0.3754
Batch 79/248, train_loss: 0.7612, step time: 0.3697
Batch 80/248, train_loss: 0.6294, step time: 0.3778
Batch 81/248, train_loss: 0.9719, step time: 0.3543
Batch 82/248, train_loss: 0.1241, step time: 0.3819
Batch 83/248, train_loss: 0.9619, step time: 0.3405
Batch 84/248, train_loss: 0.9912, step time: 0.3720
```

Batch 155/248, train_loss: 0.7775, step time: 0.3720
Batch 156/248, train_loss: 0.7854, step time: 0.3888
Batch 157/248, train_loss: 0.4599, step time: 0.3673
Batch 158/248, train_loss: 0.9995, step time: 0.3681
Batch 159/248, train_loss: 0.9985, step time: 0.3499
Batch 160/248, train_loss: 0.5487, step time: 0.3587
Batch 161/248, train_loss: 0.7706, step time: 0.3714
Batch 162/248, train_loss: 0.1436, step time: 0.3857
Batch 163/248, train_loss: 0.9798, step time: 0.3682
Batch 164/248, train_loss: 0.8100, step time: 0.3703
Batch 165/248, train_loss: 0.9992, step time: 0.3857
Batch 166/248, train_loss: 0.9502, step time: 0.3574
Batch 167/248, train_loss: 0.8288, step time: 0.3682
Batch 168/248, train_loss: 0.8059, step time: 0.3834
Batch 169/248, train_loss: 0.5739, step time: 0.3450
Batch 170/248, train_loss: 0.9931, step time: 0.3446
Batch 171/248, train_loss: 0.1757, step time: 0.3771
Batch 172/248, train_loss: 0.9995, step time: 0.3606
Batch 173/248, train_loss: 0.3505, step time: 0.3839
Batch 174/248, train_loss: 0.9929, step time: 0.3674
Batch 175/248, train_loss: 0.2492, step time: 0.3476
Batch 176/248, train_loss: 0.8840, step time: 0.3796
Batch 177/248, train_loss: 0.9991, step time: 0.3412
Batch 178/248, train_loss: 0.5682, step time: 0.3819
Batch 179/248, train_loss: 0.1488, step time: 0.3443
Batch 180/248, train_loss: 0.7925, step time: 0.3754
Batch 181/248, train_loss: 0.2849, step time: 0.3545
Batch 182/248, train_loss: 0.9638, step time: 0.3647
Batch 183/248, train_loss: 0.7927, step time: 0.3520
Batch 184/248, train_loss: 0.9597, step time: 0.3408
Batch 185/248, train_loss: 0.7962, step time: 0.3739
Batch 186/248, train_loss: 0.5942, step time: 0.3717
Batch 187/248, train_loss: 0.5924, step time: 0.3455
Batch 188/248, train_loss: 0.8105, step time: 0.3880
Batch 189/248, train_loss: 0.9997, step time: 0.3739
Batch 190/248, train_loss: 0.6390, step time: 0.3461
Batch 191/248, train_loss: 0.9991, step time: 0.3419
Batch 192/248, train_loss: 0.6166, step time: 0.3461
Batch 193/248, train_loss: 0.8903, step time: 0.3660
Batch 194/248, train_loss: 0.8713, step time: 0.3483
Batch 195/248, train_loss: 0.9997, step time: 0.3762
Batch 196/248, train_loss: 0.9999, step time: 0.3512
Batch 197/248, train_loss: 0.9335, step time: 0.3808
Batch 198/248, train_loss: 1.0000, step time: 0.3850
Batch 199/248, train_loss: 0.8200, step time: 0.3795
Batch 200/248, train_loss: 0.7715, step time: 0.3539
Batch 201/248, train_loss: 0.5619, step time: 0.3822
Batch 202/248, train_loss: 0.8881, step time: 0.3714
Batch 203/248, train_loss: 0.9933, step time: 0.3635
Batch 204/248, train_loss: 0.2729, step time: 0.3692
Batch 205/248, train_loss: 0.9630, step time: 0.3837
Batch 206/248, train_loss: 0.9977, step time: 0.3530
Batch 207/248, train_loss: 0.4698, step time: 0.3570
Batch 208/248, train_loss: 0.7802, step time: 0.3657
Batch 209/248, train_loss: 0.6881, step time: 0.3858
Batch 210/248, train_loss: 0.4590, step time: 0.3472
Batch 211/248, train_loss: 0.4610, step time: 0.3801
Batch 212/248, train_loss: 0.9169, step time: 0.3768
Batch 213/248, train_loss: 0.8889, step time: 0.3638
Batch 214/248, train_loss: 0.6406, step time: 0.3463
Batch 215/248, train_loss: 0.9278, step time: 0.3472
Batch 216/248, train_loss: 0.5423, step time: 0.3655
Batch 217/248, train_loss: 0.9661, step time: 0.3730
Batch 218/248, train_loss: 0.9969, step time: 0.3423
Batch 219/248, train_loss: 0.6415, step time: 0.3768
Batch 220/248, train_loss: 0.9307, step time: 0.3434
Batch 221/248, train_loss: 0.9102, step time: 0.3437
Batch 222/248, train_loss: 0.5451, step time: 0.3413
Batch 223/248, train_loss: 0.2349, step time: 0.3740
Batch 224/248, train_loss: 0.4171, step time: 0.3613
Batch 225/248, train_loss: 0.9930, step time: 0.3858
Batch 226/248, train_loss: 0.9677, step time: 0.3435
Batch 227/248, train_loss: 0.6337, step time: 0.3485
Batch 228/248, train_loss: 0.9113, step time: 0.3410
Batch 229/248, train_loss: 0.2517, step time: 0.3465
Batch 230/248, train_loss: 0.6487, step time: 0.3438
Batch 231/248, train_loss: 0.9948, step time: 0.3775
Batch 232/248, train_loss: 0.6382, step time: 0.3702
Batch 233/248, train_loss: 0.9999, step time: 0.3727
Batch 234/248, train_loss: 0.9955, step time: 0.3787
Batch 235/248, train_loss: 0.9932, step time: 0.3872
Batch 236/248, train_loss: 0.9994, step time: 0.3645
Batch 237/248, train_loss: 0.3306, step time: 0.3444
Batch 238/248, train_loss: 0.5640, step time: 0.3627
Batch 239/248, train_loss: 0.2212, step time: 0.3421

```
Batch 240/248, train_loss: 0.8794, step time: 0.3591
Batch 241/248, train_loss: 0.9999, step time: 0.3415
Batch 242/248, train_loss: 0.9531, step time: 0.3493
Batch 243/248, train_loss: 0.9979, step time: 0.3843
Batch 244/248, train_loss: 0.9880, step time: 0.3480
Batch 245/248, train_loss: 0.5129, step time: 0.3767
Batch 246/248, train_loss: 0.9923, step time: 0.3444
Batch 247/248, train_loss: 0.1665, step time: 0.3432
Batch 248/248, train_loss: 1.0000, step time: 0.3789
```

Labels



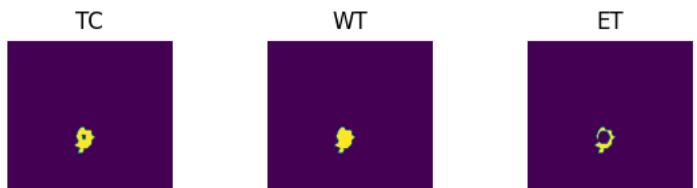
Predictions



VAL

```
Batch 1/31, val_loss: 0.8967
Batch 2/31, val_loss: 0.9997
Batch 3/31, val_loss: 0.9892
Batch 4/31, val_loss: 0.9840
Batch 5/31, val_loss: 0.9998
Batch 6/31, val_loss: 0.7268
Batch 7/31, val_loss: 0.9119
Batch 8/31, val_loss: 0.9852
Batch 9/31, val_loss: 0.7485
Batch 10/31, val_loss: 0.9836
Batch 11/31, val_loss: 0.9237
Batch 12/31, val_loss: 0.9787
Batch 13/31, val_loss: 0.9940
Batch 14/31, val_loss: 0.9758
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9969
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9772
Batch 19/31, val_loss: 0.8294
Batch 20/31, val_loss: 0.9408
Batch 21/31, val_loss: 0.9636
Batch 22/31, val_loss: 0.9965
Batch 23/31, val_loss: 0.9982
Batch 24/31, val_loss: 0.7631
Batch 25/31, val_loss: 0.8744
Batch 26/31, val_loss: 0.9816
Batch 27/31, val_loss: 0.9991
Batch 28/31, val_loss: 0.8760
Batch 29/31, val_loss: 0.9998
Batch 30/31, val_loss: 0.9970
Batch 31/31, val_loss: 0.9970
```

Labels



Predictions



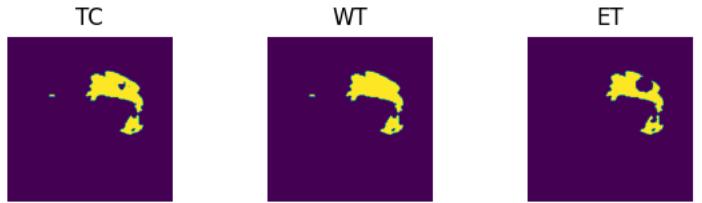
```
epoch 34
    average train loss: 0.7455
    average validation loss: 0.9448
    saved as best model: True
    current mean dice: 0.2029
    current TC dice: 0.2113
    current WT dice: 0.2147
    current ET dice: 0.2020
Best Mean Metric: 0.2029
time consuming of epoch 34 is: 1447.8031
-----
epoch 35/100
TRAIN
    Batch 1/248, train_loss: 0.2617, step time: 0.3777
    Batch 2/248, train_loss: 0.9996, step time: 0.3708
    Batch 3/248, train_loss: 0.9772, step time: 0.3845
    Batch 4/248, train_loss: 0.9993, step time: 0.3422
    Batch 5/248, train_loss: 0.9072, step time: 0.3669
    Batch 6/248, train_loss: 0.8901, step time: 0.3771
    Batch 7/248, train_loss: 0.1620, step time: 0.3538
    Batch 8/248, train_loss: 0.7816, step time: 0.3492
    Batch 9/248, train_loss: 0.2235, step time: 0.3762
    Batch 10/248, train_loss: 0.9565, step time: 0.3492
    Batch 11/248, train_loss: 0.8899, step time: 0.3522
    Batch 12/248, train_loss: 0.9953, step time: 0.3704
    Batch 13/248, train_loss: 0.9781, step time: 0.3426
    Batch 14/248, train_loss: 0.1165, step time: 0.3396
    Batch 15/248, train_loss: 0.9484, step time: 0.3713
    Batch 16/248, train_loss: 0.8617, step time: 0.3475
    Batch 17/248, train_loss: 0.9985, step time: 0.3715
    Batch 18/248, train_loss: 0.9859, step time: 0.3544
    Batch 19/248, train_loss: 0.3036, step time: 0.3558
    Batch 20/248, train_loss: 0.8387, step time: 0.3850
    Batch 21/248, train_loss: 0.5688, step time: 0.3494
    Batch 22/248, train_loss: 0.9999, step time: 0.3408
    Batch 23/248, train_loss: 0.9999, step time: 0.3575
    Batch 24/248, train_loss: 0.6306, step time: 0.3447
    Batch 25/248, train_loss: 0.1405, step time: 0.3614
    Batch 26/248, train_loss: 0.9936, step time: 0.3445
    Batch 27/248, train_loss: 0.2207, step time: 0.3858
    Batch 28/248, train_loss: 0.8391, step time: 0.3865
    Batch 29/248, train_loss: 0.9937, step time: 0.3768
    Batch 30/248, train_loss: 0.8744, step time: 0.3596
    Batch 31/248, train_loss: 0.9464, step time: 0.3815
    Batch 32/248, train_loss: 0.5582, step time: 0.3589
    Batch 33/248, train_loss: 0.2226, step time: 0.3531
    Batch 34/248, train_loss: 0.3247, step time: 0.3720
    Batch 35/248, train_loss: 0.6189, step time: 0.3617
    Batch 36/248, train_loss: 0.9997, step time: 0.3691
    Batch 37/248, train_loss: 0.7090, step time: 0.3434
    Batch 38/248, train_loss: 0.9305, step time: 0.3496
    Batch 39/248, train_loss: 0.7350, step time: 0.3449
    Batch 40/248, train_loss: 0.9992, step time: 0.3419
    Batch 41/248, train_loss: 0.5179, step time: 0.3779
    Batch 42/248, train_loss: 0.4715, step time: 0.3693
    Batch 43/248, train_loss: 0.2573, step time: 0.3788
    Batch 44/248, train_loss: 0.7306, step time: 0.3446
    Batch 45/248, train_loss: 0.9349, step time: 0.3750
    Batch 46/248, train_loss: 0.7557, step time: 0.3540
    Batch 47/248, train_loss: 0.8433, step time: 0.3417
    Batch 48/248, train_loss: 0.7645, step time: 0.3484
    Batch 49/248, train_loss: 0.9876, step time: 0.3770
    Batch 50/248, train_loss: 0.8708, step time: 0.3589
    Batch 51/248, train_loss: 0.8366, step time: 0.3834
    Batch 52/248, train_loss: 0.7672, step time: 0.3585
    Batch 53/248, train_loss: 0.9421, step time: 0.3740
    Batch 54/248, train_loss: 0.8428, step time: 0.3613
    Batch 55/248, train_loss: 0.9496, step time: 0.3813
    Batch 56/248, train_loss: 0.8643, step time: 0.3859
    Batch 57/248, train_loss: 0.8736, step time: 0.3689
    Batch 58/248, train_loss: 0.5226, step time: 0.3559
    Batch 59/248, train_loss: 0.6062, step time: 0.3453
    Batch 60/248, train_loss: 0.4933, step time: 0.3450
    Batch 61/248, train_loss: 0.6208, step time: 0.3483
    Batch 62/248, train_loss: 0.9577, step time: 0.3833
    Batch 63/248, train_loss: 0.9897, step time: 0.3414
    Batch 64/248, train_loss: 0.9899, step time: 0.3428
    Batch 65/248, train_loss: 0.8626, step time: 0.3408
    Batch 66/248, train_loss: 0.8689, step time: 0.3751
    Batch 67/248, train_loss: 0.2302, step time: 0.3856
    Batch 68/248, train_loss: 0.4381, step time: 0.3660
    Batch 69/248, train_loss: 0.9998, step time: 0.3777
```

Batch 70/248, train_loss: 0.5377, step time: 0.3602
Batch 71/248, train_loss: 0.4306, step time: 0.3591
Batch 72/248, train_loss: 0.3899, step time: 0.3484
Batch 73/248, train_loss: 0.5108, step time: 0.3827
Batch 74/248, train_loss: 0.9997, step time: 0.3409
Batch 75/248, train_loss: 0.5050, step time: 0.3800
Batch 76/248, train_loss: 0.9938, step time: 0.3866
Batch 77/248, train_loss: 0.9996, step time: 0.3690
Batch 78/248, train_loss: 0.7201, step time: 0.3606
Batch 79/248, train_loss: 0.8361, step time: 0.3459
Batch 80/248, train_loss: 0.9105, step time: 0.3835
Batch 81/248, train_loss: 0.9365, step time: 0.3581
Batch 82/248, train_loss: 0.4876, step time: 0.3435
Batch 83/248, train_loss: 0.9931, step time: 0.3826
Batch 84/248, train_loss: 0.8454, step time: 0.3426
Batch 85/248, train_loss: 0.9956, step time: 0.3565
Batch 86/248, train_loss: 0.7034, step time: 0.3473
Batch 87/248, train_loss: 0.9913, step time: 0.3719
Batch 88/248, train_loss: 0.9788, step time: 0.3676
Batch 89/248, train_loss: 0.1892, step time: 0.3814
Batch 90/248, train_loss: 0.8664, step time: 0.3853
Batch 91/248, train_loss: 0.9919, step time: 0.3735
Batch 92/248, train_loss: 0.8200, step time: 0.3487
Batch 93/248, train_loss: 0.4586, step time: 0.3810
Batch 94/248, train_loss: 0.9919, step time: 0.3715
Batch 95/248, train_loss: 0.7125, step time: 0.3741
Batch 96/248, train_loss: 0.6623, step time: 0.3686
Batch 97/248, train_loss: 0.9999, step time: 0.3842
Batch 98/248, train_loss: 0.4076, step time: 0.3436
Batch 99/248, train_loss: 0.9762, step time: 0.3813
Batch 100/248, train_loss: 0.9952, step time: 0.3588
Batch 101/248, train_loss: 0.1154, step time: 0.3507
Batch 102/248, train_loss: 0.7760, step time: 0.3601
Batch 103/248, train_loss: 0.9888, step time: 0.3716
Batch 104/248, train_loss: 0.7066, step time: 0.3693
Batch 105/248, train_loss: 0.3408, step time: 0.3885
Batch 106/248, train_loss: 0.8741, step time: 0.3527
Batch 107/248, train_loss: 0.9745, step time: 0.3433
Batch 108/248, train_loss: 0.9830, step time: 0.3572
Batch 109/248, train_loss: 0.9969, step time: 0.3643
Batch 110/248, train_loss: 0.9255, step time: 0.3545
Batch 111/248, train_loss: 0.3608, step time: 0.3587
Batch 112/248, train_loss: 0.4043, step time: 0.3757
Batch 113/248, train_loss: 0.9999, step time: 0.3744
Batch 114/248, train_loss: 0.2628, step time: 0.3579
Batch 115/248, train_loss: 0.7616, step time: 0.3423
Batch 116/248, train_loss: 0.3214, step time: 0.3482
Batch 117/248, train_loss: 0.9955, step time: 0.3677
Batch 118/248, train_loss: 0.9807, step time: 0.3840
Batch 119/248, train_loss: 0.8023, step time: 0.3412
Batch 120/248, train_loss: 0.8454, step time: 0.3786
Batch 121/248, train_loss: 0.9564, step time: 0.3613
Batch 122/248, train_loss: 0.9693, step time: 0.3767
Batch 123/248, train_loss: 0.5365, step time: 0.3474
Batch 124/248, train_loss: 0.9723, step time: 0.3530
Batch 125/248, train_loss: 0.9968, step time: 0.3536
Batch 126/248, train_loss: 0.5370, step time: 0.3506
Batch 127/248, train_loss: 0.7950, step time: 0.3555
Batch 128/248, train_loss: 0.9129, step time: 0.3438
Batch 129/248, train_loss: 0.2556, step time: 0.3823
Batch 130/248, train_loss: 0.2690, step time: 0.3459
Batch 131/248, train_loss: 0.9670, step time: 0.3808
Batch 132/248, train_loss: 0.9768, step time: 0.3488
Batch 133/248, train_loss: 0.2272, step time: 0.3754
Batch 134/248, train_loss: 1.0000, step time: 0.3677
Batch 135/248, train_loss: 0.9841, step time: 0.3656
Batch 136/248, train_loss: 0.8857, step time: 0.3464
Batch 137/248, train_loss: 0.2674, step time: 0.3485
Batch 138/248, train_loss: 0.3236, step time: 0.3684
Batch 139/248, train_loss: 0.4336, step time: 0.3843
Batch 140/248, train_loss: 0.8792, step time: 0.3487
Batch 141/248, train_loss: 0.5230, step time: 0.3713
Batch 142/248, train_loss: 0.9944, step time: 0.3414
Batch 143/248, train_loss: 0.8916, step time: 0.3447
Batch 144/248, train_loss: 0.3841, step time: 0.3796
Batch 145/248, train_loss: 0.1365, step time: 0.3415
Batch 146/248, train_loss: 0.9994, step time: 0.3484
Batch 147/248, train_loss: 0.1159, step time: 0.3414
Batch 148/248, train_loss: 0.9877, step time: 0.3581
Batch 149/248, train_loss: 0.7451, step time: 0.3541
Batch 150/248, train_loss: 0.6491, step time: 0.3855
Batch 151/248, train_loss: 0.9774, step time: 0.3463
Batch 152/248, train_loss: 0.1128, step time: 0.3851
Batch 153/248, train_loss: 0.9640, step time: 0.3802
Batch 154/248, train_loss: 0.9912, step time: 0.3661

Batch 155/248, train_loss: 0.7778, step time: 0.3480
Batch 156/248, train_loss: 0.7911, step time: 0.3655
Batch 157/248, train_loss: 0.4554, step time: 0.3437
Batch 158/248, train_loss: 0.9995, step time: 0.3522
Batch 159/248, train_loss: 0.9982, step time: 0.3773
Batch 160/248, train_loss: 0.5347, step time: 0.3503
Batch 161/248, train_loss: 0.7679, step time: 0.3424
Batch 162/248, train_loss: 0.1393, step time: 0.3718
Batch 163/248, train_loss: 0.9787, step time: 0.3835
Batch 164/248, train_loss: 0.8026, step time: 0.3697
Batch 165/248, train_loss: 0.9995, step time: 0.3605
Batch 166/248, train_loss: 0.9517, step time: 0.3764
Batch 167/248, train_loss: 0.8175, step time: 0.3565
Batch 168/248, train_loss: 0.7912, step time: 0.3504
Batch 169/248, train_loss: 0.5638, step time: 0.3782
Batch 170/248, train_loss: 0.9924, step time: 0.3438
Batch 171/248, train_loss: 0.1790, step time: 0.3485
Batch 172/248, train_loss: 0.9995, step time: 0.3665
Batch 173/248, train_loss: 0.3350, step time: 0.3576
Batch 174/248, train_loss: 0.9896, step time: 0.3830
Batch 175/248, train_loss: 0.2488, step time: 0.3492
Batch 176/248, train_loss: 0.8838, step time: 0.3525
Batch 177/248, train_loss: 0.9984, step time: 0.3441
Batch 178/248, train_loss: 0.5483, step time: 0.3490
Batch 179/248, train_loss: 0.1543, step time: 0.3396
Batch 180/248, train_loss: 0.7804, step time: 0.3447
Batch 181/248, train_loss: 0.2685, step time: 0.3545
Batch 182/248, train_loss: 0.9657, step time: 0.3730
Batch 183/248, train_loss: 0.7771, step time: 0.3517
Batch 184/248, train_loss: 0.9590, step time: 0.3834
Batch 185/248, train_loss: 0.7808, step time: 0.3579
Batch 186/248, train_loss: 0.5693, step time: 0.3539
Batch 187/248, train_loss: 0.5786, step time: 0.3531
Batch 188/248, train_loss: 0.7994, step time: 0.3736
Batch 189/248, train_loss: 0.9996, step time: 0.3720
Batch 190/248, train_loss: 0.6229, step time: 0.3795
Batch 191/248, train_loss: 0.9968, step time: 0.3525
Batch 192/248, train_loss: 0.6072, step time: 0.3863
Batch 193/248, train_loss: 0.8888, step time: 0.3443
Batch 194/248, train_loss: 0.8592, step time: 0.3482
Batch 195/248, train_loss: 0.9998, step time: 0.3881
Batch 196/248, train_loss: 0.9999, step time: 0.3653
Batch 197/248, train_loss: 0.9372, step time: 0.3657
Batch 198/248, train_loss: 1.0000, step time: 0.3484
Batch 199/248, train_loss: 0.8325, step time: 0.3583
Batch 200/248, train_loss: 0.7638, step time: 0.3717
Batch 201/248, train_loss: 0.5688, step time: 0.3471
Batch 202/248, train_loss: 0.8945, step time: 0.3571
Batch 203/248, train_loss: 0.9932, step time: 0.3494
Batch 204/248, train_loss: 0.2467, step time: 0.3503
Batch 205/248, train_loss: 0.9576, step time: 0.3535
Batch 206/248, train_loss: 0.9974, step time: 0.3596
Batch 207/248, train_loss: 0.4638, step time: 0.3419
Batch 208/248, train_loss: 0.7774, step time: 0.3548
Batch 209/248, train_loss: 0.6784, step time: 0.3447
Batch 210/248, train_loss: 0.4382, step time: 0.3770
Batch 211/248, train_loss: 0.4405, step time: 0.3440
Batch 212/248, train_loss: 0.9111, step time: 0.3484
Batch 213/248, train_loss: 0.8835, step time: 0.3546
Batch 214/248, train_loss: 0.6239, step time: 0.3430
Batch 215/248, train_loss: 0.9261, step time: 0.3468
Batch 216/248, train_loss: 0.5568, step time: 0.3465
Batch 217/248, train_loss: 0.9639, step time: 0.3691
Batch 218/248, train_loss: 0.9970, step time: 0.3415
Batch 219/248, train_loss: 0.6225, step time: 0.3872
Batch 220/248, train_loss: 0.9283, step time: 0.3402
Batch 221/248, train_loss: 0.9184, step time: 0.3689
Batch 222/248, train_loss: 0.5524, step time: 0.3498
Batch 223/248, train_loss: 0.2240, step time: 0.3494
Batch 224/248, train_loss: 0.4041, step time: 0.3565
Batch 225/248, train_loss: 0.9923, step time: 0.3464
Batch 226/248, train_loss: 0.9655, step time: 0.3799
Batch 227/248, train_loss: 0.6287, step time: 0.3621
Batch 228/248, train_loss: 0.9099, step time: 0.3518
Batch 229/248, train_loss: 0.2393, step time: 0.3406
Batch 230/248, train_loss: 0.6276, step time: 0.3453
Batch 231/248, train_loss: 0.9994, step time: 0.3485
Batch 232/248, train_loss: 0.6144, step time: 0.3606
Batch 233/248, train_loss: 0.9998, step time: 0.3508
Batch 234/248, train_loss: 0.9942, step time: 0.3871
Batch 235/248, train_loss: 0.9963, step time: 0.3480
Batch 236/248, train_loss: 0.9994, step time: 0.3671
Batch 237/248, train_loss: 0.3147, step time: 0.3399
Batch 238/248, train_loss: 0.5438, step time: 0.3746
Batch 239/248, train_loss: 0.1081, step time: 0.3426

```
Batch 239/248, train_loss: 0.1901, step time: 0.3420
Batch 240/248, train_loss: 0.8732, step time: 0.3804
Batch 241/248, train_loss: 0.9998, step time: 0.3693
Batch 242/248, train_loss: 0.9485, step time: 0.3579
Batch 243/248, train_loss: 0.9984, step time: 0.3795
Batch 244/248, train_loss: 0.9876, step time: 0.3652
Batch 245/248, train_loss: 0.4887, step time: 0.3444
Batch 246/248, train_loss: 0.9884, step time: 0.3402
Batch 247/248, train_loss: 0.1568, step time: 0.3740
Batch 248/248, train_loss: 1.0000, step time: 0.3777
```

Labels



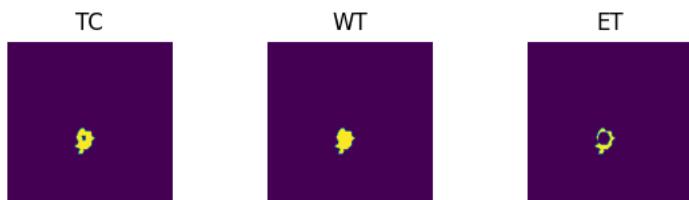
Predictions



VAL

```
Batch 1/31, val_loss: 0.8908
Batch 2/31, val_loss: 1.0000
Batch 3/31, val_loss: 0.9912
Batch 4/31, val_loss: 0.9886
Batch 5/31, val_loss: 0.9998
Batch 6/31, val_loss: 0.7246
Batch 7/31, val_loss: 0.9992
Batch 8/31, val_loss: 0.9880
Batch 9/31, val_loss: 0.7441
Batch 10/31, val_loss: 0.9918
Batch 11/31, val_loss: 0.9189
Batch 12/31, val_loss: 0.9778
Batch 13/31, val_loss: 0.9947
Batch 14/31, val_loss: 0.9755
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9966
Batch 17/31, val_loss: 0.9996
Batch 18/31, val_loss: 0.9744
Batch 19/31, val_loss: 0.8207
Batch 20/31, val_loss: 0.9341
Batch 21/31, val_loss: 0.9662
Batch 22/31, val_loss: 0.9957
Batch 23/31, val_loss: 0.9970
Batch 24/31, val_loss: 0.7586
Batch 25/31, val_loss: 0.8694
Batch 26/31, val_loss: 0.9806
Batch 27/31, val_loss: 0.9992
Batch 28/31, val_loss: 0.8680
Batch 29/31, val_loss: 0.9998
Batch 30/31, val_loss: 0.9969
Batch 31/31, val_loss: 0.9965
```

Labels



Predictions





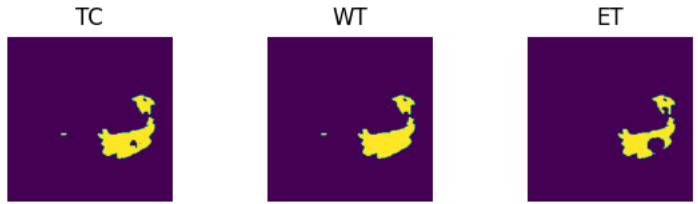
```
epoch 35
average train loss: 0.7385
average validation loss: 0.9435
saved as best model: True
current mean dice: 0.2095
current TC dice: 0.2181
current WT dice: 0.2216
current ET dice: 0.2089
Best Mean Metric: 0.2095
time consuming of epoch 35 is: 1432.5353
-----
epoch 36/100
TRAIN
Batch 1/248, train_loss: 0.2395, step time: 0.3778
Batch 2/248, train_loss: 0.9990, step time: 0.3758
Batch 3/248, train_loss: 0.9789, step time: 0.3832
Batch 4/248, train_loss: 0.9993, step time: 0.3486
Batch 5/248, train_loss: 0.8954, step time: 0.3409
Batch 6/248, train_loss: 0.8733, step time: 0.3715
Batch 7/248, train_loss: 0.1549, step time: 0.3429
Batch 8/248, train_loss: 0.7890, step time: 0.3876
Batch 9/248, train_loss: 0.2044, step time: 0.3650
Batch 10/248, train_loss: 0.9603, step time: 0.3468
Batch 11/248, train_loss: 0.8827, step time: 0.3851
Batch 12/248, train_loss: 0.9964, step time: 0.3670
Batch 13/248, train_loss: 0.9727, step time: 0.3846
Batch 14/248, train_loss: 0.1170, step time: 0.3740
Batch 15/248, train_loss: 0.9470, step time: 0.3463
Batch 16/248, train_loss: 0.8667, step time: 0.3425
Batch 17/248, train_loss: 0.9950, step time: 0.3687
Batch 18/248, train_loss: 0.9848, step time: 0.3804
Batch 19/248, train_loss: 0.3037, step time: 0.3867
Batch 20/248, train_loss: 0.8340, step time: 0.3470
Batch 21/248, train_loss: 0.5709, step time: 0.3776
Batch 22/248, train_loss: 0.9999, step time: 0.3738
Batch 23/248, train_loss: 0.9996, step time: 0.3536
Batch 24/248, train_loss: 0.6193, step time: 0.3529
Batch 25/248, train_loss: 0.1371, step time: 0.3765
Batch 26/248, train_loss: 0.9895, step time: 0.3763
Batch 27/248, train_loss: 0.2066, step time: 0.3509
Batch 28/248, train_loss: 0.8508, step time: 0.3603
Batch 29/248, train_loss: 0.9941, step time: 0.3482
Batch 30/248, train_loss: 0.9709, step time: 0.3852
Batch 31/248, train_loss: 0.9478, step time: 0.3743
Batch 32/248, train_loss: 0.5492, step time: 0.3724
Batch 33/248, train_loss: 0.1884, step time: 0.3842
Batch 34/248, train_loss: 0.2954, step time: 0.3704
Batch 35/248, train_loss: 0.6085, step time: 0.3785
Batch 36/248, train_loss: 0.9987, step time: 0.3594
Batch 37/248, train_loss: 0.6992, step time: 0.3822
Batch 38/248, train_loss: 0.9342, step time: 0.3779
Batch 39/248, train_loss: 0.7287, step time: 0.3610
Batch 40/248, train_loss: 0.9992, step time: 0.3738
Batch 41/248, train_loss: 0.5076, step time: 0.3732
Batch 42/248, train_loss: 0.4517, step time: 0.3503
Batch 43/248, train_loss: 0.2656, step time: 0.3771
Batch 44/248, train_loss: 0.7485, step time: 0.3846
Batch 45/248, train_loss: 0.9483, step time: 0.3809
Batch 46/248, train_loss: 0.7430, step time: 0.3541
Batch 47/248, train_loss: 0.8432, step time: 0.3407
Batch 48/248, train_loss: 0.7563, step time: 0.3533
Batch 49/248, train_loss: 0.9862, step time: 0.3792
Batch 50/248, train_loss: 0.8602, step time: 0.3795
Batch 51/248, train_loss: 0.8438, step time: 0.3647
Batch 52/248, train_loss: 0.7526, step time: 0.3864
Batch 53/248, train_loss: 0.9372, step time: 0.3663
Batch 54/248, train_loss: 0.8317, step time: 0.3844
Batch 55/248, train_loss: 0.9465, step time: 0.3765
Batch 56/248, train_loss: 0.8514, step time: 0.3527
Batch 57/248, train_loss: 0.8625, step time: 0.3440
Batch 58/248, train_loss: 0.5001, step time: 0.3671
Batch 59/248, train_loss: 0.5922, step time: 0.3626
Batch 60/248, train_loss: 0.4717, step time: 0.3443
Batch 61/248, train_loss: 0.6101, step time: 0.3451
Batch 62/248, train_loss: 0.9556, step time: 0.3626
Batch 63/248, train_loss: 0.9903, step time: 0.3520
Batch 64/248, train_loss: 0.9896, step time: 0.3498
Batch 65/248, train_loss: 0.8549, step time: 0.3424
Batch 66/248, train_loss: 0.8682, step time: 0.3684
Batch 67/248, train_loss: 0.2138, step time: 0.3857
Batch 68/248, train_loss: 0.4259, step time: 0.3460
Batch 69/248, train_loss: 0.9995, step time: 0.3778
```

Batch 55/248, train_loss: 0.5155, step time: 0.3677
Batch 56/248, train_loss: 0.5191, step time: 0.3699
Batch 57/248, train_loss: 0.4270, step time: 0.3452
Batch 58/248, train_loss: 0.3673, step time: 0.3549
Batch 59/248, train_loss: 0.4835, step time: 0.3798
Batch 60/248, train_loss: 0.9998, step time: 0.3572
Batch 61/248, train_loss: 0.4901, step time: 0.3646
Batch 62/248, train_loss: 0.9931, step time: 0.3566
Batch 63/248, train_loss: 0.9997, step time: 0.3481
Batch 64/248, train_loss: 0.7079, step time: 0.3638
Batch 65/248, train_loss: 0.8315, step time: 0.3765
Batch 66/248, train_loss: 0.9094, step time: 0.3560
Batch 67/248, train_loss: 0.9323, step time: 0.3787
Batch 68/248, train_loss: 0.4712, step time: 0.3425
Batch 69/248, train_loss: 0.9916, step time: 0.3473
Batch 70/248, train_loss: 0.8400, step time: 0.3796
Batch 71/248, train_loss: 0.9942, step time: 0.3846
Batch 72/248, train_loss: 0.7158, step time: 0.3631
Batch 73/248, train_loss: 0.9924, step time: 0.3817
Batch 74/248, train_loss: 0.9789, step time: 0.3842
Batch 75/248, train_loss: 0.2018, step time: 0.3467
Batch 76/248, train_loss: 0.8716, step time: 0.3474
Batch 77/248, train_loss: 0.9917, step time: 0.3756
Batch 78/248, train_loss: 0.8445, step time: 0.3410
Batch 79/248, train_loss: 0.4543, step time: 0.3788
Batch 80/248, train_loss: 0.9927, step time: 0.3580
Batch 81/248, train_loss: 0.6984, step time: 0.3470
Batch 82/248, train_loss: 0.6473, step time: 0.3732
Batch 83/248, train_loss: 0.9999, step time: 0.3843
Batch 84/248, train_loss: 0.4001, step time: 0.3482
Batch 85/248, train_loss: 0.9770, step time: 0.3881
Batch 86/248, train_loss: 0.9957, step time: 0.3497
Batch 87/248, train_loss: 0.1146, step time: 0.3483
Batch 88/248, train_loss: 0.7692, step time: 0.3481
Batch 89/248, train_loss: 0.9889, step time: 0.3799
Batch 90/248, train_loss: 0.6982, step time: 0.3712
Batch 91/248, train_loss: 0.3225, step time: 0.3815
Batch 92/248, train_loss: 0.8723, step time: 0.3470
Batch 93/248, train_loss: 0.9719, step time: 0.3640
Batch 94/248, train_loss: 0.9854, step time: 0.3657
Batch 95/248, train_loss: 0.9971, step time: 0.3780
Batch 96/248, train_loss: 0.9169, step time: 0.3750
Batch 97/248, train_loss: 0.3508, step time: 0.3444
Batch 98/248, train_loss: 0.3766, step time: 0.3690
Batch 99/248, train_loss: 0.9999, step time: 0.3834
Batch 100/248, train_loss: 0.2585, step time: 0.3701
Batch 101/248, train_loss: 0.7477, step time: 0.3821
Batch 102/248, train_loss: 0.3138, step time: 0.3482
Batch 103/248, train_loss: 0.9944, step time: 0.3491
Batch 104/248, train_loss: 0.9827, step time: 0.3524
Batch 105/248, train_loss: 0.8120, step time: 0.3849
Batch 106/248, train_loss: 0.8103, step time: 0.3659
Batch 107/248, train_loss: 0.9544, step time: 0.3855
Batch 108/248, train_loss: 0.9669, step time: 0.3702
Batch 109/248, train_loss: 0.5141, step time: 0.3791
Batch 110/248, train_loss: 0.9699, step time: 0.3685
Batch 111/248, train_loss: 0.9956, step time: 0.3703
Batch 112/248, train_loss: 0.4891, step time: 0.3601
Batch 113/248, train_loss: 0.7857, step time: 0.3828
Batch 114/248, train_loss: 0.9109, step time: 0.3728
Batch 115/248, train_loss: 0.2389, step time: 0.3797
Batch 116/248, train_loss: 0.2461, step time: 0.3657
Batch 117/248, train_loss: 0.9653, step time: 0.3741
Batch 118/248, train_loss: 0.9802, step time: 0.3850
Batch 119/248, train_loss: 0.2320, step time: 0.3484
Batch 120/248, train_loss: 0.9999, step time: 0.3749
Batch 121/248, train_loss: 0.9856, step time: 0.3809
Batch 122/248, train_loss: 0.8777, step time: 0.3569
Batch 123/248, train_loss: 0.2786, step time: 0.3855
Batch 124/248, train_loss: 0.3031, step time: 0.3775
Batch 125/248, train_loss: 0.4164, step time: 0.3589
Batch 126/248, train_loss: 0.8679, step time: 0.3652
Batch 127/248, train_loss: 0.5203, step time: 0.3550
Batch 128/248, train_loss: 0.9958, step time: 0.3462
Batch 129/248, train_loss: 0.8852, step time: 0.3627
Batch 130/248, train_loss: 0.3381, step time: 0.3838
Batch 131/248, train_loss: 0.1307, step time: 0.3678
Batch 132/248, train_loss: 0.9993, step time: 0.3725
Batch 133/248, train_loss: 0.1094, step time: 0.3580
Batch 134/248, train_loss: 0.9846, step time: 0.3407
Batch 135/248, train_loss: 0.7341, step time: 0.3583
Batch 136/248, train_loss: 0.6685, step time: 0.3401
Batch 137/248, train_loss: 0.9786, step time: 0.3587
Batch 138/248, train_loss: 0.1095, step time: 0.3764
Batch 139/248, train_loss: 0.9621, step time: 0.3770

Batch 154/248, train_loss: 0.9999, step time: 0.3569
Batch 155/248, train_loss: 0.7662, step time: 0.3822
Batch 156/248, train_loss: 0.7857, step time: 0.3502
Batch 157/248, train_loss: 0.4460, step time: 0.3665
Batch 158/248, train_loss: 0.9994, step time: 0.3684
Batch 159/248, train_loss: 0.9979, step time: 0.3588
Batch 160/248, train_loss: 0.5261, step time: 0.3618
Batch 161/248, train_loss: 0.7484, step time: 0.3695
Batch 162/248, train_loss: 0.1401, step time: 0.3812
Batch 163/248, train_loss: 0.9781, step time: 0.3846
Batch 164/248, train_loss: 0.7914, step time: 0.3451
Batch 165/248, train_loss: 0.9995, step time: 0.3758
Batch 166/248, train_loss: 0.9453, step time: 0.3576
Batch 167/248, train_loss: 0.8010, step time: 0.3835
Batch 168/248, train_loss: 0.7858, step time: 0.3745
Batch 169/248, train_loss: 0.5433, step time: 0.3701
Batch 170/248, train_loss: 0.9901, step time: 0.3535
Batch 171/248, train_loss: 0.1686, step time: 0.3510
Batch 172/248, train_loss: 0.9995, step time: 0.3716
Batch 173/248, train_loss: 0.3147, step time: 0.3506
Batch 174/248, train_loss: 0.9999, step time: 0.3894
Batch 175/248, train_loss: 0.2463, step time: 0.3525
Batch 176/248, train_loss: 0.8717, step time: 0.3462
Batch 177/248, train_loss: 0.9995, step time: 0.3650
Batch 178/248, train_loss: 0.5366, step time: 0.3811
Batch 179/248, train_loss: 0.1434, step time: 0.3515
Batch 180/248, train_loss: 0.7805, step time: 0.3652
Batch 181/248, train_loss: 0.2619, step time: 0.3833
Batch 182/248, train_loss: 0.9643, step time: 0.3739
Batch 183/248, train_loss: 0.7850, step time: 0.3651
Batch 184/248, train_loss: 0.9551, step time: 0.3554
Batch 185/248, train_loss: 0.7867, step time: 0.3839
Batch 186/248, train_loss: 0.5583, step time: 0.3439
Batch 187/248, train_loss: 0.5612, step time: 0.3493
Batch 188/248, train_loss: 0.7912, step time: 0.3540
Batch 189/248, train_loss: 0.9996, step time: 0.3699
Batch 190/248, train_loss: 0.6067, step time: 0.3565
Batch 191/248, train_loss: 0.9983, step time: 0.3859
Batch 192/248, train_loss: 0.5971, step time: 0.3831
Batch 193/248, train_loss: 0.8859, step time: 0.3430
Batch 194/248, train_loss: 0.8565, step time: 0.3467
Batch 195/248, train_loss: 0.9996, step time: 0.3856
Batch 196/248, train_loss: 0.9999, step time: 0.3766
Batch 197/248, train_loss: 0.9254, step time: 0.3422
Batch 198/248, train_loss: 0.9999, step time: 0.3415
Batch 199/248, train_loss: 0.8081, step time: 0.3814
Batch 200/248, train_loss: 0.7565, step time: 0.3773
Batch 201/248, train_loss: 0.5333, step time: 0.3619
Batch 202/248, train_loss: 0.8863, step time: 0.3558
Batch 203/248, train_loss: 0.9938, step time: 0.3645
Batch 204/248, train_loss: 0.2413, step time: 0.3749
Batch 205/248, train_loss: 0.9546, step time: 0.3428
Batch 206/248, train_loss: 0.9971, step time: 0.3702
Batch 207/248, train_loss: 0.4323, step time: 0.3828
Batch 208/248, train_loss: 0.7572, step time: 0.3645
Batch 209/248, train_loss: 0.6687, step time: 0.3463
Batch 210/248, train_loss: 0.4188, step time: 0.3472
Batch 211/248, train_loss: 0.4328, step time: 0.3574
Batch 212/248, train_loss: 0.9045, step time: 0.3468
Batch 213/248, train_loss: 0.8772, step time: 0.3674
Batch 214/248, train_loss: 0.6112, step time: 0.3585
Batch 215/248, train_loss: 0.9191, step time: 0.3812
Batch 216/248, train_loss: 0.5057, step time: 0.3492
Batch 217/248, train_loss: 0.9626, step time: 0.3528
Batch 218/248, train_loss: 0.9969, step time: 0.3856
Batch 219/248, train_loss: 0.6339, step time: 0.3507
Batch 220/248, train_loss: 0.9201, step time: 0.3805
Batch 221/248, train_loss: 0.9145, step time: 0.3652
Batch 222/248, train_loss: 0.5050, step time: 0.3488
Batch 223/248, train_loss: 0.2092, step time: 0.3601
Batch 224/248, train_loss: 0.3823, step time: 0.3573
Batch 225/248, train_loss: 0.9930, step time: 0.3826
Batch 226/248, train_loss: 0.9599, step time: 0.3751
Batch 227/248, train_loss: 0.6018, step time: 0.3421
Batch 228/248, train_loss: 0.9065, step time: 0.3826
Batch 229/248, train_loss: 0.2522, step time: 0.3798
Batch 230/248, train_loss: 0.6180, step time: 0.3512
Batch 231/248, train_loss: 0.9929, step time: 0.3458
Batch 232/248, train_loss: 0.6162, step time: 0.3868
Batch 233/248, train_loss: 0.9999, step time: 0.3596
Batch 234/248, train_loss: 0.9921, step time: 0.3600
Batch 235/248, train_loss: 0.9941, step time: 0.3553
Batch 236/248, train_loss: 0.9993, step time: 0.3456
Batch 237/248, train_loss: 0.3083, step time: 0.3615
Batch 238/248, train_loss: 0.5220, step time: 0.3457

```
Batch 239/248, train_loss: 0.1731, step time: 0.3731
Batch 240/248, train_loss: 0.8698, step time: 0.3469
Batch 241/248, train_loss: 0.9997, step time: 0.3465
Batch 242/248, train_loss: 0.9473, step time: 0.3845
Batch 243/248, train_loss: 0.9985, step time: 0.3450
Batch 244/248, train_loss: 0.9856, step time: 0.3603
Batch 245/248, train_loss: 0.4634, step time: 0.3733
Batch 246/248, train_loss: 0.9909, step time: 0.3512
Batch 247/248, train_loss: 0.1552, step time: 0.3486
Batch 248/248, train_loss: 1.0000, step time: 0.3438
```

Labels



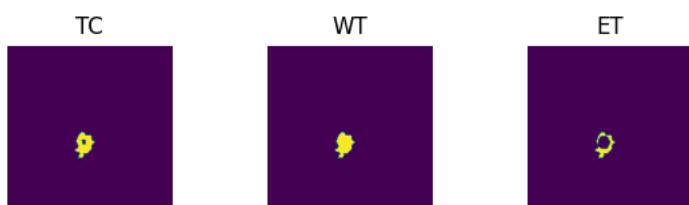
Predictions



VAL

```
Batch 1/31, val_loss: 0.8942
Batch 2/31, val_loss: 0.9998
Batch 3/31, val_loss: 0.9910
Batch 4/31, val_loss: 0.9882
Batch 5/31, val_loss: 0.9999
Batch 6/31, val_loss: 0.7275
Batch 7/31, val_loss: 0.9035
Batch 8/31, val_loss: 0.9867
Batch 9/31, val_loss: 0.7460
Batch 10/31, val_loss: 0.9842
Batch 11/31, val_loss: 0.9192
Batch 12/31, val_loss: 0.9780
Batch 13/31, val_loss: 0.9934
Batch 14/31, val_loss: 0.9754
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9965
Batch 17/31, val_loss: 0.9995
Batch 18/31, val_loss: 0.9804
Batch 19/31, val_loss: 0.8190
Batch 20/31, val_loss: 0.9260
Batch 21/31, val_loss: 0.9598
Batch 22/31, val_loss: 0.9980
Batch 23/31, val_loss: 0.9970
Batch 24/31, val_loss: 0.7638
Batch 25/31, val_loss: 0.8676
Batch 26/31, val_loss: 0.9799
Batch 27/31, val_loss: 0.9990
Batch 28/31, val_loss: 0.8690
Batch 29/31, val_loss: 0.9998
Batch 30/31, val_loss: 0.9965
Batch 31/31, val_loss: 0.9965
```

Labels



Predictions





```
epoch 36
average train loss: 0.7326
average validation loss: 0.9431
saved as best model: True
current mean dice: 0.2150
current TC dice: 0.2240
current WT dice: 0.2276
current ET dice: 0.2139
Best Mean Metric: 0.2150
time consuming of epoch 36 is: 1439.4010
```

```
-----
```

```
epoch 37/100
```

```
TRAIN
```

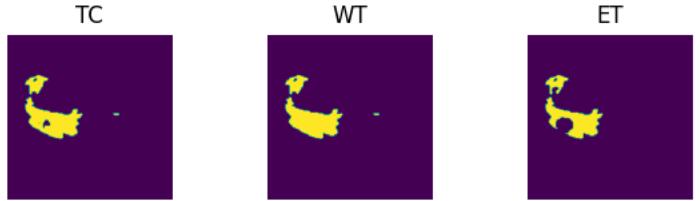
```
Batch 1/248, train_loss: 0.2403, step time: 0.3673
Batch 2/248, train_loss: 0.9998, step time: 0.3658
Batch 3/248, train_loss: 0.9747, step time: 0.3761
Batch 4/248, train_loss: 0.9993, step time: 0.3421
Batch 5/248, train_loss: 0.8972, step time: 0.3495
Batch 6/248, train_loss: 0.8634, step time: 0.3826
Batch 7/248, train_loss: 0.1546, step time: 0.3768
Batch 8/248, train_loss: 0.7719, step time: 0.3877
Batch 9/248, train_loss: 0.1931, step time: 0.3443
Batch 10/248, train_loss: 0.9526, step time: 0.3421
Batch 11/248, train_loss: 0.8762, step time: 0.3845
Batch 12/248, train_loss: 0.9949, step time: 0.3525
Batch 13/248, train_loss: 0.9746, step time: 0.3861
Batch 14/248, train_loss: 0.1088, step time: 0.3735
Batch 15/248, train_loss: 0.9473, step time: 0.3469
Batch 16/248, train_loss: 0.8458, step time: 0.3448
Batch 17/248, train_loss: 0.9976, step time: 0.3500
Batch 18/248, train_loss: 0.9839, step time: 0.3445
Batch 19/248, train_loss: 0.2736, step time: 0.3448
Batch 20/248, train_loss: 0.8255, step time: 0.3640
Batch 21/248, train_loss: 0.5191, step time: 0.3661
Batch 22/248, train_loss: 0.9998, step time: 0.3645
Batch 23/248, train_loss: 0.9998, step time: 0.3773
Batch 24/248, train_loss: 0.5955, step time: 0.3703
Batch 25/248, train_loss: 0.1406, step time: 0.3670
Batch 26/248, train_loss: 0.9867, step time: 0.3532
Batch 27/248, train_loss: 0.2035, step time: 0.3449
Batch 28/248, train_loss: 0.8218, step time: 0.3447
Batch 29/248, train_loss: 0.9931, step time: 0.3844
Batch 30/248, train_loss: 0.8575, step time: 0.3683
Batch 31/248, train_loss: 0.9455, step time: 0.3505
Batch 32/248, train_loss: 0.5205, step time: 0.3737
Batch 33/248, train_loss: 0.2032, step time: 0.3662
Batch 34/248, train_loss: 0.2773, step time: 0.3777
Batch 35/248, train_loss: 0.5863, step time: 0.3504
Batch 36/248, train_loss: 0.9995, step time: 0.3616
Batch 37/248, train_loss: 0.6854, step time: 0.3460
Batch 38/248, train_loss: 0.9266, step time: 0.3458
Batch 39/248, train_loss: 0.7651, step time: 0.3825
Batch 40/248, train_loss: 0.9991, step time: 0.3644
Batch 41/248, train_loss: 0.4890, step time: 0.3608
Batch 42/248, train_loss: 0.4298, step time: 0.3661
Batch 43/248, train_loss: 0.2334, step time: 0.3436
Batch 44/248, train_loss: 0.7462, step time: 0.3677
Batch 45/248, train_loss: 0.9453, step time: 0.3621
Batch 46/248, train_loss: 0.7409, step time: 0.3407
Batch 47/248, train_loss: 0.8258, step time: 0.3598
Batch 48/248, train_loss: 0.7465, step time: 0.3885
Batch 49/248, train_loss: 0.9856, step time: 0.3422
Batch 50/248, train_loss: 0.8530, step time: 0.3554
Batch 51/248, train_loss: 0.8372, step time: 0.3582
Batch 52/248, train_loss: 0.7502, step time: 0.3814
Batch 53/248, train_loss: 0.9386, step time: 0.3820
Batch 54/248, train_loss: 0.8285, step time: 0.3726
Batch 55/248, train_loss: 0.9454, step time: 0.3672
Batch 56/248, train_loss: 0.8581, step time: 0.3833
Batch 57/248, train_loss: 0.8596, step time: 0.3471
Batch 58/248, train_loss: 0.4864, step time: 0.3431
Batch 59/248, train_loss: 0.5743, step time: 0.3510
Batch 60/248, train_loss: 0.4549, step time: 0.3674
Batch 61/248, train_loss: 0.5891, step time: 0.3774
Batch 62/248, train_loss: 0.9542, step time: 0.3578
Batch 63/248, train_loss: 0.9949, step time: 0.3423
Batch 64/248, train_loss: 0.9888, step time: 0.3513
Batch 65/248, train_loss: 0.8473, step time: 0.3732
Batch 66/248, train_loss: 0.8644, step time: 0.3587
Batch 67/248, train_loss: 0.2032, step time: 0.3830
Batch 68/248, train_loss: 0.3948, step time: 0.3709
```

Batch 69/248, train_loss: 0.9998, step time: 0.3519
Batch 70/248, train_loss: 0.4940, step time: 0.3721
Batch 71/248, train_loss: 0.3844, step time: 0.3841
Batch 72/248, train_loss: 0.3516, step time: 0.3533
Batch 73/248, train_loss: 0.5001, step time: 0.3550
Batch 74/248, train_loss: 0.9997, step time: 0.3573
Batch 75/248, train_loss: 0.4886, step time: 0.3776
Batch 76/248, train_loss: 0.9955, step time: 0.3484
Batch 77/248, train_loss: 0.9992, step time: 0.3433
Batch 78/248, train_loss: 0.6910, step time: 0.3657
Batch 79/248, train_loss: 0.8174, step time: 0.3796
Batch 80/248, train_loss: 0.8984, step time: 0.3486
Batch 81/248, train_loss: 0.9322, step time: 0.3587
Batch 82/248, train_loss: 0.4528, step time: 0.3535
Batch 83/248, train_loss: 0.9924, step time: 0.3621
Batch 84/248, train_loss: 0.8346, step time: 0.3708
Batch 85/248, train_loss: 0.9923, step time: 0.3486
Batch 86/248, train_loss: 0.6502, step time: 0.3693
Batch 87/248, train_loss: 0.9720, step time: 0.3768
Batch 88/248, train_loss: 0.9782, step time: 0.3539
Batch 89/248, train_loss: 0.1771, step time: 0.3644
Batch 90/248, train_loss: 0.8488, step time: 0.3554
Batch 91/248, train_loss: 0.9922, step time: 0.3450
Batch 92/248, train_loss: 0.8508, step time: 0.3859
Batch 93/248, train_loss: 0.4297, step time: 0.3864
Batch 94/248, train_loss: 0.9913, step time: 0.3465
Batch 95/248, train_loss: 0.6758, step time: 0.3754
Batch 96/248, train_loss: 0.6536, step time: 0.3708
Batch 97/248, train_loss: 0.9999, step time: 0.3706
Batch 98/248, train_loss: 0.4077, step time: 0.3450
Batch 99/248, train_loss: 0.9720, step time: 0.3642
Batch 100/248, train_loss: 0.9953, step time: 0.3784
Batch 101/248, train_loss: 0.1059, step time: 0.3759
Batch 102/248, train_loss: 0.7646, step time: 0.3606
Batch 103/248, train_loss: 0.9892, step time: 0.3863
Batch 104/248, train_loss: 0.6945, step time: 0.3544
Batch 105/248, train_loss: 0.3077, step time: 0.3796
Batch 106/248, train_loss: 0.8730, step time: 0.3618
Batch 107/248, train_loss: 0.9732, step time: 0.3445
Batch 108/248, train_loss: 0.9858, step time: 0.3742
Batch 109/248, train_loss: 0.9990, step time: 0.3498
Batch 110/248, train_loss: 0.9135, step time: 0.3524
Batch 111/248, train_loss: 0.3368, step time: 0.3644
Batch 112/248, train_loss: 0.4151, step time: 0.3775
Batch 113/248, train_loss: 0.9999, step time: 0.3799
Batch 114/248, train_loss: 0.2498, step time: 0.3660
Batch 115/248, train_loss: 0.7394, step time: 0.3777
Batch 116/248, train_loss: 0.2949, step time: 0.3459
Batch 117/248, train_loss: 0.9964, step time: 0.3442
Batch 118/248, train_loss: 0.9937, step time: 0.3764
Batch 119/248, train_loss: 0.8050, step time: 0.3470
Batch 120/248, train_loss: 0.8257, step time: 0.3857
Batch 121/248, train_loss: 0.9505, step time: 0.3803
Batch 122/248, train_loss: 0.9726, step time: 0.3644
Batch 123/248, train_loss: 0.5057, step time: 0.3769
Batch 124/248, train_loss: 0.9721, step time: 0.3668
Batch 125/248, train_loss: 0.9945, step time: 0.3463
Batch 126/248, train_loss: 0.5264, step time: 0.3418
Batch 127/248, train_loss: 0.7833, step time: 0.3567
Batch 128/248, train_loss: 0.9056, step time: 0.3711
Batch 129/248, train_loss: 0.2422, step time: 0.3455
Batch 130/248, train_loss: 0.2453, step time: 0.3448
Batch 131/248, train_loss: 0.9674, step time: 0.3689
Batch 132/248, train_loss: 0.9772, step time: 0.3448
Batch 133/248, train_loss: 0.2230, step time: 0.3791
Batch 134/248, train_loss: 0.9999, step time: 0.3607
Batch 135/248, train_loss: 0.9820, step time: 0.3641
Batch 136/248, train_loss: 0.8788, step time: 0.3585
Batch 137/248, train_loss: 0.2698, step time: 0.3502
Batch 138/248, train_loss: 0.2957, step time: 0.3738
Batch 139/248, train_loss: 0.3995, step time: 0.3748
Batch 140/248, train_loss: 0.8696, step time: 0.3691
Batch 141/248, train_loss: 0.5147, step time: 0.3487
Batch 142/248, train_loss: 0.9961, step time: 0.3828
Batch 143/248, train_loss: 0.8826, step time: 0.3819
Batch 144/248, train_loss: 0.3381, step time: 0.3464
Batch 145/248, train_loss: 0.1418, step time: 0.3422
Batch 146/248, train_loss: 0.9993, step time: 0.3465
Batch 147/248, train_loss: 0.1097, step time: 0.3439
Batch 148/248, train_loss: 0.9826, step time: 0.3681
Batch 149/248, train_loss: 0.7256, step time: 0.3762
Batch 150/248, train_loss: 0.6309, step time: 0.3654
Batch 151/248, train_loss: 0.9784, step time: 0.3535
Batch 152/248, train_loss: 0.1064, step time: 0.3625
Batch 153/248, train_loss: 0.9596, step time: 0.3700

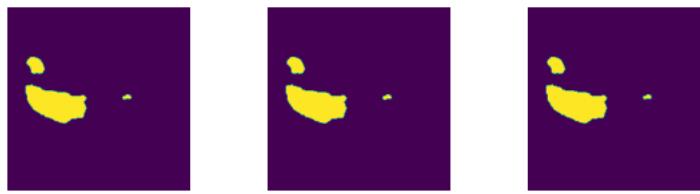
Batch 154/248, train_loss: 0.9916, step time: 0.3406
Batch 155/248, train_loss: 0.7665, step time: 0.3451
Batch 156/248, train_loss: 0.7860, step time: 0.3794
Batch 157/248, train_loss: 0.4428, step time: 0.3846
Batch 158/248, train_loss: 0.9992, step time: 0.3499
Batch 159/248, train_loss: 0.9971, step time: 0.3585
Batch 160/248, train_loss: 0.5064, step time: 0.3501
Batch 161/248, train_loss: 0.7447, step time: 0.3643
Batch 162/248, train_loss: 0.1460, step time: 0.3769
Batch 163/248, train_loss: 0.9761, step time: 0.3442
Batch 164/248, train_loss: 0.7793, step time: 0.3796
Batch 165/248, train_loss: 0.9993, step time: 0.3458
Batch 166/248, train_loss: 0.9450, step time: 0.3750
Batch 167/248, train_loss: 0.8014, step time: 0.3646
Batch 168/248, train_loss: 0.7685, step time: 0.3647
Batch 169/248, train_loss: 0.5309, step time: 0.3671
Batch 170/248, train_loss: 0.9911, step time: 0.3662
Batch 171/248, train_loss: 0.1721, step time: 0.3875
Batch 172/248, train_loss: 0.9992, step time: 0.3701
Batch 173/248, train_loss: 0.2998, step time: 0.3513
Batch 174/248, train_loss: 0.9893, step time: 0.3747
Batch 175/248, train_loss: 0.2201, step time: 0.3845
Batch 176/248, train_loss: 0.8662, step time: 0.3430
Batch 177/248, train_loss: 0.9985, step time: 0.3446
Batch 178/248, train_loss: 0.5304, step time: 0.3568
Batch 179/248, train_loss: 0.1482, step time: 0.3453
Batch 180/248, train_loss: 0.7556, step time: 0.3712
Batch 181/248, train_loss: 0.2353, step time: 0.3424
Batch 182/248, train_loss: 0.9600, step time: 0.3562
Batch 183/248, train_loss: 0.7625, step time: 0.3693
Batch 184/248, train_loss: 0.9542, step time: 0.3508
Batch 185/248, train_loss: 0.7697, step time: 0.3573
Batch 186/248, train_loss: 0.5409, step time: 0.3451
Batch 187/248, train_loss: 0.5445, step time: 0.3763
Batch 188/248, train_loss: 0.7835, step time: 0.3479
Batch 189/248, train_loss: 0.9993, step time: 0.3712
Batch 190/248, train_loss: 0.5972, step time: 0.3509
Batch 191/248, train_loss: 0.9972, step time: 0.3865
Batch 192/248, train_loss: 0.5744, step time: 0.3463
Batch 193/248, train_loss: 0.8854, step time: 0.3641
Batch 194/248, train_loss: 0.8458, step time: 0.3846
Batch 195/248, train_loss: 0.9973, step time: 0.3632
Batch 196/248, train_loss: 0.9999, step time: 0.3661
Batch 197/248, train_loss: 0.9222, step time: 0.3838
Batch 198/248, train_loss: 1.0000, step time: 0.3529
Batch 199/248, train_loss: 0.8062, step time: 0.3852
Batch 200/248, train_loss: 0.7355, step time: 0.3787
Batch 201/248, train_loss: 0.5242, step time: 0.3734
Batch 202/248, train_loss: 0.8781, step time: 0.3622
Batch 203/248, train_loss: 0.9992, step time: 0.3408
Batch 204/248, train_loss: 0.2299, step time: 0.3490
Batch 205/248, train_loss: 0.9556, step time: 0.3762
Batch 206/248, train_loss: 0.9970, step time: 0.3461
Batch 207/248, train_loss: 0.4156, step time: 0.3412
Batch 208/248, train_loss: 0.7546, step time: 0.3548
Batch 209/248, train_loss: 0.6499, step time: 0.3632
Batch 210/248, train_loss: 0.3992, step time: 0.3578
Batch 211/248, train_loss: 0.4060, step time: 0.3494
Batch 212/248, train_loss: 0.8977, step time: 0.3853
Batch 213/248, train_loss: 0.8733, step time: 0.3670
Batch 214/248, train_loss: 0.5961, step time: 0.3711
Batch 215/248, train_loss: 0.9206, step time: 0.3587
Batch 216/248, train_loss: 0.5012, step time: 0.3747
Batch 217/248, train_loss: 0.9608, step time: 0.3532
Batch 218/248, train_loss: 0.9966, step time: 0.3676
Batch 219/248, train_loss: 0.5890, step time: 0.3785
Batch 220/248, train_loss: 0.9182, step time: 0.3407
Batch 221/248, train_loss: 0.9001, step time: 0.3853
Batch 222/248, train_loss: 0.4941, step time: 0.3692
Batch 223/248, train_loss: 0.1865, step time: 0.3718
Batch 224/248, train_loss: 0.3615, step time: 0.3811
Batch 225/248, train_loss: 0.9946, step time: 0.3510
Batch 226/248, train_loss: 0.9578, step time: 0.3844
Batch 227/248, train_loss: 0.5886, step time: 0.3697
Batch 228/248, train_loss: 0.8998, step time: 0.3784
Batch 229/248, train_loss: 0.2310, step time: 0.3478
Batch 230/248, train_loss: 0.6006, step time: 0.3437
Batch 231/248, train_loss: 0.9993, step time: 0.3467
Batch 232/248, train_loss: 0.5856, step time: 0.3454
Batch 233/248, train_loss: 0.9999, step time: 0.3461
Batch 234/248, train_loss: 0.9908, step time: 0.3740
Batch 235/248, train_loss: 0.9935, step time: 0.3425
Batch 236/248, train_loss: 0.9994, step time: 0.3457
Batch 237/248, train_loss: 0.3056, step time: 0.3421
Batch 238/248, train_loss: 0.5173, step time: 0.3436

```
Batch 239/248, train_loss: 0.1785, step time: 0.3729
Batch 240/248, train_loss: 0.8626, step time: 0.3748
Batch 241/248, train_loss: 0.9999, step time: 0.3828
Batch 242/248, train_loss: 0.9599, step time: 0.3480
Batch 243/248, train_loss: 0.9997, step time: 0.3454
Batch 244/248, train_loss: 0.9882, step time: 0.3447
Batch 245/248, train_loss: 0.4481, step time: 0.3504
Batch 246/248, train_loss: 0.9896, step time: 0.3821
Batch 247/248, train_loss: 0.1548, step time: 0.3721
Batch 248/248, train_loss: 1.0000, step time: 0.3656
```

Labels



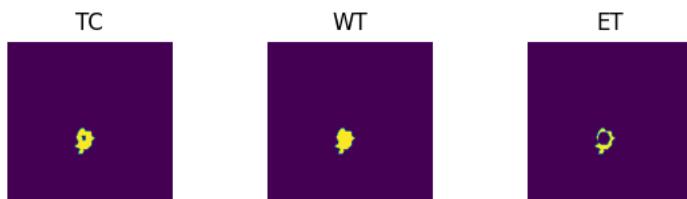
Predictions



VAL

```
Batch 1/31, val_loss: 0.8993
Batch 2/31, val_loss: 0.9997
Batch 3/31, val_loss: 0.9907
Batch 4/31, val_loss: 0.9945
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.7284
Batch 7/31, val_loss: 0.8921
Batch 8/31, val_loss: 0.9757
Batch 9/31, val_loss: 0.7384
Batch 10/31, val_loss: 0.9876
Batch 11/31, val_loss: 0.9120
Batch 12/31, val_loss: 0.9804
Batch 13/31, val_loss: 0.9947
Batch 14/31, val_loss: 0.9770
Batch 15/31, val_loss: 0.9986
Batch 16/31, val_loss: 0.9956
Batch 17/31, val_loss: 0.9993
Batch 18/31, val_loss: 0.9886
Batch 19/31, val_loss: 0.8167
Batch 20/31, val_loss: 0.9149
Batch 21/31, val_loss: 0.9587
Batch 22/31, val_loss: 0.9966
Batch 23/31, val_loss: 0.9981
Batch 24/31, val_loss: 0.7619
Batch 25/31, val_loss: 0.8609
Batch 26/31, val_loss: 0.9788
Batch 27/31, val_loss: 0.9992
Batch 28/31, val_loss: 0.8612
Batch 29/31, val_loss: 0.9997
Batch 30/31, val_loss: 0.9970
Batch 31/31, val_loss: 0.9968
```

Labels



Predictions





```
epoch 37
average train loss: 0.7258
average validation loss: 0.9417
saved as best model: True
current mean dice: 0.2268
current TC dice: 0.2361
current WT dice: 0.2400
current ET dice: 0.2262
Best Mean Metric: 0.2268
time consuming of epoch 37 is: 1461.6346
-----
```

```
epoch 38/100
```

```
TRAIN
```

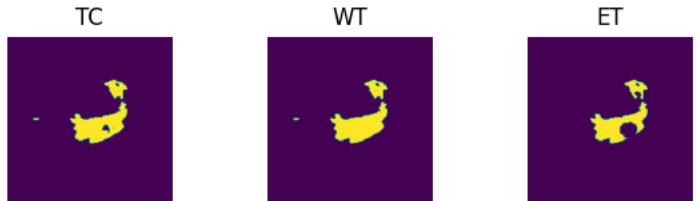
```
Batch 1/248, train_loss: 0.2180, step time: 0.3556
Batch 2/248, train_loss: 0.9992, step time: 0.3434
Batch 3/248, train_loss: 0.9722, step time: 0.3749
Batch 4/248, train_loss: 0.9998, step time: 0.3666
Batch 5/248, train_loss: 0.8816, step time: 0.3472
Batch 6/248, train_loss: 0.8650, step time: 0.3729
Batch 7/248, train_loss: 0.1489, step time: 0.3663
Batch 8/248, train_loss: 0.7747, step time: 0.3697
Batch 9/248, train_loss: 0.1769, step time: 0.3873
Batch 10/248, train_loss: 0.9648, step time: 0.3676
Batch 11/248, train_loss: 0.8684, step time: 0.3429
Batch 12/248, train_loss: 0.9965, step time: 0.3611
Batch 13/248, train_loss: 0.9752, step time: 0.3603
Batch 14/248, train_loss: 0.1078, step time: 0.3805
Batch 15/248, train_loss: 0.9410, step time: 0.3758
Batch 16/248, train_loss: 0.8362, step time: 0.3744
Batch 17/248, train_loss: 0.9957, step time: 0.3441
Batch 18/248, train_loss: 0.9822, step time: 0.3740
Batch 19/248, train_loss: 0.2754, step time: 0.3615
Batch 20/248, train_loss: 0.8197, step time: 0.3619
Batch 21/248, train_loss: 0.5071, step time: 0.3659
Batch 22/248, train_loss: 0.9999, step time: 0.3451
Batch 23/248, train_loss: 0.9975, step time: 0.3599
Batch 24/248, train_loss: 0.5817, step time: 0.3481
Batch 25/248, train_loss: 0.1420, step time: 0.3683
Batch 26/248, train_loss: 0.9918, step time: 0.3471
Batch 27/248, train_loss: 0.1800, step time: 0.3683
Batch 28/248, train_loss: 0.8158, step time: 0.3532
Batch 29/248, train_loss: 0.9936, step time: 0.3761
Batch 30/248, train_loss: 0.8491, step time: 0.3509
Batch 31/248, train_loss: 0.9337, step time: 0.3742
Batch 32/248, train_loss: 0.5123, step time: 0.3830
Batch 33/248, train_loss: 0.1908, step time: 0.3840
Batch 34/248, train_loss: 0.2653, step time: 0.3447
Batch 35/248, train_loss: 0.5713, step time: 0.3715
Batch 36/248, train_loss: 0.9997, step time: 0.3548
Batch 37/248, train_loss: 0.6653, step time: 0.3614
Batch 38/248, train_loss: 0.9209, step time: 0.3590
Batch 39/248, train_loss: 0.7370, step time: 0.3837
Batch 40/248, train_loss: 0.9991, step time: 0.3432
Batch 41/248, train_loss: 0.4770, step time: 0.3707
Batch 42/248, train_loss: 0.4100, step time: 0.3546
Batch 43/248, train_loss: 0.2124, step time: 0.3659
Batch 44/248, train_loss: 0.7266, step time: 0.3730
Batch 45/248, train_loss: 0.9206, step time: 0.3611
Batch 46/248, train_loss: 0.7290, step time: 0.3629
Batch 47/248, train_loss: 0.8197, step time: 0.3702
Batch 48/248, train_loss: 0.7373, step time: 0.3637
Batch 49/248, train_loss: 0.9935, step time: 0.3838
Batch 50/248, train_loss: 0.8464, step time: 0.3502
Batch 51/248, train_loss: 0.8111, step time: 0.3611
Batch 52/248, train_loss: 0.7387, step time: 0.3559
Batch 53/248, train_loss: 0.9330, step time: 0.3667
Batch 54/248, train_loss: 0.8165, step time: 0.3495
Batch 55/248, train_loss: 0.9440, step time: 0.3611
Batch 56/248, train_loss: 0.8610, step time: 0.3429
Batch 57/248, train_loss: 0.8549, step time: 0.3678
Batch 58/248, train_loss: 0.4712, step time: 0.3701
Batch 59/248, train_loss: 0.5633, step time: 0.3740
Batch 60/248, train_loss: 0.4322, step time: 0.3545
Batch 61/248, train_loss: 0.5724, step time: 0.3468
Batch 62/248, train_loss: 0.9497, step time: 0.3789
Batch 63/248, train_loss: 0.9930, step time: 0.3720
Batch 64/248, train_loss: 0.9897, step time: 0.3853
Batch 65/248, train_loss: 0.8402, step time: 0.3740
Batch 66/248, train_loss: 0.8437, step time: 0.3653
Batch 67/248, train_loss: 0.1910, step time: 0.3732
Batch 68/248, train_loss: 0.3801, step time: 0.3872
```

Batch 69/248, train_loss: 0.9998, step time: 0.3473
Batch 70/248, train_loss: 0.4820, step time: 0.3491
Batch 71/248, train_loss: 0.3999, step time: 0.3499
Batch 72/248, train_loss: 0.3349, step time: 0.3724
Batch 73/248, train_loss: 0.4748, step time: 0.3536
Batch 74/248, train_loss: 0.9997, step time: 0.3428
Batch 75/248, train_loss: 0.4680, step time: 0.3752
Batch 76/248, train_loss: 0.9924, step time: 0.3482
Batch 77/248, train_loss: 0.9996, step time: 0.3503
Batch 78/248, train_loss: 0.6821, step time: 0.3833
Batch 79/248, train_loss: 0.8162, step time: 0.3450
Batch 80/248, train_loss: 0.9002, step time: 0.3482
Batch 81/248, train_loss: 0.9269, step time: 0.3640
Batch 82/248, train_loss: 0.4416, step time: 0.3695
Batch 83/248, train_loss: 0.9909, step time: 0.3763
Batch 84/248, train_loss: 0.8264, step time: 0.3696
Batch 85/248, train_loss: 0.9953, step time: 0.3434
Batch 86/248, train_loss: 0.6780, step time: 0.3556
Batch 87/248, train_loss: 0.9910, step time: 0.3443
Batch 88/248, train_loss: 0.9759, step time: 0.3695
Batch 89/248, train_loss: 0.1614, step time: 0.3749
Batch 90/248, train_loss: 0.8461, step time: 0.3483
Batch 91/248, train_loss: 0.9907, step time: 0.3456
Batch 92/248, train_loss: 0.8971, step time: 0.3577
Batch 93/248, train_loss: 0.4204, step time: 0.3830
Batch 94/248, train_loss: 0.9909, step time: 0.3808
Batch 95/248, train_loss: 0.6714, step time: 0.3832
Batch 96/248, train_loss: 0.6284, step time: 0.3823
Batch 97/248, train_loss: 0.9999, step time: 0.3478
Batch 98/248, train_loss: 0.3863, step time: 0.3452
Batch 99/248, train_loss: 0.9729, step time: 0.3540
Batch 100/248, train_loss: 0.9944, step time: 0.3831
Batch 101/248, train_loss: 0.1055, step time: 0.3584
Batch 102/248, train_loss: 0.7470, step time: 0.3817
Batch 103/248, train_loss: 0.9883, step time: 0.3798
Batch 104/248, train_loss: 0.6838, step time: 0.3534
Batch 105/248, train_loss: 0.2911, step time: 0.3666
Batch 106/248, train_loss: 0.8632, step time: 0.3490
Batch 107/248, train_loss: 0.9704, step time: 0.3568
Batch 108/248, train_loss: 0.9839, step time: 0.3675
Batch 109/248, train_loss: 0.9992, step time: 0.3759
Batch 110/248, train_loss: 0.9319, step time: 0.3839
Batch 111/248, train_loss: 0.3283, step time: 0.3672
Batch 112/248, train_loss: 0.3900, step time: 0.3650
Batch 113/248, train_loss: 0.9998, step time: 0.3696
Batch 114/248, train_loss: 0.2491, step time: 0.3827
Batch 115/248, train_loss: 0.7348, step time: 0.3550
Batch 116/248, train_loss: 0.2761, step time: 0.3795
Batch 117/248, train_loss: 0.9963, step time: 0.3805
Batch 118/248, train_loss: 0.9790, step time: 0.3616
Batch 119/248, train_loss: 0.7811, step time: 0.3724
Batch 120/248, train_loss: 0.7966, step time: 0.3775
Batch 121/248, train_loss: 0.9530, step time: 0.3689
Batch 122/248, train_loss: 0.9647, step time: 0.3753
Batch 123/248, train_loss: 0.4912, step time: 0.3695
Batch 124/248, train_loss: 0.9743, step time: 0.3469
Batch 125/248, train_loss: 0.9942, step time: 0.3452
Batch 126/248, train_loss: 0.5480, step time: 0.3507
Batch 127/248, train_loss: 0.7688, step time: 0.3715
Batch 128/248, train_loss: 0.9041, step time: 0.3566
Batch 129/248, train_loss: 0.2194, step time: 0.3473
Batch 130/248, train_loss: 0.2521, step time: 0.3785
Batch 131/248, train_loss: 0.9626, step time: 0.3600
Batch 132/248, train_loss: 0.9676, step time: 0.3537
Batch 133/248, train_loss: 0.1972, step time: 0.3423
Batch 134/248, train_loss: 1.0000, step time: 0.3635
Batch 135/248, train_loss: 0.9817, step time: 0.3726
Batch 136/248, train_loss: 0.8706, step time: 0.3805
Batch 137/248, train_loss: 0.2401, step time: 0.3459
Batch 138/248, train_loss: 0.2687, step time: 0.3439
Batch 139/248, train_loss: 0.3630, step time: 0.3750
Batch 140/248, train_loss: 0.8636, step time: 0.3429
Batch 141/248, train_loss: 0.4922, step time: 0.3727
Batch 142/248, train_loss: 0.9937, step time: 0.3835
Batch 143/248, train_loss: 0.8761, step time: 0.3721
Batch 144/248, train_loss: 0.3047, step time: 0.3561
Batch 145/248, train_loss: 0.1239, step time: 0.3789
Batch 146/248, train_loss: 0.9990, step time: 0.3642
Batch 147/248, train_loss: 0.1040, step time: 0.3460
Batch 148/248, train_loss: 0.9816, step time: 0.3799
Batch 149/248, train_loss: 0.7111, step time: 0.3480
Batch 150/248, train_loss: 0.6538, step time: 0.3420
Batch 151/248, train_loss: 0.9714, step time: 0.3790
Batch 152/248, train_loss: 0.1103, step time: 0.3447
Batch 153/248, train_loss: 0.9606, step time: 0.3452

Batch 125/248, train_loss: 0.9999, step time: 0.3502
Batch 154/248, train_loss: 0.9905, step time: 0.3540
Batch 155/248, train_loss: 0.7488, step time: 0.3538
Batch 156/248, train_loss: 0.7555, step time: 0.3436
Batch 157/248, train_loss: 0.4387, step time: 0.3414
Batch 158/248, train_loss: 0.9997, step time: 0.3535
Batch 159/248, train_loss: 0.9954, step time: 0.3438
Batch 160/248, train_loss: 0.4899, step time: 0.3520
Batch 161/248, train_loss: 0.7235, step time: 0.3625
Batch 162/248, train_loss: 0.1357, step time: 0.3448
Batch 163/248, train_loss: 0.9751, step time: 0.3502
Batch 164/248, train_loss: 0.7680, step time: 0.3509
Batch 165/248, train_loss: 0.9992, step time: 0.3448
Batch 166/248, train_loss: 0.9436, step time: 0.3513
Batch 167/248, train_loss: 0.7934, step time: 0.3511
Batch 168/248, train_loss: 0.7618, step time: 0.3727
Batch 169/248, train_loss: 0.5140, step time: 0.3508
Batch 170/248, train_loss: 0.9906, step time: 0.3782
Batch 171/248, train_loss: 0.1614, step time: 0.3788
Batch 172/248, train_loss: 0.9991, step time: 0.3470
Batch 173/248, train_loss: 0.2951, step time: 0.3442
Batch 174/248, train_loss: 0.9999, step time: 0.3535
Batch 175/248, train_loss: 0.2210, step time: 0.3904
Batch 176/248, train_loss: 0.8608, step time: 0.3417
Batch 177/248, train_loss: 0.9995, step time: 0.3479
Batch 178/248, train_loss: 0.5246, step time: 0.3515
Batch 179/248, train_loss: 0.1380, step time: 0.3434
Batch 180/248, train_loss: 0.7605, step time: 0.3709
Batch 181/248, train_loss: 0.2354, step time: 0.3750
Batch 182/248, train_loss: 0.9612, step time: 0.3760
Batch 183/248, train_loss: 0.7645, step time: 0.3595
Batch 184/248, train_loss: 0.9518, step time: 0.3856
Batch 185/248, train_loss: 0.7558, step time: 0.3835
Batch 186/248, train_loss: 0.5255, step time: 0.3577
Batch 187/248, train_loss: 0.5291, step time: 0.3604
Batch 188/248, train_loss: 0.7757, step time: 0.3729
Batch 189/248, train_loss: 0.9996, step time: 0.3494
Batch 190/248, train_loss: 0.5811, step time: 0.3859
Batch 191/248, train_loss: 0.9992, step time: 0.3667
Batch 192/248, train_loss: 0.5844, step time: 0.3780
Batch 193/248, train_loss: 0.8725, step time: 0.3637
Batch 194/248, train_loss: 0.8404, step time: 0.3496
Batch 195/248, train_loss: 0.9997, step time: 0.3819
Batch 196/248, train_loss: 1.0000, step time: 0.3752
Batch 197/248, train_loss: 0.9145, step time: 0.3795
Batch 198/248, train_loss: 1.0000, step time: 0.3585
Batch 199/248, train_loss: 0.7957, step time: 0.3468
Batch 200/248, train_loss: 0.7257, step time: 0.3507
Batch 201/248, train_loss: 0.5132, step time: 0.3679
Batch 202/248, train_loss: 0.8740, step time: 0.4189
Batch 203/248, train_loss: 0.9972, step time: 0.3596
Batch 204/248, train_loss: 0.2239, step time: 0.3867
Batch 205/248, train_loss: 0.9489, step time: 0.3885
Batch 206/248, train_loss: 0.9966, step time: 0.3505
Batch 207/248, train_loss: 0.3921, step time: 0.3728
Batch 208/248, train_loss: 0.7364, step time: 0.3767
Batch 209/248, train_loss: 0.6349, step time: 0.3480
Batch 210/248, train_loss: 0.3832, step time: 0.3775
Batch 211/248, train_loss: 0.3885, step time: 0.3584
Batch 212/248, train_loss: 0.8919, step time: 0.3815
Batch 213/248, train_loss: 0.8675, step time: 0.3731
Batch 214/248, train_loss: 0.5837, step time: 0.3620
Batch 215/248, train_loss: 0.9104, step time: 0.3681
Batch 216/248, train_loss: 0.4854, step time: 0.3875
Batch 217/248, train_loss: 0.9575, step time: 0.3666
Batch 218/248, train_loss: 0.9966, step time: 0.3426
Batch 219/248, train_loss: 0.5898, step time: 0.3814
Batch 220/248, train_loss: 0.9113, step time: 0.3840
Batch 221/248, train_loss: 0.9055, step time: 0.3896
Batch 222/248, train_loss: 0.4801, step time: 0.3867
Batch 223/248, train_loss: 0.1865, step time: 0.3453
Batch 224/248, train_loss: 0.3546, step time: 0.3627
Batch 225/248, train_loss: 0.9906, step time: 0.3819
Batch 226/248, train_loss: 0.9544, step time: 0.3831
Batch 227/248, train_loss: 0.5804, step time: 0.3760
Batch 228/248, train_loss: 0.8979, step time: 0.3465
Batch 229/248, train_loss: 0.2125, step time: 0.3828
Batch 230/248, train_loss: 0.5830, step time: 0.3445
Batch 231/248, train_loss: 0.9947, step time: 0.3497
Batch 232/248, train_loss: 0.5764, step time: 0.3671
Batch 233/248, train_loss: 0.9998, step time: 0.3779
Batch 234/248, train_loss: 0.9894, step time: 0.3775
Batch 235/248, train_loss: 0.9894, step time: 0.3834
Batch 236/248, train_loss: 0.9992, step time: 0.3790
Batch 237/248, train_loss: 0.2885, step time: 0.3735

```
Batch 238/248, train_loss: 0.4999, step time: 0.3469  
Batch 239/248, train_loss: 0.1494, step time: 0.3609  
Batch 240/248, train_loss: 0.8560, step time: 0.3884  
Batch 241/248, train_loss: 1.0000, step time: 0.3691  
Batch 242/248, train_loss: 0.9411, step time: 0.3439  
Batch 243/248, train_loss: 0.9997, step time: 0.3536  
Batch 244/248, train_loss: 0.9912, step time: 0.3698  
Batch 245/248, train_loss: 0.4260, step time: 0.3465  
Batch 246/248, train_loss: 0.9916, step time: 0.3441  
Batch 247/248, train_loss: 0.1532, step time: 0.3750  
Batch 248/248, train_loss: 1.0000, step time: 0.3453
```

Labels



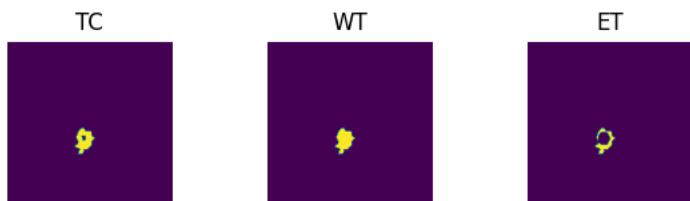
Predictions



VAL

```
Batch 1/31, val_loss: 0.8962  
Batch 2/31, val_loss: 0.9997  
Batch 3/31, val_loss: 0.9885  
Batch 4/31, val_loss: 0.9957  
Batch 5/31, val_loss: 1.0000  
Batch 6/31, val_loss: 0.7296  
Batch 7/31, val_loss: 0.8978  
Batch 8/31, val_loss: 0.9848  
Batch 9/31, val_loss: 0.7361  
Batch 10/31, val_loss: 0.9871  
Batch 11/31, val_loss: 0.9888  
Batch 12/31, val_loss: 0.9802  
Batch 13/31, val_loss: 0.9941  
Batch 14/31, val_loss: 0.9767  
Batch 15/31, val_loss: 0.9999  
Batch 16/31, val_loss: 0.9949  
Batch 17/31, val_loss: 0.9994  
Batch 18/31, val_loss: 0.9870  
Batch 19/31, val_loss: 0.8157  
Batch 20/31, val_loss: 0.9198  
Batch 21/31, val_loss: 0.9579  
Batch 22/31, val_loss: 0.9985  
Batch 23/31, val_loss: 0.9972  
Batch 24/31, val_loss: 0.7636  
Batch 25/31, val_loss: 0.8586  
Batch 26/31, val_loss: 0.9772  
Batch 27/31, val_loss: 0.9992  
Batch 28/31, val_loss: 0.8553  
Batch 29/31, val_loss: 0.9998  
Batch 30/31, val_loss: 0.9959  
Batch 31/31, val_loss: 0.9963
```

Labels



Predictions





```
epoch 38
average train loss: 0.7189
average validation loss: 0.9417
saved as best model: False
current mean dice: 0.2267
current TC dice: 0.2362
current WT dice: 0.2401
current ET dice: 0.2255
Best Mean Metric: 0.2268
time consuming of epoch 38 is: 1450.9471
-----
```

```
epoch 39/100
```

```
TRAIN
```

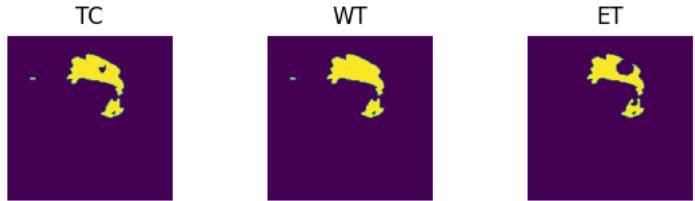
```
Batch 1/248, train_loss: 0.2042, step time: 0.3822
Batch 2/248, train_loss: 0.9994, step time: 0.3586
Batch 3/248, train_loss: 0.9738, step time: 0.3498
Batch 4/248, train_loss: 0.9989, step time: 0.3607
Batch 5/248, train_loss: 0.8865, step time: 0.3552
Batch 6/248, train_loss: 0.8574, step time: 0.3841
Batch 7/248, train_loss: 0.1416, step time: 0.3762
Batch 8/248, train_loss: 0.7800, step time: 0.3788
Batch 9/248, train_loss: 0.1688, step time: 0.3447
Batch 10/248, train_loss: 0.9463, step time: 0.3425
Batch 11/248, train_loss: 0.8653, step time: 0.3595
Batch 12/248, train_loss: 0.9977, step time: 0.3617
Batch 13/248, train_loss: 0.9690, step time: 0.3567
Batch 14/248, train_loss: 0.1023, step time: 0.3428
Batch 15/248, train_loss: 0.9378, step time: 0.3724
Batch 16/248, train_loss: 0.8311, step time: 0.3536
Batch 17/248, train_loss: 0.9985, step time: 0.3427
Batch 18/248, train_loss: 0.9809, step time: 0.3874
Batch 19/248, train_loss: 0.2479, step time: 0.3444
Batch 20/248, train_loss: 0.8068, step time: 0.3576
Batch 21/248, train_loss: 0.4892, step time: 0.3426
Batch 22/248, train_loss: 0.9999, step time: 0.3539
Batch 23/248, train_loss: 0.9973, step time: 0.3699
Batch 24/248, train_loss: 0.5631, step time: 0.3443
Batch 25/248, train_loss: 0.1355, step time: 0.3777
Batch 26/248, train_loss: 0.9926, step time: 0.3790
Batch 27/248, train_loss: 0.1768, step time: 0.3433
Batch 28/248, train_loss: 0.8087, step time: 0.3801
Batch 29/248, train_loss: 0.9935, step time: 0.3426
Batch 30/248, train_loss: 0.8422, step time: 0.3565
Batch 31/248, train_loss: 0.9324, step time: 0.3833
Batch 32/248, train_loss: 0.4900, step time: 0.3456
Batch 33/248, train_loss: 0.1624, step time: 0.3477
Batch 34/248, train_loss: 0.2384, step time: 0.3449
Batch 35/248, train_loss: 0.5538, step time: 0.3580
Batch 36/248, train_loss: 0.9997, step time: 0.3465
Batch 37/248, train_loss: 0.6593, step time: 0.3493
Batch 38/248, train_loss: 0.9129, step time: 0.3834
Batch 39/248, train_loss: 0.7220, step time: 0.3510
Batch 40/248, train_loss: 0.9990, step time: 0.3516
Batch 41/248, train_loss: 0.4661, step time: 0.3578
Batch 42/248, train_loss: 0.3902, step time: 0.3643
Batch 43/248, train_loss: 0.1961, step time: 0.3828
Batch 44/248, train_loss: 0.7209, step time: 0.3709
Batch 45/248, train_loss: 0.9318, step time: 0.3692
Batch 46/248, train_loss: 0.7024, step time: 0.3658
Batch 47/248, train_loss: 0.8110, step time: 0.3747
Batch 48/248, train_loss: 0.7366, step time: 0.3814
Batch 49/248, train_loss: 0.9862, step time: 0.3552
Batch 50/248, train_loss: 0.8410, step time: 0.3572
Batch 51/248, train_loss: 0.8109, step time: 0.3490
Batch 52/248, train_loss: 0.7316, step time: 0.3410
Batch 53/248, train_loss: 0.9362, step time: 0.3725
Batch 54/248, train_loss: 0.8126, step time: 0.3431
Batch 55/248, train_loss: 0.9397, step time: 0.3442
Batch 56/248, train_loss: 0.8449, step time: 0.3782
Batch 57/248, train_loss: 0.8532, step time: 0.3823
Batch 58/248, train_loss: 0.4485, step time: 0.3470
Batch 59/248, train_loss: 0.5469, step time: 0.3787
Batch 60/248, train_loss: 0.4100, step time: 0.3800
Batch 61/248, train_loss: 0.5572, step time: 0.3620
Batch 62/248, train_loss: 0.9530, step time: 0.3418
Batch 63/248, train_loss: 0.9936, step time: 0.3795
Batch 64/248, train_loss: 0.9876, step time: 0.3581
Batch 65/248, train_loss: 0.8418, step time: 0.3531
Batch 66/248, train_loss: 0.8428, step time: 0.3575
Batch 67/248, train_loss: 0.1943, step time: 0.3678
Batch 68/248, train_loss: 0.3860, step time: 0.3771
```

Batch 55/248, train_loss: 0.5000, step time: 0.3774
Batch 69/248, train_loss: 0.9971, step time: 0.3520
Batch 70/248, train_loss: 0.4597, step time: 0.3653
Batch 71/248, train_loss: 0.3723, step time: 0.3776
Batch 72/248, train_loss: 0.3256, step time: 0.3485
Batch 73/248, train_loss: 0.4498, step time: 0.3504
Batch 74/248, train_loss: 0.9991, step time: 0.3719
Batch 75/248, train_loss: 0.4491, step time: 0.3486
Batch 76/248, train_loss: 0.9929, step time: 0.3850
Batch 77/248, train_loss: 0.9997, step time: 0.3473
Batch 78/248, train_loss: 0.6688, step time: 0.3653
Batch 79/248, train_loss: 0.8010, step time: 0.3446
Batch 80/248, train_loss: 0.8902, step time: 0.3517
Batch 81/248, train_loss: 0.9264, step time: 0.3710
Batch 82/248, train_loss: 0.4210, step time: 0.3590
Batch 83/248, train_loss: 0.9914, step time: 0.3749
Batch 84/248, train_loss: 0.8161, step time: 0.3766
Batch 85/248, train_loss: 0.9976, step time: 0.3608
Batch 86/248, train_loss: 0.6768, step time: 0.3859
Batch 87/248, train_loss: 0.9899, step time: 0.3593
Batch 88/248, train_loss: 0.9775, step time: 0.3442
Batch 89/248, train_loss: 0.1683, step time: 0.3461
Batch 90/248, train_loss: 0.8472, step time: 0.3677
Batch 91/248, train_loss: 0.9904, step time: 0.3638
Batch 92/248, train_loss: 0.8336, step time: 0.3851
Batch 93/248, train_loss: 0.4023, step time: 0.3885
Batch 94/248, train_loss: 0.9904, step time: 0.3790
Batch 95/248, train_loss: 0.6552, step time: 0.3450
Batch 96/248, train_loss: 0.6122, step time: 0.3483
Batch 97/248, train_loss: 0.9999, step time: 0.3848
Batch 98/248, train_loss: 0.3663, step time: 0.3675
Batch 99/248, train_loss: 0.9712, step time: 0.3560
Batch 100/248, train_loss: 0.9944, step time: 0.3643
Batch 101/248, train_loss: 0.0993, step time: 0.3843
Batch 102/248, train_loss: 0.7332, step time: 0.3479
Batch 103/248, train_loss: 0.9871, step time: 0.3603
Batch 104/248, train_loss: 0.6603, step time: 0.3779
Batch 105/248, train_loss: 0.2783, step time: 0.3819
Batch 106/248, train_loss: 0.8500, step time: 0.3487
Batch 107/248, train_loss: 0.9683, step time: 0.3417
Batch 108/248, train_loss: 0.9854, step time: 0.3845
Batch 109/248, train_loss: 0.9989, step time: 0.3758
Batch 110/248, train_loss: 0.9140, step time: 0.3692
Batch 111/248, train_loss: 0.3021, step time: 0.3462
Batch 112/248, train_loss: 0.3406, step time: 0.3790
Batch 113/248, train_loss: 0.9998, step time: 0.3573
Batch 114/248, train_loss: 0.2413, step time: 0.3422
Batch 115/248, train_loss: 0.7182, step time: 0.3828
Batch 116/248, train_loss: 0.2678, step time: 0.3829
Batch 117/248, train_loss: 0.9940, step time: 0.3555
Batch 118/248, train_loss: 0.9729, step time: 0.3793
Batch 119/248, train_loss: 0.7860, step time: 0.3448
Batch 120/248, train_loss: 0.7997, step time: 0.3823
Batch 121/248, train_loss: 0.9385, step time: 0.3836
Batch 122/248, train_loss: 0.9586, step time: 0.3763
Batch 123/248, train_loss: 0.4674, step time: 0.3579
Batch 124/248, train_loss: 0.9677, step time: 0.3623
Batch 125/248, train_loss: 0.9957, step time: 0.3492
Batch 126/248, train_loss: 0.5192, step time: 0.3496
Batch 127/248, train_loss: 0.7552, step time: 0.3798
Batch 128/248, train_loss: 0.8985, step time: 0.3864
Batch 129/248, train_loss: 0.2131, step time: 0.3505
Batch 130/248, train_loss: 0.2178, step time: 0.3645
Batch 131/248, train_loss: 0.9640, step time: 0.3679
Batch 132/248, train_loss: 0.9662, step time: 0.3829
Batch 133/248, train_loss: 0.2099, step time: 0.3700
Batch 134/248, train_loss: 0.9999, step time: 0.3748
Batch 135/248, train_loss: 0.9789, step time: 0.3780
Batch 136/248, train_loss: 0.8664, step time: 0.3662
Batch 137/248, train_loss: 0.2472, step time: 0.3877
Batch 138/248, train_loss: 0.2687, step time: 0.3794
Batch 139/248, train_loss: 0.3688, step time: 0.3425
Batch 140/248, train_loss: 0.8559, step time: 0.3421
Batch 141/248, train_loss: 0.4783, step time: 0.3702
Batch 142/248, train_loss: 0.9916, step time: 0.3525
Batch 143/248, train_loss: 0.8696, step time: 0.3844
Batch 144/248, train_loss: 0.3016, step time: 0.3425
Batch 145/248, train_loss: 0.1228, step time: 0.3470
Batch 146/248, train_loss: 0.9989, step time: 0.3489
Batch 147/248, train_loss: 0.1065, step time: 0.3525
Batch 148/248, train_loss: 0.9782, step time: 0.3519
Batch 149/248, train_loss: 0.6989, step time: 0.3425
Batch 150/248, train_loss: 0.6077, step time: 0.3459
Batch 151/248, train_loss: 0.9692, step time: 0.3455
Batch 152/248, train_loss: 0.1004, step time: 0.3747

Batch 153/248, train_loss: 0.9510, step time: 0.3434
Batch 154/248, train_loss: 0.9895, step time: 0.3417
Batch 155/248, train_loss: 0.7283, step time: 0.3452
Batch 156/248, train_loss: 0.7480, step time: 0.3805
Batch 157/248, train_loss: 0.4320, step time: 0.3427
Batch 158/248, train_loss: 0.9995, step time: 0.3690
Batch 159/248, train_loss: 0.9976, step time: 0.3831
Batch 160/248, train_loss: 0.4761, step time: 0.3884
Batch 161/248, train_loss: 0.7175, step time: 0.3659
Batch 162/248, train_loss: 0.1456, step time: 0.3465
Batch 163/248, train_loss: 0.9742, step time: 0.3641
Batch 164/248, train_loss: 0.7639, step time: 0.3648
Batch 165/248, train_loss: 0.9994, step time: 0.3417
Batch 166/248, train_loss: 0.9396, step time: 0.3484
Batch 167/248, train_loss: 0.7918, step time: 0.3494
Batch 168/248, train_loss: 0.7519, step time: 0.3579
Batch 169/248, train_loss: 0.5023, step time: 0.3428
Batch 170/248, train_loss: 0.9927, step time: 0.3466
Batch 171/248, train_loss: 0.1537, step time: 0.3601
Batch 172/248, train_loss: 0.9988, step time: 0.3444
Batch 173/248, train_loss: 0.2747, step time: 0.3859
Batch 174/248, train_loss: 0.9893, step time: 0.3838
Batch 175/248, train_loss: 0.2178, step time: 0.3592
Batch 176/248, train_loss: 0.8575, step time: 0.3688
Batch 177/248, train_loss: 0.9964, step time: 0.3746
Batch 178/248, train_loss: 0.5054, step time: 0.3457
Batch 179/248, train_loss: 0.1390, step time: 0.3664
Batch 180/248, train_loss: 0.7373, step time: 0.3590
Batch 181/248, train_loss: 0.2190, step time: 0.3435
Batch 182/248, train_loss: 0.9594, step time: 0.3424
Batch 183/248, train_loss: 0.7493, step time: 0.3684
Batch 184/248, train_loss: 0.9532, step time: 0.3447
Batch 185/248, train_loss: 0.7483, step time: 0.3815
Batch 186/248, train_loss: 0.5019, step time: 0.3843
Batch 187/248, train_loss: 0.5148, step time: 0.3438
Batch 188/248, train_loss: 0.7628, step time: 0.3736
Batch 189/248, train_loss: 0.9996, step time: 0.3761
Batch 190/248, train_loss: 0.5797, step time: 0.3864
Batch 191/248, train_loss: 0.9962, step time: 0.3418
Batch 192/248, train_loss: 0.5481, step time: 0.3463
Batch 193/248, train_loss: 0.8686, step time: 0.3539
Batch 194/248, train_loss: 0.8336, step time: 0.3594
Batch 195/248, train_loss: 0.9996, step time: 0.3449
Batch 196/248, train_loss: 0.9999, step time: 0.3406
Batch 197/248, train_loss: 0.9115, step time: 0.3542
Batch 198/248, train_loss: 1.0000, step time: 0.3563
Batch 199/248, train_loss: 0.7885, step time: 0.3566
Batch 200/248, train_loss: 0.7151, step time: 0.3405
Batch 201/248, train_loss: 0.4908, step time: 0.3720
Batch 202/248, train_loss: 0.8678, step time: 0.3461
Batch 203/248, train_loss: 0.9947, step time: 0.3807
Batch 204/248, train_loss: 0.2132, step time: 0.3504
Batch 205/248, train_loss: 0.9454, step time: 0.3713
Batch 206/248, train_loss: 0.9967, step time: 0.3803
Batch 207/248, train_loss: 0.3727, step time: 0.3790
Batch 208/248, train_loss: 0.7317, step time: 0.3667
Batch 209/248, train_loss: 0.6250, step time: 0.3871
Batch 210/248, train_loss: 0.3634, step time: 0.3570
Batch 211/248, train_loss: 0.3714, step time: 0.3846
Batch 212/248, train_loss: 0.8841, step time: 0.3822
Batch 213/248, train_loss: 0.8600, step time: 0.3635
Batch 214/248, train_loss: 0.5653, step time: 0.3487
Batch 215/248, train_loss: 0.9048, step time: 0.3706
Batch 216/248, train_loss: 0.4746, step time: 0.3496
Batch 217/248, train_loss: 0.9571, step time: 0.3823
Batch 218/248, train_loss: 0.9966, step time: 0.3488
Batch 219/248, train_loss: 0.5611, step time: 0.3459
Batch 220/248, train_loss: 0.9074, step time: 0.3736
Batch 221/248, train_loss: 0.9038, step time: 0.3638
Batch 222/248, train_loss: 0.4983, step time: 0.3451
Batch 223/248, train_loss: 0.1636, step time: 0.3537
Batch 224/248, train_loss: 0.3281, step time: 0.3559
Batch 225/248, train_loss: 0.9917, step time: 0.3495
Batch 226/248, train_loss: 0.9549, step time: 0.3587
Batch 227/248, train_loss: 0.5587, step time: 0.3480
Batch 228/248, train_loss: 0.8885, step time: 0.3680
Batch 229/248, train_loss: 0.2350, step time: 0.3795
Batch 230/248, train_loss: 0.5654, step time: 0.3771
Batch 231/248, train_loss: 0.9990, step time: 0.3820
Batch 232/248, train_loss: 0.5620, step time: 0.3707
Batch 233/248, train_loss: 0.9999, step time: 0.3522
Batch 234/248, train_loss: 0.9920, step time: 0.3741
Batch 235/248, train_loss: 0.9918, step time: 0.3665
Batch 236/248, train_loss: 0.9995, step time: 0.3411
Batch 237/248, train_loss: 0.2897, step time: 0.3458

```
Batch 238/248, train_loss: 0.4803, step time: 0.3705
Batch 239/248, train_loss: 0.1371, step time: 0.3618
Batch 240/248, train_loss: 0.8498, step time: 0.3539
Batch 241/248, train_loss: 1.0000, step time: 0.3425
Batch 242/248, train_loss: 0.9399, step time: 0.3430
Batch 243/248, train_loss: 0.9997, step time: 0.3518
Batch 244/248, train_loss: 0.9840, step time: 0.3829
Batch 245/248, train_loss: 0.4051, step time: 0.3411
Batch 246/248, train_loss: 0.9954, step time: 0.3663
Batch 247/248, train_loss: 0.1471, step time: 0.3660
Batch 248/248, train_loss: 1.0000, step time: 0.3436
```

Labels



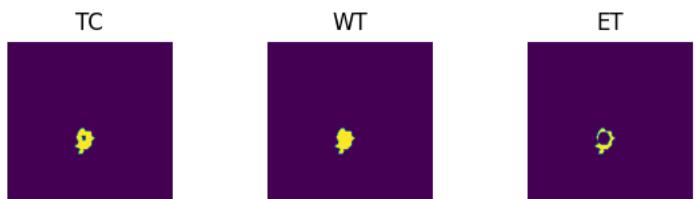
Predictions



VAL

```
Batch 1/31, val_loss: 0.8927
Batch 2/31, val_loss: 0.9996
Batch 3/31, val_loss: 0.9957
Batch 4/31, val_loss: 0.9953
Batch 5/31, val_loss: 0.9999
Batch 6/31, val_loss: 0.7331
Batch 7/31, val_loss: 0.8896
Batch 8/31, val_loss: 0.9726
Batch 9/31, val_loss: 0.7335
Batch 10/31, val_loss: 0.9864
Batch 11/31, val_loss: 0.9848
Batch 12/31, val_loss: 0.9800
Batch 13/31, val_loss: 0.9950
Batch 14/31, val_loss: 0.9761
Batch 15/31, val_loss: 0.9994
Batch 16/31, val_loss: 0.9942
Batch 17/31, val_loss: 0.9992
Batch 18/31, val_loss: 0.9886
Batch 19/31, val_loss: 0.8104
Batch 20/31, val_loss: 0.9215
Batch 21/31, val_loss: 0.9564
Batch 22/31, val_loss: 0.9985
Batch 23/31, val_loss: 0.9958
Batch 24/31, val_loss: 0.7651
Batch 25/31, val_loss: 0.8527
Batch 26/31, val_loss: 0.9759
Batch 27/31, val_loss: 0.9987
Batch 28/31, val_loss: 0.8491
Batch 29/31, val_loss: 0.9997
Batch 30/31, val_loss: 0.9965
Batch 31/31, val_loss: 0.9965
```

Labels



Predictions





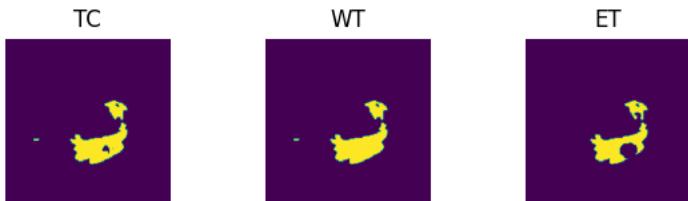
```
epoch 39
    average train loss: 0.7113
    average validation loss: 0.9404
    saved as best model: True
    current mean dice: 0.2362
    current TC dice: 0.2461
    current WT dice: 0.2502
    current ET dice: 0.2348
Best Mean Metric: 0.2362
time consuming of epoch 39 is: 1445.3333
-----
epoch 40/100
TRAIN
Batch 1/248, train_loss: 0.1930, step time: 0.3463
Batch 2/248, train_loss: 0.9998, step time: 0.3746
Batch 3/248, train_loss: 0.9685, step time: 0.3573
Batch 4/248, train_loss: 0.9998, step time: 0.3426
Batch 5/248, train_loss: 0.8698, step time: 0.3586
Batch 6/248, train_loss: 0.8670, step time: 0.3829
Batch 7/248, train_loss: 0.1414, step time: 0.3788
Batch 8/248, train_loss: 0.7730, step time: 0.3461
Batch 9/248, train_loss: 0.1516, step time: 0.3483
Batch 10/248, train_loss: 0.9425, step time: 0.3736
Batch 11/248, train_loss: 0.8563, step time: 0.3744
Batch 12/248, train_loss: 0.9938, step time: 0.3782
Batch 13/248, train_loss: 0.9698, step time: 0.3520
Batch 14/248, train_loss: 0.0995, step time: 0.3799
Batch 15/248, train_loss: 0.9351, step time: 0.3795
Batch 16/248, train_loss: 0.8248, step time: 0.3497
Batch 17/248, train_loss: 0.9935, step time: 0.3736
Batch 18/248, train_loss: 0.9819, step time: 0.3731
Batch 19/248, train_loss: 0.2474, step time: 0.3868
Batch 20/248, train_loss: 0.7990, step time: 0.3583
Batch 21/248, train_loss: 0.4786, step time: 0.3430
Batch 22/248, train_loss: 0.9998, step time: 0.3567
Batch 23/248, train_loss: 0.9998, step time: 0.3513
Batch 24/248, train_loss: 0.5489, step time: 0.3747
Batch 25/248, train_loss: 0.1392, step time: 0.3734
Batch 26/248, train_loss: 0.9887, step time: 0.3521
Batch 27/248, train_loss: 0.1682, step time: 0.3469
Batch 28/248, train_loss: 0.8013, step time: 0.3532
Batch 29/248, train_loss: 0.9929, step time: 0.3464
Batch 30/248, train_loss: 0.9691, step time: 0.3778
Batch 31/248, train_loss: 0.9476, step time: 0.3454
Batch 32/248, train_loss: 0.4780, step time: 0.3858
Batch 33/248, train_loss: 0.1536, step time: 0.3425
Batch 34/248, train_loss: 0.2322, step time: 0.3601
Batch 35/248, train_loss: 0.5388, step time: 0.3840
Batch 36/248, train_loss: 0.9998, step time: 0.3520
Batch 37/248, train_loss: 0.6531, step time: 0.3692
Batch 38/248, train_loss: 0.9099, step time: 0.3821
Batch 39/248, train_loss: 0.6904, step time: 0.3689
Batch 40/248, train_loss: 1.0000, step time: 0.3668
Batch 41/248, train_loss: 0.4635, step time: 0.3733
Batch 42/248, train_loss: 0.3847, step time: 0.3497
Batch 43/248, train_loss: 0.1869, step time: 0.3783
Batch 44/248, train_loss: 0.6567, step time: 0.3683
Batch 45/248, train_loss: 0.9087, step time: 0.3693
Batch 46/248, train_loss: 0.7059, step time: 0.3500
Batch 47/248, train_loss: 0.7997, step time: 0.3487
Batch 48/248, train_loss: 0.7233, step time: 0.3732
Batch 49/248, train_loss: 0.9876, step time: 0.3542
Batch 50/248, train_loss: 0.8335, step time: 0.3848
Batch 51/248, train_loss: 0.7965, step time: 0.3574
Batch 52/248, train_loss: 0.7197, step time: 0.3688
Batch 53/248, train_loss: 0.9297, step time: 0.3784
Batch 54/248, train_loss: 0.8006, step time: 0.3474
Batch 55/248, train_loss: 0.9404, step time: 0.3753
Batch 56/248, train_loss: 0.8410, step time: 0.3752
Batch 57/248, train_loss: 0.8384, step time: 0.3738
Batch 58/248, train_loss: 0.4430, step time: 0.3509
Batch 59/248, train_loss: 0.5338, step time: 0.3823
Batch 60/248, train_loss: 0.3911, step time: 0.3444
Batch 61/248, train_loss: 0.5503, step time: 0.3766
Batch 62/248, train_loss: 0.9470, step time: 0.3554
Batch 63/248, train_loss: 0.9923, step time: 0.3656
Batch 64/248, train_loss: 0.9835, step time: 0.3575
Batch 65/248, train_loss: 0.8277, step time: 0.3711
Batch 66/248, train_loss: 0.8373, step time: 0.3425
Batch 67/248, train_loss: 0.1736, step time: 0.3854
```

Batch 68/248, train_loss: 0.3520, step time: 0.3730
Batch 69/248, train_loss: 0.9997, step time: 0.3434
Batch 70/248, train_loss: 0.4330, step time: 0.3870
Batch 71/248, train_loss: 0.3712, step time: 0.3507
Batch 72/248, train_loss: 0.3048, step time: 0.3716
Batch 73/248, train_loss: 0.4172, step time: 0.3483
Batch 74/248, train_loss: 0.9997, step time: 0.3553
Batch 75/248, train_loss: 0.4399, step time: 0.3627
Batch 76/248, train_loss: 0.9916, step time: 0.3760
Batch 77/248, train_loss: 0.9996, step time: 0.3812
Batch 78/248, train_loss: 0.6531, step time: 0.3428
Batch 79/248, train_loss: 0.7934, step time: 0.3630
Batch 80/248, train_loss: 0.8808, step time: 0.3560
Batch 81/248, train_loss: 0.9255, step time: 0.3648
Batch 82/248, train_loss: 0.3989, step time: 0.3577
Batch 83/248, train_loss: 0.9899, step time: 0.3791
Batch 84/248, train_loss: 0.8159, step time: 0.3562
Batch 85/248, train_loss: 0.9907, step time: 0.3795
Batch 86/248, train_loss: 0.6284, step time: 0.3734
Batch 87/248, train_loss: 0.9888, step time: 0.3674
Batch 88/248, train_loss: 0.9725, step time: 0.3462
Batch 89/248, train_loss: 0.1790, step time: 0.3694
Batch 90/248, train_loss: 0.8437, step time: 0.3633
Batch 91/248, train_loss: 0.9904, step time: 0.3620
Batch 92/248, train_loss: 0.7883, step time: 0.3734
Batch 93/248, train_loss: 0.4014, step time: 0.3787
Batch 94/248, train_loss: 0.9896, step time: 0.3674
Batch 95/248, train_loss: 0.6444, step time: 0.3646
Batch 96/248, train_loss: 0.5995, step time: 0.3489
Batch 97/248, train_loss: 0.9998, step time: 0.3677
Batch 98/248, train_loss: 0.3404, step time: 0.3428
Batch 99/248, train_loss: 0.9699, step time: 0.3423
Batch 100/248, train_loss: 0.9964, step time: 0.3687
Batch 101/248, train_loss: 0.1054, step time: 0.3553
Batch 102/248, train_loss: 0.7302, step time: 0.3410
Batch 103/248, train_loss: 0.9867, step time: 0.3492
Batch 104/248, train_loss: 0.6559, step time: 0.3733
Batch 105/248, train_loss: 0.2653, step time: 0.3546
Batch 106/248, train_loss: 0.8460, step time: 0.3801
Batch 107/248, train_loss: 0.9682, step time: 0.3741
Batch 108/248, train_loss: 0.9802, step time: 0.3714
Batch 109/248, train_loss: 0.9966, step time: 0.3796
Batch 110/248, train_loss: 0.9106, step time: 0.3544
Batch 111/248, train_loss: 0.2954, step time: 0.3517
Batch 112/248, train_loss: 0.3503, step time: 0.3747
Batch 113/248, train_loss: 0.9999, step time: 0.3637
Batch 114/248, train_loss: 0.2317, step time: 0.3734
Batch 115/248, train_loss: 0.7051, step time: 0.3480
Batch 116/248, train_loss: 0.2393, step time: 0.3585
Batch 117/248, train_loss: 0.9959, step time: 0.3672
Batch 118/248, train_loss: 0.9812, step time: 0.3856
Batch 119/248, train_loss: 0.7600, step time: 0.3525
Batch 120/248, train_loss: 0.7722, step time: 0.3811
Batch 121/248, train_loss: 0.9477, step time: 0.3616
Batch 122/248, train_loss: 0.9619, step time: 0.3463
Batch 123/248, train_loss: 0.4577, step time: 0.3823
Batch 124/248, train_loss: 0.9652, step time: 0.3685
Batch 125/248, train_loss: 0.9943, step time: 0.3547
Batch 126/248, train_loss: 0.5082, step time: 0.3863
Batch 127/248, train_loss: 0.7507, step time: 0.3717
Batch 128/248, train_loss: 0.8931, step time: 0.3427
Batch 129/248, train_loss: 0.2322, step time: 0.3603
Batch 130/248, train_loss: 0.2314, step time: 0.3747
Batch 131/248, train_loss: 0.9597, step time: 0.3825
Batch 132/248, train_loss: 0.9698, step time: 0.3829
Batch 133/248, train_loss: 0.1838, step time: 0.3711
Batch 134/248, train_loss: 1.0000, step time: 0.3418
Batch 135/248, train_loss: 0.9896, step time: 0.3691
Batch 136/248, train_loss: 0.8575, step time: 0.3418
Batch 137/248, train_loss: 0.2277, step time: 0.3839
Batch 138/248, train_loss: 0.2540, step time: 0.3626
Batch 139/248, train_loss: 0.3772, step time: 0.3711
Batch 140/248, train_loss: 0.8469, step time: 0.3770
Batch 141/248, train_loss: 0.4722, step time: 0.3484
Batch 142/248, train_loss: 0.9934, step time: 0.3707
Batch 143/248, train_loss: 0.8659, step time: 0.3442
Batch 144/248, train_loss: 0.2921, step time: 0.3842
Batch 145/248, train_loss: 0.1371, step time: 0.3552
Batch 146/248, train_loss: 0.9993, step time: 0.3474
Batch 147/248, train_loss: 0.1070, step time: 0.3473
Batch 148/248, train_loss: 0.9747, step time: 0.3473
Batch 149/248, train_loss: 0.6922, step time: 0.3567
Batch 150/248, train_loss: 0.5993, step time: 0.3437
Batch 151/248, train_loss: 0.9697, step time: 0.3548
Batch 152/248, train_loss: 0.1023, step time: 0.3475

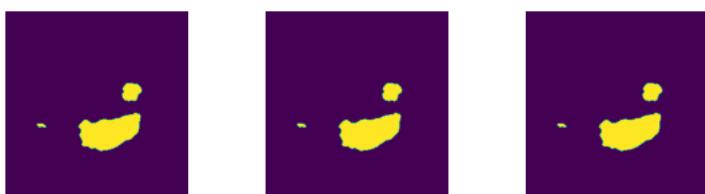
Batch 153/248, train_loss: 0.9516, step time: 0.3710
Batch 154/248, train_loss: 0.9894, step time: 0.3833
Batch 155/248, train_loss: 0.7268, step time: 0.3734
Batch 156/248, train_loss: 0.7464, step time: 0.3517
Batch 157/248, train_loss: 0.4282, step time: 0.3817
Batch 158/248, train_loss: 0.9995, step time: 0.3500
Batch 159/248, train_loss: 0.9986, step time: 0.3713
Batch 160/248, train_loss: 0.4700, step time: 0.3655
Batch 161/248, train_loss: 0.7164, step time: 0.3645
Batch 162/248, train_loss: 0.1294, step time: 0.3468
Batch 163/248, train_loss: 0.9741, step time: 0.3530
Batch 164/248, train_loss: 0.7593, step time: 0.3721
Batch 165/248, train_loss: 0.9993, step time: 0.3668
Batch 166/248, train_loss: 0.9372, step time: 0.3544
Batch 167/248, train_loss: 0.7747, step time: 0.3488
Batch 168/248, train_loss: 0.7447, step time: 0.3682
Batch 169/248, train_loss: 0.4821, step time: 0.3652
Batch 170/248, train_loss: 0.9935, step time: 0.3432
Batch 171/248, train_loss: 0.1467, step time: 0.3450
Batch 172/248, train_loss: 0.9988, step time: 0.3713
Batch 173/248, train_loss: 0.2654, step time: 0.3448
Batch 174/248, train_loss: 0.9999, step time: 0.3547
Batch 175/248, train_loss: 0.2205, step time: 0.3454
Batch 176/248, train_loss: 0.8510, step time: 0.3896
Batch 177/248, train_loss: 0.9983, step time: 0.3530
Batch 178/248, train_loss: 0.4807, step time: 0.3725
Batch 179/248, train_loss: 0.1474, step time: 0.3609
Batch 180/248, train_loss: 0.7302, step time: 0.3771
Batch 181/248, train_loss: 0.2197, step time: 0.3409
Batch 182/248, train_loss: 0.9566, step time: 0.3680
Batch 183/248, train_loss: 0.7454, step time: 0.3802
Batch 184/248, train_loss: 0.9483, step time: 0.3773
Batch 185/248, train_loss: 0.7304, step time: 0.3462
Batch 186/248, train_loss: 0.4879, step time: 0.3568
Batch 187/248, train_loss: 0.5049, step time: 0.3527
Batch 188/248, train_loss: 0.7593, step time: 0.3451
Batch 189/248, train_loss: 0.9996, step time: 0.3542
Batch 190/248, train_loss: 0.5563, step time: 0.3420
Batch 191/248, train_loss: 0.9984, step time: 0.3400
Batch 192/248, train_loss: 0.5695, step time: 0.3651
Batch 193/248, train_loss: 0.8644, step time: 0.3817
Batch 194/248, train_loss: 0.8257, step time: 0.3680
Batch 195/248, train_loss: 0.9998, step time: 0.3731
Batch 196/248, train_loss: 0.9999, step time: 0.3840
Batch 197/248, train_loss: 0.9061, step time: 0.3745
Batch 198/248, train_loss: 1.0000, step time: 0.3757
Batch 199/248, train_loss: 0.7700, step time: 0.3505
Batch 200/248, train_loss: 0.7098, step time: 0.3483
Batch 201/248, train_loss: 0.4661, step time: 0.3464
Batch 202/248, train_loss: 0.8631, step time: 0.3821
Batch 203/248, train_loss: 0.9931, step time: 0.3467
Batch 204/248, train_loss: 0.2007, step time: 0.3677
Batch 205/248, train_loss: 0.9441, step time: 0.3841
Batch 206/248, train_loss: 0.9970, step time: 0.3553
Batch 207/248, train_loss: 0.3508, step time: 0.3477
Batch 208/248, train_loss: 0.7203, step time: 0.3866
Batch 209/248, train_loss: 0.6091, step time: 0.3496
Batch 210/248, train_loss: 0.3450, step time: 0.3621
Batch 211/248, train_loss: 0.3587, step time: 0.3572
Batch 212/248, train_loss: 0.8757, step time: 0.3732
Batch 213/248, train_loss: 0.8541, step time: 0.3566
Batch 214/248, train_loss: 0.5504, step time: 0.3681
Batch 215/248, train_loss: 0.9039, step time: 0.3419
Batch 216/248, train_loss: 0.4358, step time: 0.3438
Batch 217/248, train_loss: 0.9540, step time: 0.3850
Batch 218/248, train_loss: 0.9969, step time: 0.3472
Batch 219/248, train_loss: 0.5669, step time: 0.3789
Batch 220/248, train_loss: 0.9040, step time: 0.3491
Batch 221/248, train_loss: 0.9005, step time: 0.3698
Batch 222/248, train_loss: 0.4530, step time: 0.3521
Batch 223/248, train_loss: 0.1625, step time: 0.3418
Batch 224/248, train_loss: 0.3208, step time: 0.3863
Batch 225/248, train_loss: 0.9933, step time: 0.3649
Batch 226/248, train_loss: 0.9515, step time: 0.3690
Batch 227/248, train_loss: 0.5445, step time: 0.3457
Batch 228/248, train_loss: 0.8851, step time: 0.3817
Batch 229/248, train_loss: 0.1996, step time: 0.3408
Batch 230/248, train_loss: 0.5637, step time: 0.3504
Batch 231/248, train_loss: 0.9988, step time: 0.3462
Batch 232/248, train_loss: 0.5457, step time: 0.3446
Batch 233/248, train_loss: 0.9997, step time: 0.3469
Batch 234/248, train_loss: 0.9891, step time: 0.3892
Batch 235/248, train_loss: 0.9949, step time: 0.3677
Batch 236/248, train_loss: 0.9993, step time: 0.3660
Batch 237/248, train_loss: 0.2939, step time: 0.3477

```
Batch 238/248, train_loss: 0.4586, step time: 0.3476
Batch 239/248, train_loss: 0.1588, step time: 0.3685
Batch 240/248, train_loss: 0.8409, step time: 0.3722
Batch 241/248, train_loss: 1.0000, step time: 0.3804
Batch 242/248, train_loss: 0.9363, step time: 0.3529
Batch 243/248, train_loss: 0.9988, step time: 0.3439
Batch 244/248, train_loss: 0.9870, step time: 0.3879
Batch 245/248, train_loss: 0.4013, step time: 0.3769
Batch 246/248, train_loss: 0.9865, step time: 0.3713
Batch 247/248, train_loss: 0.1461, step time: 0.3826
Batch 248/248, train_loss: 1.0000, step time: 0.3462
```

Labels



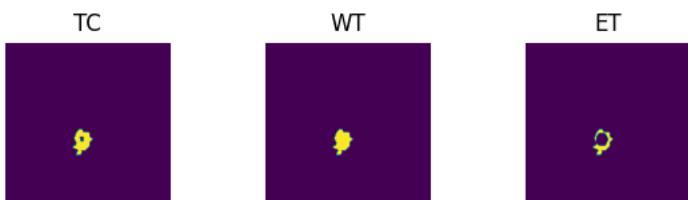
Predictions



VAL

```
Batch 1/31, val_loss: 0.8899
Batch 2/31, val_loss: 0.9996
Batch 3/31, val_loss: 0.9880
Batch 4/31, val_loss: 0.9952
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.7220
Batch 7/31, val_loss: 0.8997
Batch 8/31, val_loss: 0.9780
Batch 9/31, val_loss: 0.7308
Batch 10/31, val_loss: 0.9802
Batch 11/31, val_loss: 0.9017
Batch 12/31, val_loss: 0.9807
Batch 13/31, val_loss: 0.9924
Batch 14/31, val_loss: 0.9770
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9958
Batch 17/31, val_loss: 0.9993
Batch 18/31, val_loss: 0.9889
Batch 19/31, val_loss: 0.8034
Batch 20/31, val_loss: 0.9308
Batch 21/31, val_loss: 0.9522
Batch 22/31, val_loss: 0.9983
Batch 23/31, val_loss: 0.9974
Batch 24/31, val_loss: 0.7607
Batch 25/31, val_loss: 0.8529
Batch 26/31, val_loss: 0.9742
Batch 27/31, val_loss: 0.9988
Batch 28/31, val_loss: 0.8496
Batch 29/31, val_loss: 0.9996
Batch 30/31, val_loss: 0.9963
Batch 31/31, val_loss: 0.9964
```

Labels



Predictions





```
epoch 40
average train loss: 0.7056
average validation loss: 0.9397
saved as best model: False
current mean dice: 0.2333
current TC dice: 0.2432
current WT dice: 0.2474
current ET dice: 0.2317
Best Mean Metric: 0.2362
time consuming of epoch 40 is: 1438.5023
```

```
-----  
epoch 41/100  
TRAIN
```

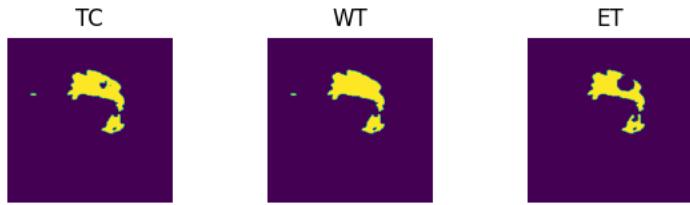
```
Batch 1/248, train_loss: 0.2025, step time: 0.3713
Batch 2/248, train_loss: 0.9984, step time: 0.3399
Batch 3/248, train_loss: 0.9712, step time: 0.3791
Batch 4/248, train_loss: 0.9992, step time: 0.3648
Batch 5/248, train_loss: 0.8630, step time: 0.3758
Batch 6/248, train_loss: 0.8527, step time: 0.3837
Batch 7/248, train_loss: 0.1359, step time: 0.3614
Batch 8/248, train_loss: 0.7634, step time: 0.3640
Batch 9/248, train_loss: 0.1457, step time: 0.3876
Batch 10/248, train_loss: 0.9385, step time: 0.3549
Batch 11/248, train_loss: 0.8536, step time: 0.3752
Batch 12/248, train_loss: 0.9941, step time: 0.3864
Batch 13/248, train_loss: 0.9717, step time: 0.3657
Batch 14/248, train_loss: 0.0986, step time: 0.3602
Batch 15/248, train_loss: 0.9347, step time: 0.3437
Batch 16/248, train_loss: 0.8150, step time: 0.3862
Batch 17/248, train_loss: 0.9953, step time: 0.3503
Batch 18/248, train_loss: 0.9819, step time: 0.3655
Batch 19/248, train_loss: 0.2333, step time: 0.3894
Batch 20/248, train_loss: 0.7948, step time: 0.3809
Batch 21/248, train_loss: 0.4543, step time: 0.3580
Batch 22/248, train_loss: 0.9999, step time: 0.3429
Batch 23/248, train_loss: 0.9999, step time: 0.3583
Batch 24/248, train_loss: 0.5296, step time: 0.3420
Batch 25/248, train_loss: 0.1336, step time: 0.3793
Batch 26/248, train_loss: 0.9886, step time: 0.3428
Batch 27/248, train_loss: 0.1583, step time: 0.3857
Batch 28/248, train_loss: 0.7968, step time: 0.3802
Batch 29/248, train_loss: 0.9919, step time: 0.3442
Batch 30/248, train_loss: 0.9654, step time: 0.3410
Batch 31/248, train_loss: 0.9301, step time: 0.3467
Batch 32/248, train_loss: 0.4548, step time: 0.3777
Batch 33/248, train_loss: 0.1503, step time: 0.3637
Batch 34/248, train_loss: 0.2178, step time: 0.3587
Batch 35/248, train_loss: 0.5189, step time: 0.3632
Batch 36/248, train_loss: 0.9995, step time: 0.3769
Batch 37/248, train_loss: 0.6291, step time: 0.3692
Batch 38/248, train_loss: 0.9025, step time: 0.3618
Batch 39/248, train_loss: 0.6728, step time: 0.3732
Batch 40/248, train_loss: 0.9991, step time: 0.3608
Batch 41/248, train_loss: 0.4306, step time: 0.3859
Batch 42/248, train_loss: 0.3567, step time: 0.3744
Batch 43/248, train_loss: 0.1759, step time: 0.3432
Batch 44/248, train_loss: 0.6980, step time: 0.3484
Batch 45/248, train_loss: 0.9016, step time: 0.3470
Batch 46/248, train_loss: 0.6921, step time: 0.3552
Batch 47/248, train_loss: 0.7903, step time: 0.3826
Batch 48/248, train_loss: 0.7172, step time: 0.3428
Batch 49/248, train_loss: 0.9838, step time: 0.3529
Batch 50/248, train_loss: 0.8268, step time: 0.3453
Batch 51/248, train_loss: 0.7918, step time: 0.3774
Batch 52/248, train_loss: 0.7082, step time: 0.3661
Batch 53/248, train_loss: 0.9227, step time: 0.3820
Batch 54/248, train_loss: 0.7901, step time: 0.3444
Batch 55/248, train_loss: 0.9333, step time: 0.3709
Batch 56/248, train_loss: 0.8355, step time: 0.3737
Batch 57/248, train_loss: 0.8348, step time: 0.3552
Batch 58/248, train_loss: 0.4188, step time: 0.3829
Batch 59/248, train_loss: 0.5220, step time: 0.3606
Batch 60/248, train_loss: 0.3758, step time: 0.3463
Batch 61/248, train_loss: 0.5384, step time: 0.3723
Batch 62/248, train_loss: 0.9443, step time: 0.3600
Batch 63/248, train_loss: 0.9934, step time: 0.3693
Batch 64/248, train_loss: 0.9857, step time: 0.3876
Batch 65/248, train_loss: 0.8240, step time: 0.3838
Batch 66/248, train_loss: 0.8236, step time: 0.3605
Batch 67/248, train loss: 0.1839, step time: 0.3486
```

Batch 68/248, train_loss: 0.3284, step time: 0.3564
Batch 69/248, train_loss: 0.9996, step time: 0.3510
Batch 70/248, train_loss: 0.4175, step time: 0.3507
Batch 71/248, train_loss: 0.3886, step time: 0.3653
Batch 72/248, train_loss: 0.2852, step time: 0.3449
Batch 73/248, train_loss: 0.4173, step time: 0.3725
Batch 74/248, train_loss: 0.9997, step time: 0.3461
Batch 75/248, train_loss: 0.4108, step time: 0.3506
Batch 76/248, train_loss: 0.9926, step time: 0.3662
Batch 77/248, train_loss: 0.9998, step time: 0.3682
Batch 78/248, train_loss: 0.6517, step time: 0.3578
Batch 79/248, train_loss: 0.7919, step time: 0.3651
Batch 80/248, train_loss: 0.8870, step time: 0.3797
Batch 81/248, train_loss: 0.9189, step time: 0.3877
Batch 82/248, train_loss: 0.3902, step time: 0.3827
Batch 83/248, train_loss: 0.9910, step time: 0.3476
Batch 84/248, train_loss: 0.8034, step time: 0.3441
Batch 85/248, train_loss: 0.9940, step time: 0.3662
Batch 86/248, train_loss: 0.6876, step time: 0.3757
Batch 87/248, train_loss: 0.9880, step time: 0.3855
Batch 88/248, train_loss: 0.9732, step time: 0.3822
Batch 89/248, train_loss: 0.1652, step time: 0.3795
Batch 90/248, train_loss: 0.8487, step time: 0.3490
Batch 91/248, train_loss: 0.9900, step time: 0.3473
Batch 92/248, train_loss: 0.7803, step time: 0.3842
Batch 93/248, train_loss: 0.3890, step time: 0.3757
Batch 94/248, train_loss: 0.9894, step time: 0.3650
Batch 95/248, train_loss: 0.6369, step time: 0.3580
Batch 96/248, train_loss: 0.5863, step time: 0.3566
Batch 97/248, train_loss: 0.9999, step time: 0.3792
Batch 98/248, train_loss: 0.3309, step time: 0.3916
Batch 99/248, train_loss: 0.9681, step time: 0.3553
Batch 100/248, train_loss: 0.9956, step time: 0.3638
Batch 101/248, train_loss: 0.0987, step time: 0.3507
Batch 102/248, train_loss: 0.7140, step time: 0.3484
Batch 103/248, train_loss: 0.9864, step time: 0.3508
Batch 104/248, train_loss: 0.6435, step time: 0.3478
Batch 105/248, train_loss: 0.2662, step time: 0.3843
Batch 106/248, train_loss: 0.8435, step time: 0.3905
Batch 107/248, train_loss: 0.9682, step time: 0.3539
Batch 108/248, train_loss: 0.9827, step time: 0.3847
Batch 109/248, train_loss: 0.9974, step time: 0.3928
Batch 110/248, train_loss: 0.9105, step time: 0.3774
Batch 111/248, train_loss: 0.2806, step time: 0.3724
Batch 112/248, train_loss: 0.3507, step time: 0.3712
Batch 113/248, train_loss: 0.9999, step time: 0.3675
Batch 114/248, train_loss: 0.2280, step time: 0.3471
Batch 115/248, train_loss: 0.7132, step time: 0.3686
Batch 116/248, train_loss: 0.2267, step time: 0.3467
Batch 117/248, train_loss: 0.9960, step time: 0.3488
Batch 118/248, train_loss: 0.9906, step time: 0.3462
Batch 119/248, train_loss: 0.7508, step time: 0.3562
Batch 120/248, train_loss: 0.7622, step time: 0.3458
Batch 121/248, train_loss: 0.9408, step time: 0.3935
Batch 122/248, train_loss: 0.9582, step time: 0.3681
Batch 123/248, train_loss: 0.4364, step time: 0.3628
Batch 124/248, train_loss: 0.9679, step time: 0.3484
Batch 125/248, train_loss: 0.9923, step time: 0.3494
Batch 126/248, train_loss: 0.4822, step time: 0.3518
Batch 127/248, train_loss: 0.7461, step time: 0.3856
Batch 128/248, train_loss: 0.8894, step time: 0.3841
Batch 129/248, train_loss: 0.2102, step time: 0.3834
Batch 130/248, train_loss: 0.2225, step time: 0.3819
Batch 131/248, train_loss: 0.9626, step time: 0.3791
Batch 132/248, train_loss: 0.9858, step time: 0.3662
Batch 133/248, train_loss: 0.2145, step time: 0.3912
Batch 134/248, train_loss: 1.0000, step time: 0.3787
Batch 135/248, train_loss: 0.9810, step time: 0.3606
Batch 136/248, train_loss: 0.8511, step time: 0.3546
Batch 137/248, train_loss: 0.2286, step time: 0.3879
Batch 138/248, train_loss: 0.2358, step time: 0.3756
Batch 139/248, train_loss: 0.3356, step time: 0.3495
Batch 140/248, train_loss: 0.8409, step time: 0.3775
Batch 141/248, train_loss: 0.4636, step time: 0.3604
Batch 142/248, train_loss: 0.9951, step time: 0.3460
Batch 143/248, train_loss: 0.8736, step time: 0.3933
Batch 144/248, train_loss: 0.2674, step time: 0.3476
Batch 145/248, train_loss: 0.1616, step time: 0.3694
Batch 146/248, train_loss: 0.9988, step time: 0.3572
Batch 147/248, train_loss: 0.1139, step time: 0.3749
Batch 148/248, train_loss: 0.9718, step time: 0.3900
Batch 149/248, train_loss: 0.6835, step time: 0.3511
Batch 150/248, train_loss: 0.6062, step time: 0.3511
Batch 151/248, train_loss: 0.9644, step time: 0.3474
Batch 152/248, train_loss: 0.1000, step time: 0.3876

```
Batch 122/248, train_loss: 0.1000, step time: 0.3520
Batch 153/248, train_loss: 0.9508, step time: 0.3782
Batch 154/248, train_loss: 0.9889, step time: 0.3449
Batch 155/248, train_loss: 0.7272, step time: 0.3827
Batch 156/248, train_loss: 0.7296, step time: 0.3703
Batch 157/248, train_loss: 0.4337, step time: 0.3796
Batch 158/248, train_loss: 0.9994, step time: 0.3713
Batch 159/248, train_loss: 0.9958, step time: 0.3850
Batch 160/248, train_loss: 0.4583, step time: 0.3503
Batch 161/248, train_loss: 0.7052, step time: 0.3557
Batch 162/248, train_loss: 0.1236, step time: 0.3485
Batch 163/248, train_loss: 0.9715, step time: 0.3701
Batch 164/248, train_loss: 0.7522, step time: 0.3454
Batch 165/248, train_loss: 0.9994, step time: 0.3539
Batch 166/248, train_loss: 0.9350, step time: 0.3848
Batch 167/248, train_loss: 0.7779, step time: 0.3496
Batch 168/248, train_loss: 0.7355, step time: 0.3724
Batch 169/248, train_loss: 0.4741, step time: 0.3792
Batch 170/248, train_loss: 0.9960, step time: 0.3565
Batch 171/248, train_loss: 0.1362, step time: 0.3816
Batch 172/248, train_loss: 0.9994, step time: 0.3629
Batch 173/248, train_loss: 0.2499, step time: 0.3804
Batch 174/248, train_loss: 0.9976, step time: 0.3466
Batch 175/248, train_loss: 0.2237, step time: 0.3661
Batch 176/248, train_loss: 0.8442, step time: 0.3880
Batch 177/248, train_loss: 0.9973, step time: 0.3836
Batch 178/248, train_loss: 0.4741, step time: 0.3540
Batch 179/248, train_loss: 0.1382, step time: 0.3507
Batch 180/248, train_loss: 0.7230, step time: 0.3871
Batch 181/248, train_loss: 0.2076, step time: 0.3770
Batch 182/248, train_loss: 0.9621, step time: 0.3768
Batch 183/248, train_loss: 0.7287, step time: 0.3527
Batch 184/248, train_loss: 0.9457, step time: 0.3529
Batch 185/248, train_loss: 0.7310, step time: 0.3779
Batch 186/248, train_loss: 0.4823, step time: 0.3552
Batch 187/248, train_loss: 0.4944, step time: 0.3646
Batch 188/248, train_loss: 0.7507, step time: 0.3539
Batch 189/248, train_loss: 0.9996, step time: 0.3463
Batch 190/248, train_loss: 0.5437, step time: 0.3871
Batch 191/248, train_loss: 0.9991, step time: 0.3816
Batch 192/248, train_loss: 0.6001, step time: 0.3865
Batch 193/248, train_loss: 0.8622, step time: 0.3887
Batch 194/248, train_loss: 0.8197, step time: 0.3666
Batch 195/248, train_loss: 0.9998, step time: 0.3700
Batch 196/248, train_loss: 0.9999, step time: 0.3467
Batch 197/248, train_loss: 0.9167, step time: 0.3473
Batch 198/248, train_loss: 1.0000, step time: 0.3475
Batch 199/248, train_loss: 0.7776, step time: 0.3462
Batch 200/248, train_loss: 0.6919, step time: 0.3824
Batch 201/248, train_loss: 0.4537, step time: 0.3641
Batch 202/248, train_loss: 0.8638, step time: 0.3655
Batch 203/248, train_loss: 0.9958, step time: 0.3484
Batch 204/248, train_loss: 0.2013, step time: 0.3643
Batch 205/248, train_loss: 0.9385, step time: 0.3489
Batch 206/248, train_loss: 0.9965, step time: 0.3565
Batch 207/248, train_loss: 0.3475, step time: 0.3783
Batch 208/248, train_loss: 0.7048, step time: 0.3710
Batch 209/248, train_loss: 0.5992, step time: 0.3621
Batch 210/248, train_loss: 0.3299, step time: 0.3877
Batch 211/248, train_loss: 0.3402, step time: 0.3459
Batch 212/248, train_loss: 0.8897, step time: 0.3474
Batch 213/248, train_loss: 0.8487, step time: 0.3569
Batch 214/248, train_loss: 0.5433, step time: 0.3512
Batch 215/248, train_loss: 0.9015, step time: 0.3904
Batch 216/248, train_loss: 0.4763, step time: 0.3820
Batch 217/248, train_loss: 0.9522, step time: 0.3578
Batch 218/248, train_loss: 0.9970, step time: 0.3878
Batch 219/248, train_loss: 0.5306, step time: 0.3480
Batch 220/248, train_loss: 0.9008, step time: 0.3519
Batch 221/248, train_loss: 0.8955, step time: 0.3567
Batch 222/248, train_loss: 0.4648, step time: 0.3464
Batch 223/248, train_loss: 0.1529, step time: 0.3567
Batch 224/248, train_loss: 0.3095, step time: 0.3552
Batch 225/248, train_loss: 0.9920, step time: 0.3762
Batch 226/248, train_loss: 0.9521, step time: 0.3723
Batch 227/248, train_loss: 0.5380, step time: 0.3555
Batch 228/248, train_loss: 0.8916, step time: 0.3684
Batch 229/248, train_loss: 0.2026, step time: 0.3838
Batch 230/248, train_loss: 0.5392, step time: 0.3585
Batch 231/248, train_loss: 0.9988, step time: 0.3873
Batch 232/248, train_loss: 0.5252, step time: 0.3595
Batch 233/248, train_loss: 0.9999, step time: 0.3812
Batch 234/248, train_loss: 0.9890, step time: 0.3886
Batch 235/248, train_loss: 0.9868, step time: 0.3677
Batch 236/248, train_loss: 0.9992, step time: 0.3706
- - - - -
```

```
Batch 237/248, train_loss: 0.2856, step time: 0.3887  
Batch 238/248, train_loss: 0.4419, step time: 0.3577  
Batch 239/248, train_loss: 0.1670, step time: 0.3613  
Batch 240/248, train_loss: 0.8415, step time: 0.3452  
Batch 241/248, train_loss: 0.9999, step time: 0.3839  
Batch 242/248, train_loss: 0.9321, step time: 0.3666  
Batch 243/248, train_loss: 0.9975, step time: 0.3576  
Batch 244/248, train_loss: 0.9829, step time: 0.3741  
Batch 245/248, train_loss: 0.3855, step time: 0.3668  
Batch 246/248, train_loss: 0.9930, step time: 0.3680  
Batch 247/248, train_loss: 0.1438, step time: 0.3842  
Batch 248/248, train_loss: 1.0000, step time: 0.3887
```

Labels



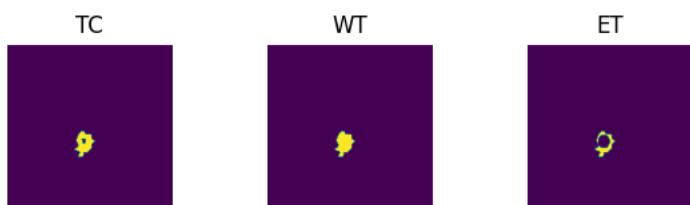
Predictions



VAL

```
Batch 1/31, val_loss: 0.8906  
Batch 2/31, val_loss: 0.9996  
Batch 3/31, val_loss: 0.9867  
Batch 4/31, val_loss: 0.9795  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7328  
Batch 7/31, val_loss: 0.8879  
Batch 8/31, val_loss: 0.9883  
Batch 9/31, val_loss: 0.7279  
Batch 10/31, val_loss: 0.9792  
Batch 11/31, val_loss: 0.9009  
Batch 12/31, val_loss: 0.9791  
Batch 13/31, val_loss: 0.9928  
Batch 14/31, val_loss: 0.9761  
Batch 15/31, val_loss: 0.9999  
Batch 16/31, val_loss: 0.9955  
Batch 17/31, val_loss: 0.9993  
Batch 18/31, val_loss: 0.9790  
Batch 19/31, val_loss: 0.8063  
Batch 20/31, val_loss: 0.9018  
Batch 21/31, val_loss: 0.9529  
Batch 22/31, val_loss: 0.9981  
Batch 23/31, val_loss: 0.9972  
Batch 24/31, val_loss: 0.7564  
Batch 25/31, val_loss: 0.8526  
Batch 26/31, val_loss: 0.9752  
Batch 27/31, val_loss: 0.9991  
Batch 28/31, val_loss: 0.8483  
Batch 29/31, val_loss: 0.9997  
Batch 30/31, val_loss: 0.9958  
Batch 31/31, val_loss: 0.9963
```

Labels



Predictions





```
epoch 41
average train loss: 0.7012
average validation loss: 0.9379
saved as best model: True
current mean dice: 0.2416
current TC dice: 0.2518
current WT dice: 0.2560
current ET dice: 0.2401
Best Mean Metric: 0.2416
time consuming of epoch 41 is: 1420.7781
-----
```

```
epoch 42/100
```

```
TRAIN
```

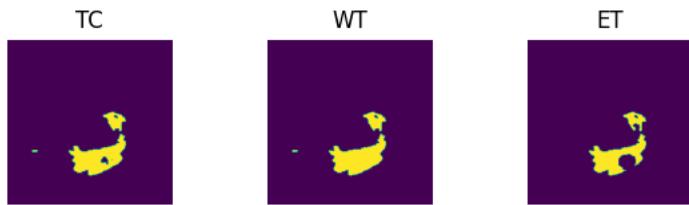
```
Batch 1/248, train_loss: 0.1931, step time: 0.3748
Batch 2/248, train_loss: 0.9996, step time: 0.3799
Batch 3/248, train_loss: 0.9685, step time: 0.3843
Batch 4/248, train_loss: 0.9997, step time: 0.3812
Batch 5/248, train_loss: 0.8624, step time: 0.3831
Batch 6/248, train_loss: 0.8376, step time: 0.3565
Batch 7/248, train_loss: 0.1313, step time: 0.3807
Batch 8/248, train_loss: 0.7658, step time: 0.3743
Batch 9/248, train_loss: 0.1432, step time: 0.3513
Batch 10/248, train_loss: 0.9484, step time: 0.3805
Batch 11/248, train_loss: 0.8425, step time: 0.3854
Batch 12/248, train_loss: 0.9941, step time: 0.3580
Batch 13/248, train_loss: 0.9749, step time: 0.3668
Batch 14/248, train_loss: 0.0948, step time: 0.3838
Batch 15/248, train_loss: 0.9273, step time: 0.3849
Batch 16/248, train_loss: 0.8114, step time: 0.3883
Batch 17/248, train_loss: 0.9948, step time: 0.3842
Batch 18/248, train_loss: 0.9801, step time: 0.3826
Batch 19/248, train_loss: 0.2272, step time: 0.3646
Batch 20/248, train_loss: 0.7878, step time: 0.3816
Batch 21/248, train_loss: 0.4378, step time: 0.3453
Batch 22/248, train_loss: 0.9999, step time: 0.3663
Batch 23/248, train_loss: 0.9998, step time: 0.3446
Batch 24/248, train_loss: 0.5150, step time: 0.3545
Batch 25/248, train_loss: 0.1452, step time: 0.3720
Batch 26/248, train_loss: 0.9902, step time: 0.3642
Batch 27/248, train_loss: 0.1534, step time: 0.3631
Batch 28/248, train_loss: 0.7877, step time: 0.3470
Batch 29/248, train_loss: 0.9917, step time: 0.3726
Batch 30/248, train_loss: 0.9608, step time: 0.3445
Batch 31/248, train_loss: 0.9332, step time: 0.3751
Batch 32/248, train_loss: 0.4432, step time: 0.3548
Batch 33/248, train_loss: 0.1525, step time: 0.3532
Batch 34/248, train_loss: 0.2003, step time: 0.3589
Batch 35/248, train_loss: 0.5104, step time: 0.3909
Batch 36/248, train_loss: 0.9990, step time: 0.3693
Batch 37/248, train_loss: 0.6162, step time: 0.3467
Batch 38/248, train_loss: 0.9033, step time: 0.3641
Batch 39/248, train_loss: 0.6649, step time: 0.3660
Batch 40/248, train_loss: 0.9990, step time: 0.3836
Batch 41/248, train_loss: 0.4381, step time: 0.3472
Batch 42/248, train_loss: 0.3429, step time: 0.3478
Batch 43/248, train_loss: 0.1594, step time: 0.3851
Batch 44/248, train_loss: 0.7727, step time: 0.3775
Batch 45/248, train_loss: 0.9094, step time: 0.3778
Batch 46/248, train_loss: 0.6787, step time: 0.3723
Batch 47/248, train_loss: 0.7912, step time: 0.3629
Batch 48/248, train_loss: 0.7127, step time: 0.3605
Batch 49/248, train_loss: 0.9811, step time: 0.3519
Batch 50/248, train_loss: 0.8195, step time: 0.3607
Batch 51/248, train_loss: 0.7834, step time: 0.3808
Batch 52/248, train_loss: 0.6960, step time: 0.3625
Batch 53/248, train_loss: 0.9187, step time: 0.3672
Batch 54/248, train_loss: 0.7815, step time: 0.3673
Batch 55/248, train_loss: 0.9309, step time: 0.3663
Batch 56/248, train_loss: 0.8560, step time: 0.3645
Batch 57/248, train_loss: 0.8280, step time: 0.3841
Batch 58/248, train_loss: 0.4074, step time: 0.3684
Batch 59/248, train_loss: 0.5044, step time: 0.3461
Batch 60/248, train_loss: 0.3661, step time: 0.3542
Batch 61/248, train_loss: 0.5213, step time: 0.3468
Batch 62/248, train_loss: 0.9443, step time: 0.3464
Batch 63/248, train_loss: 0.9896, step time: 0.3699
Batch 64/248, train_loss: 0.9872, step time: 0.3597
Batch 65/248, train_loss: 0.8280, step time: 0.3522
Batch 66/248, train_loss: 0.8329, step time: 0.3506
Batch 67/248, train_loss: 0.1762, step time: 0.3561
```

Batch 0/248, train_loss: 0.1005, step time: 0.3504
Batch 1/248, train_loss: 0.3453, step time: 0.3540
Batch 2/248, train_loss: 0.9985, step time: 0.3813
Batch 3/248, train_loss: 0.4058, step time: 0.3878
Batch 4/248, train_loss: 0.3300, step time: 0.3500
Batch 5/248, train_loss: 0.2747, step time: 0.3588
Batch 6/248, train_loss: 0.4165, step time: 0.3513
Batch 7/248, train_loss: 0.9997, step time: 0.3692
Batch 8/248, train_loss: 0.4065, step time: 0.3772
Batch 9/248, train_loss: 0.9924, step time: 0.3901
Batch 10/248, train_loss: 0.9992, step time: 0.3473
Batch 11/248, train_loss: 0.6308, step time: 0.3689
Batch 12/248, train_loss: 0.7821, step time: 0.3459
Batch 13/248, train_loss: 0.8781, step time: 0.3503
Batch 14/248, train_loss: 0.9295, step time: 0.3779
Batch 15/248, train_loss: 0.3692, step time: 0.3552
Batch 16/248, train_loss: 0.9906, step time: 0.3691
Batch 17/248, train_loss: 0.7953, step time: 0.3498
Batch 18/248, train_loss: 0.9923, step time: 0.3656
Batch 19/248, train_loss: 0.6462, step time: 0.3633
Batch 20/248, train_loss: 0.9896, step time: 0.3662
Batch 21/248, train_loss: 0.9721, step time: 0.3842
Batch 22/248, train_loss: 0.1450, step time: 0.3635
Batch 23/248, train_loss: 0.8341, step time: 0.3732
Batch 24/248, train_loss: 0.9896, step time: 0.3827
Batch 25/248, train_loss: 0.8087, step time: 0.3758
Batch 26/248, train_loss: 0.3745, step time: 0.3926
Batch 27/248, train_loss: 0.9899, step time: 0.3842
Batch 28/248, train_loss: 0.6276, step time: 0.3886
Batch 29/248, train_loss: 0.5789, step time: 0.3747
Batch 30/248, train_loss: 0.9999, step time: 0.3806
Batch 31/248, train_loss: 0.3399, step time: 0.3538
Batch 32/248, train_loss: 0.9707, step time: 0.3595
Batch 33/248, train_loss: 0.9933, step time: 0.3522
Batch 34/248, train_loss: 0.0928, step time: 0.3458
Batch 35/248, train_loss: 0.7109, step time: 0.3604
Batch 36/248, train_loss: 0.9858, step time: 0.3564
Batch 37/248, train_loss: 0.6392, step time: 0.3828
Batch 38/248, train_loss: 0.2441, step time: 0.3460
Batch 39/248, train_loss: 0.8622, step time: 0.3665
Batch 40/248, train_loss: 0.9686, step time: 0.3824
Batch 41/248, train_loss: 0.9770, step time: 0.3626
Batch 42/248, train_loss: 0.9949, step time: 0.3899
Batch 43/248, train_loss: 0.9290, step time: 0.3709
Batch 44/248, train_loss: 0.2755, step time: 0.3836
Batch 45/248, train_loss: 0.3292, step time: 0.3877
Batch 46/248, train_loss: 0.9998, step time: 0.3640
Batch 47/248, train_loss: 0.2355, step time: 0.3468
Batch 48/248, train_loss: 0.6905, step time: 0.3691
Batch 49/248, train_loss: 0.2312, step time: 0.3697
Batch 50/248, train_loss: 0.9943, step time: 0.3520
Batch 51/248, train_loss: 0.9889, step time: 0.3643
Batch 52/248, train_loss: 0.7805, step time: 0.3917
Batch 53/248, train_loss: 0.7896, step time: 0.3583
Batch 54/248, train_loss: 0.9389, step time: 0.3604
Batch 55/248, train_loss: 0.9643, step time: 0.3544
Batch 56/248, train_loss: 0.4232, step time: 0.3881
Batch 57/248, train_loss: 0.9658, step time: 0.3757
Batch 58/248, train_loss: 0.9933, step time: 0.3482
Batch 59/248, train_loss: 0.5192, step time: 0.3625
Batch 60/248, train_loss: 0.7449, step time: 0.3593
Batch 61/248, train_loss: 0.8872, step time: 0.3845
Batch 62/248, train_loss: 0.1999, step time: 0.3677
Batch 63/248, train_loss: 0.2104, step time: 0.3666
Batch 64/248, train_loss: 0.9567, step time: 0.3471
Batch 65/248, train_loss: 0.9675, step time: 0.3677
Batch 66/248, train_loss: 0.1863, step time: 0.3782
Batch 67/248, train_loss: 1.0000, step time: 0.3854
Batch 68/248, train_loss: 0.9819, step time: 0.3851
Batch 69/248, train_loss: 0.8487, step time: 0.3702
Batch 70/248, train_loss: 0.2076, step time: 0.3591
Batch 71/248, train_loss: 0.2255, step time: 0.3857
Batch 72/248, train_loss: 0.3558, step time: 0.3514
Batch 73/248, train_loss: 0.8373, step time: 0.3882
Batch 74/248, train_loss: 0.4535, step time: 0.3509
Batch 75/248, train_loss: 0.9936, step time: 0.3472
Batch 76/248, train_loss: 0.8568, step time: 0.3507
Batch 77/248, train_loss: 0.2858, step time: 0.3474
Batch 78/248, train_loss: 0.1246, step time: 0.3701
Batch 79/248, train_loss: 0.9992, step time: 0.3532
Batch 80/248, train_loss: 0.1068, step time: 0.3836
Batch 81/248, train_loss: 0.9778, step time: 0.3829
Batch 82/248, train_loss: 0.6740, step time: 0.3474
Batch 83/248, train_loss: 0.5815, step time: 0.3827
Batch 84/248, train_loss: 0.9633, step time: 0.3916

Batch 152/248, train_loss: 0.0949, step time: 0.3507
Batch 153/248, train_loss: 0.9495, step time: 0.3437
Batch 154/248, train_loss: 0.9877, step time: 0.3770
Batch 155/248, train_loss: 0.7025, step time: 0.3770
Batch 156/248, train_loss: 0.7227, step time: 0.3624
Batch 157/248, train_loss: 0.4225, step time: 0.3869
Batch 158/248, train_loss: 0.9984, step time: 0.3907
Batch 159/248, train_loss: 0.9970, step time: 0.3474
Batch 160/248, train_loss: 0.4381, step time: 0.3550
Batch 161/248, train_loss: 0.6862, step time: 0.3878
Batch 162/248, train_loss: 0.1338, step time: 0.3906
Batch 163/248, train_loss: 0.9715, step time: 0.3700
Batch 164/248, train_loss: 0.7387, step time: 0.3607
Batch 165/248, train_loss: 0.9992, step time: 0.3821
Batch 166/248, train_loss: 0.9295, step time: 0.3745
Batch 167/248, train_loss: 0.7638, step time: 0.3685
Batch 168/248, train_loss: 0.7228, step time: 0.3497
Batch 169/248, train_loss: 0.4574, step time: 0.3618
Batch 170/248, train_loss: 0.9894, step time: 0.3474
Batch 171/248, train_loss: 0.1488, step time: 0.3806
Batch 172/248, train_loss: 0.9990, step time: 0.3900
Batch 173/248, train_loss: 0.2280, step time: 0.3446
Batch 174/248, train_loss: 0.9998, step time: 0.3680
Batch 175/248, train_loss: 0.2100, step time: 0.3757
Batch 176/248, train_loss: 0.8421, step time: 0.3466
Batch 177/248, train_loss: 0.9977, step time: 0.3723
Batch 178/248, train_loss: 0.4690, step time: 0.3891
Batch 179/248, train_loss: 0.1386, step time: 0.3778
Batch 180/248, train_loss: 0.7111, step time: 0.3827
Batch 181/248, train_loss: 0.1921, step time: 0.3575
Batch 182/248, train_loss: 0.9591, step time: 0.3601
Batch 183/248, train_loss: 0.7208, step time: 0.3637
Batch 184/248, train_loss: 0.9424, step time: 0.3762
Batch 185/248, train_loss: 0.7254, step time: 0.3639
Batch 186/248, train_loss: 0.4621, step time: 0.3468
Batch 187/248, train_loss: 0.4789, step time: 0.3826
Batch 188/248, train_loss: 0.7410, step time: 0.3484
Batch 189/248, train_loss: 0.9988, step time: 0.3684
Batch 190/248, train_loss: 0.5423, step time: 0.3541
Batch 191/248, train_loss: 0.9969, step time: 0.3461
Batch 192/248, train_loss: 0.5121, step time: 0.3500
Batch 193/248, train_loss: 0.8598, step time: 0.3707
Batch 194/248, train_loss: 0.8113, step time: 0.3665
Batch 195/248, train_loss: 0.9996, step time: 0.3830
Batch 196/248, train_loss: 0.9999, step time: 0.3772
Batch 197/248, train_loss: 0.8979, step time: 0.3496
Batch 198/248, train_loss: 1.0000, step time: 0.3601
Batch 199/248, train_loss: 0.7518, step time: 0.3832
Batch 200/248, train_loss: 0.6874, step time: 0.3743
Batch 201/248, train_loss: 0.4414, step time: 0.3664
Batch 202/248, train_loss: 0.8584, step time: 0.3776
Batch 203/248, train_loss: 0.9934, step time: 0.3679
Batch 204/248, train_loss: 0.1962, step time: 0.3836
Batch 205/248, train_loss: 0.9418, step time: 0.3913
Batch 206/248, train_loss: 0.9963, step time: 0.3502
Batch 207/248, train_loss: 0.3205, step time: 0.3864
Batch 208/248, train_loss: 0.6960, step time: 0.3456
Batch 209/248, train_loss: 0.5990, step time: 0.3770
Batch 210/248, train_loss: 0.3167, step time: 0.3489
Batch 211/248, train_loss: 0.3291, step time: 0.3549
Batch 212/248, train_loss: 0.8670, step time: 0.3654
Batch 213/248, train_loss: 0.8450, step time: 0.3657
Batch 214/248, train_loss: 0.5240, step time: 0.3640
Batch 215/248, train_loss: 0.8955, step time: 0.3553
Batch 216/248, train_loss: 0.4682, step time: 0.3617
Batch 217/248, train_loss: 0.9538, step time: 0.3679
Batch 218/248, train_loss: 0.9962, step time: 0.3700
Batch 219/248, train_loss: 0.5333, step time: 0.3659
Batch 220/248, train_loss: 0.8957, step time: 0.3753
Batch 221/248, train_loss: 0.8896, step time: 0.3482
Batch 222/248, train_loss: 0.4271, step time: 0.3865
Batch 223/248, train_loss: 0.1400, step time: 0.3695
Batch 224/248, train_loss: 0.2935, step time: 0.3676
Batch 225/248, train_loss: 0.9891, step time: 0.3903
Batch 226/248, train_loss: 0.9473, step time: 0.3848
Batch 227/248, train_loss: 0.5341, step time: 0.3883
Batch 228/248, train_loss: 0.8901, step time: 0.3889
Batch 229/248, train_loss: 0.1830, step time: 0.3821
Batch 230/248, train_loss: 0.5251, step time: 0.3620
Batch 231/248, train_loss: 0.9991, step time: 0.3716
Batch 232/248, train_loss: 0.5076, step time: 0.3539
Batch 233/248, train_loss: 0.9999, step time: 0.3509
Batch 234/248, train_loss: 0.9881, step time: 0.3477
Batch 235/248, train_loss: 0.9905, step time: 0.3619
Batch 236/248, train_loss: 0.9993, step time: 0.3789

```
Batch 237/248, train_loss: 0.2734, step time: 0.3559  
Batch 238/248, train_loss: 0.4272, step time: 0.3474  
Batch 239/248, train_loss: 0.1362, step time: 0.3522  
Batch 240/248, train_loss: 0.8389, step time: 0.3745  
Batch 241/248, train_loss: 0.9999, step time: 0.3811  
Batch 242/248, train_loss: 0.9309, step time: 0.3608  
Batch 243/248, train_loss: 0.9992, step time: 0.3707  
Batch 244/248, train_loss: 0.9815, step time: 0.3607  
Batch 245/248, train_loss: 0.3831, step time: 0.3532  
Batch 246/248, train_loss: 0.9886, step time: 0.3739  
Batch 247/248, train_loss: 0.1409, step time: 0.3842  
Batch 248/248, train_loss: 1.0000, step time: 0.3821
```

Labels



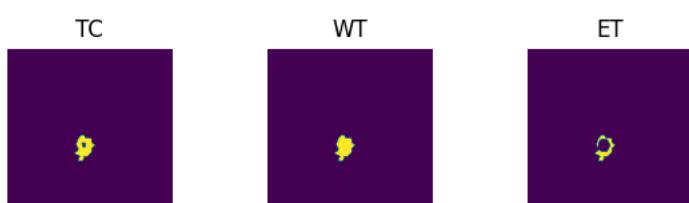
Predictions



VAL

```
Batch 1/31, val_loss: 0.8915  
Batch 2/31, val_loss: 0.9996  
Batch 3/31, val_loss: 0.9879  
Batch 4/31, val_loss: 0.9912  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7409  
Batch 7/31, val_loss: 0.8832  
Batch 8/31, val_loss: 0.9680  
Batch 9/31, val_loss: 0.7262  
Batch 10/31, val_loss: 0.9708  
Batch 11/31, val_loss: 0.8984  
Batch 12/31, val_loss: 0.9795  
Batch 13/31, val_loss: 0.9933  
Batch 14/31, val_loss: 0.9761  
Batch 15/31, val_loss: 0.9999  
Batch 16/31, val_loss: 0.9953  
Batch 17/31, val_loss: 0.9994  
Batch 18/31, val_loss: 0.9866  
Batch 19/31, val_loss: 0.8043  
Batch 20/31, val_loss: 0.9021  
Batch 21/31, val_loss: 0.9498  
Batch 22/31, val_loss: 0.9986  
Batch 23/31, val_loss: 0.9977  
Batch 24/31, val_loss: 0.7619  
Batch 25/31, val_loss: 0.8481  
Batch 26/31, val_loss: 0.9720  
Batch 27/31, val_loss: 0.9990  
Batch 28/31, val_loss: 0.8430  
Batch 29/31, val_loss: 0.9997  
Batch 30/31, val_loss: 0.9949  
Batch 31/31, val_loss: 0.9962
```

Labels



Predictions





```
epoch 42
  average train loss: 0.6959
  average validation loss: 0.9373
  saved as best model: True
  current mean dice: 0.2471
  current TC dice: 0.2576
  current WT dice: 0.2620
  current ET dice: 0.2453
Best Mean Metric: 0.2471
time consuming of epoch 42 is: 1418.4270
-----
```

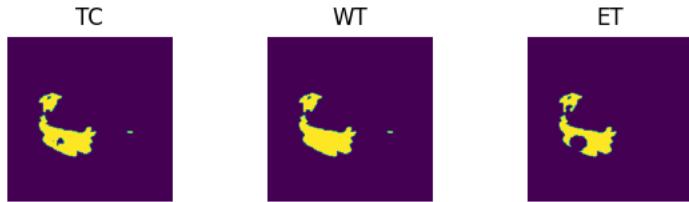
```
epoch 43/100
TRAIN
  Batch 1/248, train_loss: 0.1812, step time: 0.3469
  Batch 2/248, train_loss: 0.9988, step time: 0.3555
  Batch 3/248, train_loss: 0.9707, step time: 0.3875
  Batch 4/248, train_loss: 0.9991, step time: 0.3773
  Batch 5/248, train_loss: 0.8589, step time: 0.3774
  Batch 6/248, train_loss: 0.8438, step time: 0.3475
  Batch 7/248, train_loss: 0.1305, step time: 0.3890
  Batch 8/248, train_loss: 0.7659, step time: 0.3892
  Batch 9/248, train_loss: 0.1408, step time: 0.3761
  Batch 10/248, train_loss: 0.9383, step time: 0.3848
  Batch 11/248, train_loss: 0.8377, step time: 0.3543
  Batch 12/248, train_loss: 0.9937, step time: 0.3924
  Batch 13/248, train_loss: 0.9648, step time: 0.3700
  Batch 14/248, train_loss: 0.0877, step time: 0.3670
  Batch 15/248, train_loss: 0.9299, step time: 0.3491
  Batch 16/248, train_loss: 0.8016, step time: 0.3717
  Batch 17/248, train_loss: 0.9949, step time: 0.3817
  Batch 18/248, train_loss: 0.9796, step time: 0.3686
  Batch 19/248, train_loss: 0.2208, step time: 0.3867
  Batch 20/248, train_loss: 0.7767, step time: 0.3856
  Batch 21/248, train_loss: 0.4178, step time: 0.3601
  Batch 22/248, train_loss: 0.9998, step time: 0.3557
  Batch 23/248, train_loss: 0.9999, step time: 0.3501
  Batch 24/248, train_loss: 0.5097, step time: 0.3459
  Batch 25/248, train_loss: 0.1361, step time: 0.3547
  Batch 26/248, train_loss: 0.9888, step time: 0.3544
  Batch 27/248, train_loss: 0.1495, step time: 0.3608
  Batch 28/248, train_loss: 0.7772, step time: 0.3820
  Batch 29/248, train_loss: 0.9919, step time: 0.3476
  Batch 30/248, train_loss: 0.8189, step time: 0.3800
  Batch 31/248, train_loss: 0.9163, step time: 0.3926
  Batch 32/248, train_loss: 0.4412, step time: 0.3513
  Batch 33/248, train_loss: 0.1502, step time: 0.3664
  Batch 34/248, train_loss: 0.1889, step time: 0.3773
  Batch 35/248, train_loss: 0.4906, step time: 0.3459
  Batch 36/248, train_loss: 0.9977, step time: 0.3515
  Batch 37/248, train_loss: 0.6039, step time: 0.3508
  Batch 38/248, train_loss: 0.8994, step time: 0.3820
  Batch 39/248, train_loss: 0.6534, step time: 0.3580
  Batch 40/248, train_loss: 1.0000, step time: 0.3496
  Batch 41/248, train_loss: 0.4171, step time: 0.3675
  Batch 42/248, train_loss: 0.3255, step time: 0.3435
  Batch 43/248, train_loss: 0.1529, step time: 0.3840
  Batch 44/248, train_loss: 0.6667, step time: 0.3652
  Batch 45/248, train_loss: 0.8928, step time: 0.3871
  Batch 46/248, train_loss: 0.6676, step time: 0.3664
  Batch 47/248, train_loss: 0.7909, step time: 0.3739
  Batch 48/248, train_loss: 0.6956, step time: 0.3741
  Batch 49/248, train_loss: 0.9855, step time: 0.3575
  Batch 50/248, train_loss: 0.8132, step time: 0.3853
  Batch 51/248, train_loss: 0.7899, step time: 0.3573
  Batch 52/248, train_loss: 0.6855, step time: 0.3585
  Batch 53/248, train_loss: 0.9176, step time: 0.3613
  Batch 54/248, train_loss: 0.7774, step time: 0.3465
  Batch 55/248, train_loss: 0.9314, step time: 0.3470
  Batch 56/248, train_loss: 0.8133, step time: 0.3545
  Batch 57/248, train_loss: 0.8206, step time: 0.3680
  Batch 58/248, train_loss: 0.3849, step time: 0.3645
  Batch 59/248, train_loss: 0.4975, step time: 0.3611
  Batch 60/248, train_loss: 0.3409, step time: 0.3464
  Batch 61/248, train_loss: 0.5015, step time: 0.3788
  Batch 62/248, train_loss: 0.9421, step time: 0.3871
  Batch 63/248, train_loss: 0.9859, step time: 0.3698
  Batch 64/248, train_loss: 0.9842, step time: 0.3457
  Batch 65/248, train_loss: 0.8079, step time: 0.3537
  Batch 66/248, train_loss: 0.8053, step time: 0.3515
```

Batch 67/248, train_loss: 0.1629, step time: 0.3663
Batch 68/248, train_loss: 0.3019, step time: 0.3455
Batch 69/248, train_loss: 0.9993, step time: 0.3818
Batch 70/248, train_loss: 0.3896, step time: 0.3870
Batch 71/248, train_loss: 0.3048, step time: 0.3604
Batch 72/248, train_loss: 0.2588, step time: 0.3877
Batch 73/248, train_loss: 0.3823, step time: 0.3635
Batch 74/248, train_loss: 0.9998, step time: 0.3814
Batch 75/248, train_loss: 0.3982, step time: 0.3609
Batch 76/248, train_loss: 0.9940, step time: 0.3706
Batch 77/248, train_loss: 0.9995, step time: 0.3637
Batch 78/248, train_loss: 0.6173, step time: 0.3547
Batch 79/248, train_loss: 0.7704, step time: 0.3643
Batch 80/248, train_loss: 0.8694, step time: 0.3650
Batch 81/248, train_loss: 0.9127, step time: 0.3764
Batch 82/248, train_loss: 0.3590, step time: 0.3630
Batch 83/248, train_loss: 0.9895, step time: 0.3707
Batch 84/248, train_loss: 0.7847, step time: 0.3679
Batch 85/248, train_loss: 0.9942, step time: 0.3804
Batch 86/248, train_loss: 0.5919, step time: 0.3754
Batch 87/248, train_loss: 0.9881, step time: 0.3850
Batch 88/248, train_loss: 0.9776, step time: 0.3430
Batch 89/248, train_loss: 0.1412, step time: 0.3835
Batch 90/248, train_loss: 0.8308, step time: 0.3631
Batch 91/248, train_loss: 0.9896, step time: 0.3439
Batch 92/248, train_loss: 0.8034, step time: 0.3612
Batch 93/248, train_loss: 0.3660, step time: 0.3866
Batch 94/248, train_loss: 0.9893, step time: 0.3531
Batch 95/248, train_loss: 0.6075, step time: 0.3782
Batch 96/248, train_loss: 0.5612, step time: 0.3629
Batch 97/248, train_loss: 0.9998, step time: 0.3463
Batch 98/248, train_loss: 0.3157, step time: 0.3576
Batch 99/248, train_loss: 0.9661, step time: 0.3850
Batch 100/248, train_loss: 0.9925, step time: 0.3716
Batch 101/248, train_loss: 0.0927, step time: 0.3806
Batch 102/248, train_loss: 0.6938, step time: 0.3685
Batch 103/248, train_loss: 0.9860, step time: 0.3599
Batch 104/248, train_loss: 0.6218, step time: 0.3813
Batch 105/248, train_loss: 0.2328, step time: 0.3683
Batch 106/248, train_loss: 0.8282, step time: 0.3483
Batch 107/248, train_loss: 0.9640, step time: 0.3651
Batch 108/248, train_loss: 0.9801, step time: 0.3475
Batch 109/248, train_loss: 0.9964, step time: 0.3815
Batch 110/248, train_loss: 0.8935, step time: 0.3745
Batch 111/248, train_loss: 0.2555, step time: 0.3462
Batch 112/248, train_loss: 0.2933, step time: 0.3624
Batch 113/248, train_loss: 0.9998, step time: 0.3512
Batch 114/248, train_loss: 0.2191, step time: 0.3422
Batch 115/248, train_loss: 0.6790, step time: 0.3717
Batch 116/248, train_loss: 0.2220, step time: 0.3670
Batch 117/248, train_loss: 0.9952, step time: 0.3732
Batch 118/248, train_loss: 0.9666, step time: 0.3649
Batch 119/248, train_loss: 0.7448, step time: 0.3803
Batch 120/248, train_loss: 0.7579, step time: 0.3813
Batch 121/248, train_loss: 0.9306, step time: 0.3740
Batch 122/248, train_loss: 0.9623, step time: 0.3844
Batch 123/248, train_loss: 0.4125, step time: 0.3742
Batch 124/248, train_loss: 0.9631, step time: 0.3539
Batch 125/248, train_loss: 0.9937, step time: 0.3833
Batch 126/248, train_loss: 0.5379, step time: 0.3666
Batch 127/248, train_loss: 0.7190, step time: 0.3616
Batch 128/248, train_loss: 0.8892, step time: 0.3593
Batch 129/248, train_loss: 0.1936, step time: 0.3516
Batch 130/248, train_loss: 0.1979, step time: 0.3546
Batch 131/248, train_loss: 0.9545, step time: 0.3587
Batch 132/248, train_loss: 0.9592, step time: 0.3771
Batch 133/248, train_loss: 0.1784, step time: 0.3447
Batch 134/248, train_loss: 1.0000, step time: 0.3489
Batch 135/248, train_loss: 0.9764, step time: 0.3782
Batch 136/248, train_loss: 0.8467, step time: 0.3680
Batch 137/248, train_loss: 0.1938, step time: 0.3444
Batch 138/248, train_loss: 0.2158, step time: 0.3520
Batch 139/248, train_loss: 0.3327, step time: 0.3456
Batch 140/248, train_loss: 0.8301, step time: 0.3680
Batch 141/248, train_loss: 0.4114, step time: 0.3632
Batch 142/248, train_loss: 0.9936, step time: 0.3790
Batch 143/248, train_loss: 0.8513, step time: 0.3495
Batch 144/248, train_loss: 0.2830, step time: 0.3835
Batch 145/248, train_loss: 0.1079, step time: 0.3562
Batch 146/248, train_loss: 0.9990, step time: 0.3667
Batch 147/248, train_loss: 0.0962, step time: 0.3771
Batch 148/248, train_loss: 0.9735, step time: 0.3548
Batch 149/248, train_loss: 0.6526, step time: 0.3569
Batch 150/248, train_loss: 0.5792, step time: 0.3742
Batch 151/248, train_loss: 0.9649, step time: 0.3472

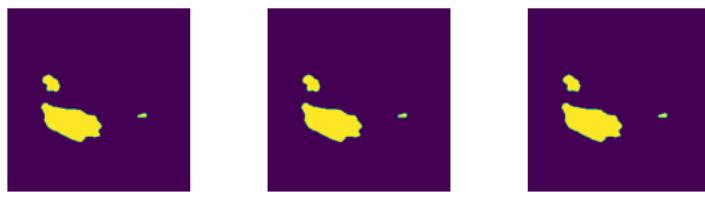
Batch 152/248, train_loss: 0.0862, step time: 0.3799
Batch 153/248, train_loss: 0.9440, step time: 0.3847
Batch 154/248, train_loss: 0.9875, step time: 0.3713
Batch 155/248, train_loss: 0.6972, step time: 0.3813
Batch 156/248, train_loss: 0.7102, step time: 0.3797
Batch 157/248, train_loss: 0.4197, step time: 0.3702
Batch 158/248, train_loss: 0.9987, step time: 0.3505
Batch 159/248, train_loss: 0.9971, step time: 0.3701
Batch 160/248, train_loss: 0.4305, step time: 0.3457
Batch 161/248, train_loss: 0.6681, step time: 0.3413
Batch 162/248, train_loss: 0.1247, step time: 0.3859
Batch 163/248, train_loss: 0.9700, step time: 0.3549
Batch 164/248, train_loss: 0.7296, step time: 0.3648
Batch 165/248, train_loss: 0.9995, step time: 0.3461
Batch 166/248, train_loss: 0.9303, step time: 0.3776
Batch 167/248, train_loss: 0.7577, step time: 0.3712
Batch 168/248, train_loss: 0.7160, step time: 0.3770
Batch 169/248, train_loss: 0.4427, step time: 0.3852
Batch 170/248, train_loss: 0.9908, step time: 0.3466
Batch 171/248, train_loss: 0.1375, step time: 0.3814
Batch 172/248, train_loss: 0.9991, step time: 0.3584
Batch 173/248, train_loss: 0.2247, step time: 0.3448
Batch 174/248, train_loss: 0.9999, step time: 0.3489
Batch 175/248, train_loss: 0.1970, step time: 0.3467
Batch 176/248, train_loss: 0.8318, step time: 0.3716
Batch 177/248, train_loss: 0.9958, step time: 0.3721
Batch 178/248, train_loss: 0.4685, step time: 0.3483
Batch 179/248, train_loss: 0.1356, step time: 0.3533
Batch 180/248, train_loss: 0.7043, step time: 0.3685
Batch 181/248, train_loss: 0.1935, step time: 0.3771
Batch 182/248, train_loss: 0.9524, step time: 0.3469
Batch 183/248, train_loss: 0.7095, step time: 0.3696
Batch 184/248, train_loss: 0.9542, step time: 0.3447
Batch 185/248, train_loss: 0.7160, step time: 0.3689
Batch 186/248, train_loss: 0.4433, step time: 0.3748
Batch 187/248, train_loss: 0.4675, step time: 0.3727
Batch 188/248, train_loss: 0.7333, step time: 0.3862
Batch 189/248, train_loss: 0.9995, step time: 0.3491
Batch 190/248, train_loss: 0.5287, step time: 0.3695
Batch 191/248, train_loss: 0.9979, step time: 0.3758
Batch 192/248, train_loss: 0.5295, step time: 0.3554
Batch 193/248, train_loss: 0.8492, step time: 0.3730
Batch 194/248, train_loss: 0.8062, step time: 0.3672
Batch 195/248, train_loss: 0.9995, step time: 0.3578
Batch 196/248, train_loss: 1.0000, step time: 0.3471
Batch 197/248, train_loss: 0.8960, step time: 0.3659
Batch 198/248, train_loss: 1.0000, step time: 0.3852
Batch 199/248, train_loss: 0.7587, step time: 0.3808
Batch 200/248, train_loss: 0.6738, step time: 0.3574
Batch 201/248, train_loss: 0.4397, step time: 0.3525
Batch 202/248, train_loss: 0.8569, step time: 0.3784
Batch 203/248, train_loss: 0.9903, step time: 0.3467
Batch 204/248, train_loss: 0.1780, step time: 0.3742
Batch 205/248, train_loss: 0.9393, step time: 0.3563
Batch 206/248, train_loss: 0.9961, step time: 0.3450
Batch 207/248, train_loss: 0.3198, step time: 0.3875
Batch 208/248, train_loss: 0.7037, step time: 0.3423
Batch 209/248, train_loss: 0.5827, step time: 0.3872
Batch 210/248, train_loss: 0.2984, step time: 0.3879
Batch 211/248, train_loss: 0.3157, step time: 0.3830
Batch 212/248, train_loss: 0.8728, step time: 0.3846
Batch 213/248, train_loss: 0.8418, step time: 0.3875
Batch 214/248, train_loss: 0.5101, step time: 0.3494
Batch 215/248, train_loss: 0.8935, step time: 0.3652
Batch 216/248, train_loss: 0.4412, step time: 0.3427
Batch 217/248, train_loss: 0.9454, step time: 0.3831
Batch 218/248, train_loss: 0.9973, step time: 0.3746
Batch 219/248, train_loss: 0.5028, step time: 0.3697
Batch 220/248, train_loss: 0.8926, step time: 0.3850
Batch 221/248, train_loss: 0.8907, step time: 0.3790
Batch 222/248, train_loss: 0.4480, step time: 0.3625
Batch 223/248, train_loss: 0.1353, step time: 0.3890
Batch 224/248, train_loss: 0.2826, step time: 0.3575
Batch 225/248, train_loss: 0.9898, step time: 0.3865
Batch 226/248, train_loss: 0.9512, step time: 0.3700
Batch 227/248, train_loss: 0.5074, step time: 0.3804
Batch 228/248, train_loss: 0.8721, step time: 0.3841
Batch 229/248, train_loss: 0.1869, step time: 0.3785
Batch 230/248, train_loss: 0.5107, step time: 0.3578
Batch 231/248, train_loss: 0.9984, step time: 0.3505
Batch 232/248, train_loss: 0.4958, step time: 0.3410
Batch 233/248, train_loss: 0.9999, step time: 0.3427
Batch 234/248, train_loss: 0.9911, step time: 0.3823
Batch 235/248, train_loss: 0.9838, step time: 0.3427
Batch 236/248, train_loss: 0.9992, step time: 0.3520

```
Batch 236/248, train_loss: 0.9999, step time: 0.3520
Batch 237/248, train_loss: 0.2658, step time: 0.3703
Batch 238/248, train_loss: 0.4095, step time: 0.3698
Batch 239/248, train_loss: 0.1731, step time: 0.3505
Batch 240/248, train_loss: 0.8312, step time: 0.3490
Batch 241/248, train_loss: 0.9997, step time: 0.3652
Batch 242/248, train_loss: 0.9295, step time: 0.3610
Batch 243/248, train_loss: 0.9999, step time: 0.3541
Batch 244/248, train_loss: 0.9935, step time: 0.3433
Batch 245/248, train_loss: 0.3598, step time: 0.3865
Batch 246/248, train_loss: 0.9858, step time: 0.3766
Batch 247/248, train_loss: 0.1452, step time: 0.3824
Batch 248/248, train_loss: 1.0000, step time: 0.3463
```

Labels



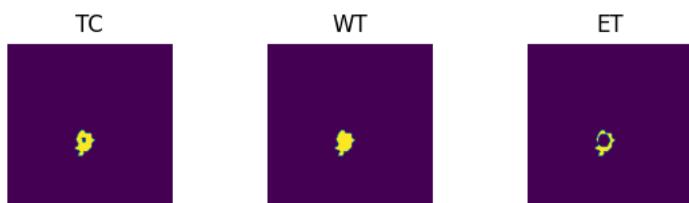
Predictions



VAL

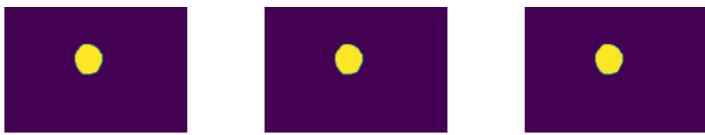
```
Batch 1/31, val_loss: 0.8914
Batch 2/31, val_loss: 0.9996
Batch 3/31, val_loss: 0.9874
Batch 4/31, val_loss: 0.9952
Batch 5/31, val_loss: 0.9999
Batch 6/31, val_loss: 0.7365
Batch 7/31, val_loss: 0.8851
Batch 8/31, val_loss: 0.9891
Batch 9/31, val_loss: 0.7325
Batch 10/31, val_loss: 0.9868
Batch 11/31, val_loss: 0.8943
Batch 12/31, val_loss: 0.9799
Batch 13/31, val_loss: 0.9963
Batch 14/31, val_loss: 0.9752
Batch 15/31, val_loss: 0.9984
Batch 16/31, val_loss: 0.9924
Batch 17/31, val_loss: 0.9995
Batch 18/31, val_loss: 0.9902
Batch 19/31, val_loss: 0.8017
Batch 20/31, val_loss: 0.9037
Batch 21/31, val_loss: 0.9485
Batch 22/31, val_loss: 0.9986
Batch 23/31, val_loss: 0.9962
Batch 24/31, val_loss: 0.7613
Batch 25/31, val_loss: 0.8445
Batch 26/31, val_loss: 0.9728
Batch 27/31, val_loss: 0.9992
Batch 28/31, val_loss: 0.8395
Batch 29/31, val_loss: 0.9990
Batch 30/31, val_loss: 0.9960
Batch 31/31, val_loss: 0.9960
```

Labels



Predictions





epoch 43

```
average train loss: 0.6876
average validation loss: 0.9383
saved as best model: True
current mean dice: 0.2498
current TC dice: 0.2603
current WT dice: 0.2646
current ET dice: 0.2483
Best Mean Metric: 0.2498
time consuming of epoch 43 is: 1454.6568
```

epoch 44/100

TRAIN

```
Batch 1/248, train_loss: 0.1657, step time: 0.3739
Batch 2/248, train_loss: 0.9987, step time: 0.3501
Batch 3/248, train_loss: 0.9658, step time: 0.3849
Batch 4/248, train_loss: 0.9998, step time: 0.3575
Batch 5/248, train_loss: 0.8515, step time: 0.3722
Batch 6/248, train_loss: 0.8381, step time: 0.3656
Batch 7/248, train_loss: 0.1319, step time: 0.3635
Batch 8/248, train_loss: 0.7603, step time: 0.3528
Batch 9/248, train_loss: 0.1269, step time: 0.3800
Batch 10/248, train_loss: 0.9308, step time: 0.3857
Batch 11/248, train_loss: 0.8300, step time: 0.3790
Batch 12/248, train_loss: 0.9939, step time: 0.3459
Batch 13/248, train_loss: 0.9707, step time: 0.3606
Batch 14/248, train_loss: 0.0949, step time: 0.3845
Batch 15/248, train_loss: 0.9213, step time: 0.3573
Batch 16/248, train_loss: 0.7924, step time: 0.3481
Batch 17/248, train_loss: 0.9952, step time: 0.3472
Batch 18/248, train_loss: 0.9786, step time: 0.3807
Batch 19/248, train_loss: 0.2093, step time: 0.3462
Batch 20/248, train_loss: 0.7749, step time: 0.3859
Batch 21/248, train_loss: 0.4036, step time: 0.3865
Batch 22/248, train_loss: 0.9999, step time: 0.3468
Batch 23/248, train_loss: 0.9985, step time: 0.3472
Batch 24/248, train_loss: 0.4865, step time: 0.3684
Batch 25/248, train_loss: 0.1277, step time: 0.3576
Batch 26/248, train_loss: 0.9887, step time: 0.3696
Batch 27/248, train_loss: 0.1485, step time: 0.3538
Batch 28/248, train_loss: 0.7766, step time: 0.3537
Batch 29/248, train_loss: 0.9929, step time: 0.3701
Batch 30/248, train_loss: 0.9626, step time: 0.3549
Batch 31/248, train_loss: 0.9149, step time: 0.3535
Batch 32/248, train_loss: 0.4184, step time: 0.3777
Batch 33/248, train_loss: 0.1401, step time: 0.3789
Batch 34/248, train_loss: 0.1764, step time: 0.3880
Batch 35/248, train_loss: 0.4765, step time: 0.3860
Batch 36/248, train_loss: 0.9990, step time: 0.3499
Batch 37/248, train_loss: 0.6108, step time: 0.3457
Batch 38/248, train_loss: 0.8932, step time: 0.3556
Batch 39/248, train_loss: 0.6473, step time: 0.3446
Batch 40/248, train_loss: 0.9989, step time: 0.3552
Batch 41/248, train_loss: 0.4158, step time: 0.3458
Batch 42/248, train_loss: 0.3150, step time: 0.3561
Batch 43/248, train_loss: 0.1456, step time: 0.3493
Batch 44/248, train_loss: 0.6852, step time: 0.3628
Batch 45/248, train_loss: 0.9035, step time: 0.3749
Batch 46/248, train_loss: 0.6613, step time: 0.3491
Batch 47/248, train_loss: 0.7632, step time: 0.3617
Batch 48/248, train_loss: 0.6830, step time: 0.3502
Batch 49/248, train_loss: 0.9810, step time: 0.3841
Batch 50/248, train_loss: 0.8066, step time: 0.3746
Batch 51/248, train_loss: 0.7857, step time: 0.3480
Batch 52/248, train_loss: 0.6670, step time: 0.3400
Batch 53/248, train_loss: 0.9158, step time: 0.3736
Batch 54/248, train_loss: 0.7684, step time: 0.3583
Batch 55/248, train_loss: 0.9227, step time: 0.3413
Batch 56/248, train_loss: 0.7852, step time: 0.3587
Batch 57/248, train_loss: 0.8105, step time: 0.3808
Batch 58/248, train_loss: 0.3771, step time: 0.3750
Batch 59/248, train_loss: 0.4765, step time: 0.3844
Batch 60/248, train_loss: 0.3336, step time: 0.3635
Batch 61/248, train_loss: 0.4935, step time: 0.3524
Batch 62/248, train_loss: 0.9371, step time: 0.3419
Batch 63/248, train_loss: 0.9846, step time: 0.3857
Batch 64/248, train_loss: 0.9855, step time: 0.3683
Batch 65/248, train_loss: 0.8040, step time: 0.3567
Batch 66/248, train_loss: 0.8050, step time: 0.3813
```

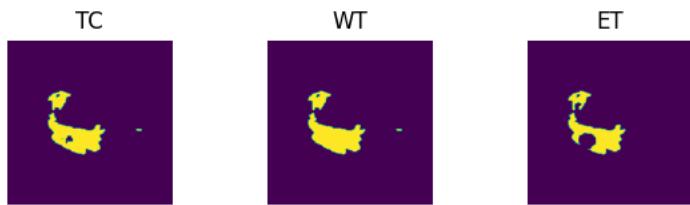
Batch 67/248, train_loss: 0.1576, step time: 0.3460
Batch 68/248, train_loss: 0.3096, step time: 0.3636
Batch 69/248, train_loss: 0.9996, step time: 0.3783
Batch 70/248, train_loss: 0.3805, step time: 0.3722
Batch 71/248, train_loss: 0.3640, step time: 0.3430
Batch 72/248, train_loss: 0.2487, step time: 0.3698
Batch 73/248, train_loss: 0.5484, step time: 0.3549
Batch 74/248, train_loss: 0.9997, step time: 0.3525
Batch 75/248, train_loss: 0.3805, step time: 0.3591
Batch 76/248, train_loss: 0.9877, step time: 0.3708
Batch 77/248, train_loss: 0.9998, step time: 0.3440
Batch 78/248, train_loss: 0.6215, step time: 0.3469
Batch 79/248, train_loss: 0.7714, step time: 0.3564
Batch 80/248, train_loss: 0.8877, step time: 0.3717
Batch 81/248, train_loss: 0.9170, step time: 0.3431
Batch 82/248, train_loss: 0.3647, step time: 0.3795
Batch 83/248, train_loss: 0.9898, step time: 0.3603
Batch 84/248, train_loss: 0.7802, step time: 0.3414
Batch 85/248, train_loss: 0.9917, step time: 0.3430
Batch 86/248, train_loss: 0.6576, step time: 0.3508
Batch 87/248, train_loss: 0.9910, step time: 0.3593
Batch 88/248, train_loss: 0.9709, step time: 0.3490
Batch 89/248, train_loss: 0.1338, step time: 0.3823
Batch 90/248, train_loss: 0.8444, step time: 0.3730
Batch 91/248, train_loss: 0.9897, step time: 0.3860
Batch 92/248, train_loss: 0.8288, step time: 0.3591
Batch 93/248, train_loss: 0.3445, step time: 0.3498
Batch 94/248, train_loss: 0.9927, step time: 0.3454
Batch 95/248, train_loss: 0.6107, step time: 0.3590
Batch 96/248, train_loss: 0.5488, step time: 0.3534
Batch 97/248, train_loss: 0.9999, step time: 0.3827
Batch 98/248, train_loss: 0.2957, step time: 0.3695
Batch 99/248, train_loss: 0.9657, step time: 0.3454
Batch 100/248, train_loss: 0.9928, step time: 0.3439
Batch 101/248, train_loss: 0.0929, step time: 0.3488
Batch 102/248, train_loss: 0.6798, step time: 0.3537
Batch 103/248, train_loss: 0.9849, step time: 0.3535
Batch 104/248, train_loss: 0.6188, step time: 0.3542
Batch 105/248, train_loss: 0.2316, step time: 0.3785
Batch 106/248, train_loss: 0.8195, step time: 0.3496
Batch 107/248, train_loss: 0.9621, step time: 0.3670
Batch 108/248, train_loss: 0.9783, step time: 0.3464
Batch 109/248, train_loss: 0.9991, step time: 0.3414
Batch 110/248, train_loss: 0.8904, step time: 0.3864
Batch 111/248, train_loss: 0.2523, step time: 0.3417
Batch 112/248, train_loss: 0.2889, step time: 0.3674
Batch 113/248, train_loss: 0.9999, step time: 0.3706
Batch 114/248, train_loss: 0.2246, step time: 0.3775
Batch 115/248, train_loss: 0.6740, step time: 0.3575
Batch 116/248, train_loss: 0.2044, step time: 0.3723
Batch 117/248, train_loss: 0.9943, step time: 0.3595
Batch 118/248, train_loss: 0.9743, step time: 0.3665
Batch 119/248, train_loss: 0.7488, step time: 0.3848
Batch 120/248, train_loss: 0.7531, step time: 0.3602
Batch 121/248, train_loss: 0.9252, step time: 0.3808
Batch 122/248, train_loss: 0.9595, step time: 0.3416
Batch 123/248, train_loss: 0.3969, step time: 0.3846
Batch 124/248, train_loss: 0.9632, step time: 0.3760
Batch 125/248, train_loss: 0.9920, step time: 0.3798
Batch 126/248, train_loss: 0.4982, step time: 0.3537
Batch 127/248, train_loss: 0.7145, step time: 0.3825
Batch 128/248, train_loss: 0.8842, step time: 0.3546
Batch 129/248, train_loss: 0.1845, step time: 0.3791
Batch 130/248, train_loss: 0.2289, step time: 0.3738
Batch 131/248, train_loss: 0.9552, step time: 0.3885
Batch 132/248, train_loss: 0.9606, step time: 0.3447
Batch 133/248, train_loss: 0.1903, step time: 0.3575
Batch 134/248, train_loss: 0.9998, step time: 0.3446
Batch 135/248, train_loss: 0.9788, step time: 0.3516
Batch 136/248, train_loss: 0.8383, step time: 0.3825
Batch 137/248, train_loss: 0.2018, step time: 0.3814
Batch 138/248, train_loss: 0.2075, step time: 0.3701
Batch 139/248, train_loss: 0.3453, step time: 0.3814
Batch 140/248, train_loss: 0.8354, step time: 0.3586
Batch 141/248, train_loss: 0.4172, step time: 0.3723
Batch 142/248, train_loss: 0.9922, step time: 0.3458
Batch 143/248, train_loss: 0.8454, step time: 0.3485
Batch 144/248, train_loss: 0.2680, step time: 0.3879
Batch 145/248, train_loss: 0.1044, step time: 0.3849
Batch 146/248, train_loss: 0.9988, step time: 0.3516
Batch 147/248, train_loss: 0.0955, step time: 0.4002
Batch 148/248, train_loss: 0.9729, step time: 0.3840
Batch 149/248, train_loss: 0.6422, step time: 0.3494
Batch 150/248, train_loss: 0.5852, step time: 0.3873

Batch 151/248, train_loss: 0.9701, step time: 0.3882

Batch 121/248, train_loss: 0.9781, step time: 0.3009
Batch 152/248, train_loss: 0.0933, step time: 0.3599
Batch 153/248, train_loss: 0.9397, step time: 0.3821
Batch 154/248, train_loss: 0.9872, step time: 0.3582
Batch 155/248, train_loss: 0.6782, step time: 0.3486
Batch 156/248, train_loss: 0.7029, step time: 0.3700
Batch 157/248, train_loss: 0.4269, step time: 0.3711
Batch 158/248, train_loss: 0.9996, step time: 0.3743
Batch 159/248, train_loss: 0.9959, step time: 0.3877
Batch 160/248, train_loss: 0.4187, step time: 0.3544
Batch 161/248, train_loss: 0.6578, step time: 0.3771
Batch 162/248, train_loss: 0.1372, step time: 0.3778
Batch 163/248, train_loss: 0.9707, step time: 0.3752
Batch 164/248, train_loss: 0.7193, step time: 0.3833
Batch 165/248, train_loss: 0.9988, step time: 0.3649
Batch 166/248, train_loss: 0.9380, step time: 0.3656
Batch 167/248, train_loss: 0.7468, step time: 0.3441
Batch 168/248, train_loss: 0.7096, step time: 0.3583
Batch 169/248, train_loss: 0.4291, step time: 0.3853
Batch 170/248, train_loss: 0.9930, step time: 0.3736
Batch 171/248, train_loss: 0.1266, step time: 0.3603
Batch 172/248, train_loss: 0.9993, step time: 0.3865
Batch 173/248, train_loss: 0.2240, step time: 0.3482
Batch 174/248, train_loss: 0.9890, step time: 0.3789
Batch 175/248, train_loss: 0.2188, step time: 0.3508
Batch 176/248, train_loss: 0.8284, step time: 0.3591
Batch 177/248, train_loss: 0.9939, step time: 0.3635
Batch 178/248, train_loss: 0.4480, step time: 0.3503
Batch 179/248, train_loss: 0.1409, step time: 0.3472
Batch 180/248, train_loss: 0.6975, step time: 0.3712
Batch 181/248, train_loss: 0.1883, step time: 0.3734
Batch 182/248, train_loss: 0.9622, step time: 0.3702
Batch 183/248, train_loss: 0.7089, step time: 0.3820
Batch 184/248, train_loss: 0.9354, step time: 0.3816
Batch 185/248, train_loss: 0.7034, step time: 0.3828
Batch 186/248, train_loss: 0.4531, step time: 0.3881
Batch 187/248, train_loss: 0.4631, step time: 0.3677
Batch 188/248, train_loss: 0.7252, step time: 0.3735
Batch 189/248, train_loss: 0.9995, step time: 0.3430
Batch 190/248, train_loss: 0.5062, step time: 0.3501
Batch 191/248, train_loss: 0.9970, step time: 0.3798
Batch 192/248, train_loss: 0.5139, step time: 0.3846
Batch 193/248, train_loss: 0.8434, step time: 0.3502
Batch 194/248, train_loss: 0.8018, step time: 0.3805
Batch 195/248, train_loss: 0.9993, step time: 0.3549
Batch 196/248, train_loss: 0.9999, step time: 0.3815
Batch 197/248, train_loss: 0.8937, step time: 0.3735
Batch 198/248, train_loss: 1.0000, step time: 0.3581
Batch 199/248, train_loss: 0.7381, step time: 0.3455
Batch 200/248, train_loss: 0.6636, step time: 0.3473
Batch 201/248, train_loss: 0.4151, step time: 0.3746
Batch 202/248, train_loss: 0.8498, step time: 0.3497
Batch 203/248, train_loss: 0.9978, step time: 0.3586
Batch 204/248, train_loss: 0.1813, step time: 0.3823
Batch 205/248, train_loss: 0.9390, step time: 0.3459
Batch 206/248, train_loss: 0.9965, step time: 0.3728
Batch 207/248, train_loss: 0.2954, step time: 0.3885
Batch 208/248, train_loss: 0.6722, step time: 0.3815
Batch 209/248, train_loss: 0.5638, step time: 0.3865
Batch 210/248, train_loss: 0.2842, step time: 0.3871
Batch 211/248, train_loss: 0.3038, step time: 0.3895
Batch 212/248, train_loss: 0.8530, step time: 0.3450
Batch 213/248, train_loss: 0.8308, step time: 0.3633
Batch 214/248, train_loss: 0.4917, step time: 0.3617
Batch 215/248, train_loss: 0.8913, step time: 0.3551
Batch 216/248, train_loss: 0.3978, step time: 0.3847
Batch 217/248, train_loss: 0.9435, step time: 0.3855
Batch 218/248, train_loss: 0.9973, step time: 0.3432
Batch 219/248, train_loss: 0.4954, step time: 0.3890
Batch 220/248, train_loss: 0.8874, step time: 0.3858
Batch 221/248, train_loss: 0.8823, step time: 0.3624
Batch 222/248, train_loss: 0.4300, step time: 0.3468
Batch 223/248, train_loss: 0.1316, step time: 0.3604
Batch 224/248, train_loss: 0.2657, step time: 0.3869
Batch 225/248, train_loss: 0.9899, step time: 0.3555
Batch 226/248, train_loss: 0.9576, step time: 0.3422
Batch 227/248, train_loss: 0.4892, step time: 0.3544
Batch 228/248, train_loss: 0.8744, step time: 0.3468
Batch 229/248, train_loss: 0.1840, step time: 0.3861
Batch 230/248, train_loss: 0.4956, step time: 0.3470
Batch 231/248, train_loss: 0.9994, step time: 0.3483
Batch 232/248, train_loss: 0.4866, step time: 0.3808
Batch 233/248, train_loss: 0.9998, step time: 0.3481
Batch 234/248, train_loss: 0.9897, step time: 0.3531
Batch 235/248, train_loss: 0.9902, step time: 0.3800

```
Batch 236/248, train_loss: 0.9993, step time: 0.3434  
Batch 237/248, train_loss: 0.2611, step time: 0.3803  
Batch 238/248, train_loss: 0.3994, step time: 0.3811  
Batch 239/248, train_loss: 0.1342, step time: 0.3708  
Batch 240/248, train_loss: 0.8196, step time: 0.3805  
Batch 241/248, train_loss: 1.0000, step time: 0.3753  
Batch 242/248, train_loss: 0.9253, step time: 0.3429  
Batch 243/248, train_loss: 0.9979, step time: 0.3836  
Batch 244/248, train_loss: 0.9912, step time: 0.3427  
Batch 245/248, train_loss: 0.3366, step time: 0.3656  
Batch 246/248, train_loss: 0.9844, step time: 0.3775  
Batch 247/248, train_loss: 0.1347, step time: 0.3492  
Batch 248/248, train_loss: 1.0000, step time: 0.3721
```

Labels



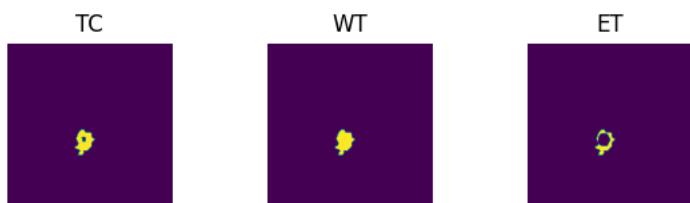
Predictions



VAL

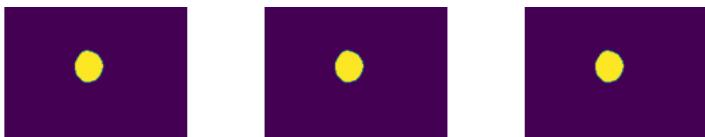
```
Batch 1/31, val_loss: 0.8894  
Batch 2/31, val_loss: 0.9995  
Batch 3/31, val_loss: 0.9963  
Batch 4/31, val_loss: 0.9932  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7349  
Batch 7/31, val_loss: 0.8815  
Batch 8/31, val_loss: 0.9867  
Batch 9/31, val_loss: 0.7266  
Batch 10/31, val_loss: 0.9818  
Batch 11/31, val_loss: 0.8931  
Batch 12/31, val_loss: 0.9817  
Batch 13/31, val_loss: 0.9935  
Batch 14/31, val_loss: 0.9763  
Batch 15/31, val_loss: 0.9994  
Batch 16/31, val_loss: 0.9945  
Batch 17/31, val_loss: 0.9994  
Batch 18/31, val_loss: 0.9880  
Batch 19/31, val_loss: 0.7969  
Batch 20/31, val_loss: 0.8980  
Batch 21/31, val_loss: 0.9482  
Batch 22/31, val_loss: 0.9980  
Batch 23/31, val_loss: 0.9951  
Batch 24/31, val_loss: 0.7621  
Batch 25/31, val_loss: 0.8424  
Batch 26/31, val_loss: 0.9720  
Batch 27/31, val_loss: 0.9988  
Batch 28/31, val_loss: 0.8334  
Batch 29/31, val_loss: 0.9995  
Batch 30/31, val_loss: 0.9948  
Batch 31/31, val_loss: 0.9959
```

Labels



Predictions





```
epoch 44
average train loss: 0.6848
average validation loss: 0.9371
saved as best model: True
current mean dice: 0.2565
current TC dice: 0.2674
current WT dice: 0.2721
current ET dice: 0.2545
Best Mean Metric: 0.2565
time consuming of epoch 44 is: 1442.5797
-----
```

```
epoch 45/100
```

```
TRAIN
```

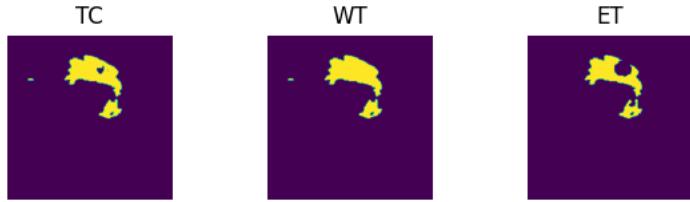
```
Batch 1/248, train_loss: 0.1583, step time: 0.3441
Batch 2/248, train_loss: 0.9995, step time: 0.3804
Batch 3/248, train_loss: 0.9655, step time: 0.3485
Batch 4/248, train_loss: 0.9997, step time: 0.3512
Batch 5/248, train_loss: 0.8492, step time: 0.3793
Batch 6/248, train_loss: 0.8198, step time: 0.3727
Batch 7/248, train_loss: 0.1244, step time: 0.3427
Batch 8/248, train_loss: 0.7483, step time: 0.3671
Batch 9/248, train_loss: 0.1195, step time: 0.3440
Batch 10/248, train_loss: 0.9282, step time: 0.3772
Batch 11/248, train_loss: 0.8304, step time: 0.3693
Batch 12/248, train_loss: 0.9923, step time: 0.3514
Batch 13/248, train_loss: 0.9692, step time: 0.3902
Batch 14/248, train_loss: 0.0910, step time: 0.3534
Batch 15/248, train_loss: 0.9251, step time: 0.3693
Batch 16/248, train_loss: 0.7874, step time: 0.3456
Batch 17/248, train_loss: 0.9911, step time: 0.3782
Batch 18/248, train_loss: 0.9782, step time: 0.3626
Batch 19/248, train_loss: 0.2139, step time: 0.3458
Batch 20/248, train_loss: 0.7704, step time: 0.3733
Batch 21/248, train_loss: 0.3920, step time: 0.3810
Batch 22/248, train_loss: 0.9999, step time: 0.3579
Batch 23/248, train_loss: 0.9994, step time: 0.3602
Batch 24/248, train_loss: 0.4753, step time: 0.3467
Batch 25/248, train_loss: 0.1355, step time: 0.3862
Batch 26/248, train_loss: 0.9860, step time: 0.3489
Batch 27/248, train_loss: 0.1406, step time: 0.3694
Batch 28/248, train_loss: 0.7656, step time: 0.3848
Batch 29/248, train_loss: 0.9912, step time: 0.3478
Batch 30/248, train_loss: 0.9618, step time: 0.3437
Batch 31/248, train_loss: 0.9145, step time: 0.3710
Batch 32/248, train_loss: 0.4074, step time: 0.3767
Batch 33/248, train_loss: 0.1384, step time: 0.3801
Batch 34/248, train_loss: 0.1692, step time: 0.3666
Batch 35/248, train_loss: 0.4606, step time: 0.3769
Batch 36/248, train_loss: 0.9997, step time: 0.3673
Batch 37/248, train_loss: 0.6018, step time: 0.3800
Batch 38/248, train_loss: 0.8951, step time: 0.3675
Batch 39/248, train_loss: 0.6265, step time: 0.3442
Batch 40/248, train_loss: 0.9988, step time: 0.3431
Batch 41/248, train_loss: 0.4022, step time: 0.3736
Batch 42/248, train_loss: 0.3050, step time: 0.3786
Batch 43/248, train_loss: 0.1340, step time: 0.3607
Batch 44/248, train_loss: 0.6755, step time: 0.3709
Batch 45/248, train_loss: 0.8987, step time: 0.3689
Batch 46/248, train_loss: 0.6359, step time: 0.3810
Batch 47/248, train_loss: 0.7621, step time: 0.3472
Batch 48/248, train_loss: 0.6848, step time: 0.3589
Batch 49/248, train_loss: 0.9820, step time: 0.3438
Batch 50/248, train_loss: 0.7994, step time: 0.3457
Batch 51/248, train_loss: 0.7584, step time: 0.3524
Batch 52/248, train_loss: 0.6511, step time: 0.3695
Batch 53/248, train_loss: 0.9105, step time: 0.3812
Batch 54/248, train_loss: 0.7638, step time: 0.3433
Batch 55/248, train_loss: 0.9226, step time: 0.3429
Batch 56/248, train_loss: 0.7810, step time: 0.3434
Batch 57/248, train_loss: 0.8078, step time: 0.3465
Batch 58/248, train_loss: 0.3534, step time: 0.3543
Batch 59/248, train_loss: 0.4743, step time: 0.3785
Batch 60/248, train_loss: 0.3086, step time: 0.3579
Batch 61/248, train_loss: 0.4834, step time: 0.3750
Batch 62/248, train_loss: 0.9399, step time: 0.3416
Batch 63/248, train_loss: 0.9910, step time: 0.3609
Batch 64/248, train_loss: 0.9867, step time: 0.3831
Batch 65/248, train_loss: 0.8139, step time: 0.3768
```

Batch 66/248, train_loss: 0.8315, step time: 0.3/84
Batch 67/248, train_loss: 0.1652, step time: 0.3448
Batch 68/248, train_loss: 0.3366, step time: 0.3426
Batch 69/248, train_loss: 0.9962, step time: 0.3815
Batch 70/248, train_loss: 0.3954, step time: 0.3661
Batch 71/248, train_loss: 0.3208, step time: 0.3577
Batch 72/248, train_loss: 0.2516, step time: 0.3615
Batch 73/248, train_loss: 0.3655, step time: 0.3837
Batch 74/248, train_loss: 0.9997, step time: 0.3431
Batch 75/248, train_loss: 0.3654, step time: 0.3672
Batch 76/248, train_loss: 0.9922, step time: 0.3850
Batch 77/248, train_loss: 0.9990, step time: 0.3697
Batch 78/248, train_loss: 0.5970, step time: 0.3657
Batch 79/248, train_loss: 0.7577, step time: 0.3452
Batch 80/248, train_loss: 0.8666, step time: 0.3541
Batch 81/248, train_loss: 0.9104, step time: 0.3607
Batch 82/248, train_loss: 0.3286, step time: 0.3736
Batch 83/248, train_loss: 0.9902, step time: 0.3594
Batch 84/248, train_loss: 0.7848, step time: 0.3613
Batch 85/248, train_loss: 0.9930, step time: 0.3711
Batch 86/248, train_loss: 0.5666, step time: 0.3418
Batch 87/248, train_loss: 0.9976, step time: 0.3603
Batch 88/248, train_loss: 0.9746, step time: 0.3594
Batch 89/248, train_loss: 0.1359, step time: 0.3516
Batch 90/248, train_loss: 0.8210, step time: 0.3423
Batch 91/248, train_loss: 0.9915, step time: 0.3477
Batch 92/248, train_loss: 0.7363, step time: 0.3559
Batch 93/248, train_loss: 0.3393, step time: 0.3433
Batch 94/248, train_loss: 0.9873, step time: 0.3456
Batch 95/248, train_loss: 0.5844, step time: 0.3520
Batch 96/248, train_loss: 0.5401, step time: 0.3791
Batch 97/248, train_loss: 0.9998, step time: 0.3612
Batch 98/248, train_loss: 0.2863, step time: 0.3754
Batch 99/248, train_loss: 0.9747, step time: 0.3579
Batch 100/248, train_loss: 0.9958, step time: 0.3738
Batch 101/248, train_loss: 0.0954, step time: 0.3733
Batch 102/248, train_loss: 0.6637, step time: 0.3554
Batch 103/248, train_loss: 0.9835, step time: 0.3825
Batch 104/248, train_loss: 0.6065, step time: 0.3781
Batch 105/248, train_loss: 0.2229, step time: 0.3670
Batch 106/248, train_loss: 0.8197, step time: 0.3793
Batch 107/248, train_loss: 0.9632, step time: 0.3707
Batch 108/248, train_loss: 0.9795, step time: 0.3478
Batch 109/248, train_loss: 0.9991, step time: 0.3835
Batch 110/248, train_loss: 0.8808, step time: 0.3568
Batch 111/248, train_loss: 0.2455, step time: 0.3772
Batch 112/248, train_loss: 0.3147, step time: 0.3789
Batch 113/248, train_loss: 0.9998, step time: 0.3604
Batch 114/248, train_loss: 0.2268, step time: 0.3693
Batch 115/248, train_loss: 0.6563, step time: 0.3507
Batch 116/248, train_loss: 0.1930, step time: 0.3782
Batch 117/248, train_loss: 0.9922, step time: 0.3844
Batch 118/248, train_loss: 0.9771, step time: 0.3670
Batch 119/248, train_loss: 0.7317, step time: 0.3618
Batch 120/248, train_loss: 0.7476, step time: 0.3686
Batch 121/248, train_loss: 0.9266, step time: 0.3821
Batch 122/248, train_loss: 0.9570, step time: 0.3789
Batch 123/248, train_loss: 0.3784, step time: 0.3577
Batch 124/248, train_loss: 0.9589, step time: 0.3511
Batch 125/248, train_loss: 0.9937, step time: 0.3839
Batch 126/248, train_loss: 0.4945, step time: 0.3648
Batch 127/248, train_loss: 0.7170, step time: 0.3488
Batch 128/248, train_loss: 0.8772, step time: 0.3573
Batch 129/248, train_loss: 0.1962, step time: 0.3808
Batch 130/248, train_loss: 0.2211, step time: 0.3500
Batch 131/248, train_loss: 0.9558, step time: 0.3790
Batch 132/248, train_loss: 0.9627, step time: 0.3824
Batch 133/248, train_loss: 0.1781, step time: 0.3652
Batch 134/248, train_loss: 0.9999, step time: 0.3490
Batch 135/248, train_loss: 0.9763, step time: 0.3840
Batch 136/248, train_loss: 0.8322, step time: 0.3549
Batch 137/248, train_loss: 0.1971, step time: 0.3569
Batch 138/248, train_loss: 0.2151, step time: 0.3690
Batch 139/248, train_loss: 0.3178, step time: 0.3751
Batch 140/248, train_loss: 0.8165, step time: 0.3742
Batch 141/248, train_loss: 0.4147, step time: 0.3492
Batch 142/248, train_loss: 0.9913, step time: 0.3507
Batch 143/248, train_loss: 0.8381, step time: 0.3439
Batch 144/248, train_loss: 0.2579, step time: 0.3604
Batch 145/248, train_loss: 0.1287, step time: 0.3841
Batch 146/248, train_loss: 0.9967, step time: 0.3822
Batch 147/248, train_loss: 0.1046, step time: 0.3664
Batch 148/248, train_loss: 0.9773, step time: 0.3676
Batch 149/248, train_loss: 0.6367, step time: 0.3723
Batch 150/248, train_loss: 0.5446, step time: 0.3572

Batch 151/248, train_loss: 0.9612, step time: 0.3658
Batch 152/248, train_loss: 0.0949, step time: 0.3433
Batch 153/248, train_loss: 0.9418, step time: 0.3767
Batch 154/248, train_loss: 0.9865, step time: 0.3597
Batch 155/248, train_loss: 0.6743, step time: 0.3619
Batch 156/248, train_loss: 0.7044, step time: 0.3502
Batch 157/248, train_loss: 0.4207, step time: 0.3781
Batch 158/248, train_loss: 0.9988, step time: 0.3879
Batch 159/248, train_loss: 0.9958, step time: 0.3454
Batch 160/248, train_loss: 0.3940, step time: 0.3712
Batch 161/248, train_loss: 0.6574, step time: 0.3678
Batch 162/248, train_loss: 0.1253, step time: 0.3884
Batch 163/248, train_loss: 0.9683, step time: 0.3435
Batch 164/248, train_loss: 0.7105, step time: 0.3430
Batch 165/248, train_loss: 0.9991, step time: 0.3885
Batch 166/248, train_loss: 0.9240, step time: 0.3763
Batch 167/248, train_loss: 0.7406, step time: 0.3517
Batch 168/248, train_loss: 0.6975, step time: 0.3428
Batch 169/248, train_loss: 0.4260, step time: 0.3819
Batch 170/248, train_loss: 0.9892, step time: 0.3446
Batch 171/248, train_loss: 0.1401, step time: 0.3606
Batch 172/248, train_loss: 0.9992, step time: 0.3424
Batch 173/248, train_loss: 0.1924, step time: 0.3864
Batch 174/248, train_loss: 0.9999, step time: 0.3514
Batch 175/248, train_loss: 0.2075, step time: 0.3828
Batch 176/248, train_loss: 0.8252, step time: 0.3545
Batch 177/248, train_loss: 0.9994, step time: 0.3446
Batch 178/248, train_loss: 0.4460, step time: 0.3752
Batch 179/248, train_loss: 0.1427, step time: 0.3840
Batch 180/248, train_loss: 0.6821, step time: 0.3634
Batch 181/248, train_loss: 0.1896, step time: 0.3750
Batch 182/248, train_loss: 0.9538, step time: 0.3676
Batch 183/248, train_loss: 0.6814, step time: 0.3839
Batch 184/248, train_loss: 0.9417, step time: 0.3597
Batch 185/248, train_loss: 0.6843, step time: 0.3689
Batch 186/248, train_loss: 0.4192, step time: 0.3448
Batch 187/248, train_loss: 0.4389, step time: 0.3514
Batch 188/248, train_loss: 0.7148, step time: 0.3562
Batch 189/248, train_loss: 0.9995, step time: 0.3426
Batch 190/248, train_loss: 0.4975, step time: 0.3555
Batch 191/248, train_loss: 0.9967, step time: 0.3857
Batch 192/248, train_loss: 0.5045, step time: 0.3765
Batch 193/248, train_loss: 0.8419, step time: 0.3657
Batch 194/248, train_loss: 0.7898, step time: 0.3453
Batch 195/248, train_loss: 0.9996, step time: 0.3713
Batch 196/248, train_loss: 0.9999, step time: 0.3803
Batch 197/248, train_loss: 0.8888, step time: 0.3603
Batch 198/248, train_loss: 1.0000, step time: 0.3548
Batch 199/248, train_loss: 0.7412, step time: 0.3722
Batch 200/248, train_loss: 0.6561, step time: 0.3788
Batch 201/248, train_loss: 0.4075, step time: 0.3810
Batch 202/248, train_loss: 0.8414, step time: 0.3458
Batch 203/248, train_loss: 0.9931, step time: 0.3795
Batch 204/248, train_loss: 0.1759, step time: 0.3631
Batch 205/248, train_loss: 0.9361, step time: 0.3709
Batch 206/248, train_loss: 0.9966, step time: 0.3726
Batch 207/248, train_loss: 0.2831, step time: 0.3769
Batch 208/248, train_loss: 0.6592, step time: 0.3603
Batch 209/248, train_loss: 0.5535, step time: 0.3711
Batch 210/248, train_loss: 0.2672, step time: 0.3820
Batch 211/248, train_loss: 0.2835, step time: 0.3769
Batch 212/248, train_loss: 0.8545, step time: 0.3863
Batch 213/248, train_loss: 0.8297, step time: 0.3660
Batch 214/248, train_loss: 0.4835, step time: 0.3545
Batch 215/248, train_loss: 0.8904, step time: 0.3712
Batch 216/248, train_loss: 0.3995, step time: 0.3805
Batch 217/248, train_loss: 0.9466, step time: 0.3874
Batch 218/248, train_loss: 0.9966, step time: 0.3752
Batch 219/248, train_loss: 0.4779, step time: 0.3627
Batch 220/248, train_loss: 0.8840, step time: 0.3593
Batch 221/248, train_loss: 0.8792, step time: 0.3448
Batch 222/248, train_loss: 0.3859, step time: 0.3531
Batch 223/248, train_loss: 0.1210, step time: 0.3524
Batch 224/248, train_loss: 0.2482, step time: 0.3597
Batch 225/248, train_loss: 0.9906, step time: 0.3454
Batch 226/248, train_loss: 0.9441, step time: 0.3615
Batch 227/248, train_loss: 0.4793, step time: 0.3693
Batch 228/248, train_loss: 0.8649, step time: 0.3791
Batch 229/248, train_loss: 0.1844, step time: 0.3630
Batch 230/248, train_loss: 0.4839, step time: 0.3568
Batch 231/248, train_loss: 0.9989, step time: 0.3418
Batch 232/248, train_loss: 0.4657, step time: 0.3768
Batch 233/248, train_loss: 0.9999, step time: 0.3768
Batch 234/248, train_loss: 0.9942, step time: 0.3711
Batch 235/248, train_loss: 0.9848, step time: 0.3784

```
Batch 236/248, train_loss: 0.9990, step time: 0.3708
Batch 237/248, train_loss: 0.2573, step time: 0.3754
Batch 238/248, train_loss: 0.3901, step time: 0.3569
Batch 239/248, train_loss: 0.1384, step time: 0.3404
Batch 240/248, train_loss: 0.8116, step time: 0.3854
Batch 241/248, train_loss: 0.9993, step time: 0.3805
Batch 242/248, train_loss: 0.9225, step time: 0.3481
Batch 243/248, train_loss: 0.9999, step time: 0.3480
Batch 244/248, train_loss: 0.9808, step time: 0.3774
Batch 245/248, train_loss: 0.3337, step time: 0.3428
Batch 246/248, train_loss: 0.9902, step time: 0.3462
Batch 247/248, train_loss: 0.1413, step time: 0.3764
Batch 248/248, train_loss: 1.0000, step time: 0.3873
```

Labels



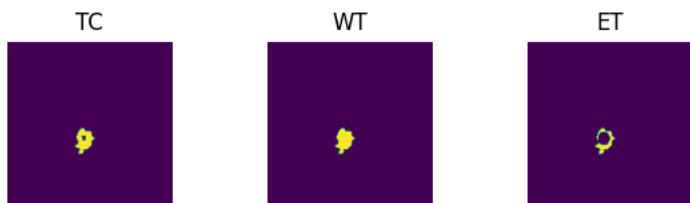
Predictions



VAL

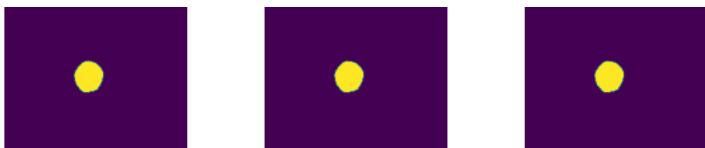
```
Batch 1/31, val_loss: 0.8900
Batch 2/31, val_loss: 0.9995
Batch 3/31, val_loss: 0.9868
Batch 4/31, val_loss: 0.9947
Batch 5/31, val_loss: 0.9999
Batch 6/31, val_loss: 0.7313
Batch 7/31, val_loss: 0.8873
Batch 8/31, val_loss: 0.9897
Batch 9/31, val_loss: 0.7243
Batch 10/31, val_loss: 0.9857
Batch 11/31, val_loss: 0.8933
Batch 12/31, val_loss: 0.9795
Batch 13/31, val_loss: 0.9952
Batch 14/31, val_loss: 0.9759
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9942
Batch 17/31, val_loss: 0.9994
Batch 18/31, val_loss: 0.9871
Batch 19/31, val_loss: 0.7991
Batch 20/31, val_loss: 0.9096
Batch 21/31, val_loss: 0.9467
Batch 22/31, val_loss: 0.9991
Batch 23/31, val_loss: 0.9971
Batch 24/31, val_loss: 0.7599
Batch 25/31, val_loss: 0.8409
Batch 26/31, val_loss: 0.9713
Batch 27/31, val_loss: 0.9990
Batch 28/31, val_loss: 0.8310
Batch 29/31, val_loss: 0.9992
Batch 30/31, val_loss: 0.9962
Batch 31/31, val_loss: 0.9959
```

Labels



Predictions





```
epoch 45
average train loss: 0.6783
average validation loss: 0.9374
saved as best model: False
current mean dice: 0.2505
current TC dice: 0.2612
current WT dice: 0.2657
current ET dice: 0.2487
Best Mean Metric: 0.2565
time consuming of epoch 45 is: 1447.5585
-----
```

```
epoch 46/100
TRAIN
Batch 1/248, train_loss: 0.1645, step time: 0.3444
Batch 2/248, train_loss: 0.9994, step time: 0.3800
Batch 3/248, train_loss: 0.9628, step time: 0.3747
Batch 4/248, train_loss: 0.9991, step time: 0.3709
Batch 5/248, train_loss: 0.8508, step time: 0.3462
Batch 6/248, train_loss: 0.8175, step time: 0.3524
Batch 7/248, train_loss: 0.1256, step time: 0.3415
Batch 8/248, train_loss: 0.7637, step time: 0.3867
Batch 9/248, train_loss: 0.1174, step time: 0.3819
Batch 10/248, train_loss: 0.9256, step time: 0.3838
Batch 11/248, train_loss: 0.8186, step time: 0.3861
Batch 12/248, train_loss: 0.9917, step time: 0.3429
Batch 13/248, train_loss: 0.9686, step time: 0.3458
Batch 14/248, train_loss: 0.0954, step time: 0.3449
Batch 15/248, train_loss: 0.9213, step time: 0.3722
Batch 16/248, train_loss: 0.7818, step time: 0.3834
Batch 17/248, train_loss: 0.9932, step time: 0.3559
Batch 18/248, train_loss: 0.9793, step time: 0.3671
Batch 19/248, train_loss: 0.2246, step time: 0.3514
Batch 20/248, train_loss: 0.7579, step time: 0.3467
Batch 21/248, train_loss: 0.3849, step time: 0.3872
Batch 22/248, train_loss: 0.9998, step time: 0.3531
Batch 23/248, train_loss: 0.9999, step time: 0.3676
Batch 24/248, train_loss: 0.4656, step time: 0.3613
Batch 25/248, train_loss: 0.1221, step time: 0.3619
Batch 26/248, train_loss: 0.9813, step time: 0.3725
Batch 27/248, train_loss: 0.1337, step time: 0.3466
Batch 28/248, train_loss: 0.7566, step time: 0.3485
Batch 29/248, train_loss: 0.9902, step time: 0.3837
Batch 30/248, train_loss: 0.7986, step time: 0.3722
Batch 31/248, train_loss: 0.9212, step time: 0.3820
Batch 32/248, train_loss: 0.4030, step time: 0.3450
Batch 33/248, train_loss: 0.1440, step time: 0.3559
Batch 34/248, train_loss: 0.1586, step time: 0.3563
Batch 35/248, train_loss: 0.4441, step time: 0.3531
Batch 36/248, train_loss: 0.9996, step time: 0.3796
Batch 37/248, train_loss: 0.5726, step time: 0.3531
Batch 38/248, train_loss: 0.9018, step time: 0.3768
Batch 39/248, train_loss: 0.6197, step time: 0.3476
Batch 40/248, train_loss: 0.9987, step time: 0.3480
Batch 41/248, train_loss: 0.3892, step time: 0.3492
Batch 42/248, train_loss: 0.2888, step time: 0.3802
Batch 43/248, train_loss: 0.1322, step time: 0.3523
Batch 44/248, train_loss: 0.6906, step time: 0.3492
Batch 45/248, train_loss: 0.8972, step time: 0.3776
Batch 46/248, train_loss: 0.6303, step time: 0.3764
Batch 47/248, train_loss: 0.7614, step time: 0.3420
Batch 48/248, train_loss: 0.6938, step time: 0.3679
Batch 49/248, train_loss: 0.9735, step time: 0.3547
Batch 50/248, train_loss: 0.7957, step time: 0.3441
Batch 51/248, train_loss: 0.7444, step time: 0.3469
Batch 52/248, train_loss: 0.6377, step time: 0.3792
Batch 53/248, train_loss: 0.9109, step time: 0.3438
Batch 54/248, train_loss: 0.7543, step time: 0.3462
Batch 55/248, train_loss: 0.9221, step time: 0.3506
Batch 56/248, train_loss: 0.7984, step time: 0.3641
Batch 57/248, train_loss: 0.8055, step time: 0.3663
Batch 58/248, train_loss: 0.3533, step time: 0.3865
Batch 59/248, train_loss: 0.4548, step time: 0.3543
Batch 60/248, train_loss: 0.2978, step time: 0.3497
Batch 61/248, train_loss: 0.4709, step time: 0.3463
Batch 62/248, train_loss: 0.9341, step time: 0.3666
Batch 63/248, train_loss: 0.9834, step time: 0.3868
Batch 64/248, train_loss: 0.9820, step time: 0.3754
Batch 65/248, train_loss: 0.7934, step time: 0.3713
```

Batch 66/248, train_loss: 0.7919, step time: 0.3438
Batch 67/248, train_loss: 0.1556, step time: 0.3477
Batch 68/248, train_loss: 0.2853, step time: 0.3445
Batch 69/248, train_loss: 0.9996, step time: 0.3604
Batch 70/248, train_loss: 0.3584, step time: 0.3748
Batch 71/248, train_loss: 0.2884, step time: 0.3525
Batch 72/248, train_loss: 0.2294, step time: 0.3617
Batch 73/248, train_loss: 0.3679, step time: 0.3414
Batch 74/248, train_loss: 0.9995, step time: 0.3663
Batch 75/248, train_loss: 0.3608, step time: 0.3456
Batch 76/248, train_loss: 0.9904, step time: 0.3775
Batch 77/248, train_loss: 0.9995, step time: 0.3875
Batch 78/248, train_loss: 0.5875, step time: 0.3697
Batch 79/248, train_loss: 0.7456, step time: 0.3517
Batch 80/248, train_loss: 0.8416, step time: 0.3638
Batch 81/248, train_loss: 0.8991, step time: 0.3429
Batch 82/248, train_loss: 0.3176, step time: 0.3481
Batch 83/248, train_loss: 0.9875, step time: 0.3470
Batch 84/248, train_loss: 0.7742, step time: 0.3774
Batch 85/248, train_loss: 0.9894, step time: 0.3489
Batch 86/248, train_loss: 0.5242, step time: 0.3832
Batch 87/248, train_loss: 0.9897, step time: 0.3427
Batch 88/248, train_loss: 0.9745, step time: 0.3877
Batch 89/248, train_loss: 0.1409, step time: 0.3735
Batch 90/248, train_loss: 0.7870, step time: 0.3646
Batch 91/248, train_loss: 0.9871, step time: 0.3538
Batch 92/248, train_loss: 0.8057, step time: 0.3774
Batch 93/248, train_loss: 0.3275, step time: 0.3719
Batch 94/248, train_loss: 0.9870, step time: 0.3778
Batch 95/248, train_loss: 0.5733, step time: 0.3806
Batch 96/248, train_loss: 0.5334, step time: 0.3801
Batch 97/248, train_loss: 0.9999, step time: 0.3961
Batch 98/248, train_loss: 0.2872, step time: 0.3509
Batch 99/248, train_loss: 0.9640, step time: 0.3450
Batch 100/248, train_loss: 0.9950, step time: 0.3861
Batch 101/248, train_loss: 0.0940, step time: 0.3865
Batch 102/248, train_loss: 0.6700, step time: 0.3444
Batch 103/248, train_loss: 0.9840, step time: 0.3490
Batch 104/248, train_loss: 0.5967, step time: 0.3861
Batch 105/248, train_loss: 0.2106, step time: 0.3563
Batch 106/248, train_loss: 0.8091, step time: 0.3476
Batch 107/248, train_loss: 0.9608, step time: 0.3725
Batch 108/248, train_loss: 0.9763, step time: 0.3435
Batch 109/248, train_loss: 0.9984, step time: 0.3575
Batch 110/248, train_loss: 0.8690, step time: 0.3451
Batch 111/248, train_loss: 0.2345, step time: 0.3828
Batch 112/248, train_loss: 0.2619, step time: 0.3518
Batch 113/248, train_loss: 0.9999, step time: 0.3613
Batch 114/248, train_loss: 0.2303, step time: 0.3616
Batch 115/248, train_loss: 0.6489, step time: 0.3481
Batch 116/248, train_loss: 0.2097, step time: 0.3739
Batch 117/248, train_loss: 0.9948, step time: 0.3520
Batch 118/248, train_loss: 0.9753, step time: 0.3490
Batch 119/248, train_loss: 0.7580, step time: 0.3748
Batch 120/248, train_loss: 0.7343, step time: 0.3821
Batch 121/248, train_loss: 0.9297, step time: 0.3457
Batch 122/248, train_loss: 0.9501, step time: 0.3832
Batch 123/248, train_loss: 0.3698, step time: 0.3488
Batch 124/248, train_loss: 0.9592, step time: 0.3805
Batch 125/248, train_loss: 0.9943, step time: 0.3451
Batch 126/248, train_loss: 0.5190, step time: 0.3422
Batch 127/248, train_loss: 0.7034, step time: 0.3588
Batch 128/248, train_loss: 0.8729, step time: 0.3708
Batch 129/248, train_loss: 0.1754, step time: 0.3470
Batch 130/248, train_loss: 0.2087, step time: 0.3419
Batch 131/248, train_loss: 0.9526, step time: 0.3876
Batch 132/248, train_loss: 0.9578, step time: 0.3581
Batch 133/248, train_loss: 0.1777, step time: 0.3508
Batch 134/248, train_loss: 0.9999, step time: 0.3490
Batch 135/248, train_loss: 0.9762, step time: 0.3863
Batch 136/248, train_loss: 0.8363, step time: 0.3606
Batch 137/248, train_loss: 0.1952, step time: 0.3801
Batch 138/248, train_loss: 0.1955, step time: 0.3451
Batch 139/248, train_loss: 0.3105, step time: 0.3556
Batch 140/248, train_loss: 0.8159, step time: 0.3695
Batch 141/248, train_loss: 0.3941, step time: 0.3833
Batch 142/248, train_loss: 0.9965, step time: 0.3674
Batch 143/248, train_loss: 0.8337, step time: 0.3627
Batch 144/248, train_loss: 0.2679, step time: 0.3845
Batch 145/248, train_loss: 0.1217, step time: 0.3403
Batch 146/248, train_loss: 0.9950, step time: 0.3620
Batch 147/248, train_loss: 0.0893, step time: 0.3592
Batch 148/248, train_loss: 0.9694, step time: 0.3755
Batch 149/248, train_loss: 0.6220, step time: 0.3542
Batch 150/248, train_loss: 0.5901, step time: 0.3497

Batch 151/248, train_loss: 0.9610, step time: 0.3727
Batch 152/248, train_loss: 0.0849, step time: 0.3550
Batch 153/248, train_loss: 0.9402, step time: 0.3797
Batch 154/248, train_loss: 0.9860, step time: 0.3621
Batch 155/248, train_loss: 0.6603, step time: 0.3407
Batch 156/248, train_loss: 0.6773, step time: 0.3610
Batch 157/248, train_loss: 0.4149, step time: 0.3473
Batch 158/248, train_loss: 0.9995, step time: 0.3450
Batch 159/248, train_loss: 0.9962, step time: 0.3468
Batch 160/248, train_loss: 0.4088, step time: 0.3703
Batch 161/248, train_loss: 0.6428, step time: 0.3855
Batch 162/248, train_loss: 0.1260, step time: 0.3705
Batch 163/248, train_loss: 0.9679, step time: 0.3547
Batch 164/248, train_loss: 0.7064, step time: 0.3727
Batch 165/248, train_loss: 0.9991, step time: 0.3480
Batch 166/248, train_loss: 0.9242, step time: 0.3895
Batch 167/248, train_loss: 0.7310, step time: 0.3833
Batch 168/248, train_loss: 0.6925, step time: 0.3415
Batch 169/248, train_loss: 0.4050, step time: 0.3554
Batch 170/248, train_loss: 0.9913, step time: 0.3718
Batch 171/248, train_loss: 0.1236, step time: 0.3466
Batch 172/248, train_loss: 0.9991, step time: 0.3707
Batch 173/248, train_loss: 0.1968, step time: 0.3486
Batch 174/248, train_loss: 0.9892, step time: 0.3636
Batch 175/248, train_loss: 0.2383, step time: 0.3850
Batch 176/248, train_loss: 0.8231, step time: 0.3620
Batch 177/248, train_loss: 0.9936, step time: 0.3735
Batch 178/248, train_loss: 0.4259, step time: 0.3686
Batch 179/248, train_loss: 0.1331, step time: 0.3590
Batch 180/248, train_loss: 0.6733, step time: 0.3652
Batch 181/248, train_loss: 0.1763, step time: 0.3720
Batch 182/248, train_loss: 0.9540, step time: 0.3837
Batch 183/248, train_loss: 0.6970, step time: 0.3556
Batch 184/248, train_loss: 0.9333, step time: 0.3433
Batch 185/248, train_loss: 0.6726, step time: 0.3841
Batch 186/248, train_loss: 0.4179, step time: 0.3488
Batch 187/248, train_loss: 0.4389, step time: 0.3476
Batch 188/248, train_loss: 0.7081, step time: 0.3672
Batch 189/248, train_loss: 0.9988, step time: 0.3729
Batch 190/248, train_loss: 0.4896, step time: 0.3625
Batch 191/248, train_loss: 0.9976, step time: 0.3705
Batch 192/248, train_loss: 0.5153, step time: 0.3754
Batch 193/248, train_loss: 0.8331, step time: 0.3694
Batch 194/248, train_loss: 0.7856, step time: 0.3826
Batch 195/248, train_loss: 0.9997, step time: 0.3589
Batch 196/248, train_loss: 1.0000, step time: 0.3841
Batch 197/248, train_loss: 0.8919, step time: 0.3433
Batch 198/248, train_loss: 1.0000, step time: 0.3749
Batch 199/248, train_loss: 0.7324, step time: 0.3863
Batch 200/248, train_loss: 0.6458, step time: 0.3828
Batch 201/248, train_loss: 0.3954, step time: 0.3864
Batch 202/248, train_loss: 0.8342, step time: 0.3425
Batch 203/248, train_loss: 0.9919, step time: 0.3861
Batch 204/248, train_loss: 0.1830, step time: 0.3465
Batch 205/248, train_loss: 0.9384, step time: 0.3781
Batch 206/248, train_loss: 0.9957, step time: 0.3522
Batch 207/248, train_loss: 0.2664, step time: 0.3746
Batch 208/248, train_loss: 0.6582, step time: 0.3777
Batch 209/248, train_loss: 0.5480, step time: 0.3671
Batch 210/248, train_loss: 0.2580, step time: 0.3429
Batch 211/248, train_loss: 0.2866, step time: 0.3747
Batch 212/248, train_loss: 0.8395, step time: 0.3577
Batch 213/248, train_loss: 0.8185, step time: 0.3712
Batch 214/248, train_loss: 0.4699, step time: 0.3494
Batch 215/248, train_loss: 0.8854, step time: 0.3459
Batch 216/248, train_loss: 0.3718, step time: 0.3513
Batch 217/248, train_loss: 0.9446, step time: 0.3512
Batch 218/248, train_loss: 0.9954, step time: 0.3797
Batch 219/248, train_loss: 0.4576, step time: 0.3453
Batch 220/248, train_loss: 0.8805, step time: 0.3769
Batch 221/248, train_loss: 0.8733, step time: 0.3479
Batch 222/248, train_loss: 0.3929, step time: 0.3574
Batch 223/248, train_loss: 0.1282, step time: 0.3841
Batch 224/248, train_loss: 0.2455, step time: 0.3731
Batch 225/248, train_loss: 0.9893, step time: 0.3579
Batch 226/248, train_loss: 0.9407, step time: 0.3595
Batch 227/248, train_loss: 0.4721, step time: 0.3740
Batch 228/248, train_loss: 0.8731, step time: 0.3714
Batch 229/248, train_loss: 0.1877, step time: 0.3626
Batch 230/248, train_loss: 0.4701, step time: 0.3554
Batch 231/248, train_loss: 0.9969, step time: 0.3811
Batch 232/248, train_loss: 0.4559, step time: 0.3467
Batch 233/248, train_loss: 0.9999, step time: 0.3547
Batch 234/248, train_loss: 0.9893, step time: 0.3439
Batch 235/248, train_loss: 0.9879, step time: 0.3424

```
Batch 229/248, train_loss: 0.9070, step time: 0.3454
Batch 236/248, train_loss: 0.9992, step time: 0.3575
Batch 237/248, train_loss: 0.2685, step time: 0.3554
Batch 238/248, train_loss: 0.3709, step time: 0.3651
Batch 239/248, train_loss: 0.1545, step time: 0.3698
Batch 240/248, train_loss: 0.8056, step time: 0.3697
Batch 241/248, train_loss: 0.9999, step time: 0.3403
Batch 242/248, train_loss: 0.9213, step time: 0.3803
Batch 243/248, train_loss: 0.9998, step time: 0.3837
Batch 244/248, train_loss: 0.9798, step time: 0.3566
Batch 245/248, train_loss: 0.3343, step time: 0.3716
Batch 246/248, train_loss: 0.9923, step time: 0.3398
Batch 247/248, train_loss: 0.1404, step time: 0.3720
Batch 248/248, train_loss: 1.0000, step time: 0.3580
```

Labels

TC



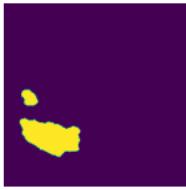
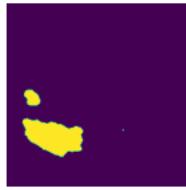
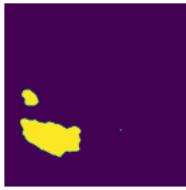
WT



ET



Predictions

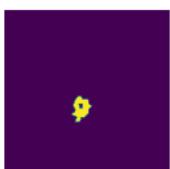


VAL

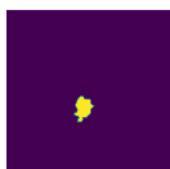
```
Batch 1/31, val_loss: 0.8894
Batch 2/31, val_loss: 0.9995
Batch 3/31, val_loss: 0.9885
Batch 4/31, val_loss: 0.9948
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.7350
Batch 7/31, val_loss: 0.8796
Batch 8/31, val_loss: 0.9885
Batch 9/31, val_loss: 0.7280
Batch 10/31, val_loss: 0.9849
Batch 11/31, val_loss: 0.8878
Batch 12/31, val_loss: 0.9800
Batch 13/31, val_loss: 0.9950
Batch 14/31, val_loss: 0.9744
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9925
Batch 17/31, val_loss: 0.9996
Batch 18/31, val_loss: 0.9877
Batch 19/31, val_loss: 0.7988
Batch 20/31, val_loss: 0.9043
Batch 21/31, val_loss: 0.9462
Batch 22/31, val_loss: 0.9982
Batch 23/31, val_loss: 0.9954
Batch 24/31, val_loss: 0.7586
Batch 25/31, val_loss: 0.8387
Batch 26/31, val_loss: 0.9700
Batch 27/31, val_loss: 0.9989
Batch 28/31, val_loss: 0.8273
Batch 29/31, val_loss: 0.9995
Batch 30/31, val_loss: 0.9957
Batch 31/31, val_loss: 0.9958
```

Labels

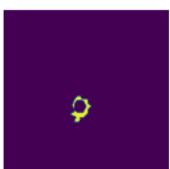
TC



WT

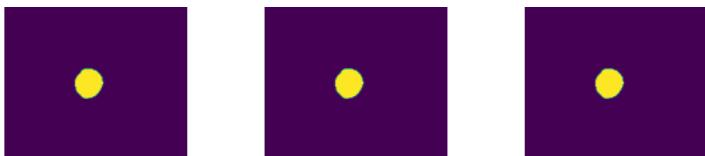


ET



Predictions





```
epoch 46
average train loss: 0.6733
average validation loss: 0.9365
saved as best model: True
current mean dice: 0.2584
current TC dice: 0.2695
current WT dice: 0.2743
current ET dice: 0.2561
Best Mean Metric: 0.2584
time consuming of epoch 46 is: 1450.1918
```

```
epoch 47/100
```

```
TRAIN
```

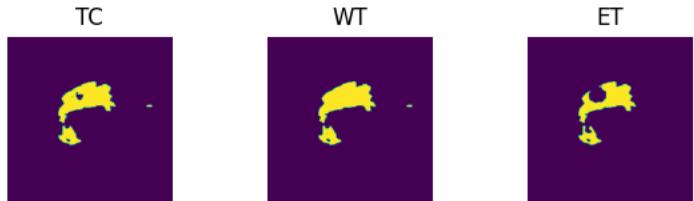
```
Batch 1/248, train_loss: 0.1550, step time: 0.3706
Batch 2/248, train_loss: 0.9996, step time: 0.3528
Batch 3/248, train_loss: 0.9616, step time: 0.3579
Batch 4/248, train_loss: 0.9991, step time: 0.3475
Batch 5/248, train_loss: 0.8373, step time: 0.3448
Batch 6/248, train_loss: 0.8453, step time: 0.3468
Batch 7/248, train_loss: 0.1213, step time: 0.3500
Batch 8/248, train_loss: 0.7541, step time: 0.3611
Batch 9/248, train_loss: 0.1147, step time: 0.3731
Batch 10/248, train_loss: 0.9281, step time: 0.3850
Batch 11/248, train_loss: 0.8183, step time: 0.3819
Batch 12/248, train_loss: 0.9915, step time: 0.3847
Batch 13/248, train_loss: 0.9705, step time: 0.3436
Batch 14/248, train_loss: 0.0877, step time: 0.3573
Batch 15/248, train_loss: 0.9228, step time: 0.3806
Batch 16/248, train_loss: 0.7777, step time: 0.3496
Batch 17/248, train_loss: 0.9898, step time: 0.3708
Batch 18/248, train_loss: 0.9769, step time: 0.3399
Batch 19/248, train_loss: 0.2054, step time: 0.3807
Batch 20/248, train_loss: 0.7503, step time: 0.3586
Batch 21/248, train_loss: 0.3611, step time: 0.3474
Batch 22/248, train_loss: 0.9999, step time: 0.3846
Batch 23/248, train_loss: 0.9998, step time: 0.3718
Batch 24/248, train_loss: 0.4547, step time: 0.3750
Batch 25/248, train_loss: 0.1244, step time: 0.3429
Batch 26/248, train_loss: 0.9829, step time: 0.3446
Batch 27/248, train_loss: 0.1379, step time: 0.3483
Batch 28/248, train_loss: 0.7557, step time: 0.3814
Batch 29/248, train_loss: 0.9913, step time: 0.3441
Batch 30/248, train_loss: 0.7940, step time: 0.3478
Batch 31/248, train_loss: 0.9229, step time: 0.3469
Batch 32/248, train_loss: 0.3800, step time: 0.3896
Batch 33/248, train_loss: 0.1472, step time: 0.3597
Batch 34/248, train_loss: 0.1486, step time: 0.3731
Batch 35/248, train_loss: 0.4308, step time: 0.3858
Batch 36/248, train_loss: 0.9994, step time: 0.3845
Batch 37/248, train_loss: 0.5812, step time: 0.3473
Batch 38/248, train_loss: 0.8829, step time: 0.3503
Batch 39/248, train_loss: 0.6104, step time: 0.3743
Batch 40/248, train_loss: 0.9986, step time: 0.3645
Batch 41/248, train_loss: 0.3891, step time: 0.3540
Batch 42/248, train_loss: 0.2803, step time: 0.3819
Batch 43/248, train_loss: 0.1269, step time: 0.3773
Batch 44/248, train_loss: 0.6838, step time: 0.3814
Batch 45/248, train_loss: 0.8871, step time: 0.3423
Batch 46/248, train_loss: 0.6199, step time: 0.3584
Batch 47/248, train_loss: 0.7453, step time: 0.3804
Batch 48/248, train_loss: 0.6790, step time: 0.3802
Batch 49/248, train_loss: 0.9821, step time: 0.3836
Batch 50/248, train_loss: 0.7863, step time: 0.3416
Batch 51/248, train_loss: 0.7594, step time: 0.3744
Batch 52/248, train_loss: 0.6339, step time: 0.3575
Batch 53/248, train_loss: 0.9103, step time: 0.3584
Batch 54/248, train_loss: 0.7465, step time: 0.3458
Batch 55/248, train_loss: 0.9195, step time: 0.3513
Batch 56/248, train_loss: 0.8120, step time: 0.3789
Batch 57/248, train_loss: 0.7970, step time: 0.3844
Batch 58/248, train_loss: 0.3281, step time: 0.3435
Batch 59/248, train_loss: 0.4382, step time: 0.3416
Batch 60/248, train_loss: 0.2849, step time: 0.3484
Batch 61/248, train_loss: 0.4525, step time: 0.3831
Batch 62/248, train_loss: 0.9288, step time: 0.3504
Batch 63/248, train_loss: 0.9850, step time: 0.3410
Batch 64/248, train_loss: 0.9780, step time: 0.3698
Batch 65/248, train_loss: 0.7813, step time: 0.3483
```

Batch 55/248, train_loss: 0.7819, step time: 0.3400
Batch 66/248, train_loss: 0.7834, step time: 0.3463
Batch 67/248, train_loss: 0.1491, step time: 0.3770
Batch 68/248, train_loss: 0.2737, step time: 0.3688
Batch 69/248, train_loss: 0.9994, step time: 0.3737
Batch 70/248, train_loss: 0.3376, step time: 0.3749
Batch 71/248, train_loss: 0.3584, step time: 0.3702
Batch 72/248, train_loss: 0.2222, step time: 0.3418
Batch 73/248, train_loss: 0.3657, step time: 0.3484
Batch 74/248, train_loss: 0.9983, step time: 0.3792
Batch 75/248, train_loss: 0.3474, step time: 0.3425
Batch 76/248, train_loss: 0.9901, step time: 0.3741
Batch 77/248, train_loss: 0.9996, step time: 0.3653
Batch 78/248, train_loss: 0.5794, step time: 0.3487
Batch 79/248, train_loss: 0.7385, step time: 0.3653
Batch 80/248, train_loss: 0.8451, step time: 0.3443
Batch 81/248, train_loss: 0.8983, step time: 0.3620
Batch 82/248, train_loss: 0.3071, step time: 0.3843
Batch 83/248, train_loss: 0.9882, step time: 0.3427
Batch 84/248, train_loss: 0.7782, step time: 0.3826
Batch 85/248, train_loss: 0.9886, step time: 0.3442
Batch 86/248, train_loss: 0.5641, step time: 0.3721
Batch 87/248, train_loss: 0.9894, step time: 0.3725
Batch 88/248, train_loss: 0.9648, step time: 0.3485
Batch 89/248, train_loss: 0.1327, step time: 0.3654
Batch 90/248, train_loss: 0.8220, step time: 0.3753
Batch 91/248, train_loss: 0.9871, step time: 0.3446
Batch 92/248, train_loss: 0.7631, step time: 0.3602
Batch 93/248, train_loss: 0.3216, step time: 0.3552
Batch 94/248, train_loss: 0.9868, step time: 0.3742
Batch 95/248, train_loss: 0.5632, step time: 0.3453
Batch 96/248, train_loss: 0.5215, step time: 0.3525
Batch 97/248, train_loss: 0.9999, step time: 0.3462
Batch 98/248, train_loss: 0.2934, step time: 0.3662
Batch 99/248, train_loss: 0.9694, step time: 0.3799
Batch 100/248, train_loss: 0.9938, step time: 0.3761
Batch 101/248, train_loss: 0.0858, step time: 0.3633
Batch 102/248, train_loss: 0.6437, step time: 0.3454
Batch 103/248, train_loss: 0.9838, step time: 0.3855
Batch 104/248, train_loss: 0.5800, step time: 0.3485
Batch 105/248, train_loss: 0.2034, step time: 0.3786
Batch 106/248, train_loss: 0.8016, step time: 0.3418
Batch 107/248, train_loss: 0.9597, step time: 0.3800
Batch 108/248, train_loss: 0.9786, step time: 0.3489
Batch 109/248, train_loss: 0.9967, step time: 0.3858
Batch 110/248, train_loss: 0.9313, step time: 0.3626
Batch 111/248, train_loss: 0.2406, step time: 0.3603
Batch 112/248, train_loss: 0.2852, step time: 0.3835
Batch 113/248, train_loss: 0.9999, step time: 0.3421
Batch 114/248, train_loss: 0.2402, step time: 0.3562
Batch 115/248, train_loss: 0.6378, step time: 0.3475
Batch 116/248, train_loss: 0.1746, step time: 0.3857
Batch 117/248, train_loss: 0.9949, step time: 0.3467
Batch 118/248, train_loss: 0.9778, step time: 0.3741
Batch 119/248, train_loss: 0.6962, step time: 0.3760
Batch 120/248, train_loss: 0.7221, step time: 0.3724
Batch 121/248, train_loss: 0.9320, step time: 0.3405
Batch 122/248, train_loss: 0.9458, step time: 0.3811
Batch 123/248, train_loss: 0.3623, step time: 0.3773
Batch 124/248, train_loss: 0.9605, step time: 0.3866
Batch 125/248, train_loss: 0.9916, step time: 0.3831
Batch 126/248, train_loss: 0.3942, step time: 0.3479
Batch 127/248, train_loss: 0.6841, step time: 0.3669
Batch 128/248, train_loss: 0.8735, step time: 0.3584
Batch 129/248, train_loss: 0.1876, step time: 0.3867
Batch 130/248, train_loss: 0.1737, step time: 0.3458
Batch 131/248, train_loss: 0.9522, step time: 0.3469
Batch 132/248, train_loss: 0.9634, step time: 0.3525
Batch 133/248, train_loss: 0.1902, step time: 0.3484
Batch 134/248, train_loss: 1.0000, step time: 0.3437
Batch 135/248, train_loss: 0.9775, step time: 0.3488
Batch 136/248, train_loss: 0.8226, step time: 0.3532
Batch 137/248, train_loss: 0.2163, step time: 0.3735
Batch 138/248, train_loss: 0.1907, step time: 0.3644
Batch 139/248, train_loss: 0.2801, step time: 0.3541
Batch 140/248, train_loss: 0.8207, step time: 0.3588
Batch 141/248, train_loss: 0.4085, step time: 0.3620
Batch 142/248, train_loss: 0.9964, step time: 0.3573
Batch 143/248, train_loss: 0.8379, step time: 0.3839
Batch 144/248, train_loss: 0.2336, step time: 0.3536
Batch 145/248, train_loss: 0.1224, step time: 0.3732
Batch 146/248, train_loss: 0.9981, step time: 0.3458
Batch 147/248, train_loss: 0.0961, step time: 0.3695
Batch 148/248, train_loss: 0.9680, step time: 0.3442
Batch 149/248, train_loss: 0.6186, step time: 0.3666
Batch 150/248, train_loss: 0.5050, step time: 0.3427

```
Batch 150/248, train_loss: 0.5950, step time: 0.3437
Batch 151/248, train_loss: 0.9849, step time: 0.3847
Batch 152/248, train_loss: 0.0916, step time: 0.3499
Batch 153/248, train_loss: 0.9392, step time: 0.3458
Batch 154/248, train_loss: 0.9857, step time: 0.3452
Batch 155/248, train_loss: 0.6578, step time: 0.3553
Batch 156/248, train_loss: 0.6707, step time: 0.3452
Batch 157/248, train_loss: 0.4195, step time: 0.3595
Batch 158/248, train_loss: 0.9996, step time: 0.3872
Batch 159/248, train_loss: 0.9945, step time: 0.3547
Batch 160/248, train_loss: 0.3991, step time: 0.3776
Batch 161/248, train_loss: 0.6281, step time: 0.3470
Batch 162/248, train_loss: 0.1203, step time: 0.3823
Batch 163/248, train_loss: 0.9682, step time: 0.3741
Batch 164/248, train_loss: 0.6978, step time: 0.3469
Batch 165/248, train_loss: 0.9987, step time: 0.3720
Batch 166/248, train_loss: 0.9236, step time: 0.3457
Batch 167/248, train_loss: 0.7413, step time: 0.3508
Batch 168/248, train_loss: 0.6879, step time: 0.3456
Batch 169/248, train_loss: 0.3982, step time: 0.3616
Batch 170/248, train_loss: 0.9855, step time: 0.3641
Batch 171/248, train_loss: 0.1305, step time: 0.3744
Batch 172/248, train_loss: 0.9991, step time: 0.3563
Batch 173/248, train_loss: 0.2096, step time: 0.3610
Batch 174/248, train_loss: 0.9999, step time: 0.3487
Batch 175/248, train_loss: 0.2236, step time: 0.3420
Batch 176/248, train_loss: 0.8226, step time: 0.3844
Batch 177/248, train_loss: 0.9962, step time: 0.3493
Batch 178/248, train_loss: 0.4695, step time: 0.3435
Batch 179/248, train_loss: 0.1459, step time: 0.3806
Batch 180/248, train_loss: 0.6708, step time: 0.3703
Batch 181/248, train_loss: 0.1740, step time: 0.3618
Batch 182/248, train_loss: 0.9540, step time: 0.3762
Batch 183/248, train_loss: 0.6604, step time: 0.3738
Batch 184/248, train_loss: 0.9378, step time: 0.3571
Batch 185/248, train_loss: 0.6565, step time: 0.3493
Batch 186/248, train_loss: 0.3926, step time: 0.3439
Batch 187/248, train_loss: 0.4312, step time: 0.3414
Batch 188/248, train_loss: 0.7041, step time: 0.3422
Batch 189/248, train_loss: 0.9997, step time: 0.3844
Batch 190/248, train_loss: 0.4895, step time: 0.3477
Batch 191/248, train_loss: 0.9973, step time: 0.3858
Batch 192/248, train_loss: 0.5103, step time: 0.3459
Batch 193/248, train_loss: 0.8381, step time: 0.3404
Batch 194/248, train_loss: 0.7817, step time: 0.3804
Batch 195/248, train_loss: 0.9996, step time: 0.3528
Batch 196/248, train_loss: 0.9998, step time: 0.3411
Batch 197/248, train_loss: 0.8811, step time: 0.3811
Batch 198/248, train_loss: 1.0000, step time: 0.3492
Batch 199/248, train_loss: 0.7244, step time: 0.3876
Batch 200/248, train_loss: 0.6314, step time: 0.3707
Batch 201/248, train_loss: 0.3790, step time: 0.3764
Batch 202/248, train_loss: 0.8406, step time: 0.3677
Batch 203/248, train_loss: 0.9936, step time: 0.3666
Batch 204/248, train_loss: 0.1771, step time: 0.3773
Batch 205/248, train_loss: 0.9393, step time: 0.3768
Batch 206/248, train_loss: 0.9952, step time: 0.3520
Batch 207/248, train_loss: 0.2643, step time: 0.3555
Batch 208/248, train_loss: 0.6563, step time: 0.3846
Batch 209/248, train_loss: 0.5306, step time: 0.3497
Batch 210/248, train_loss: 0.2431, step time: 0.3701
Batch 211/248, train_loss: 0.2741, step time: 0.3546
Batch 212/248, train_loss: 0.8394, step time: 0.3791
Batch 213/248, train_loss: 0.8161, step time: 0.3812
Batch 214/248, train_loss: 0.4573, step time: 0.3491
Batch 215/248, train_loss: 0.8822, step time: 0.3849
Batch 216/248, train_loss: 0.3711, step time: 0.3472
Batch 217/248, train_loss: 0.9434, step time: 0.3442
Batch 218/248, train_loss: 0.9994, step time: 0.3440
Batch 219/248, train_loss: 0.4474, step time: 0.3603
Batch 220/248, train_loss: 0.8776, step time: 0.3738
Batch 221/248, train_loss: 0.8721, step time: 0.3796
Batch 222/248, train_loss: 0.3675, step time: 0.3442
Batch 223/248, train_loss: 0.1210, step time: 0.3815
Batch 224/248, train_loss: 0.2456, step time: 0.3691
Batch 225/248, train_loss: 0.9880, step time: 0.3713
Batch 226/248, train_loss: 0.9412, step time: 0.3830
Batch 227/248, train_loss: 0.4510, step time: 0.3475
Batch 228/248, train_loss: 0.8601, step time: 0.3786
Batch 229/248, train_loss: 0.1648, step time: 0.3558
Batch 230/248, train_loss: 0.4546, step time: 0.3456
Batch 231/248, train_loss: 0.9993, step time: 0.3439
Batch 232/248, train_loss: 0.4388, step time: 0.3786
Batch 233/248, train_loss: 0.9999, step time: 0.3773
Batch 234/248, train_loss: 0.9899, step time: 0.3696
```

```
Batch 235/248, train_loss: 0.9839, step time: 0.3834
Batch 236/248, train_loss: 0.9991, step time: 0.3712
Batch 237/248, train_loss: 0.2551, step time: 0.3567
Batch 238/248, train_loss: 0.3513, step time: 0.3822
Batch 239/248, train_loss: 0.1121, step time: 0.3738
Batch 240/248, train_loss: 0.8153, step time: 0.3483
Batch 241/248, train_loss: 0.9991, step time: 0.3534
Batch 242/248, train_loss: 0.9163, step time: 0.3405
Batch 243/248, train_loss: 0.9997, step time: 0.3773
Batch 244/248, train_loss: 0.9808, step time: 0.3563
Batch 245/248, train_loss: 0.2996, step time: 0.3775
Batch 246/248, train_loss: 0.9849, step time: 0.3746
Batch 247/248, train_loss: 0.1266, step time: 0.3437
Batch 248/248, train_loss: 1.0000, step time: 0.3605
```

Labels



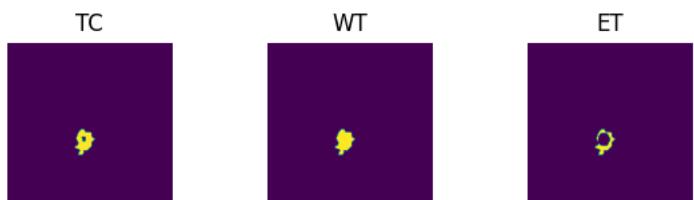
Predictions



VAL

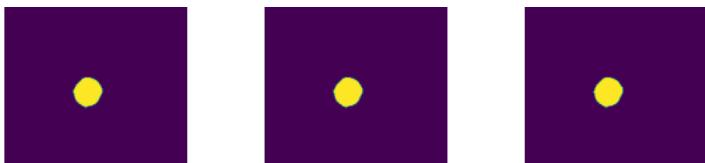
```
Batch 1/31, val_loss: 0.8923
Batch 2/31, val_loss: 0.9995
Batch 3/31, val_loss: 0.9948
Batch 4/31, val_loss: 0.9942
Batch 5/31, val_loss: 0.9998
Batch 6/31, val_loss: 0.7355
Batch 7/31, val_loss: 0.8789
Batch 8/31, val_loss: 0.9869
Batch 9/31, val_loss: 0.7264
Batch 10/31, val_loss: 0.9788
Batch 11/31, val_loss: 0.8888
Batch 12/31, val_loss: 0.9803
Batch 13/31, val_loss: 0.9939
Batch 14/31, val_loss: 0.9758
Batch 15/31, val_loss: 0.9991
Batch 16/31, val_loss: 0.9921
Batch 17/31, val_loss: 0.9994
Batch 18/31, val_loss: 0.9840
Batch 19/31, val_loss: 0.7955
Batch 20/31, val_loss: 0.8904
Batch 21/31, val_loss: 0.9451
Batch 22/31, val_loss: 0.9994
Batch 23/31, val_loss: 0.9960
Batch 24/31, val_loss: 0.7640
Batch 25/31, val_loss: 0.8354
Batch 26/31, val_loss: 0.9669
Batch 27/31, val_loss: 0.9992
Batch 28/31, val_loss: 0.8215
Batch 29/31, val_loss: 0.9985
Batch 30/31, val_loss: 0.9953
Batch 31/31, val_loss: 0.9953
```

Labels



Predictions





```
epoch 47
average train loss: 0.6692
average validation loss: 0.9356
saved as best model: True
current mean dice: 0.2696
current TC dice: 0.2814
current WT dice: 0.2862
current ET dice: 0.2670
Best Mean Metric: 0.2696
time consuming of epoch 47 is: 1441.9754
-----
```

```
epoch 48/100
```

```
TRAIN
```

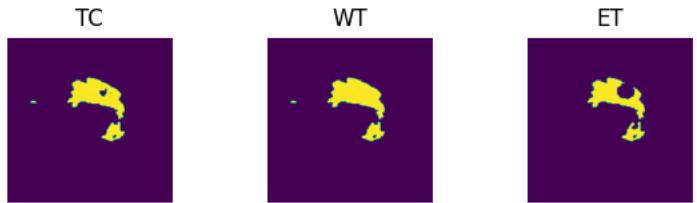
```
Batch 1/248, train_loss: 0.1436, step time: 0.3565
Batch 2/248, train_loss: 0.9994, step time: 0.3474
Batch 3/248, train_loss: 0.9582, step time: 0.3717
Batch 4/248, train_loss: 0.9997, step time: 0.3814
Batch 5/248, train_loss: 0.8290, step time: 0.3849
Batch 6/248, train_loss: 0.8004, step time: 0.3425
Batch 7/248, train_loss: 0.1250, step time: 0.3785
Batch 8/248, train_loss: 0.7511, step time: 0.3564
Batch 9/248, train_loss: 0.1012, step time: 0.3699
Batch 10/248, train_loss: 0.9191, step time: 0.3687
Batch 11/248, train_loss: 0.8050, step time: 0.3425
Batch 12/248, train_loss: 0.9940, step time: 0.3716
Batch 13/248, train_loss: 0.9663, step time: 0.3726
Batch 14/248, train_loss: 0.0926, step time: 0.3461
Batch 15/248, train_loss: 0.9126, step time: 0.3495
Batch 16/248, train_loss: 0.7659, step time: 0.3605
Batch 17/248, train_loss: 0.9901, step time: 0.3818
Batch 18/248, train_loss: 0.9753, step time: 0.3433
Batch 19/248, train_loss: 0.1953, step time: 0.3523
Batch 20/248, train_loss: 0.7616, step time: 0.3450
Batch 21/248, train_loss: 0.3450, step time: 0.3715
Batch 22/248, train_loss: 0.9999, step time: 0.3448
Batch 23/248, train_loss: 0.9997, step time: 0.3776
Batch 24/248, train_loss: 0.4384, step time: 0.3536
Batch 25/248, train_loss: 0.1290, step time: 0.3655
Batch 26/248, train_loss: 0.9850, step time: 0.3516
Batch 27/248, train_loss: 0.1360, step time: 0.3816
Batch 28/248, train_loss: 0.7446, step time: 0.3691
Batch 29/248, train_loss: 0.9901, step time: 0.3729
Batch 30/248, train_loss: 0.8913, step time: 0.3671
Batch 31/248, train_loss: 0.9157, step time: 0.3568
Batch 32/248, train_loss: 0.3724, step time: 0.3665
Batch 33/248, train_loss: 0.1534, step time: 0.3707
Batch 34/248, train_loss: 0.1477, step time: 0.3554
Batch 35/248, train_loss: 0.4192, step time: 0.3454
Batch 36/248, train_loss: 0.9975, step time: 0.3761
Batch 37/248, train_loss: 0.5451, step time: 0.3443
Batch 38/248, train_loss: 0.8881, step time: 0.3471
Batch 39/248, train_loss: 0.6010, step time: 0.3421
Batch 40/248, train_loss: 0.9989, step time: 0.3510
Batch 41/248, train_loss: 0.3814, step time: 0.3517
Batch 42/248, train_loss: 0.2799, step time: 0.3620
Batch 43/248, train_loss: 0.1214, step time: 0.3532
Batch 44/248, train_loss: 0.6150, step time: 0.3494
Batch 45/248, train_loss: 0.8951, step time: 0.3565
Batch 46/248, train_loss: 0.6291, step time: 0.3732
Batch 47/248, train_loss: 0.7526, step time: 0.3840
Batch 48/248, train_loss: 0.6513, step time: 0.3526
Batch 49/248, train_loss: 0.9791, step time: 0.3572
Batch 50/248, train_loss: 0.7891, step time: 0.3758
Batch 51/248, train_loss: 0.7497, step time: 0.3673
Batch 52/248, train_loss: 0.6448, step time: 0.3615
Batch 53/248, train_loss: 0.9017, step time: 0.3656
Batch 54/248, train_loss: 0.7423, step time: 0.3540
Batch 55/248, train_loss: 0.9260, step time: 0.3526
Batch 56/248, train_loss: 0.7896, step time: 0.3736
Batch 57/248, train_loss: 0.7919, step time: 0.3485
Batch 58/248, train_loss: 0.3276, step time: 0.3485
Batch 59/248, train_loss: 0.4305, step time: 0.3450
Batch 60/248, train_loss: 0.2792, step time: 0.3547
Batch 61/248, train_loss: 0.4436, step time: 0.3807
Batch 62/248, train_loss: 0.9256, step time: 0.3481
Batch 63/248, train_loss: 0.9906, step time: 0.3453
Batch 64/248, train_loss: 0.9828, step time: 0.3862
-----
```

Batch 65/248, train_loss: 0.8907, step time: 0.3544
Batch 66/248, train_loss: 0.7844, step time: 0.3861
Batch 67/248, train_loss: 0.1530, step time: 0.3418
Batch 68/248, train_loss: 0.2601, step time: 0.3729
Batch 69/248, train_loss: 0.9974, step time: 0.3417
Batch 70/248, train_loss: 0.3362, step time: 0.3441
Batch 71/248, train_loss: 0.3125, step time: 0.3430
Batch 72/248, train_loss: 0.2136, step time: 0.3700
Batch 73/248, train_loss: 0.3399, step time: 0.3454
Batch 74/248, train_loss: 0.9994, step time: 0.3824
Batch 75/248, train_loss: 0.3533, step time: 0.3468
Batch 76/248, train_loss: 0.9917, step time: 0.3581
Batch 77/248, train_loss: 0.9987, step time: 0.3772
Batch 78/248, train_loss: 0.5706, step time: 0.3773
Batch 79/248, train_loss: 0.7379, step time: 0.3461
Batch 80/248, train_loss: 0.8362, step time: 0.3813
Batch 81/248, train_loss: 0.9006, step time: 0.3822
Batch 82/248, train_loss: 0.3019, step time: 0.3774
Batch 83/248, train_loss: 0.9839, step time: 0.3413
Batch 84/248, train_loss: 0.7581, step time: 0.3801
Batch 85/248, train_loss: 0.9931, step time: 0.3407
Batch 86/248, train_loss: 0.5264, step time: 0.3423
Batch 87/248, train_loss: 0.9865, step time: 0.3671
Batch 88/248, train_loss: 0.9607, step time: 0.3470
Batch 89/248, train_loss: 0.1304, step time: 0.3645
Batch 90/248, train_loss: 0.8048, step time: 0.3686
Batch 91/248, train_loss: 0.9875, step time: 0.3739
Batch 92/248, train_loss: 0.7564, step time: 0.3735
Batch 93/248, train_loss: 0.3122, step time: 0.3837
Batch 94/248, train_loss: 0.9869, step time: 0.3619
Batch 95/248, train_loss: 0.5544, step time: 0.3628
Batch 96/248, train_loss: 0.5087, step time: 0.3631
Batch 97/248, train_loss: 0.9998, step time: 0.3572
Batch 98/248, train_loss: 0.2897, step time: 0.3623
Batch 99/248, train_loss: 0.9648, step time: 0.3447
Batch 100/248, train_loss: 0.9928, step time: 0.3741
Batch 101/248, train_loss: 0.1011, step time: 0.3845
Batch 102/248, train_loss: 0.6382, step time: 0.3595
Batch 103/248, train_loss: 0.9826, step time: 0.3600
Batch 104/248, train_loss: 0.5865, step time: 0.3444
Batch 105/248, train_loss: 0.1995, step time: 0.3856
Batch 106/248, train_loss: 0.8014, step time: 0.3449
Batch 107/248, train_loss: 0.9584, step time: 0.3581
Batch 108/248, train_loss: 0.9757, step time: 0.3570
Batch 109/248, train_loss: 0.9990, step time: 0.3571
Batch 110/248, train_loss: 0.8496, step time: 0.3615
Batch 111/248, train_loss: 0.2295, step time: 0.3829
Batch 112/248, train_loss: 0.2768, step time: 0.3484
Batch 113/248, train_loss: 0.9998, step time: 0.3763
Batch 114/248, train_loss: 0.2304, step time: 0.3806
Batch 115/248, train_loss: 0.6340, step time: 0.3652
Batch 116/248, train_loss: 0.1667, step time: 0.3837
Batch 117/248, train_loss: 0.9932, step time: 0.3465
Batch 118/248, train_loss: 0.9675, step time: 0.3768
Batch 119/248, train_loss: 0.7009, step time: 0.3466
Batch 120/248, train_loss: 0.7163, step time: 0.3565
Batch 121/248, train_loss: 0.9243, step time: 0.3581
Batch 122/248, train_loss: 0.9496, step time: 0.3473
Batch 123/248, train_loss: 0.3518, step time: 0.3441
Batch 124/248, train_loss: 0.9542, step time: 0.3431
Batch 125/248, train_loss: 0.9944, step time: 0.3433
Batch 126/248, train_loss: 0.4992, step time: 0.3523
Batch 127/248, train_loss: 0.6766, step time: 0.3889
Batch 128/248, train_loss: 0.8735, step time: 0.3832
Batch 129/248, train_loss: 0.1815, step time: 0.3739
Batch 130/248, train_loss: 0.2073, step time: 0.3447
Batch 131/248, train_loss: 0.9467, step time: 0.3484
Batch 132/248, train_loss: 0.9527, step time: 0.3775
Batch 133/248, train_loss: 0.2127, step time: 0.3400
Batch 134/248, train_loss: 0.9999, step time: 0.3675
Batch 135/248, train_loss: 0.9736, step time: 0.3429
Batch 136/248, train_loss: 0.8223, step time: 0.3520
Batch 137/248, train_loss: 0.1795, step time: 0.3636
Batch 138/248, train_loss: 0.1900, step time: 0.3562
Batch 139/248, train_loss: 0.2962, step time: 0.3636
Batch 140/248, train_loss: 0.8077, step time: 0.3850
Batch 141/248, train_loss: 0.3801, step time: 0.3642
Batch 142/248, train_loss: 0.9896, step time: 0.3640
Batch 143/248, train_loss: 0.8321, step time: 0.3714
Batch 144/248, train_loss: 0.2424, step time: 0.3680
Batch 145/248, train_loss: 0.1221, step time: 0.3467
Batch 146/248, train_loss: 0.9991, step time: 0.3793
Batch 147/248, train_loss: 0.0859, step time: 0.3490
Batch 148/248, train_loss: 0.9677, step time: 0.3717
Batch 149/248, train_loss: 0.6014, step time: 0.3446

Batch 150/248, train_loss: 0.5714, step time: 0.3801
Batch 151/248, train_loss: 0.9517, step time: 0.3736
Batch 152/248, train_loss: 0.0893, step time: 0.3443
Batch 153/248, train_loss: 0.9351, step time: 0.3616
Batch 154/248, train_loss: 0.9850, step time: 0.3846
Batch 155/248, train_loss: 0.6435, step time: 0.3705
Batch 156/248, train_loss: 0.6629, step time: 0.3852
Batch 157/248, train_loss: 0.4190, step time: 0.3736
Batch 158/248, train_loss: 0.9994, step time: 0.3459
Batch 159/248, train_loss: 0.9971, step time: 0.3450
Batch 160/248, train_loss: 0.3833, step time: 0.3524
Batch 161/248, train_loss: 0.6202, step time: 0.3848
Batch 162/248, train_loss: 0.1213, step time: 0.3406
Batch 163/248, train_loss: 0.9666, step time: 0.3426
Batch 164/248, train_loss: 0.6876, step time: 0.3738
Batch 165/248, train_loss: 0.9991, step time: 0.3740
Batch 166/248, train_loss: 0.9184, step time: 0.3784
Batch 167/248, train_loss: 0.7118, step time: 0.3721
Batch 168/248, train_loss: 0.6621, step time: 0.3420
Batch 169/248, train_loss: 0.3863, step time: 0.3839
Batch 170/248, train_loss: 0.9844, step time: 0.3893
Batch 171/248, train_loss: 0.1290, step time: 0.3419
Batch 172/248, train_loss: 0.9994, step time: 0.3560
Batch 173/248, train_loss: 0.1750, step time: 0.3485
Batch 174/248, train_loss: 0.9973, step time: 0.3565
Batch 175/248, train_loss: 0.2070, step time: 0.3524
Batch 176/248, train_loss: 0.8128, step time: 0.3560
Batch 177/248, train_loss: 0.9928, step time: 0.3547
Batch 178/248, train_loss: 0.4135, step time: 0.3452
Batch 179/248, train_loss: 0.1319, step time: 0.3450
Batch 180/248, train_loss: 0.6652, step time: 0.3669
Batch 181/248, train_loss: 0.1754, step time: 0.3840
Batch 182/248, train_loss: 0.9497, step time: 0.3410
Batch 183/248, train_loss: 0.6582, step time: 0.3766
Batch 184/248, train_loss: 0.9281, step time: 0.3493
Batch 185/248, train_loss: 0.6594, step time: 0.3714
Batch 186/248, train_loss: 0.3891, step time: 0.3869
Batch 187/248, train_loss: 0.4190, step time: 0.3577
Batch 188/248, train_loss: 0.6897, step time: 0.3810
Batch 189/248, train_loss: 0.9992, step time: 0.3466
Batch 190/248, train_loss: 0.4704, step time: 0.3582
Batch 191/248, train_loss: 0.9970, step time: 0.3683
Batch 192/248, train_loss: 0.4553, step time: 0.3748
Batch 193/248, train_loss: 0.8190, step time: 0.3482
Batch 194/248, train_loss: 0.7707, step time: 0.3852
Batch 195/248, train_loss: 0.9997, step time: 0.3462
Batch 196/248, train_loss: 0.9998, step time: 0.3561
Batch 197/248, train_loss: 0.8754, step time: 0.3700
Batch 198/248, train_loss: 1.0000, step time: 0.3728
Batch 199/248, train_loss: 0.7000, step time: 0.3847
Batch 200/248, train_loss: 0.6201, step time: 0.3758
Batch 201/248, train_loss: 0.3671, step time: 0.3707
Batch 202/248, train_loss: 0.8294, step time: 0.3423
Batch 203/248, train_loss: 0.9922, step time: 0.3663
Batch 204/248, train_loss: 0.1774, step time: 0.3411
Batch 205/248, train_loss: 0.9219, step time: 0.3507
Batch 206/248, train_loss: 0.9962, step time: 0.3456
Batch 207/248, train_loss: 0.2632, step time: 0.3468
Batch 208/248, train_loss: 0.6335, step time: 0.3674
Batch 209/248, train_loss: 0.5197, step time: 0.3843
Batch 210/248, train_loss: 0.2354, step time: 0.3542
Batch 211/248, train_loss: 0.2686, step time: 0.3775
Batch 212/248, train_loss: 0.8281, step time: 0.3573
Batch 213/248, train_loss: 0.8093, step time: 0.3482
Batch 214/248, train_loss: 0.4472, step time: 0.3642
Batch 215/248, train_loss: 0.8813, step time: 0.3554
Batch 216/248, train_loss: 0.3604, step time: 0.3594
Batch 217/248, train_loss: 0.9400, step time: 0.3817
Batch 218/248, train_loss: 0.9958, step time: 0.3663
Batch 219/248, train_loss: 0.4359, step time: 0.3486
Batch 220/248, train_loss: 0.8730, step time: 0.3473
Batch 221/248, train_loss: 0.8708, step time: 0.3572
Batch 222/248, train_loss: 0.3711, step time: 0.3803
Batch 223/248, train_loss: 0.1178, step time: 0.3524
Batch 224/248, train_loss: 0.2306, step time: 0.3708
Batch 225/248, train_loss: 0.9871, step time: 0.3520
Batch 226/248, train_loss: 0.9536, step time: 0.3497
Batch 227/248, train_loss: 0.4494, step time: 0.3687
Batch 228/248, train_loss: 0.8560, step time: 0.3585
Batch 229/248, train_loss: 0.1676, step time: 0.3863
Batch 230/248, train_loss: 0.4468, step time: 0.3683
Batch 231/248, train_loss: 0.9994, step time: 0.3765
Batch 232/248, train_loss: 0.4260, step time: 0.3430
Batch 233/248, train_loss: 0.9997, step time: 0.3414
Batch 234/248, train_loss: 0.9939, step time: 0.3744

```
Batch 235/248, train_loss: 0.9897, step time: 0.3681
Batch 236/248, train_loss: 0.9991, step time: 0.3733
Batch 237/248, train_loss: 0.2435, step time: 0.3591
Batch 238/248, train_loss: 0.3474, step time: 0.3742
Batch 239/248, train_loss: 0.1126, step time: 0.3435
Batch 240/248, train_loss: 0.8068, step time: 0.3661
Batch 241/248, train_loss: 1.0000, step time: 0.3572
Batch 242/248, train_loss: 0.9141, step time: 0.3493
Batch 243/248, train_loss: 0.9985, step time: 0.3482
Batch 244/248, train_loss: 0.9777, step time: 0.3848
Batch 245/248, train_loss: 0.2988, step time: 0.3859
Batch 246/248, train_loss: 0.9886, step time: 0.3809
Batch 247/248, train_loss: 0.1307, step time: 0.3571
Batch 248/248, train_loss: 1.0000, step time: 0.3676
```

Labels



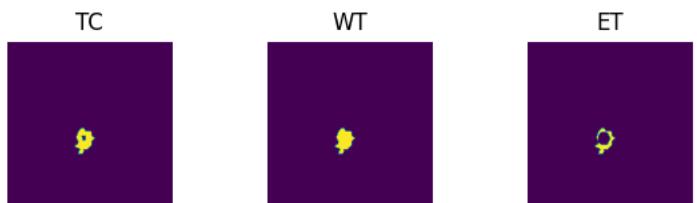
Predictions



VAL

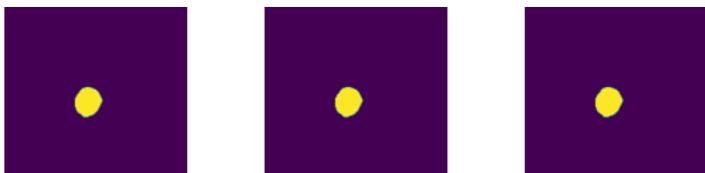
```
Batch 1/31, val_loss: 0.8905
Batch 2/31, val_loss: 0.9994
Batch 3/31, val_loss: 0.9953
Batch 4/31, val_loss: 0.9947
Batch 5/31, val_loss: 0.9998
Batch 6/31, val_loss: 0.7366
Batch 7/31, val_loss: 0.8729
Batch 8/31, val_loss: 0.9879
Batch 9/31, val_loss: 0.7264
Batch 10/31, val_loss: 0.9803
Batch 11/31, val_loss: 0.8834
Batch 12/31, val_loss: 0.9781
Batch 13/31, val_loss: 0.9946
Batch 14/31, val_loss: 0.9736
Batch 15/31, val_loss: 0.9955
Batch 16/31, val_loss: 0.9930
Batch 17/31, val_loss: 0.9993
Batch 18/31, val_loss: 0.9896
Batch 19/31, val_loss: 0.7954
Batch 20/31, val_loss: 0.8914
Batch 21/31, val_loss: 0.9423
Batch 22/31, val_loss: 0.9989
Batch 23/31, val_loss: 0.9953
Batch 24/31, val_loss: 0.7636
Batch 25/31, val_loss: 0.8327
Batch 26/31, val_loss: 0.9667
Batch 27/31, val_loss: 0.9991
Batch 28/31, val_loss: 0.8172
Batch 29/31, val_loss: 0.9993
Batch 30/31, val_loss: 0.9951
Batch 31/31, val_loss: 0.9954
```

Labels



Predictions





epoch 48

```
average train loss: 0.6643
average validation loss: 0.9349
saved as best model: True
current mean dice: 0.2725
current TC dice: 0.2843
current WT dice: 0.2893
current ET dice: 0.2700
Best Mean Metric: 0.2725
time consuming of epoch 48 is: 1431.7029
-----
```

epoch 49/100

TRAIN

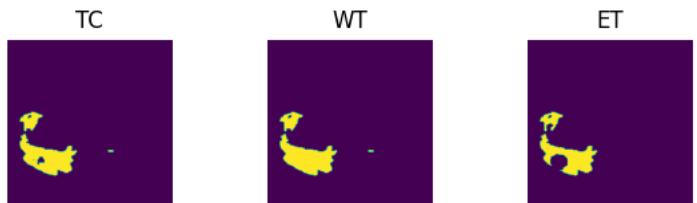
```
Batch 1/248, train_loss: 0.1361, step time: 0.3525
Batch 2/248, train_loss: 0.9997, step time: 0.3517
Batch 3/248, train_loss: 0.9609, step time: 0.3823
Batch 4/248, train_loss: 0.9998, step time: 0.3492
Batch 5/248, train_loss: 0.8186, step time: 0.3745
Batch 6/248, train_loss: 0.7882, step time: 0.3806
Batch 7/248, train_loss: 0.1202, step time: 0.3476
Batch 8/248, train_loss: 0.7560, step time: 0.3640
Batch 9/248, train_loss: 0.1040, step time: 0.3442
Batch 10/248, train_loss: 0.9188, step time: 0.3586
Batch 11/248, train_loss: 0.7988, step time: 0.3659
Batch 12/248, train_loss: 0.9995, step time: 0.3480
Batch 13/248, train_loss: 0.9622, step time: 0.3677
Batch 14/248, train_loss: 0.0970, step time: 0.3835
Batch 15/248, train_loss: 0.9081, step time: 0.3661
Batch 16/248, train_loss: 0.7584, step time: 0.3570
Batch 17/248, train_loss: 0.9914, step time: 0.3490
Batch 18/248, train_loss: 0.9729, step time: 0.3820
Batch 19/248, train_loss: 0.1946, step time: 0.3878
Batch 20/248, train_loss: 0.7435, step time: 0.3829
Batch 21/248, train_loss: 0.3325, step time: 0.3415
Batch 22/248, train_loss: 0.9999, step time: 0.3424
Batch 23/248, train_loss: 0.9987, step time: 0.3695
Batch 24/248, train_loss: 0.4297, step time: 0.3601
Batch 25/248, train_loss: 0.1312, step time: 0.3560
Batch 26/248, train_loss: 0.9848, step time: 0.3458
Batch 27/248, train_loss: 0.1295, step time: 0.3738
Batch 28/248, train_loss: 0.7366, step time: 0.3730
Batch 29/248, train_loss: 0.9901, step time: 0.3679
Batch 30/248, train_loss: 0.9657, step time: 0.3580
Batch 31/248, train_loss: 0.9069, step time: 0.3524
Batch 32/248, train_loss: 0.3594, step time: 0.3596
Batch 33/248, train_loss: 0.1278, step time: 0.3690
Batch 34/248, train_loss: 0.1489, step time: 0.3442
Batch 35/248, train_loss: 0.4057, step time: 0.3565
Batch 36/248, train_loss: 0.9962, step time: 0.3769
Batch 37/248, train_loss: 0.5624, step time: 0.3655
Batch 38/248, train_loss: 0.8766, step time: 0.3472
Batch 39/248, train_loss: 0.5944, step time: 0.3491
Batch 40/248, train_loss: 0.9990, step time: 0.3665
Batch 41/248, train_loss: 0.3709, step time: 0.3570
Batch 42/248, train_loss: 0.2627, step time: 0.3702
Batch 43/248, train_loss: 0.1237, step time: 0.3654
Batch 44/248, train_loss: 0.6619, step time: 0.3473
Batch 45/248, train_loss: 0.8752, step time: 0.3454
Batch 46/248, train_loss: 0.6050, step time: 0.3824
Batch 47/248, train_loss: 0.7314, step time: 0.3805
Batch 48/248, train_loss: 0.6655, step time: 0.3424
Batch 49/248, train_loss: 0.9864, step time: 0.3855
Batch 50/248, train_loss: 0.7763, step time: 0.3652
Batch 51/248, train_loss: 0.7326, step time: 0.3652
Batch 52/248, train_loss: 0.6304, step time: 0.3583
Batch 53/248, train_loss: 0.8980, step time: 0.3459
Batch 54/248, train_loss: 0.7315, step time: 0.3527
Batch 55/248, train_loss: 0.9092, step time: 0.3653
Batch 56/248, train_loss: 0.7690, step time: 0.3563
Batch 57/248, train_loss: 0.7954, step time: 0.3763
Batch 58/248, train_loss: 0.3105, step time: 0.3736
Batch 59/248, train_loss: 0.4116, step time: 0.3411
Batch 60/248, train_loss: 0.2641, step time: 0.3578
Batch 61/248, train_loss: 0.4198, step time: 0.3670
Batch 62/248, train_loss: 0.9299, step time: 0.3655
Batch 63/248, train_loss: 0.9895, step time: 0.3774
Batch 64/248, train_loss: 0.9834, step time: 0.3427
```

Batch 65/248, train_loss: 0.7809, step time: 0.3428
Batch 66/248, train_loss: 0.7673, step time: 0.3418
Batch 67/248, train_loss: 0.1575, step time: 0.3595
Batch 68/248, train_loss: 0.2360, step time: 0.3556
Batch 69/248, train_loss: 0.9987, step time: 0.3615
Batch 70/248, train_loss: 0.3421, step time: 0.3450
Batch 71/248, train_loss: 0.3386, step time: 0.3624
Batch 72/248, train_loss: 0.2120, step time: 0.3424
Batch 73/248, train_loss: 0.3107, step time: 0.3787
Batch 74/248, train_loss: 0.9983, step time: 0.3440
Batch 75/248, train_loss: 0.3351, step time: 0.3609
Batch 76/248, train_loss: 0.9901, step time: 0.3624
Batch 77/248, train_loss: 0.9993, step time: 0.3474
Batch 78/248, train_loss: 0.5552, step time: 0.3466
Batch 79/248, train_loss: 0.7269, step time: 0.3736
Batch 80/248, train_loss: 0.8388, step time: 0.3432
Batch 81/248, train_loss: 0.8945, step time: 0.3806
Batch 82/248, train_loss: 0.2955, step time: 0.3452
Batch 83/248, train_loss: 0.9858, step time: 0.3712
Batch 84/248, train_loss: 0.7461, step time: 0.3690
Batch 85/248, train_loss: 0.9895, step time: 0.3469
Batch 86/248, train_loss: 0.5157, step time: 0.3469
Batch 87/248, train_loss: 0.9878, step time: 0.3820
Batch 88/248, train_loss: 0.9657, step time: 0.3720
Batch 89/248, train_loss: 0.1296, step time: 0.3833
Batch 90/248, train_loss: 0.7934, step time: 0.3413
Batch 91/248, train_loss: 0.9868, step time: 0.3446
Batch 92/248, train_loss: 0.8439, step time: 0.3721
Batch 93/248, train_loss: 0.3027, step time: 0.3506
Batch 94/248, train_loss: 0.9855, step time: 0.3789
Batch 95/248, train_loss: 0.5501, step time: 0.3475
Batch 96/248, train_loss: 0.4944, step time: 0.3458
Batch 97/248, train_loss: 0.9999, step time: 0.3810
Batch 98/248, train_loss: 0.2500, step time: 0.3450
Batch 99/248, train_loss: 0.9622, step time: 0.3476
Batch 100/248, train_loss: 0.9914, step time: 0.3708
Batch 101/248, train_loss: 0.0886, step time: 0.3507
Batch 102/248, train_loss: 0.6283, step time: 0.3456
Batch 103/248, train_loss: 0.9808, step time: 0.3673
Batch 104/248, train_loss: 0.5636, step time: 0.3814
Batch 105/248, train_loss: 0.1954, step time: 0.3419
Batch 106/248, train_loss: 0.7969, step time: 0.3752
Batch 107/248, train_loss: 0.9627, step time: 0.3519
Batch 108/248, train_loss: 0.9694, step time: 0.3860
Batch 109/248, train_loss: 0.9951, step time: 0.3775
Batch 110/248, train_loss: 0.8382, step time: 0.3651
Batch 111/248, train_loss: 0.2123, step time: 0.3699
Batch 112/248, train_loss: 0.2802, step time: 0.3473
Batch 113/248, train_loss: 0.9999, step time: 0.3501
Batch 114/248, train_loss: 0.2324, step time: 0.3581
Batch 115/248, train_loss: 0.6233, step time: 0.3651
Batch 116/248, train_loss: 0.1773, step time: 0.3684
Batch 117/248, train_loss: 0.9957, step time: 0.3620
Batch 118/248, train_loss: 0.9661, step time: 0.3562
Batch 119/248, train_loss: 0.6693, step time: 0.3827
Batch 120/248, train_loss: 0.7141, step time: 0.3868
Batch 121/248, train_loss: 0.9224, step time: 0.3530
Batch 122/248, train_loss: 0.9576, step time: 0.3763
Batch 123/248, train_loss: 0.3411, step time: 0.3604
Batch 124/248, train_loss: 0.9513, step time: 0.3553
Batch 125/248, train_loss: 0.9901, step time: 0.3718
Batch 126/248, train_loss: 0.3906, step time: 0.3711
Batch 127/248, train_loss: 0.6652, step time: 0.3726
Batch 128/248, train_loss: 0.8586, step time: 0.3638
Batch 129/248, train_loss: 0.1781, step time: 0.3523
Batch 130/248, train_loss: 0.1977, step time: 0.3651
Batch 131/248, train_loss: 0.9446, step time: 0.3772
Batch 132/248, train_loss: 0.9542, step time: 0.3847
Batch 133/248, train_loss: 0.2063, step time: 0.3809
Batch 134/248, train_loss: 1.0000, step time: 0.3498
Batch 135/248, train_loss: 0.9700, step time: 0.3451
Batch 136/248, train_loss: 0.8085, step time: 0.3434
Batch 137/248, train_loss: 0.1815, step time: 0.3649
Batch 138/248, train_loss: 0.1804, step time: 0.3449
Batch 139/248, train_loss: 0.2762, step time: 0.3422
Batch 140/248, train_loss: 0.7995, step time: 0.3685
Batch 141/248, train_loss: 0.3693, step time: 0.3699
Batch 142/248, train_loss: 0.9927, step time: 0.3489
Batch 143/248, train_loss: 0.8211, step time: 0.3435
Batch 144/248, train_loss: 0.2482, step time: 0.3824
Batch 145/248, train_loss: 0.1139, step time: 0.3663
Batch 146/248, train_loss: 0.9975, step time: 0.3800
Batch 147/248, train_loss: 0.0827, step time: 0.3503
Batch 148/248, train_loss: 0.9641, step time: 0.3721
Batch 149/248, train_loss: 0.5964, step time: 0.3767

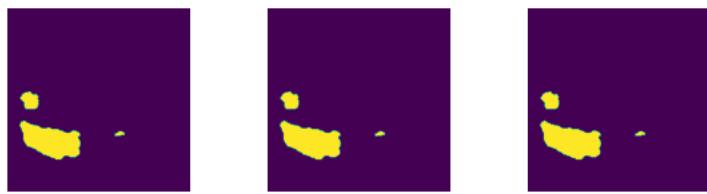
Batch 125/248, train_loss: 0.5555, step time: 0.3553
Batch 150/248, train_loss: 0.5717, step time: 0.3625
Batch 151/248, train_loss: 0.9559, step time: 0.3553
Batch 152/248, train_loss: 0.0832, step time: 0.3650
Batch 153/248, train_loss: 0.9319, step time: 0.3765
Batch 154/248, train_loss: 0.9844, step time: 0.3834
Batch 155/248, train_loss: 0.6253, step time: 0.3468
Batch 156/248, train_loss: 0.6508, step time: 0.3634
Batch 157/248, train_loss: 0.4121, step time: 0.3518
Batch 158/248, train_loss: 0.9993, step time: 0.3643
Batch 159/248, train_loss: 0.9944, step time: 0.3793
Batch 160/248, train_loss: 0.3639, step time: 0.3781
Batch 161/248, train_loss: 0.6045, step time: 0.3768
Batch 162/248, train_loss: 0.1290, step time: 0.3466
Batch 163/248, train_loss: 0.9649, step time: 0.3423
Batch 164/248, train_loss: 0.6924, step time: 0.3496
Batch 165/248, train_loss: 0.9990, step time: 0.3612
Batch 166/248, train_loss: 0.9192, step time: 0.3654
Batch 167/248, train_loss: 0.7079, step time: 0.3533
Batch 168/248, train_loss: 0.6623, step time: 0.3767
Batch 169/248, train_loss: 0.3788, step time: 0.3474
Batch 170/248, train_loss: 0.9828, step time: 0.3543
Batch 171/248, train_loss: 0.1233, step time: 0.3805
Batch 172/248, train_loss: 0.9993, step time: 0.3452
Batch 173/248, train_loss: 0.1777, step time: 0.3640
Batch 174/248, train_loss: 0.9859, step time: 0.3831
Batch 175/248, train_loss: 0.2322, step time: 0.3506
Batch 176/248, train_loss: 0.8065, step time: 0.3476
Batch 177/248, train_loss: 0.9980, step time: 0.3687
Batch 178/248, train_loss: 0.4031, step time: 0.3771
Batch 179/248, train_loss: 0.1320, step time: 0.3738
Batch 180/248, train_loss: 0.6516, step time: 0.3801
Batch 181/248, train_loss: 0.1682, step time: 0.3525
Batch 182/248, train_loss: 0.9544, step time: 0.3790
Batch 183/248, train_loss: 0.6635, step time: 0.3785
Batch 184/248, train_loss: 0.9319, step time: 0.3414
Batch 185/248, train_loss: 0.6505, step time: 0.3831
Batch 186/248, train_loss: 0.3711, step time: 0.3817
Batch 187/248, train_loss: 0.4082, step time: 0.3704
Batch 188/248, train_loss: 0.6836, step time: 0.3810
Batch 189/248, train_loss: 0.9982, step time: 0.3793
Batch 190/248, train_loss: 0.4760, step time: 0.3656
Batch 191/248, train_loss: 0.9983, step time: 0.3540
Batch 192/248, train_loss: 0.5158, step time: 0.3841
Batch 193/248, train_loss: 0.8302, step time: 0.3472
Batch 194/248, train_loss: 0.7651, step time: 0.3471
Batch 195/248, train_loss: 0.9996, step time: 0.3815
Batch 196/248, train_loss: 0.9999, step time: 0.3757
Batch 197/248, train_loss: 0.8727, step time: 0.3480
Batch 198/248, train_loss: 0.9999, step time: 0.3729
Batch 199/248, train_loss: 0.7010, step time: 0.3448
Batch 200/248, train_loss: 0.6085, step time: 0.3737
Batch 201/248, train_loss: 0.3644, step time: 0.3473
Batch 202/248, train_loss: 0.8281, step time: 0.3592
Batch 203/248, train_loss: 0.9914, step time: 0.3558
Batch 204/248, train_loss: 0.1778, step time: 0.3813
Batch 205/248, train_loss: 0.9341, step time: 0.3482
Batch 206/248, train_loss: 0.9953, step time: 0.3782
Batch 207/248, train_loss: 0.2763, step time: 0.3853
Batch 208/248, train_loss: 0.6258, step time: 0.3488
Batch 209/248, train_loss: 0.5070, step time: 0.3491
Batch 210/248, train_loss: 0.2337, step time: 0.3514
Batch 211/248, train_loss: 0.2510, step time: 0.3475
Batch 212/248, train_loss: 0.8452, step time: 0.3505
Batch 213/248, train_loss: 0.8035, step time: 0.3444
Batch 214/248, train_loss: 0.4360, step time: 0.3819
Batch 215/248, train_loss: 0.8715, step time: 0.3446
Batch 216/248, train_loss: 0.3216, step time: 0.3768
Batch 217/248, train_loss: 0.9345, step time: 0.3547
Batch 218/248, train_loss: 0.9975, step time: 0.3574
Batch 219/248, train_loss: 0.4187, step time: 0.3848
Batch 220/248, train_loss: 0.8673, step time: 0.3836
Batch 221/248, train_loss: 0.8707, step time: 0.3834
Batch 222/248, train_loss: 0.3584, step time: 0.3552
Batch 223/248, train_loss: 0.1137, step time: 0.3566
Batch 224/248, train_loss: 0.2258, step time: 0.3709
Batch 225/248, train_loss: 0.9863, step time: 0.3857
Batch 226/248, train_loss: 0.9792, step time: 0.3573
Batch 227/248, train_loss: 0.4395, step time: 0.3655
Batch 228/248, train_loss: 0.8495, step time: 0.3847
Batch 229/248, train_loss: 0.1717, step time: 0.3420
Batch 230/248, train_loss: 0.4356, step time: 0.3601
Batch 231/248, train_loss: 0.9984, step time: 0.3586
Batch 232/248, train_loss: 0.4185, step time: 0.3448
Batch 233/248, train_loss: 0.9999, step time: 0.3854

```
Batch 234/248, train_loss: 0.9894, step time: 0.3794
Batch 235/248, train_loss: 0.9851, step time: 0.3667
Batch 236/248, train_loss: 0.9993, step time: 0.3519
Batch 237/248, train_loss: 0.2434, step time: 0.3552
Batch 238/248, train_loss: 0.3387, step time: 0.3459
Batch 239/248, train_loss: 0.0950, step time: 0.3837
Batch 240/248, train_loss: 0.7929, step time: 0.3779
Batch 241/248, train_loss: 0.9995, step time: 0.3725
Batch 242/248, train_loss: 0.9134, step time: 0.3732
Batch 243/248, train_loss: 0.9972, step time: 0.3619
Batch 244/248, train_loss: 0.9786, step time: 0.3603
Batch 245/248, train_loss: 0.2897, step time: 0.3512
Batch 246/248, train_loss: 0.9813, step time: 0.3843
Batch 247/248, train_loss: 0.1263, step time: 0.3446
Batch 248/248, train_loss: 1.0000, step time: 0.3668
```

Labels



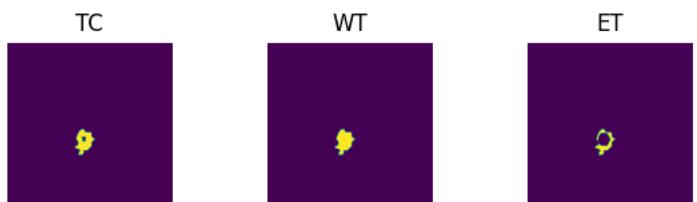
Predictions



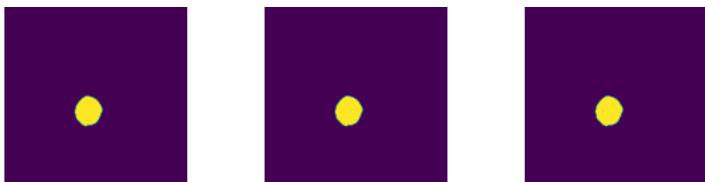
VAL

```
Batch 1/31, val_loss: 0.8945
Batch 2/31, val_loss: 0.9992
Batch 3/31, val_loss: 0.9959
Batch 4/31, val_loss: 0.9945
Batch 5/31, val_loss: 0.9998
Batch 6/31, val_loss: 0.7306
Batch 7/31, val_loss: 0.8780
Batch 8/31, val_loss: 0.9859
Batch 9/31, val_loss: 0.7309
Batch 10/31, val_loss: 0.9796
Batch 11/31, val_loss: 0.8812
Batch 12/31, val_loss: 0.9784
Batch 13/31, val_loss: 0.9941
Batch 14/31, val_loss: 0.9747
Batch 15/31, val_loss: 0.9962
Batch 16/31, val_loss: 0.9937
Batch 17/31, val_loss: 0.9992
Batch 18/31, val_loss: 0.9881
Batch 19/31, val_loss: 0.7928
Batch 20/31, val_loss: 0.8890
Batch 21/31, val_loss: 0.9411
Batch 22/31, val_loss: 0.9984
Batch 23/31, val_loss: 0.9932
Batch 24/31, val_loss: 0.7643
Batch 25/31, val_loss: 0.8307
Batch 26/31, val_loss: 0.9637
Batch 27/31, val_loss: 0.9992
Batch 28/31, val_loss: 0.8165
Batch 29/31, val_loss: 0.9986
Batch 30/31, val_loss: 0.9967
Batch 31/31, val_loss: 0.9954
```

Labels



Predictions



```
epoch 49
    average train loss: 0.6597
    average validation loss: 0.9347
    saved as best model: False
    current mean dice: 0.2721
    current TC dice: 0.2839
    current WT dice: 0.2887
    current ET dice: 0.2695
Best Mean Metric: 0.2725
time consuming of epoch 49 is: 1455.2238
```

```
epoch 50/100
```

```
TRAIN
```

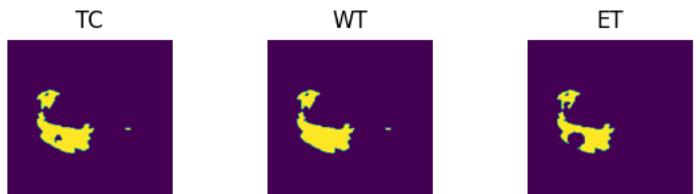
```
Batch 1/248, train_loss: 0.1316, step time: 0.3733
Batch 2/248, train_loss: 0.9985, step time: 0.3686
Batch 3/248, train_loss: 0.9573, step time: 0.3833
Batch 4/248, train_loss: 0.9996, step time: 0.3823
Batch 5/248, train_loss: 0.8202, step time: 0.3805
Batch 6/248, train_loss: 0.7842, step time: 0.3818
Batch 7/248, train_loss: 0.1238, step time: 0.3447
Batch 8/248, train_loss: 0.7569, step time: 0.3829
Batch 9/248, train_loss: 0.0950, step time: 0.3421
Batch 10/248, train_loss: 0.9143, step time: 0.3421
Batch 11/248, train_loss: 0.7999, step time: 0.3433
Batch 12/248, train_loss: 0.9981, step time: 0.3831
Batch 13/248, train_loss: 0.9645, step time: 0.3816
Batch 14/248, train_loss: 0.0922, step time: 0.3686
Batch 15/248, train_loss: 0.9060, step time: 0.3876
Batch 16/248, train_loss: 0.7507, step time: 0.3681
Batch 17/248, train_loss: 0.9916, step time: 0.3520
Batch 18/248, train_loss: 0.9777, step time: 0.3536
Batch 19/248, train_loss: 0.1860, step time: 0.3568
Batch 20/248, train_loss: 0.7270, step time: 0.3503
Batch 21/248, train_loss: 0.3203, step time: 0.3429
Batch 22/248, train_loss: 0.9999, step time: 0.3690
Batch 23/248, train_loss: 0.9993, step time: 0.3738
Batch 24/248, train_loss: 0.4150, step time: 0.3573
Batch 25/248, train_loss: 0.1218, step time: 0.3662
Batch 26/248, train_loss: 0.9837, step time: 0.3737
Batch 27/248, train_loss: 0.1205, step time: 0.3492
Batch 28/248, train_loss: 0.7271, step time: 0.3781
Batch 29/248, train_loss: 0.9930, step time: 0.3760
Batch 30/248, train_loss: 0.7725, step time: 0.3782
Batch 31/248, train_loss: 0.9069, step time: 0.3702
Batch 32/248, train_loss: 0.3389, step time: 0.3554
Batch 33/248, train_loss: 0.1385, step time: 0.3604
Batch 34/248, train_loss: 0.1352, step time: 0.3463
Batch 35/248, train_loss: 0.3942, step time: 0.3414
Batch 36/248, train_loss: 0.9994, step time: 0.3480
Batch 37/248, train_loss: 0.5187, step time: 0.3430
Batch 38/248, train_loss: 0.8738, step time: 0.3742
Batch 39/248, train_loss: 0.5843, step time: 0.3479
Batch 40/248, train_loss: 0.9999, step time: 0.3516
Batch 41/248, train_loss: 0.3550, step time: 0.3766
Batch 42/248, train_loss: 0.2431, step time: 0.3706
Batch 43/248, train_loss: 0.1115, step time: 0.3623
Batch 44/248, train_loss: 0.6325, step time: 0.3425
Batch 45/248, train_loss: 0.8749, step time: 0.3443
Batch 46/248, train_loss: 0.5981, step time: 0.3839
Batch 47/248, train_loss: 0.7133, step time: 0.3583
Batch 48/248, train_loss: 0.6300, step time: 0.3593
Batch 49/248, train_loss: 0.9766, step time: 0.3462
Batch 50/248, train_loss: 0.7669, step time: 0.3521
Batch 51/248, train_loss: 0.7199, step time: 0.3852
Batch 52/248, train_loss: 0.5872, step time: 0.3738
Batch 53/248, train_loss: 0.8980, step time: 0.3717
Batch 54/248, train_loss: 0.7278, step time: 0.3788
Batch 55/248, train_loss: 0.9026, step time: 0.3580
Batch 56/248, train_loss: 0.7472, step time: 0.3845
Batch 57/248, train_loss: 0.7841, step time: 0.3701
Batch 58/248, train_loss: 0.3008, step time: 0.3674
Batch 59/248, train_loss: 0.4187, step time: 0.3857
Batch 60/248, train_loss: 0.2523, step time: 0.3559
Batch 61/248, train_loss: 0.4286, step time: 0.3753
Batch 62/248, train_loss: 0.9209, step time: 0.3841
Batch 63/248, train_loss: 0.9885, step time: 0.3850
Batch 64/248, train_loss: 0.9871, step time: 0.3692
```

Batch 54/248, train_loss: 0.5021, step time: 0.3600
Batch 65/248, train_loss: 0.7654, step time: 0.3436
Batch 66/248, train_loss: 0.7591, step time: 0.3632
Batch 67/248, train_loss: 0.1566, step time: 0.3456
Batch 68/248, train_loss: 0.2559, step time: 0.3824
Batch 69/248, train_loss: 0.9985, step time: 0.3487
Batch 70/248, train_loss: 0.3254, step time: 0.3441
Batch 71/248, train_loss: 0.2971, step time: 0.3472
Batch 72/248, train_loss: 0.2031, step time: 0.3671
Batch 73/248, train_loss: 0.2999, step time: 0.3589
Batch 74/248, train_loss: 0.9993, step time: 0.3646
Batch 75/248, train_loss: 0.3334, step time: 0.3452
Batch 76/248, train_loss: 0.9891, step time: 0.3453
Batch 77/248, train_loss: 0.9985, step time: 0.3792
Batch 78/248, train_loss: 0.5453, step time: 0.3811
Batch 79/248, train_loss: 0.7184, step time: 0.3852
Batch 80/248, train_loss: 0.8487, step time: 0.3604
Batch 81/248, train_loss: 0.8881, step time: 0.3824
Batch 82/248, train_loss: 0.2820, step time: 0.3628
Batch 83/248, train_loss: 0.9827, step time: 0.3822
Batch 84/248, train_loss: 0.7428, step time: 0.3458
Batch 85/248, train_loss: 0.9908, step time: 0.3877
Batch 86/248, train_loss: 0.5254, step time: 0.3792
Batch 87/248, train_loss: 0.9867, step time: 0.3506
Batch 88/248, train_loss: 0.9618, step time: 0.3483
Batch 89/248, train_loss: 0.1300, step time: 0.3448
Batch 90/248, train_loss: 0.7570, step time: 0.3700
Batch 91/248, train_loss: 0.9867, step time: 0.3657
Batch 92/248, train_loss: 0.7240, step time: 0.3450
Batch 93/248, train_loss: 0.2971, step time: 0.3584
Batch 94/248, train_loss: 0.9841, step time: 0.3839
Batch 95/248, train_loss: 0.5281, step time: 0.3419
Batch 96/248, train_loss: 0.4901, step time: 0.3816
Batch 97/248, train_loss: 0.9999, step time: 0.3508
Batch 98/248, train_loss: 0.2709, step time: 0.3646
Batch 99/248, train_loss: 0.9654, step time: 0.3416
Batch 100/248, train_loss: 0.9930, step time: 0.3733
Batch 101/248, train_loss: 0.0877, step time: 0.3552
Batch 102/248, train_loss: 0.6157, step time: 0.3449
Batch 103/248, train_loss: 0.9786, step time: 0.3654
Batch 104/248, train_loss: 0.5695, step time: 0.3532
Batch 105/248, train_loss: 0.1794, step time: 0.3549
Batch 106/248, train_loss: 0.7901, step time: 0.3744
Batch 107/248, train_loss: 0.9603, step time: 0.3442
Batch 108/248, train_loss: 0.9725, step time: 0.3629
Batch 109/248, train_loss: 0.9953, step time: 0.3421
Batch 110/248, train_loss: 0.8996, step time: 0.3769
Batch 111/248, train_loss: 0.2195, step time: 0.3826
Batch 112/248, train_loss: 0.2785, step time: 0.3870
Batch 113/248, train_loss: 0.9998, step time: 0.3787
Batch 114/248, train_loss: 0.2473, step time: 0.3518
Batch 115/248, train_loss: 0.6194, step time: 0.3642
Batch 116/248, train_loss: 0.1721, step time: 0.3429
Batch 117/248, train_loss: 0.9946, step time: 0.3822
Batch 118/248, train_loss: 0.9750, step time: 0.3628
Batch 119/248, train_loss: 0.6882, step time: 0.3881
Batch 120/248, train_loss: 0.7033, step time: 0.3793
Batch 121/248, train_loss: 0.9242, step time: 0.3711
Batch 122/248, train_loss: 0.9514, step time: 0.3795
Batch 123/248, train_loss: 0.3471, step time: 0.3792
Batch 124/248, train_loss: 0.9568, step time: 0.3404
Batch 125/248, train_loss: 0.9907, step time: 0.3423
Batch 126/248, train_loss: 0.4409, step time: 0.3466
Batch 127/248, train_loss: 0.6601, step time: 0.3719
Batch 128/248, train_loss: 0.8661, step time: 0.3485
Batch 129/248, train_loss: 0.1658, step time: 0.3493
Batch 130/248, train_loss: 0.1977, step time: 0.3862
Batch 131/248, train_loss: 0.9443, step time: 0.3554
Batch 132/248, train_loss: 0.9535, step time: 0.3608
Batch 133/248, train_loss: 0.1969, step time: 0.3816
Batch 134/248, train_loss: 1.0000, step time: 0.3828
Batch 135/248, train_loss: 0.9699, step time: 0.3710
Batch 136/248, train_loss: 0.8076, step time: 0.3455
Batch 137/248, train_loss: 0.1975, step time: 0.3502
Batch 138/248, train_loss: 0.1781, step time: 0.3679
Batch 139/248, train_loss: 0.2479, step time: 0.3626
Batch 140/248, train_loss: 0.7945, step time: 0.3612
Batch 141/248, train_loss: 0.3547, step time: 0.3828
Batch 142/248, train_loss: 0.9916, step time: 0.3800
Batch 143/248, train_loss: 0.8179, step time: 0.3850
Batch 144/248, train_loss: 0.2172, step time: 0.3727
Batch 145/248, train_loss: 0.1301, step time: 0.3423
Batch 146/248, train_loss: 0.9919, step time: 0.3562
Batch 147/248, train_loss: 0.0879, step time: 0.3632
Batch 148/248, train_loss: 0.9633, step time: 0.3783

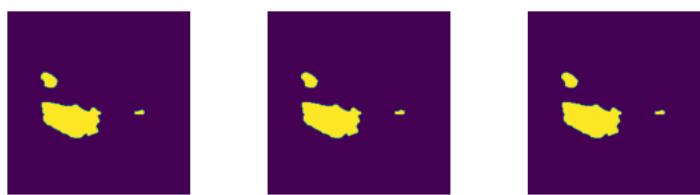
Batch 149/248, train_loss: 0.5886, step time: 0.3723
Batch 150/248, train_loss: 0.5615, step time: 0.3481
Batch 151/248, train_loss: 0.9638, step time: 0.3581
Batch 152/248, train_loss: 0.0847, step time: 0.3500
Batch 153/248, train_loss: 0.9395, step time: 0.3418
Batch 154/248, train_loss: 0.9848, step time: 0.3598
Batch 155/248, train_loss: 0.6437, step time: 0.3868
Batch 156/248, train_loss: 0.6555, step time: 0.3502
Batch 157/248, train_loss: 0.4168, step time: 0.3449
Batch 158/248, train_loss: 0.9995, step time: 0.3440
Batch 159/248, train_loss: 0.9955, step time: 0.3840
Batch 160/248, train_loss: 0.3657, step time: 0.3603
Batch 161/248, train_loss: 0.6060, step time: 0.3426
Batch 162/248, train_loss: 0.1241, step time: 0.3720
Batch 163/248, train_loss: 0.9639, step time: 0.3728
Batch 164/248, train_loss: 0.6692, step time: 0.3857
Batch 165/248, train_loss: 0.9986, step time: 0.3833
Batch 166/248, train_loss: 0.9109, step time: 0.3847
Batch 167/248, train_loss: 0.7108, step time: 0.3418
Batch 168/248, train_loss: 0.6650, step time: 0.3438
Batch 169/248, train_loss: 0.3710, step time: 0.3526
Batch 170/248, train_loss: 0.9865, step time: 0.3808
Batch 171/248, train_loss: 0.1272, step time: 0.3516
Batch 172/248, train_loss: 0.9984, step time: 0.3613
Batch 173/248, train_loss: 0.1604, step time: 0.3593
Batch 174/248, train_loss: 0.9859, step time: 0.3756
Batch 175/248, train_loss: 0.1990, step time: 0.3803
Batch 176/248, train_loss: 0.7952, step time: 0.3451
Batch 177/248, train_loss: 0.9940, step time: 0.3496
Batch 178/248, train_loss: 0.4051, step time: 0.3707
Batch 179/248, train_loss: 0.1328, step time: 0.3563
Batch 180/248, train_loss: 0.6432, step time: 0.3411
Batch 181/248, train_loss: 0.1689, step time: 0.3473
Batch 182/248, train_loss: 0.9507, step time: 0.3460
Batch 183/248, train_loss: 0.6319, step time: 0.3862
Batch 184/248, train_loss: 0.9254, step time: 0.3703
Batch 185/248, train_loss: 0.6450, step time: 0.3570
Batch 186/248, train_loss: 0.3583, step time: 0.3615
Batch 187/248, train_loss: 0.4012, step time: 0.3418
Batch 188/248, train_loss: 0.6779, step time: 0.3836
Batch 189/248, train_loss: 0.9991, step time: 0.3467
Batch 190/248, train_loss: 0.4487, step time: 0.3780
Batch 191/248, train_loss: 0.9974, step time: 0.3674
Batch 192/248, train_loss: 0.4598, step time: 0.3548
Batch 193/248, train_loss: 0.8239, step time: 0.3620
Batch 194/248, train_loss: 0.7665, step time: 0.3844
Batch 195/248, train_loss: 0.9996, step time: 0.3826
Batch 196/248, train_loss: 0.9999, step time: 0.3494
Batch 197/248, train_loss: 0.8678, step time: 0.3556
Batch 198/248, train_loss: 1.0000, step time: 0.3509
Batch 199/248, train_loss: 0.6869, step time: 0.3563
Batch 200/248, train_loss: 0.5987, step time: 0.3781
Batch 201/248, train_loss: 0.3643, step time: 0.3801
Batch 202/248, train_loss: 0.8235, step time: 0.3512
Batch 203/248, train_loss: 0.9929, step time: 0.3847
Batch 204/248, train_loss: 0.1650, step time: 0.3420
Batch 205/248, train_loss: 0.9242, step time: 0.3585
Batch 206/248, train_loss: 0.9953, step time: 0.3819
Batch 207/248, train_loss: 0.2300, step time: 0.3771
Batch 208/248, train_loss: 0.6119, step time: 0.3780
Batch 209/248, train_loss: 0.5005, step time: 0.3734
Batch 210/248, train_loss: 0.2203, step time: 0.3583
Batch 211/248, train_loss: 0.2438, step time: 0.3668
Batch 212/248, train_loss: 0.8303, step time: 0.3618
Batch 213/248, train_loss: 0.7984, step time: 0.3572
Batch 214/248, train_loss: 0.4251, step time: 0.3473
Batch 215/248, train_loss: 0.8733, step time: 0.3481
Batch 216/248, train_loss: 0.3235, step time: 0.3416
Batch 217/248, train_loss: 0.9329, step time: 0.3547
Batch 218/248, train_loss: 0.9964, step time: 0.3551
Batch 219/248, train_loss: 0.4025, step time: 0.3582
Batch 220/248, train_loss: 0.8654, step time: 0.3483
Batch 221/248, train_loss: 0.8636, step time: 0.3800
Batch 222/248, train_loss: 0.3379, step time: 0.3522
Batch 223/248, train_loss: 0.1160, step time: 0.3786
Batch 224/248, train_loss: 0.2272, step time: 0.3827
Batch 225/248, train_loss: 0.9872, step time: 0.3741
Batch 226/248, train_loss: 0.9270, step time: 0.3720
Batch 227/248, train_loss: 0.4344, step time: 0.3699
Batch 228/248, train_loss: 0.8420, step time: 0.3486
Batch 229/248, train_loss: 0.1864, step time: 0.3572
Batch 230/248, train_loss: 0.4202, step time: 0.3535
Batch 231/248, train_loss: 0.9984, step time: 0.3673
Batch 232/248, train_loss: 0.4135, step time: 0.3769
Batch 233/248, train_loss: 0.9999, step time: 0.3829

```
Batch 234/248, train_loss: 0.9883, step time: 0.3695
Batch 235/248, train_loss: 0.9798, step time: 0.3682
Batch 236/248, train_loss: 0.9991, step time: 0.3490
Batch 237/248, train_loss: 0.2443, step time: 0.3697
Batch 238/248, train_loss: 0.3336, step time: 0.3437
Batch 239/248, train_loss: 0.1258, step time: 0.3836
Batch 240/248, train_loss: 0.7871, step time: 0.3564
Batch 241/248, train_loss: 0.9999, step time: 0.3578
Batch 242/248, train_loss: 0.9083, step time: 0.3511
Batch 243/248, train_loss: 0.9988, step time: 0.3771
Batch 244/248, train_loss: 0.9789, step time: 0.3417
Batch 245/248, train_loss: 0.2804, step time: 0.3843
Batch 246/248, train_loss: 0.9977, step time: 0.3810
Batch 247/248, train_loss: 0.1418, step time: 0.3660
Batch 248/248, train_loss: 1.0000, step time: 0.3559
```

Labels



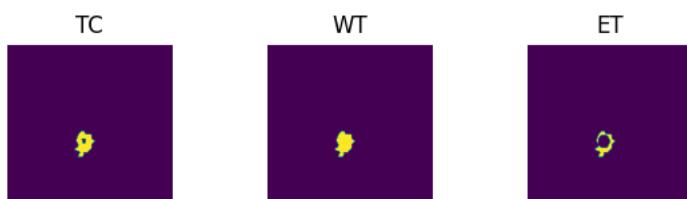
Predictions



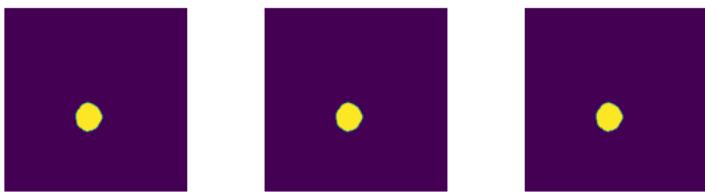
VAL

```
Batch 1/31, val_loss: 0.8863
Batch 2/31, val_loss: 0.9991
Batch 3/31, val_loss: 0.9979
Batch 4/31, val_loss: 0.9945
Batch 5/31, val_loss: 0.9998
Batch 6/31, val_loss: 0.7531
Batch 7/31, val_loss: 0.8690
Batch 8/31, val_loss: 0.9857
Batch 9/31, val_loss: 0.7285
Batch 10/31, val_loss: 0.9851
Batch 11/31, val_loss: 0.8794
Batch 12/31, val_loss: 0.9798
Batch 13/31, val_loss: 0.9963
Batch 14/31, val_loss: 0.9736
Batch 15/31, val_loss: 0.9980
Batch 16/31, val_loss: 0.9907
Batch 17/31, val_loss: 0.9992
Batch 18/31, val_loss: 0.9908
Batch 19/31, val_loss: 0.7920
Batch 20/31, val_loss: 0.8877
Batch 21/31, val_loss: 0.9422
Batch 22/31, val_loss: 0.9991
Batch 23/31, val_loss: 0.9939
Batch 24/31, val_loss: 0.7596
Batch 25/31, val_loss: 0.8295
Batch 26/31, val_loss: 0.9662
Batch 27/31, val_loss: 0.9986
Batch 28/31, val_loss: 0.8123
Batch 29/31, val_loss: 0.9974
Batch 30/31, val_loss: 0.9838
Batch 31/31, val_loss: 0.9953
```

Labels



Predictions



```
epoch 50
average train loss: 0.6542
average validation loss: 0.9343
saved as best model: True
current mean dice: 0.2762
current TC dice: 0.2881
current WT dice: 0.2928
current ET dice: 0.2741
Best Mean Metric: 0.2762
time consuming of epoch 50 is: 1445.8818
```

```
-----
```

```
epoch 51/100
```

```
TRAIN
```

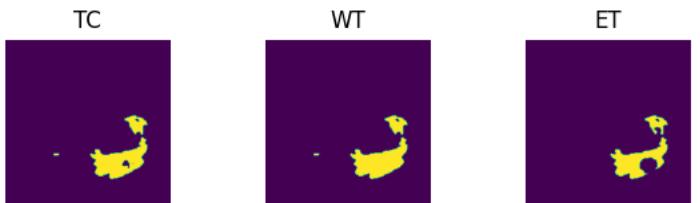
```
Batch 1/248, train_loss: 0.1437, step time: 0.3879
Batch 2/248, train_loss: 0.9983, step time: 0.3633
Batch 3/248, train_loss: 0.9538, step time: 0.3411
Batch 4/248, train_loss: 0.9998, step time: 0.3602
Batch 5/248, train_loss: 0.8210, step time: 0.3466
Batch 6/248, train_loss: 0.7765, step time: 0.3420
Batch 7/248, train_loss: 0.1145, step time: 0.3436
Batch 8/248, train_loss: 0.7578, step time: 0.3750
Batch 9/248, train_loss: 0.1008, step time: 0.3432
Batch 10/248, train_loss: 0.9134, step time: 0.3525
Batch 11/248, train_loss: 0.7903, step time: 0.3651
Batch 12/248, train_loss: 0.9916, step time: 0.3752
Batch 13/248, train_loss: 0.9646, step time: 0.3647
Batch 14/248, train_loss: 0.0829, step time: 0.3796
Batch 15/248, train_loss: 0.9036, step time: 0.3449
Batch 16/248, train_loss: 0.7457, step time: 0.3446
Batch 17/248, train_loss: 0.9933, step time: 0.3437
Batch 18/248, train_loss: 0.9734, step time: 0.3452
Batch 19/248, train_loss: 0.1936, step time: 0.3459
Batch 20/248, train_loss: 0.7265, step time: 0.3691
Batch 21/248, train_loss: 0.3082, step time: 0.3687
Batch 22/248, train_loss: 0.9999, step time: 0.3610
Batch 23/248, train_loss: 0.9997, step time: 0.3501
Batch 24/248, train_loss: 0.4031, step time: 0.3544
Batch 25/248, train_loss: 0.1242, step time: 0.3564
Batch 26/248, train_loss: 0.9892, step time: 0.3711
Batch 27/248, train_loss: 0.1210, step time: 0.3805
Batch 28/248, train_loss: 0.7288, step time: 0.3851
Batch 29/248, train_loss: 0.9898, step time: 0.3619
Batch 30/248, train_loss: 0.9540, step time: 0.3729
Batch 31/248, train_loss: 0.9029, step time: 0.3691
Batch 32/248, train_loss: 0.3421, step time: 0.3652
Batch 33/248, train_loss: 0.1317, step time: 0.3579
Batch 34/248, train_loss: 0.1272, step time: 0.3470
Batch 35/248, train_loss: 0.3782, step time: 0.3719
Batch 36/248, train_loss: 0.9984, step time: 0.3447
Batch 37/248, train_loss: 0.5424, step time: 0.3461
Batch 38/248, train_loss: 0.8712, step time: 0.3480
Batch 39/248, train_loss: 0.5920, step time: 0.3521
Batch 40/248, train_loss: 0.9994, step time: 0.3480
Batch 41/248, train_loss: 0.3422, step time: 0.3462
Batch 42/248, train_loss: 0.2394, step time: 0.3653
Batch 43/248, train_loss: 0.1040, step time: 0.3526
Batch 44/248, train_loss: 0.5493, step time: 0.3678
Batch 45/248, train_loss: 0.8883, step time: 0.3842
Batch 46/248, train_loss: 0.5848, step time: 0.3570
Batch 47/248, train_loss: 0.7039, step time: 0.3476
Batch 48/248, train_loss: 0.6215, step time: 0.3685
Batch 49/248, train_loss: 0.9706, step time: 0.3700
Batch 50/248, train_loss: 0.7638, step time: 0.3823
Batch 51/248, train_loss: 0.7155, step time: 0.3764
Batch 52/248, train_loss: 0.5855, step time: 0.3581
Batch 53/248, train_loss: 0.8980, step time: 0.3687
Batch 54/248, train_loss: 0.7196, step time: 0.3411
Batch 55/248, train_loss: 0.9013, step time: 0.3446
Batch 56/248, train_loss: 0.7453, step time: 0.3602
Batch 57/248, train_loss: 0.7675, step time: 0.3806
Batch 58/248, train_loss: 0.2941, step time: 0.3462
Batch 59/248, train_loss: 0.3980, step time: 0.3842
Batch 60/248, train_loss: 0.2458, step time: 0.3830
Batch 61/248, train_loss: 0.4068, step time: 0.3496
Batch 62/248, train_loss: 0.9235, step time: 0.3533
Batch 63/248, train_loss: 0.9896, step time: 0.3807
```

Batch 64/248, train_loss: 0.9800, step time: 0.3725
Batch 65/248, train_loss: 0.7654, step time: 0.3476
Batch 66/248, train_loss: 0.7568, step time: 0.3860
Batch 67/248, train_loss: 0.1521, step time: 0.3433
Batch 68/248, train_loss: 0.2526, step time: 0.3425
Batch 69/248, train_loss: 0.9967, step time: 0.3471
Batch 70/248, train_loss: 0.3055, step time: 0.3708
Batch 71/248, train_loss: 0.2489, step time: 0.3869
Batch 72/248, train_loss: 0.1930, step time: 0.3544
Batch 73/248, train_loss: 0.3254, step time: 0.3431
Batch 74/248, train_loss: 0.9994, step time: 0.3637
Batch 75/248, train_loss: 0.3191, step time: 0.3670
Batch 76/248, train_loss: 0.9910, step time: 0.3588
Batch 77/248, train_loss: 0.9995, step time: 0.3808
Batch 78/248, train_loss: 0.5354, step time: 0.3799
Batch 79/248, train_loss: 0.7059, step time: 0.3864
Batch 80/248, train_loss: 0.8250, step time: 0.3531
Batch 81/248, train_loss: 0.8903, step time: 0.3758
Batch 82/248, train_loss: 0.2814, step time: 0.3839
Batch 83/248, train_loss: 0.9847, step time: 0.3494
Batch 84/248, train_loss: 0.7369, step time: 0.3758
Batch 85/248, train_loss: 0.9886, step time: 0.3573
Batch 86/248, train_loss: 0.4411, step time: 0.3778
Batch 87/248, train_loss: 0.9875, step time: 0.3454
Batch 88/248, train_loss: 0.9789, step time: 0.3431
Batch 89/248, train_loss: 0.1328, step time: 0.3839
Batch 90/248, train_loss: 0.7883, step time: 0.3457
Batch 91/248, train_loss: 0.9865, step time: 0.3867
Batch 92/248, train_loss: 0.8139, step time: 0.3791
Batch 93/248, train_loss: 0.2864, step time: 0.3787
Batch 94/248, train_loss: 0.9850, step time: 0.3430
Batch 95/248, train_loss: 0.5198, step time: 0.3410
Batch 96/248, train_loss: 0.4904, step time: 0.3412
Batch 97/248, train_loss: 0.9999, step time: 0.3552
Batch 98/248, train_loss: 0.2471, step time: 0.3444
Batch 99/248, train_loss: 0.9587, step time: 0.3532
Batch 100/248, train_loss: 0.9925, step time: 0.3664
Batch 101/248, train_loss: 0.0900, step time: 0.3823
Batch 102/248, train_loss: 0.6168, step time: 0.3853
Batch 103/248, train_loss: 0.9816, step time: 0.3775
Batch 104/248, train_loss: 0.5518, step time: 0.3447
Batch 105/248, train_loss: 0.1853, step time: 0.3490
Batch 106/248, train_loss: 0.7868, step time: 0.3431
Batch 107/248, train_loss: 0.9541, step time: 0.3425
Batch 108/248, train_loss: 0.9735, step time: 0.3708
Batch 109/248, train_loss: 0.9977, step time: 0.3428
Batch 110/248, train_loss: 0.8354, step time: 0.3633
Batch 111/248, train_loss: 0.2073, step time: 0.3469
Batch 112/248, train_loss: 0.2780, step time: 0.3715
Batch 113/248, train_loss: 0.9998, step time: 0.3828
Batch 114/248, train_loss: 0.2287, step time: 0.3646
Batch 115/248, train_loss: 0.6059, step time: 0.3502
Batch 116/248, train_loss: 0.1543, step time: 0.3864
Batch 117/248, train_loss: 0.9944, step time: 0.3827
Batch 118/248, train_loss: 0.9584, step time: 0.3771
Batch 119/248, train_loss: 0.6787, step time: 0.3616
Batch 120/248, train_loss: 0.7010, step time: 0.3610
Batch 121/248, train_loss: 0.9076, step time: 0.3667
Batch 122/248, train_loss: 0.9501, step time: 0.3547
Batch 123/248, train_loss: 0.3210, step time: 0.3621
Batch 124/248, train_loss: 0.9441, step time: 0.3557
Batch 125/248, train_loss: 0.9956, step time: 0.3853
Batch 126/248, train_loss: 0.4476, step time: 0.3493
Batch 127/248, train_loss: 0.6627, step time: 0.3584
Batch 128/248, train_loss: 0.8618, step time: 0.3704
Batch 129/248, train_loss: 0.1714, step time: 0.3807
Batch 130/248, train_loss: 0.1959, step time: 0.3810
Batch 131/248, train_loss: 0.9443, step time: 0.3424
Batch 132/248, train_loss: 0.9525, step time: 0.3693
Batch 133/248, train_loss: 0.2200, step time: 0.3676
Batch 134/248, train_loss: 0.9998, step time: 0.3821
Batch 135/248, train_loss: 0.9802, step time: 0.3734
Batch 136/248, train_loss: 0.8045, step time: 0.3812
Batch 137/248, train_loss: 0.2468, step time: 0.3694
Batch 138/248, train_loss: 0.1692, step time: 0.3415
Batch 139/248, train_loss: 0.2707, step time: 0.3722
Batch 140/248, train_loss: 0.7845, step time: 0.3495
Batch 141/248, train_loss: 0.3681, step time: 0.3567
Batch 142/248, train_loss: 0.9947, step time: 0.3419
Batch 143/248, train_loss: 0.8101, step time: 0.3741
Batch 144/248, train_loss: 0.2232, step time: 0.3539
Batch 145/248, train_loss: 0.1558, step time: 0.3694
Batch 146/248, train_loss: 0.9975, step time: 0.3407
Batch 147/248, train_loss: 0.0897, step time: 0.3555
Batch 148/248, train_loss: 0.9603, step time: 0.3845

Batch 149/248, train_loss: 0.5766, step time: 0.3423
Batch 150/248, train_loss: 0.5655, step time: 0.3809
Batch 151/248, train_loss: 0.9547, step time: 0.3586
Batch 152/248, train_loss: 0.0830, step time: 0.3451
Batch 153/248, train_loss: 0.9300, step time: 0.3651
Batch 154/248, train_loss: 0.9839, step time: 0.3842
Batch 155/248, train_loss: 0.6325, step time: 0.3817
Batch 156/248, train_loss: 0.6620, step time: 0.3446
Batch 157/248, train_loss: 0.4170, step time: 0.3910
Batch 158/248, train_loss: 0.9993, step time: 0.3563
Batch 159/248, train_loss: 0.9976, step time: 0.3492
Batch 160/248, train_loss: 0.3557, step time: 0.3482
Batch 161/248, train_loss: 0.5911, step time: 0.3428
Batch 162/248, train_loss: 0.1459, step time: 0.3467
Batch 163/248, train_loss: 0.9634, step time: 0.3613
Batch 164/248, train_loss: 0.6781, step time: 0.3810
Batch 165/248, train_loss: 0.9992, step time: 0.3784
Batch 166/248, train_loss: 0.9067, step time: 0.3481
Batch 167/248, train_loss: 0.7171, step time: 0.3857
Batch 168/248, train_loss: 0.6519, step time: 0.3456
Batch 169/248, train_loss: 0.3579, step time: 0.3865
Batch 170/248, train_loss: 0.9911, step time: 0.3419
Batch 171/248, train_loss: 0.1191, step time: 0.3453
Batch 172/248, train_loss: 0.9994, step time: 0.3861
Batch 173/248, train_loss: 0.1930, step time: 0.3569
Batch 174/248, train_loss: 0.9831, step time: 0.3454
Batch 175/248, train_loss: 0.2348, step time: 0.3462
Batch 176/248, train_loss: 0.7992, step time: 0.3440
Batch 177/248, train_loss: 0.9917, step time: 0.3507
Batch 178/248, train_loss: 0.3914, step time: 0.3667
Batch 179/248, train_loss: 0.1324, step time: 0.3579
Batch 180/248, train_loss: 0.6375, step time: 0.3445
Batch 181/248, train_loss: 0.1673, step time: 0.3464
Batch 182/248, train_loss: 0.9539, step time: 0.3436
Batch 183/248, train_loss: 0.6280, step time: 0.3464
Batch 184/248, train_loss: 0.9223, step time: 0.3705
Batch 185/248, train_loss: 0.6264, step time: 0.3863
Batch 186/248, train_loss: 0.3465, step time: 0.3690
Batch 187/248, train_loss: 0.3945, step time: 0.3485
Batch 188/248, train_loss: 0.6688, step time: 0.3809
Batch 189/248, train_loss: 0.9992, step time: 0.3438
Batch 190/248, train_loss: 0.4555, step time: 0.3401
Batch 191/248, train_loss: 0.9959, step time: 0.3506
Batch 192/248, train_loss: 0.4578, step time: 0.3473
Batch 193/248, train_loss: 0.8177, step time: 0.3846
Batch 194/248, train_loss: 0.7625, step time: 0.3463
Batch 195/248, train_loss: 0.9996, step time: 0.3441
Batch 196/248, train_loss: 0.9999, step time: 0.3736
Batch 197/248, train_loss: 0.8673, step time: 0.3416
Batch 198/248, train_loss: 1.0000, step time: 0.3488
Batch 199/248, train_loss: 0.6919, step time: 0.3534
Batch 200/248, train_loss: 0.5908, step time: 0.3450
Batch 201/248, train_loss: 0.3506, step time: 0.3688
Batch 202/248, train_loss: 0.8158, step time: 0.3512
Batch 203/248, train_loss: 0.9909, step time: 0.3842
Batch 204/248, train_loss: 0.1650, step time: 0.3457
Batch 205/248, train_loss: 0.9353, step time: 0.3502
Batch 206/248, train_loss: 0.9955, step time: 0.3751
Batch 207/248, train_loss: 0.2274, step time: 0.3517
Batch 208/248, train_loss: 0.6048, step time: 0.3815
Batch 209/248, train_loss: 0.4892, step time: 0.3416
Batch 210/248, train_loss: 0.2116, step time: 0.3412
Batch 211/248, train_loss: 0.2363, step time: 0.3485
Batch 212/248, train_loss: 0.8133, step time: 0.3497
Batch 213/248, train_loss: 0.7925, step time: 0.3870
Batch 214/248, train_loss: 0.4153, step time: 0.3792
Batch 215/248, train_loss: 0.8699, step time: 0.3747
Batch 216/248, train_loss: 0.3176, step time: 0.3728
Batch 217/248, train_loss: 0.9341, step time: 0.3838
Batch 218/248, train_loss: 0.9956, step time: 0.3800
Batch 219/248, train_loss: 0.3947, step time: 0.3454
Batch 220/248, train_loss: 0.8629, step time: 0.3780
Batch 221/248, train_loss: 0.8602, step time: 0.3447
Batch 222/248, train_loss: 0.3475, step time: 0.3790
Batch 223/248, train_loss: 0.1107, step time: 0.3545
Batch 224/248, train_loss: 0.2152, step time: 0.3505
Batch 225/248, train_loss: 0.9863, step time: 0.3793
Batch 226/248, train_loss: 0.9326, step time: 0.3444
Batch 227/248, train_loss: 0.4234, step time: 0.3485
Batch 228/248, train_loss: 0.8410, step time: 0.3558
Batch 229/248, train_loss: 0.1683, step time: 0.3780
Batch 230/248, train_loss: 0.4062, step time: 0.3659
Batch 231/248, train_loss: 0.9990, step time: 0.3417
Batch 232/248, train_loss: 0.3925, step time: 0.3448
Batch 233/248, train_loss: 0.9999, step time: 0.3656

```
Batch 234/248, train_loss: 0.9890, step time: 0.3598
Batch 235/248, train_loss: 0.9898, step time: 0.3729
Batch 236/248, train_loss: 0.9987, step time: 0.3615
Batch 237/248, train_loss: 0.2412, step time: 0.3653
Batch 238/248, train_loss: 0.3131, step time: 0.3653
Batch 239/248, train_loss: 0.1030, step time: 0.3412
Batch 240/248, train_loss: 0.7963, step time: 0.3824
Batch 241/248, train_loss: 0.9999, step time: 0.3649
Batch 242/248, train_loss: 0.9069, step time: 0.3423
Batch 243/248, train_loss: 0.9977, step time: 0.3563
Batch 244/248, train_loss: 0.9742, step time: 0.3436
Batch 245/248, train_loss: 0.2673, step time: 0.3583
Batch 246/248, train_loss: 0.9800, step time: 0.3569
Batch 247/248, train_loss: 0.1285, step time: 0.3478
Batch 248/248, train_loss: 1.0000, step time: 0.3577
```

Labels



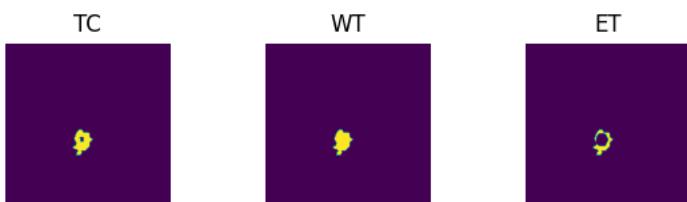
Predictions



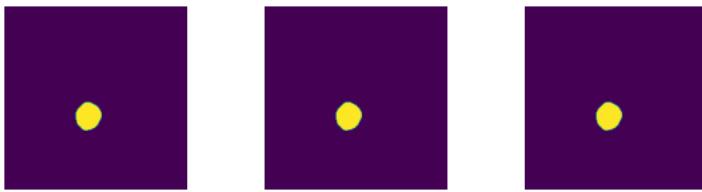
VAL

```
Batch 1/31, val_loss: 0.8896
Batch 2/31, val_loss: 0.9992
Batch 3/31, val_loss: 0.9966
Batch 4/31, val_loss: 0.9944
Batch 5/31, val_loss: 0.9998
Batch 6/31, val_loss: 0.7320
Batch 7/31, val_loss: 0.8671
Batch 8/31, val_loss: 0.9861
Batch 9/31, val_loss: 0.7241
Batch 10/31, val_loss: 0.9799
Batch 11/31, val_loss: 0.8772
Batch 12/31, val_loss: 0.9792
Batch 13/31, val_loss: 0.9936
Batch 14/31, val_loss: 0.9734
Batch 15/31, val_loss: 0.9993
Batch 16/31, val_loss: 0.9907
Batch 17/31, val_loss: 0.9993
Batch 18/31, val_loss: 0.9886
Batch 19/31, val_loss: 0.7939
Batch 20/31, val_loss: 0.8853
Batch 21/31, val_loss: 0.9412
Batch 22/31, val_loss: 0.9991
Batch 23/31, val_loss: 0.9930
Batch 24/31, val_loss: 0.7569
Batch 25/31, val_loss: 0.8283
Batch 26/31, val_loss: 0.9630
Batch 27/31, val_loss: 0.9988
Batch 28/31, val_loss: 0.8082
Batch 29/31, val_loss: 0.9988
Batch 30/31, val_loss: 0.9972
Batch 31/31, val_loss: 0.9952
```

Labels



Predictions



```
epoch 51
average train loss: 0.6517
average validation loss: 0.9332
saved as best model: True
current mean dice: 0.2802
current TC dice: 0.2924
current WT dice: 0.2977
current ET dice: 0.2772
Best Mean Metric: 0.2802
time consuming of epoch 51 is: 1450.6904
-----
```

```
epoch 52/100
```

```
TRAIN
```

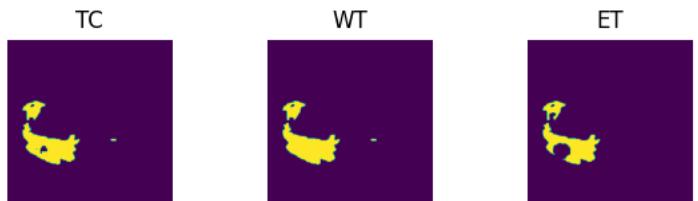
```
Batch 1/248, train_loss: 0.1370, step time: 0.3686
Batch 2/248, train_loss: 0.9996, step time: 0.3404
Batch 3/248, train_loss: 0.9541, step time: 0.3828
Batch 4/248, train_loss: 0.9998, step time: 0.3834
Batch 5/248, train_loss: 0.8065, step time: 0.3599
Batch 6/248, train_loss: 0.7682, step time: 0.3850
Batch 7/248, train_loss: 0.1151, step time: 0.3829
Batch 8/248, train_loss: 0.7513, step time: 0.3413
Batch 9/248, train_loss: 0.0909, step time: 0.3829
Batch 10/248, train_loss: 0.9089, step time: 0.3478
Batch 11/248, train_loss: 0.7828, step time: 0.3792
Batch 12/248, train_loss: 0.9923, step time: 0.3825
Batch 13/248, train_loss: 0.9540, step time: 0.3416
Batch 14/248, train_loss: 0.0848, step time: 0.3570
Batch 15/248, train_loss: 0.9060, step time: 0.3665
Batch 16/248, train_loss: 0.7361, step time: 0.3559
Batch 17/248, train_loss: 0.9925, step time: 0.3712
Batch 18/248, train_loss: 0.9744, step time: 0.3700
Batch 19/248, train_loss: 0.1901, step time: 0.3656
Batch 20/248, train_loss: 0.7243, step time: 0.3738
Batch 21/248, train_loss: 0.2981, step time: 0.3797
Batch 22/248, train_loss: 0.9998, step time: 0.3746
Batch 23/248, train_loss: 0.9995, step time: 0.3838
Batch 24/248, train_loss: 0.3970, step time: 0.3533
Batch 25/248, train_loss: 0.1222, step time: 0.3777
Batch 26/248, train_loss: 0.9800, step time: 0.3771
Batch 27/248, train_loss: 0.1154, step time: 0.3447
Batch 28/248, train_loss: 0.7111, step time: 0.3619
Batch 29/248, train_loss: 0.9926, step time: 0.3485
Batch 30/248, train_loss: 0.9264, step time: 0.3804
Batch 31/248, train_loss: 0.8976, step time: 0.3820
Batch 32/248, train_loss: 0.3235, step time: 0.3624
Batch 33/248, train_loss: 0.1177, step time: 0.3837
Batch 34/248, train_loss: 0.1253, step time: 0.3493
Batch 35/248, train_loss: 0.3671, step time: 0.3681
Batch 36/248, train_loss: 0.9992, step time: 0.3418
Batch 37/248, train_loss: 0.4971, step time: 0.3748
Batch 38/248, train_loss: 0.8706, step time: 0.3437
Batch 39/248, train_loss: 0.5706, step time: 0.3763
Batch 40/248, train_loss: 1.0000, step time: 0.3446
Batch 41/248, train_loss: 0.3394, step time: 0.3882
Batch 42/248, train_loss: 0.2254, step time: 0.3807
Batch 43/248, train_loss: 0.1146, step time: 0.3569
Batch 44/248, train_loss: 0.6031, step time: 0.3529
Batch 45/248, train_loss: 0.8692, step time: 0.3722
Batch 46/248, train_loss: 0.5702, step time: 0.3400
Batch 47/248, train_loss: 0.7132, step time: 0.3736
Batch 48/248, train_loss: 0.6122, step time: 0.3470
Batch 49/248, train_loss: 0.9737, step time: 0.3701
Batch 50/248, train_loss: 0.7582, step time: 0.3809
Batch 51/248, train_loss: 0.7064, step time: 0.3853
Batch 52/248, train_loss: 0.5697, step time: 0.3577
Batch 53/248, train_loss: 0.8913, step time: 0.3820
Batch 54/248, train_loss: 0.7151, step time: 0.3752
Batch 55/248, train_loss: 0.9008, step time: 0.3517
Batch 56/248, train_loss: 0.7721, step time: 0.3783
Batch 57/248, train_loss: 0.7702, step time: 0.3530
Batch 58/248, train_loss: 0.2839, step time: 0.3835
Batch 59/248, train_loss: 0.3939, step time: 0.3644
Batch 60/248, train_loss: 0.2386, step time: 0.3796
Batch 61/248, train_loss: 0.3985, step time: 0.3645
Batch 62/248, train_loss: 0.9248, step time: 0.3501
Batch 63/248, train loss: 0.9900, step time: 0.3587
```

Batch 64/248, train_loss: 0.9771, step time: 0.3520
Batch 65/248, train_loss: 0.7582, step time: 0.3830
Batch 66/248, train_loss: 0.7506, step time: 0.3617
Batch 67/248, train_loss: 0.1524, step time: 0.3406
Batch 68/248, train_loss: 0.2243, step time: 0.3548
Batch 69/248, train_loss: 0.9998, step time: 0.3427
Batch 70/248, train_loss: 0.3136, step time: 0.3703
Batch 71/248, train_loss: 0.3064, step time: 0.3855
Batch 72/248, train_loss: 0.1881, step time: 0.3830
Batch 73/248, train_loss: 0.3780, step time: 0.3525
Batch 74/248, train_loss: 0.9982, step time: 0.3779
Batch 75/248, train_loss: 0.3111, step time: 0.3461
Batch 76/248, train_loss: 0.9896, step time: 0.3675
Batch 77/248, train_loss: 0.9996, step time: 0.3684
Batch 78/248, train_loss: 0.5344, step time: 0.3890
Batch 79/248, train_loss: 0.7137, step time: 0.3744
Batch 80/248, train_loss: 0.8139, step time: 0.3405
Batch 81/248, train_loss: 0.8901, step time: 0.3497
Batch 82/248, train_loss: 0.2631, step time: 0.3691
Batch 83/248, train_loss: 0.9848, step time: 0.3616
Batch 84/248, train_loss: 0.7447, step time: 0.3661
Batch 85/248, train_loss: 0.9901, step time: 0.3848
Batch 86/248, train_loss: 0.5905, step time: 0.3461
Batch 87/248, train_loss: 0.9861, step time: 0.3449
Batch 88/248, train_loss: 0.9685, step time: 0.3438
Batch 89/248, train_loss: 0.1255, step time: 0.3833
Batch 90/248, train_loss: 0.8249, step time: 0.3498
Batch 91/248, train_loss: 0.9871, step time: 0.3429
Batch 92/248, train_loss: 0.7296, step time: 0.3448
Batch 93/248, train_loss: 0.2959, step time: 0.3759
Batch 94/248, train_loss: 0.9886, step time: 0.3482
Batch 95/248, train_loss: 0.5228, step time: 0.3705
Batch 96/248, train_loss: 0.4630, step time: 0.3786
Batch 97/248, train_loss: 0.9999, step time: 0.3586
Batch 98/248, train_loss: 0.2444, step time: 0.3785
Batch 99/248, train_loss: 0.9578, step time: 0.3792
Batch 100/248, train_loss: 0.9906, step time: 0.3801
Batch 101/248, train_loss: 0.0889, step time: 0.3461
Batch 102/248, train_loss: 0.6063, step time: 0.3616
Batch 103/248, train_loss: 0.9808, step time: 0.3471
Batch 104/248, train_loss: 0.5494, step time: 0.3797
Batch 105/248, train_loss: 0.1800, step time: 0.3773
Batch 106/248, train_loss: 0.7851, step time: 0.3758
Batch 107/248, train_loss: 0.9609, step time: 0.3720
Batch 108/248, train_loss: 0.9706, step time: 0.3705
Batch 109/248, train_loss: 0.9975, step time: 0.3702
Batch 110/248, train_loss: 0.8401, step time: 0.3429
Batch 111/248, train_loss: 0.2003, step time: 0.3842
Batch 112/248, train_loss: 0.2391, step time: 0.3770
Batch 113/248, train_loss: 0.9999, step time: 0.3608
Batch 114/248, train_loss: 0.2264, step time: 0.3468
Batch 115/248, train_loss: 0.6025, step time: 0.3842
Batch 116/248, train_loss: 0.1559, step time: 0.3549
Batch 117/248, train_loss: 0.9926, step time: 0.9135
Batch 118/248, train_loss: 0.9542, step time: 0.3433
Batch 119/248, train_loss: 0.6530, step time: 0.3512
Batch 120/248, train_loss: 0.6913, step time: 0.3551
Batch 121/248, train_loss: 0.9172, step time: 0.3444
Batch 122/248, train_loss: 0.9436, step time: 0.3421
Batch 123/248, train_loss: 0.3051, step time: 0.3420
Batch 124/248, train_loss: 0.9455, step time: 0.3444
Batch 125/248, train_loss: 0.9862, step time: 0.3760
Batch 126/248, train_loss: 0.3808, step time: 0.3447
Batch 127/248, train_loss: 0.6412, step time: 0.3731
Batch 128/248, train_loss: 0.8423, step time: 0.3670
Batch 129/248, train_loss: 0.1815, step time: 0.3701
Batch 130/248, train_loss: 0.2113, step time: 0.3705
Batch 131/248, train_loss: 0.9424, step time: 0.3764
Batch 132/248, train_loss: 0.9522, step time: 0.3672
Batch 133/248, train_loss: 0.2334, step time: 0.3763
Batch 134/248, train_loss: 1.0000, step time: 0.3480
Batch 135/248, train_loss: 0.9718, step time: 0.3844
Batch 136/248, train_loss: 0.7966, step time: 0.3736
Batch 137/248, train_loss: 0.1950, step time: 0.3870
Batch 138/248, train_loss: 0.1661, step time: 0.3702
Batch 139/248, train_loss: 0.2539, step time: 0.3730
Batch 140/248, train_loss: 0.7757, step time: 0.3476
Batch 141/248, train_loss: 0.3549, step time: 0.3616
Batch 142/248, train_loss: 0.9946, step time: 0.3628
Batch 143/248, train_loss: 0.8057, step time: 0.3752
Batch 144/248, train_loss: 0.2340, step time: 0.3656
Batch 145/248, train_loss: 0.1175, step time: 0.3428
Batch 146/248, train_loss: 0.9910, step time: 0.3559
Batch 147/248, train_loss: 0.0833, step time: 0.3486
Batch 148/248, train_loss: 0.9587, step time: 0.3722

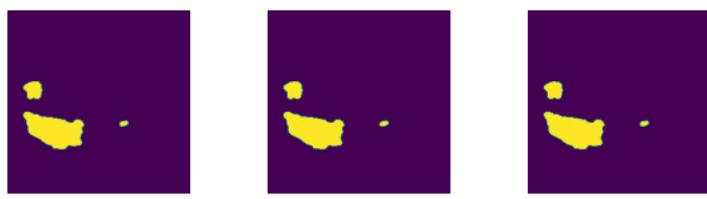
```
Batch 148/248, train_loss: 0.5505, step time: 0.3725
Batch 149/248, train_loss: 0.5668, step time: 0.3763
Batch 150/248, train_loss: 0.5472, step time: 0.3682
Batch 151/248, train_loss: 0.9488, step time: 0.3667
Batch 152/248, train_loss: 0.0795, step time: 0.3747
Batch 153/248, train_loss: 0.9280, step time: 0.3856
Batch 154/248, train_loss: 0.9828, step time: 0.3472
Batch 155/248, train_loss: 0.6105, step time: 0.3418
Batch 156/248, train_loss: 0.6371, step time: 0.3767
Batch 157/248, train_loss: 0.4094, step time: 0.3453
Batch 158/248, train_loss: 0.9994, step time: 0.3466
Batch 159/248, train_loss: 0.9960, step time: 0.3457
Batch 160/248, train_loss: 0.3313, step time: 0.3547
Batch 161/248, train_loss: 0.5862, step time: 0.3778
Batch 162/248, train_loss: 0.1320, step time: 0.3820
Batch 163/248, train_loss: 0.9629, step time: 0.3423
Batch 164/248, train_loss: 0.6560, step time: 0.3726
Batch 165/248, train_loss: 0.9980, step time: 0.3435
Batch 166/248, train_loss: 0.9005, step time: 0.3473
Batch 167/248, train_loss: 0.6992, step time: 0.3816
Batch 168/248, train_loss: 0.6456, step time: 0.3567
Batch 169/248, train_loss: 0.3452, step time: 0.3657
Batch 170/248, train_loss: 0.9866, step time: 0.3443
Batch 171/248, train_loss: 0.1230, step time: 0.3455
Batch 172/248, train_loss: 0.9985, step time: 0.3763
Batch 173/248, train_loss: 0.1850, step time: 0.3448
Batch 174/248, train_loss: 0.9981, step time: 0.3763
Batch 175/248, train_loss: 0.2024, step time: 0.3424
Batch 176/248, train_loss: 0.7902, step time: 0.3692
Batch 177/248, train_loss: 0.9976, step time: 0.3815
Batch 178/248, train_loss: 0.3944, step time: 0.3660
Batch 179/248, train_loss: 0.1337, step time: 0.3581
Batch 180/248, train_loss: 0.6327, step time: 0.3680
Batch 181/248, train_loss: 0.1609, step time: 0.3664
Batch 182/248, train_loss: 0.9510, step time: 0.3631
Batch 183/248, train_loss: 0.6256, step time: 0.3704
Batch 184/248, train_loss: 0.9219, step time: 0.3508
Batch 185/248, train_loss: 0.6228, step time: 0.3434
Batch 186/248, train_loss: 0.3493, step time: 0.3468
Batch 187/248, train_loss: 0.3862, step time: 0.3435
Batch 188/248, train_loss: 0.6646, step time: 0.3475
Batch 189/248, train_loss: 0.9992, step time: 0.3581
Batch 190/248, train_loss: 0.4324, step time: 0.3769
Batch 191/248, train_loss: 0.9986, step time: 0.3678
Batch 192/248, train_loss: 0.4284, step time: 0.3682
Batch 193/248, train_loss: 0.8183, step time: 0.3548
Batch 194/248, train_loss: 0.7503, step time: 0.3462
Batch 195/248, train_loss: 0.9989, step time: 0.3815
Batch 196/248, train_loss: 0.9999, step time: 0.3440
Batch 197/248, train_loss: 0.8616, step time: 0.3436
Batch 198/248, train_loss: 1.0000, step time: 0.3604
Batch 199/248, train_loss: 0.6685, step time: 0.3419
Batch 200/248, train_loss: 0.5806, step time: 0.3537
Batch 201/248, train_loss: 0.3317, step time: 0.3798
Batch 202/248, train_loss: 0.8173, step time: 0.3425
Batch 203/248, train_loss: 0.9898, step time: 0.3490
Batch 204/248, train_loss: 0.1688, step time: 0.3781
Batch 205/248, train_loss: 0.9151, step time: 0.3615
Batch 206/248, train_loss: 0.9956, step time: 0.3450
Batch 207/248, train_loss: 0.2178, step time: 0.3846
Batch 208/248, train_loss: 0.5905, step time: 0.3421
Batch 209/248, train_loss: 0.4922, step time: 0.3616
Batch 210/248, train_loss: 0.2070, step time: 0.3519
Batch 211/248, train_loss: 0.2320, step time: 0.3781
Batch 212/248, train_loss: 0.8172, step time: 0.3693
Batch 213/248, train_loss: 0.7864, step time: 0.3540
Batch 214/248, train_loss: 0.4032, step time: 0.3785
Batch 215/248, train_loss: 0.8603, step time: 0.3750
Batch 216/248, train_loss: 0.3012, step time: 0.3446
Batch 217/248, train_loss: 0.9299, step time: 0.3498
Batch 218/248, train_loss: 0.9948, step time: 0.3710
Batch 219/248, train_loss: 0.3800, step time: 0.3487
Batch 220/248, train_loss: 0.8583, step time: 0.3784
Batch 221/248, train_loss: 0.8469, step time: 0.3660
Batch 222/248, train_loss: 0.3507, step time: 0.3539
Batch 223/248, train_loss: 0.1053, step time: 0.3626
Batch 224/248, train_loss: 0.2150, step time: 0.3690
Batch 225/248, train_loss: 0.9851, step time: 0.3827
Batch 226/248, train_loss: 0.9599, step time: 0.3477
Batch 227/248, train_loss: 0.3951, step time: 0.3754
Batch 228/248, train_loss: 0.8468, step time: 0.3873
Batch 229/248, train_loss: 0.1641, step time: 0.3482
Batch 230/248, train_loss: 0.4021, step time: 0.3433
Batch 231/248, train_loss: 0.9982, step time: 0.3837
Batch 232/248, train_loss: 0.3828, step time: 0.3451
- - - - -
```

```
Batch 233/248, train_loss: 0.9998, step time: 0.35/8
Batch 234/248, train_loss: 0.9865, step time: 0.3563
Batch 235/248, train_loss: 0.9736, step time: 0.3652
Batch 236/248, train_loss: 0.9991, step time: 0.3815
Batch 237/248, train_loss: 0.2450, step time: 0.3549
Batch 238/248, train_loss: 0.2980, step time: 0.3620
Batch 239/248, train_loss: 0.0918, step time: 0.3471
Batch 240/248, train_loss: 0.7765, step time: 0.3478
Batch 241/248, train_loss: 0.9999, step time: 0.3829
Batch 242/248, train_loss: 0.9039, step time: 0.3599
Batch 243/248, train_loss: 0.9975, step time: 0.3624
Batch 244/248, train_loss: 0.9753, step time: 0.3431
Batch 245/248, train_loss: 0.2587, step time: 0.3852
Batch 246/248, train_loss: 0.9818, step time: 0.3608
Batch 247/248, train_loss: 0.1256, step time: 0.3469
Batch 248/248, train_loss: 1.0000, step time: 0.3804
```

Labels



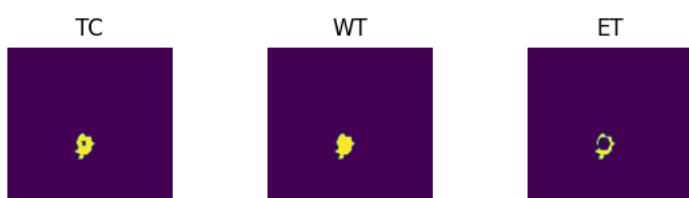
Predictions



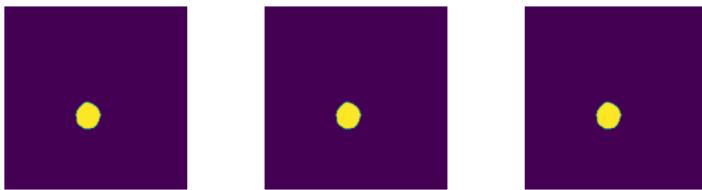
VAL

```
Batch 1/31, val_loss: 0.8912
Batch 2/31, val_loss: 0.9994
Batch 3/31, val_loss: 0.9942
Batch 4/31, val_loss: 0.9943
Batch 5/31, val_loss: 0.9999
Batch 6/31, val_loss: 0.7397
Batch 7/31, val_loss: 0.8651
Batch 8/31, val_loss: 0.9710
Batch 9/31, val_loss: 0.7286
Batch 10/31, val_loss: 0.9824
Batch 11/31, val_loss: 0.8742
Batch 12/31, val_loss: 0.9801
Batch 13/31, val_loss: 0.9901
Batch 14/31, val_loss: 0.9729
Batch 15/31, val_loss: 0.9995
Batch 16/31, val_loss: 0.9904
Batch 17/31, val_loss: 0.9990
Batch 18/31, val_loss: 0.9857
Batch 19/31, val_loss: 0.7919
Batch 20/31, val_loss: 0.8842
Batch 21/31, val_loss: 0.9424
Batch 22/31, val_loss: 0.9987
Batch 23/31, val_loss: 0.9947
Batch 24/31, val_loss: 0.7556
Batch 25/31, val_loss: 0.8266
Batch 26/31, val_loss: 0.9627
Batch 27/31, val_loss: 0.9990
Batch 28/31, val_loss: 0.8073
Batch 29/31, val_loss: 0.9985
Batch 30/31, val_loss: 0.9908
Batch 31/31, val_loss: 0.9952
```

Labels



Predictions



```
epoch 52
average train loss: 0.6472
average validation loss: 0.9324
saved as best model: True
current mean dice: 0.2862
current TC dice: 0.2987
current WT dice: 0.3040
current ET dice: 0.2833
Best Mean Metric: 0.2862
time consuming of epoch 52 is: 1450.3841
-----
```

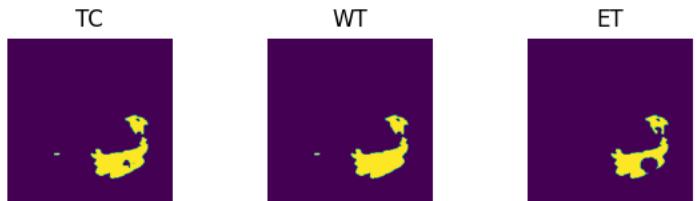
```
epoch 53/100
TRAIN
Batch 1/248, train_loss: 0.1285, step time: 0.3472
Batch 2/248, train_loss: 0.9981, step time: 0.3709
Batch 3/248, train_loss: 0.9550, step time: 0.3510
Batch 4/248, train_loss: 0.9995, step time: 0.3415
Batch 5/248, train_loss: 0.8193, step time: 0.3469
Batch 6/248, train_loss: 0.7942, step time: 0.3761
Batch 7/248, train_loss: 0.1174, step time: 0.3511
Batch 8/248, train_loss: 0.7544, step time: 0.3479
Batch 9/248, train_loss: 0.0908, step time: 0.3500
Batch 10/248, train_loss: 0.9086, step time: 0.3724
Batch 11/248, train_loss: 0.7789, step time: 0.3735
Batch 12/248, train_loss: 0.9991, step time: 0.3454
Batch 13/248, train_loss: 0.9550, step time: 0.3625
Batch 14/248, train_loss: 0.0834, step time: 0.3446
Batch 15/248, train_loss: 0.9007, step time: 0.3485
Batch 16/248, train_loss: 0.7346, step time: 0.3429
Batch 17/248, train_loss: 0.9947, step time: 0.3654
Batch 18/248, train_loss: 0.9710, step time: 0.3695
Batch 19/248, train_loss: 0.1843, step time: 0.3488
Batch 20/248, train_loss: 0.7184, step time: 0.3550
Batch 21/248, train_loss: 0.2895, step time: 0.3768
Batch 22/248, train_loss: 0.9999, step time: 0.3823
Batch 23/248, train_loss: 0.9998, step time: 0.3584
Batch 24/248, train_loss: 0.3872, step time: 0.3683
Batch 25/248, train_loss: 0.1205, step time: 0.3735
Batch 26/248, train_loss: 0.9794, step time: 0.3413
Batch 27/248, train_loss: 0.1139, step time: 0.3711
Batch 28/248, train_loss: 0.7145, step time: 0.3648
Batch 29/248, train_loss: 0.9883, step time: 0.3714
Batch 30/248, train_loss: 0.9535, step time: 0.3778
Batch 31/248, train_loss: 0.8983, step time: 0.3738
Batch 32/248, train_loss: 0.3151, step time: 0.3705
Batch 33/248, train_loss: 0.1452, step time: 0.3458
Batch 34/248, train_loss: 0.1195, step time: 0.3514
Batch 35/248, train_loss: 0.3574, step time: 0.3669
Batch 36/248, train_loss: 0.9993, step time: 0.3589
Batch 37/248, train_loss: 0.5232, step time: 0.3524
Batch 38/248, train_loss: 0.8618, step time: 0.3453
Batch 39/248, train_loss: 0.5564, step time: 0.3528
Batch 40/248, train_loss: 0.9984, step time: 0.3753
Batch 41/248, train_loss: 0.3392, step time: 0.3730
Batch 42/248, train_loss: 0.2315, step time: 0.3426
Batch 43/248, train_loss: 0.0922, step time: 0.3500
Batch 44/248, train_loss: 0.6076, step time: 0.3502
Batch 45/248, train_loss: 0.8605, step time: 0.3455
Batch 46/248, train_loss: 0.5582, step time: 0.3793
Batch 47/248, train_loss: 0.6945, step time: 0.3644
Batch 48/248, train_loss: 0.6366, step time: 0.3551
Batch 49/248, train_loss: 0.9672, step time: 0.3522
Batch 50/248, train_loss: 0.7633, step time: 0.3698
Batch 51/248, train_loss: 0.6978, step time: 0.3461
Batch 52/248, train_loss: 0.5591, step time: 0.3719
Batch 53/248, train_loss: 0.8967, step time: 0.3533
Batch 54/248, train_loss: 0.7151, step time: 0.3852
Batch 55/248, train_loss: 0.9002, step time: 0.3858
Batch 56/248, train_loss: 0.7663, step time: 0.3543
Batch 57/248, train_loss: 0.7586, step time: 0.3799
Batch 58/248, train_loss: 0.2760, step time: 0.3517
Batch 59/248, train_loss: 0.3795, step time: 0.3698
Batch 60/248, train_loss: 0.2326, step time: 0.3504
Batch 61/248, train_loss: 0.3988, step time: 0.3853
Batch 62/248, train_loss: 0.9184, step time: 0.3767
Batch 63/248, train_loss: 0.9827, step time: 0.3782
```

Batch 0/248, train_loss: 0.9057, step time: 0.3605
Batch 1/248, train_loss: 0.9778, step time: 0.3547
Batch 2/248, train_loss: 0.7581, step time: 0.3755
Batch 3/248, train_loss: 0.7456, step time: 0.3417
Batch 4/248, train_loss: 0.1469, step time: 0.3410
Batch 5/248, train_loss: 0.2293, step time: 0.3452
Batch 6/248, train_loss: 0.9981, step time: 0.3642
Batch 7/248, train_loss: 0.2899, step time: 0.3454
Batch 8/248, train_loss: 0.3177, step time: 0.3522
Batch 9/248, train_loss: 0.1864, step time: 0.3482
Batch 10/248, train_loss: 0.2912, step time: 0.3746
Batch 11/248, train_loss: 0.9968, step time: 0.3815
Batch 12/248, train_loss: 0.3053, step time: 0.3786
Batch 13/248, train_loss: 0.9882, step time: 0.3586
Batch 14/248, train_loss: 0.9995, step time: 0.3426
Batch 15/248, train_loss: 0.5213, step time: 0.3740
Batch 16/248, train_loss: 0.6999, step time: 0.3424
Batch 17/248, train_loss: 0.8123, step time: 0.3740
Batch 18/248, train_loss: 0.8747, step time: 0.3492
Batch 19/248, train_loss: 0.2521, step time: 0.3698
Batch 20/248, train_loss: 0.9832, step time: 0.3607
Batch 21/248, train_loss: 0.7350, step time: 0.3796
Batch 22/248, train_loss: 0.9885, step time: 0.3648
Batch 23/248, train_loss: 0.4772, step time: 0.3877
Batch 24/248, train_loss: 0.9799, step time: 0.3623
Batch 25/248, train_loss: 0.9829, step time: 0.3490
Batch 26/248, train_loss: 0.1261, step time: 0.3804
Batch 27/248, train_loss: 0.7809, step time: 0.3621
Batch 28/248, train_loss: 0.9863, step time: 0.3688
Batch 29/248, train_loss: 0.7625, step time: 0.3420
Batch 30/248, train_loss: 0.2851, step time: 0.3423
Batch 31/248, train_loss: 0.9909, step time: 0.3741
Batch 32/248, train_loss: 0.5022, step time: 0.3452
Batch 33/248, train_loss: 0.4722, step time: 0.3843
Batch 34/248, train_loss: 0.9999, step time: 0.3572
Batch 35/248, train_loss: 0.2630, step time: 0.3761
Batch 36/248, train_loss: 0.9617, step time: 0.3647
Batch 37/248, train_loss: 0.9933, step time: 0.3633
Batch 38/248, train_loss: 0.0901, step time: 0.3525
Batch 39/248, train_loss: 0.6126, step time: 0.3598
Batch 40/248, train_loss: 0.9899, step time: 0.3715
Batch 41/248, train_loss: 0.5394, step time: 0.3468
Batch 42/248, train_loss: 0.1926, step time: 0.3409
Batch 43/248, train_loss: 0.7796, step time: 0.3833
Batch 44/248, train_loss: 0.9597, step time: 0.3658
Batch 45/248, train_loss: 0.9766, step time: 0.3697
Batch 46/248, train_loss: 0.9971, step time: 0.3824
Batch 47/248, train_loss: 0.8364, step time: 0.3528
Batch 48/248, train_loss: 0.2076, step time: 0.3521
Batch 49/248, train_loss: 0.2831, step time: 0.3532
Batch 50/248, train_loss: 0.9997, step time: 0.3461
Batch 51/248, train_loss: 0.2284, step time: 0.3466
Batch 52/248, train_loss: 0.6352, step time: 0.3563
Batch 53/248, train_loss: 0.1761, step time: 0.3422
Batch 54/248, train_loss: 0.9928, step time: 0.3539
Batch 55/248, train_loss: 0.9763, step time: 0.3836
Batch 56/248, train_loss: 0.6769, step time: 0.3684
Batch 57/248, train_loss: 0.6921, step time: 0.3436
Batch 58/248, train_loss: 0.9082, step time: 0.3881
Batch 59/248, train_loss: 0.9439, step time: 0.3754
Batch 60/248, train_loss: 0.3069, step time: 0.3719
Batch 61/248, train_loss: 0.9515, step time: 0.3545
Batch 62/248, train_loss: 0.9887, step time: 0.3846
Batch 63/248, train_loss: 0.3401, step time: 0.3467
Batch 64/248, train_loss: 0.6403, step time: 0.3446
Batch 65/248, train_loss: 0.8486, step time: 0.3859
Batch 66/248, train_loss: 0.1855, step time: 0.3741
Batch 67/248, train_loss: 0.1962, step time: 0.3479
Batch 68/248, train_loss: 0.9408, step time: 0.3453
Batch 69/248, train_loss: 0.9585, step time: 0.3561
Batch 70/248, train_loss: 0.1924, step time: 0.3702
Batch 71/248, train_loss: 0.9999, step time: 0.3529
Batch 72/248, train_loss: 0.9681, step time: 0.3491
Batch 73/248, train_loss: 0.7950, step time: 0.3748
Batch 74/248, train_loss: 0.1783, step time: 0.3576
Batch 75/248, train_loss: 0.1611, step time: 0.3471
Batch 76/248, train_loss: 0.2454, step time: 0.3459
Batch 77/248, train_loss: 0.7847, step time: 0.3798
Batch 78/248, train_loss: 0.3642, step time: 0.3686
Batch 79/248, train_loss: 0.9971, step time: 0.3639
Batch 80/248, train_loss: 0.8044, step time: 0.3824
Batch 81/248, train_loss: 0.2319, step time: 0.3840
Batch 82/248, train_loss: 0.1455, step time: 0.3480
Batch 83/248, train_loss: 0.9969, step time: 0.3776
Batch 84/248, train_loss: 0.0984, step time: 0.3585

Batch 148/248, train_loss: 0.9735, step time: 0.3477
Batch 149/248, train_loss: 0.5597, step time: 0.3510
Batch 150/248, train_loss: 0.5251, step time: 0.3630
Batch 151/248, train_loss: 0.9464, step time: 0.3451
Batch 152/248, train_loss: 0.0791, step time: 0.3665
Batch 153/248, train_loss: 0.9287, step time: 0.3490
Batch 154/248, train_loss: 0.9827, step time: 0.3526
Batch 155/248, train_loss: 0.6162, step time: 0.3848
Batch 156/248, train_loss: 0.6242, step time: 0.3546
Batch 157/248, train_loss: 0.4187, step time: 0.3827
Batch 158/248, train_loss: 0.9995, step time: 0.3424
Batch 159/248, train_loss: 0.9949, step time: 0.3479
Batch 160/248, train_loss: 0.3379, step time: 0.3553
Batch 161/248, train_loss: 0.5735, step time: 0.3782
Batch 162/248, train_loss: 0.1461, step time: 0.3453
Batch 163/248, train_loss: 0.9588, step time: 0.3416
Batch 164/248, train_loss: 0.6591, step time: 0.3594
Batch 165/248, train_loss: 0.9979, step time: 0.3848
Batch 166/248, train_loss: 0.9058, step time: 0.3651
Batch 167/248, train_loss: 0.6972, step time: 0.3880
Batch 168/248, train_loss: 0.6384, step time: 0.3508
Batch 169/248, train_loss: 0.3404, step time: 0.3427
Batch 170/248, train_loss: 0.9817, step time: 0.3706
Batch 171/248, train_loss: 0.1244, step time: 0.3448
Batch 172/248, train_loss: 0.9998, step time: 0.3838
Batch 173/248, train_loss: 0.1711, step time: 0.3450
Batch 174/248, train_loss: 0.9865, step time: 0.3471
Batch 175/248, train_loss: 0.2103, step time: 0.3488
Batch 176/248, train_loss: 0.7951, step time: 0.3573
Batch 177/248, train_loss: 0.9923, step time: 0.3821
Batch 178/248, train_loss: 0.4101, step time: 0.3483
Batch 179/248, train_loss: 0.1297, step time: 0.3797
Batch 180/248, train_loss: 0.6259, step time: 0.3509
Batch 181/248, train_loss: 0.1556, step time: 0.3649
Batch 182/248, train_loss: 0.9463, step time: 0.3819
Batch 183/248, train_loss: 0.6207, step time: 0.3452
Batch 184/248, train_loss: 0.9196, step time: 0.3664
Batch 185/248, train_loss: 0.6134, step time: 0.3859
Batch 186/248, train_loss: 0.3325, step time: 0.3798
Batch 187/248, train_loss: 0.3791, step time: 0.3583
Batch 188/248, train_loss: 0.6555, step time: 0.3502
Batch 189/248, train_loss: 0.9985, step time: 0.3655
Batch 190/248, train_loss: 0.4403, step time: 0.3713
Batch 191/248, train_loss: 0.9980, step time: 0.3658
Batch 192/248, train_loss: 0.4633, step time: 0.3576
Batch 193/248, train_loss: 0.8089, step time: 0.3824
Batch 194/248, train_loss: 0.7555, step time: 0.3788
Batch 195/248, train_loss: 0.9984, step time: 0.3669
Batch 196/248, train_loss: 0.9999, step time: 0.3446
Batch 197/248, train_loss: 0.8570, step time: 0.3634
Batch 198/248, train_loss: 0.9999, step time: 0.3476
Batch 199/248, train_loss: 0.6700, step time: 0.3858
Batch 200/248, train_loss: 0.5791, step time: 0.3544
Batch 201/248, train_loss: 0.3300, step time: 0.3523
Batch 202/248, train_loss: 0.8158, step time: 0.3422
Batch 203/248, train_loss: 0.9942, step time: 0.3413
Batch 204/248, train_loss: 0.1570, step time: 0.3418
Batch 205/248, train_loss: 0.9158, step time: 0.3593
Batch 206/248, train_loss: 0.9956, step time: 0.3495
Batch 207/248, train_loss: 0.2103, step time: 0.3816
Batch 208/248, train_loss: 0.6027, step time: 0.3480
Batch 209/248, train_loss: 0.4619, step time: 0.3472
Batch 210/248, train_loss: 0.1981, step time: 0.3809
Batch 211/248, train_loss: 0.2177, step time: 0.3535
Batch 212/248, train_loss: 0.8034, step time: 0.3734
Batch 213/248, train_loss: 0.7840, step time: 0.3574
Batch 214/248, train_loss: 0.3928, step time: 0.3856
Batch 215/248, train_loss: 0.8531, step time: 0.3742
Batch 216/248, train_loss: 0.3107, step time: 0.3807
Batch 217/248, train_loss: 0.9276, step time: 0.3459
Batch 218/248, train_loss: 0.9954, step time: 0.3658
Batch 219/248, train_loss: 0.3720, step time: 0.3676
Batch 220/248, train_loss: 0.8567, step time: 0.3412
Batch 221/248, train_loss: 0.8481, step time: 0.3538
Batch 222/248, train_loss: 0.3417, step time: 0.3751
Batch 223/248, train_loss: 0.1096, step time: 0.3415
Batch 224/248, train_loss: 0.2070, step time: 0.3429
Batch 225/248, train_loss: 0.9865, step time: 0.3587
Batch 226/248, train_loss: 0.9360, step time: 0.3818
Batch 227/248, train_loss: 0.3952, step time: 0.3791
Batch 228/248, train_loss: 0.8427, step time: 0.3414
Batch 229/248, train_loss: 0.1591, step time: 0.3422
Batch 230/248, train_loss: 0.3877, step time: 0.3661
Batch 231/248, train_loss: 0.9939, step time: 0.3636
Batch 232/248, train_loss: 0.3749, step time: 0.3702

```
Batch 233/248, train_loss: 0.9997, step time: 0.3519
Batch 234/248, train_loss: 0.9778, step time: 0.3454
Batch 235/248, train_loss: 0.9782, step time: 0.3529
Batch 236/248, train_loss: 0.9980, step time: 0.3808
Batch 237/248, train_loss: 0.2358, step time: 0.3699
Batch 238/248, train_loss: 0.2924, step time: 0.3673
Batch 239/248, train_loss: 0.1024, step time: 0.3819
Batch 240/248, train_loss: 0.7781, step time: 0.3536
Batch 241/248, train_loss: 0.9994, step time: 0.3704
Batch 242/248, train_loss: 0.9048, step time: 0.3568
Batch 243/248, train_loss: 0.9964, step time: 0.3494
Batch 244/248, train_loss: 0.9727, step time: 0.3634
Batch 245/248, train_loss: 0.2505, step time: 0.3529
Batch 246/248, train_loss: 0.9825, step time: 0.3418
Batch 247/248, train_loss: 0.1262, step time: 0.3509
Batch 248/248, train_loss: 1.0000, step time: 0.3454
```

Labels



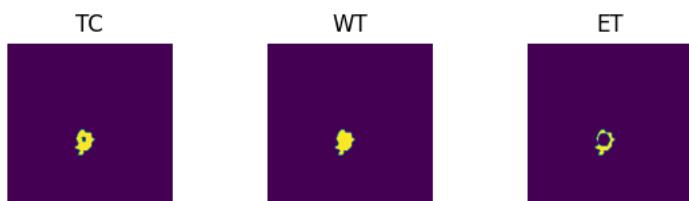
Predictions



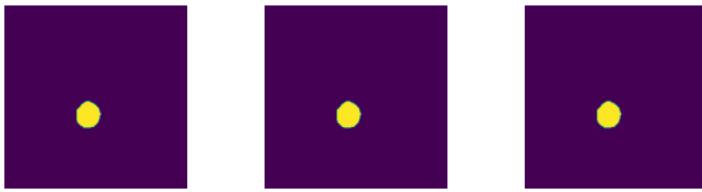
VAL

```
Batch 1/31, val_loss: 0.8904
Batch 2/31, val_loss: 0.9993
Batch 3/31, val_loss: 0.9965
Batch 4/31, val_loss: 0.9941
Batch 5/31, val_loss: 0.9998
Batch 6/31, val_loss: 0.7383
Batch 7/31, val_loss: 0.8655
Batch 8/31, val_loss: 0.9876
Batch 9/31, val_loss: 0.7293
Batch 10/31, val_loss: 0.9762
Batch 11/31, val_loss: 0.8742
Batch 12/31, val_loss: 0.9777
Batch 13/31, val_loss: 0.9907
Batch 14/31, val_loss: 0.9717
Batch 15/31, val_loss: 0.9992
Batch 16/31, val_loss: 0.9895
Batch 17/31, val_loss: 0.9992
Batch 18/31, val_loss: 0.9879
Batch 19/31, val_loss: 0.7933
Batch 20/31, val_loss: 0.8862
Batch 21/31, val_loss: 0.9400
Batch 22/31, val_loss: 0.9993
Batch 23/31, val_loss: 0.9924
Batch 24/31, val_loss: 0.7567
Batch 25/31, val_loss: 0.8263
Batch 26/31, val_loss: 0.9620
Batch 27/31, val_loss: 0.9985
Batch 28/31, val_loss: 0.8040
Batch 29/31, val_loss: 0.9988
Batch 30/31, val_loss: 0.9962
Batch 31/31, val_loss: 0.9950
```

Labels



Predictions



```
epoch 53
average train loss: 0.6452
average validation loss: 0.9328
saved as best model: False
current mean dice: 0.2844
current TC dice: 0.2968
current WT dice: 0.3022
current ET dice: 0.2812
Best Mean Metric: 0.2862
time consuming of epoch 53 is: 1446.2351
```

```
-----  
epoch 54/100  
TRAIN
```

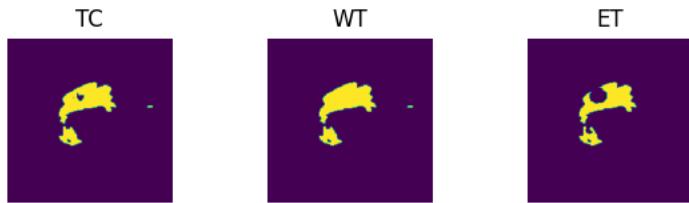
```
Batch 1/248, train_loss: 0.1294, step time: 0.3614
Batch 2/248, train_loss: 0.9993, step time: 0.3695
Batch 3/248, train_loss: 0.9537, step time: 0.3826
Batch 4/248, train_loss: 0.9995, step time: 0.3840
Batch 5/248, train_loss: 0.8115, step time: 0.3477
Batch 6/248, train_loss: 0.7604, step time: 0.3428
Batch 7/248, train_loss: 0.1151, step time: 0.3573
Batch 8/248, train_loss: 0.7621, step time: 0.3552
Batch 9/248, train_loss: 0.0901, step time: 0.3812
Batch 10/248, train_loss: 0.9050, step time: 0.3473
Batch 11/248, train_loss: 0.7748, step time: 0.3709
Batch 12/248, train_loss: 0.9897, step time: 0.3453
Batch 13/248, train_loss: 0.9532, step time: 0.3805
Batch 14/248, train_loss: 0.0808, step time: 0.3561
Batch 15/248, train_loss: 0.8985, step time: 0.3519
Batch 16/248, train_loss: 0.7232, step time: 0.3797
Batch 17/248, train_loss: 0.9949, step time: 0.3630
Batch 18/248, train_loss: 0.9758, step time: 0.3612
Batch 19/248, train_loss: 0.1714, step time: 0.3654
Batch 20/248, train_loss: 0.7085, step time: 0.3724
Batch 21/248, train_loss: 0.2773, step time: 0.3807
Batch 22/248, train_loss: 0.9998, step time: 0.3703
Batch 23/248, train_loss: 0.9984, step time: 0.3595
Batch 24/248, train_loss: 0.3768, step time: 0.3525
Batch 25/248, train_loss: 0.1223, step time: 0.3452
Batch 26/248, train_loss: 0.9750, step time: 0.3683
Batch 27/248, train_loss: 0.1153, step time: 0.3457
Batch 28/248, train_loss: 0.6989, step time: 0.3592
Batch 29/248, train_loss: 0.9899, step time: 0.3845
Batch 30/248, train_loss: 0.7480, step time: 0.3829
Batch 31/248, train_loss: 0.8961, step time: 0.3716
Batch 32/248, train_loss: 0.3230, step time: 0.3860
Batch 33/248, train_loss: 0.1095, step time: 0.3428
Batch 34/248, train_loss: 0.1208, step time: 0.3451
Batch 35/248, train_loss: 0.3452, step time: 0.3661
Batch 36/248, train_loss: 0.9951, step time: 0.3560
Batch 37/248, train_loss: 0.4970, step time: 0.3878
Batch 38/248, train_loss: 0.8588, step time: 0.3665
Batch 39/248, train_loss: 0.5448, step time: 0.3822
Batch 40/248, train_loss: 1.0000, step time: 0.3698
Batch 41/248, train_loss: 0.3387, step time: 0.3539
Batch 42/248, train_loss: 0.2185, step time: 0.3564
Batch 43/248, train_loss: 0.0975, step time: 0.3855
Batch 44/248, train_loss: 0.5863, step time: 0.3828
Batch 45/248, train_loss: 0.8527, step time: 0.3816
Batch 46/248, train_loss: 0.5749, step time: 0.3520
Batch 47/248, train_loss: 0.6973, step time: 0.3718
Batch 48/248, train_loss: 0.5904, step time: 0.3410
Batch 49/248, train_loss: 0.9759, step time: 0.3790
Batch 50/248, train_loss: 0.7505, step time: 0.3518
Batch 51/248, train_loss: 0.7133, step time: 0.3695
Batch 52/248, train_loss: 0.5565, step time: 0.3412
Batch 53/248, train_loss: 0.8904, step time: 0.3473
Batch 54/248, train_loss: 0.7096, step time: 0.3439
Batch 55/248, train_loss: 0.9010, step time: 0.3457
Batch 56/248, train_loss: 0.7289, step time: 0.3693
Batch 57/248, train_loss: 0.7536, step time: 0.3638
Batch 58/248, train_loss: 0.2595, step time: 0.3617
Batch 59/248, train_loss: 0.3654, step time: 0.3519
Batch 60/248, train_loss: 0.2369, step time: 0.3534
Batch 61/248, train_loss: 0.3855, step time: 0.3622
Batch 62/248, train_loss: 0.9137, step time: 0.3434
```

Batch 63/248, train_loss: 0.9854, step time: 0.3458
Batch 64/248, train_loss: 0.9794, step time: 0.3418
Batch 65/248, train_loss: 0.7481, step time: 0.3750
Batch 66/248, train_loss: 0.7334, step time: 0.3652
Batch 67/248, train_loss: 0.1428, step time: 0.3689
Batch 68/248, train_loss: 0.2390, step time: 0.3512
Batch 69/248, train_loss: 0.9993, step time: 0.3457
Batch 70/248, train_loss: 0.2890, step time: 0.3851
Batch 71/248, train_loss: 0.3026, step time: 0.3520
Batch 72/248, train_loss: 0.1839, step time: 0.3474
Batch 73/248, train_loss: 0.2595, step time: 0.3580
Batch 74/248, train_loss: 0.9983, step time: 0.3741
Batch 75/248, train_loss: 0.3053, step time: 0.3749
Batch 76/248, train_loss: 0.9879, step time: 0.3809
Batch 77/248, train_loss: 0.9978, step time: 0.3468
Batch 78/248, train_loss: 0.5051, step time: 0.3826
Batch 79/248, train_loss: 0.6865, step time: 0.3449
Batch 80/248, train_loss: 0.8093, step time: 0.3499
Batch 81/248, train_loss: 0.8686, step time: 0.3569
Batch 82/248, train_loss: 0.2508, step time: 0.3645
Batch 83/248, train_loss: 0.9844, step time: 0.3832
Batch 84/248, train_loss: 0.7254, step time: 0.3690
Batch 85/248, train_loss: 0.9859, step time: 0.3748
Batch 86/248, train_loss: 0.4275, step time: 0.3624
Batch 87/248, train_loss: 0.9808, step time: 0.3542
Batch 88/248, train_loss: 0.9766, step time: 0.3694
Batch 89/248, train_loss: 0.1211, step time: 0.3748
Batch 90/248, train_loss: 0.7623, step time: 0.3481
Batch 91/248, train_loss: 0.9883, step time: 0.3691
Batch 92/248, train_loss: 0.7703, step time: 0.3723
Batch 93/248, train_loss: 0.2743, step time: 0.3685
Batch 94/248, train_loss: 0.9839, step time: 0.3519
Batch 95/248, train_loss: 0.4930, step time: 0.3584
Batch 96/248, train_loss: 0.4695, step time: 0.3769
Batch 97/248, train_loss: 0.9999, step time: 0.3529
Batch 98/248, train_loss: 0.2371, step time: 0.3838
Batch 99/248, train_loss: 0.9625, step time: 0.3445
Batch 100/248, train_loss: 0.9892, step time: 0.3520
Batch 101/248, train_loss: 0.0838, step time: 0.3520
Batch 102/248, train_loss: 0.5868, step time: 0.3703
Batch 103/248, train_loss: 0.9809, step time: 0.3730
Batch 104/248, train_loss: 0.5429, step time: 0.3886
Batch 105/248, train_loss: 0.1714, step time: 0.3791
Batch 106/248, train_loss: 0.7790, step time: 0.3834
Batch 107/248, train_loss: 0.9512, step time: 0.3764
Batch 108/248, train_loss: 0.9704, step time: 0.3437
Batch 109/248, train_loss: 0.9982, step time: 0.3747
Batch 110/248, train_loss: 0.8198, step time: 0.3464
Batch 111/248, train_loss: 0.1994, step time: 0.3719
Batch 112/248, train_loss: 0.2149, step time: 0.3734
Batch 113/248, train_loss: 0.9996, step time: 0.3644
Batch 114/248, train_loss: 0.2277, step time: 0.3771
Batch 115/248, train_loss: 0.5993, step time: 0.3835
Batch 116/248, train_loss: 0.1441, step time: 0.3483
Batch 117/248, train_loss: 0.9900, step time: 0.3717
Batch 118/248, train_loss: 0.9509, step time: 0.3775
Batch 119/248, train_loss: 0.6961, step time: 0.3458
Batch 120/248, train_loss: 0.6810, step time: 0.3690
Batch 121/248, train_loss: 0.9037, step time: 0.3781
Batch 122/248, train_loss: 0.9326, step time: 0.3724
Batch 123/248, train_loss: 0.3050, step time: 0.3580
Batch 124/248, train_loss: 0.9473, step time: 0.3859
Batch 125/248, train_loss: 0.9899, step time: 0.3588
Batch 126/248, train_loss: 0.4213, step time: 0.3602
Batch 127/248, train_loss: 0.6266, step time: 0.3768
Batch 128/248, train_loss: 0.8463, step time: 0.3609
Batch 129/248, train_loss: 0.1807, step time: 0.3499
Batch 130/248, train_loss: 0.1845, step time: 0.3853
Batch 131/248, train_loss: 0.9453, step time: 0.3752
Batch 132/248, train_loss: 0.9625, step time: 0.3839
Batch 133/248, train_loss: 0.1927, step time: 0.3582
Batch 134/248, train_loss: 0.9999, step time: 0.3712
Batch 135/248, train_loss: 0.9666, step time: 0.3529
Batch 136/248, train_loss: 0.7901, step time: 0.3667
Batch 137/248, train_loss: 0.1977, step time: 0.3755
Batch 138/248, train_loss: 0.1560, step time: 0.3839
Batch 139/248, train_loss: 0.2335, step time: 0.3428
Batch 140/248, train_loss: 0.7726, step time: 0.3845
Batch 141/248, train_loss: 0.3487, step time: 0.3417
Batch 142/248, train_loss: 0.9932, step time: 0.3738
Batch 143/248, train_loss: 0.7981, step time: 0.3764
Batch 144/248, train_loss: 0.2113, step time: 0.3585
Batch 145/248, train_loss: 0.1462, step time: 0.3790
Batch 146/248, train_loss: 0.9957, step time: 0.3665
Batch 147/248, train_loss: 0.0865, step time: 0.3557

Batch 148/248, train_loss: 0.9608, step time: 0.3566
Batch 149/248, train_loss: 0.5601, step time: 0.3509
Batch 150/248, train_loss: 0.5315, step time: 0.3691
Batch 151/248, train_loss: 0.9550, step time: 0.3533
Batch 152/248, train_loss: 0.0861, step time: 0.3443
Batch 153/248, train_loss: 0.9288, step time: 0.3792
Batch 154/248, train_loss: 0.9829, step time: 0.3438
Batch 155/248, train_loss: 0.5981, step time: 0.3856
Batch 156/248, train_loss: 0.6242, step time: 0.3582
Batch 157/248, train_loss: 0.4111, step time: 0.3694
Batch 158/248, train_loss: 0.9994, step time: 0.3736
Batch 159/248, train_loss: 0.9936, step time: 0.3522
Batch 160/248, train_loss: 0.3278, step time: 0.3787
Batch 161/248, train_loss: 0.5655, step time: 0.3482
Batch 162/248, train_loss: 0.1343, step time: 0.3793
Batch 163/248, train_loss: 0.9599, step time: 0.3724
Batch 164/248, train_loss: 0.6330, step time: 0.3873
Batch 165/248, train_loss: 0.9989, step time: 0.3714
Batch 166/248, train_loss: 0.9149, step time: 0.3485
Batch 167/248, train_loss: 0.6850, step time: 0.3491
Batch 168/248, train_loss: 0.6317, step time: 0.3801
Batch 169/248, train_loss: 0.3306, step time: 0.3439
Batch 170/248, train_loss: 0.9787, step time: 0.3728
Batch 171/248, train_loss: 0.1261, step time: 0.3753
Batch 172/248, train_loss: 0.9987, step time: 0.3812
Batch 173/248, train_loss: 0.1687, step time: 0.3625
Batch 174/248, train_loss: 0.9998, step time: 0.3560
Batch 175/248, train_loss: 0.2021, step time: 0.3855
Batch 176/248, train_loss: 0.7818, step time: 0.3839
Batch 177/248, train_loss: 0.9922, step time: 0.3407
Batch 178/248, train_loss: 0.3768, step time: 0.3486
Batch 179/248, train_loss: 0.1371, step time: 0.3782
Batch 180/248, train_loss: 0.6314, step time: 0.3473
Batch 181/248, train_loss: 0.1584, step time: 0.3558
Batch 182/248, train_loss: 0.9417, step time: 0.3438
Batch 183/248, train_loss: 0.6096, step time: 0.3460
Batch 184/248, train_loss: 0.9255, step time: 0.3851
Batch 185/248, train_loss: 0.6105, step time: 0.3768
Batch 186/248, train_loss: 0.3210, step time: 0.3458
Batch 187/248, train_loss: 0.3770, step time: 0.3484
Batch 188/248, train_loss: 0.6504, step time: 0.3709
Batch 189/248, train_loss: 0.9979, step time: 0.3509
Batch 190/248, train_loss: 0.4256, step time: 0.3863
Batch 191/248, train_loss: 0.9972, step time: 0.3711
Batch 192/248, train_loss: 0.4035, step time: 0.3443
Batch 193/248, train_loss: 0.8021, step time: 0.3550
Batch 194/248, train_loss: 0.7423, step time: 0.3772
Batch 195/248, train_loss: 0.9997, step time: 0.3806
Batch 196/248, train_loss: 0.9999, step time: 0.3772
Batch 197/248, train_loss: 0.8555, step time: 0.3591
Batch 198/248, train_loss: 1.0000, step time: 0.3438
Batch 199/248, train_loss: 0.6640, step time: 0.3749
Batch 200/248, train_loss: 0.5766, step time: 0.3774
Batch 201/248, train_loss: 0.3176, step time: 0.3613
Batch 202/248, train_loss: 0.8117, step time: 0.3478
Batch 203/248, train_loss: 0.9897, step time: 0.3420
Batch 204/248, train_loss: 0.1612, step time: 0.3586
Batch 205/248, train_loss: 0.9224, step time: 0.3580
Batch 206/248, train_loss: 0.9942, step time: 0.3627
Batch 207/248, train_loss: 0.2092, step time: 0.3410
Batch 208/248, train_loss: 0.5793, step time: 0.3585
Batch 209/248, train_loss: 0.4778, step time: 0.3693
Batch 210/248, train_loss: 0.1916, step time: 0.3581
Batch 211/248, train_loss: 0.2123, step time: 0.3868
Batch 212/248, train_loss: 0.7993, step time: 0.3866
Batch 213/248, train_loss: 0.7776, step time: 0.3689
Batch 214/248, train_loss: 0.3861, step time: 0.3550
Batch 215/248, train_loss: 0.8596, step time: 0.3509
Batch 216/248, train_loss: 0.2905, step time: 0.3585
Batch 217/248, train_loss: 0.9346, step time: 0.3612
Batch 218/248, train_loss: 0.9995, step time: 0.3459
Batch 219/248, train_loss: 0.3549, step time: 0.3822
Batch 220/248, train_loss: 0.8549, step time: 0.3820
Batch 221/248, train_loss: 0.8459, step time: 0.3482
Batch 222/248, train_loss: 0.3115, step time: 0.3814
Batch 223/248, train_loss: 0.1049, step time: 0.3681
Batch 224/248, train_loss: 0.1984, step time: 0.3443
Batch 225/248, train_loss: 0.9869, step time: 0.3491
Batch 226/248, train_loss: 0.9359, step time: 0.3838
Batch 227/248, train_loss: 0.3878, step time: 0.3424
Batch 228/248, train_loss: 0.8421, step time: 0.3457
Batch 229/248, train_loss: 0.1613, step time: 0.3427
Batch 230/248, train_loss: 0.3863, step time: 0.3599
Batch 231/248, train_loss: 0.9992, step time: 0.3677
Batch 232/248, train_loss: 0.3678, step time: 0.3855

```
Batch 222/248, train_loss: 0.9920, step time: 0.3669  
Batch 233/248, train_loss: 0.9999, step time: 0.3409  
Batch 234/248, train_loss: 0.9831, step time: 0.3686  
Batch 235/248, train_loss: 0.9776, step time: 0.3845  
Batch 236/248, train_loss: 0.9992, step time: 0.3668  
Batch 237/248, train_loss: 0.2376, step time: 0.3479  
Batch 238/248, train_loss: 0.2906, step time: 0.3648  
Batch 239/248, train_loss: 0.0929, step time: 0.3498  
Batch 240/248, train_loss: 0.7978, step time: 0.3728  
Batch 241/248, train_loss: 0.9999, step time: 0.3480  
Batch 242/248, train_loss: 0.9003, step time: 0.3402  
Batch 243/248, train_loss: 0.9995, step time: 0.3580  
Batch 244/248, train_loss: 0.9718, step time: 0.3774  
Batch 245/248, train_loss: 0.2533, step time: 0.3542  
Batch 246/248, train_loss: 0.9878, step time: 0.3436  
Batch 247/248, train_loss: 0.1277, step time: 0.3649  
Batch 248/248, train_loss: 1.0000, step time: 0.3826
```

Labels



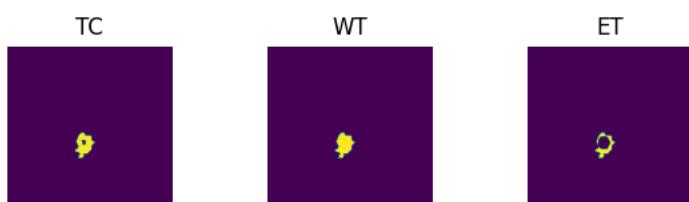
Predictions



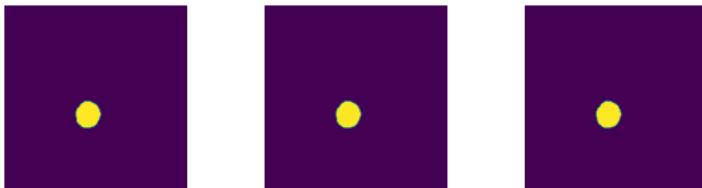
VAL

```
Batch 1/31, val_loss: 0.8911  
Batch 2/31, val_loss: 0.9996  
Batch 3/31, val_loss: 0.9972  
Batch 4/31, val_loss: 0.9940  
Batch 5/31, val_loss: 0.9998  
Batch 6/31, val_loss: 0.7498  
Batch 7/31, val_loss: 0.8618  
Batch 8/31, val_loss: 0.9827  
Batch 9/31, val_loss: 0.7287  
Batch 10/31, val_loss: 0.9575  
Batch 11/31, val_loss: 0.8737  
Batch 12/31, val_loss: 0.9800  
Batch 13/31, val_loss: 0.9862  
Batch 14/31, val_loss: 0.9741  
Batch 15/31, val_loss: 0.9992  
Batch 16/31, val_loss: 0.9837  
Batch 17/31, val_loss: 0.9993  
Batch 18/31, val_loss: 0.9877  
Batch 19/31, val_loss: 0.7911  
Batch 20/31, val_loss: 0.8858  
Batch 21/31, val_loss: 0.9392  
Batch 22/31, val_loss: 0.9992  
Batch 23/31, val_loss: 0.9943  
Batch 24/31, val_loss: 0.7587  
Batch 25/31, val_loss: 0.8268  
Batch 26/31, val_loss: 0.9621  
Batch 27/31, val_loss: 0.9992  
Batch 28/31, val_loss: 0.8044  
Batch 29/31, val_loss: 0.9995  
Batch 30/31, val_loss: 0.9802  
Batch 31/31, val_loss: 0.9949
```

Labels



Predictions



```
epoch 54
average train loss: 0.6393
average validation loss: 0.9317
saved as best model: False
current mean dice: 0.2833
current TC dice: 0.2960
current WT dice: 0.3013
current ET dice: 0.2794
Best Mean Metric: 0.2862
time consuming of epoch 54 is: 1446.6889
```

epoch 55/100

TRAIN

```
Batch 1/248, train_loss: 0.1197, step time: 0.3817
Batch 2/248, train_loss: 0.9993, step time: 0.3687
Batch 3/248, train_loss: 0.9486, step time: 0.3752
Batch 4/248, train_loss: 0.9998, step time: 0.3580
Batch 5/248, train_loss: 0.8265, step time: 0.3857
Batch 6/248, train_loss: 0.7536, step time: 0.3440
Batch 7/248, train_loss: 0.1187, step time: 0.3828
Batch 8/248, train_loss: 0.7430, step time: 0.3457
Batch 9/248, train_loss: 0.0908, step time: 0.3829
Batch 10/248, train_loss: 0.9075, step time: 0.3506
Batch 11/248, train_loss: 0.7672, step time: 0.3828
Batch 12/248, train_loss: 0.9913, step time: 0.3511
Batch 13/248, train_loss: 0.9542, step time: 0.3491
Batch 14/248, train_loss: 0.0894, step time: 0.3749
Batch 15/248, train_loss: 0.8949, step time: 0.3567
Batch 16/248, train_loss: 0.7160, step time: 0.3539
Batch 17/248, train_loss: 0.9952, step time: 0.3764
Batch 18/248, train_loss: 0.9677, step time: 0.3615
Batch 19/248, train_loss: 0.1950, step time: 0.3673
Batch 20/248, train_loss: 0.7050, step time: 0.3557
Batch 21/248, train_loss: 0.2719, step time: 0.3742
Batch 22/248, train_loss: 0.9997, step time: 0.3810
Batch 23/248, train_loss: 0.9993, step time: 0.3825
Batch 24/248, train_loss: 0.3738, step time: 0.3431
Batch 25/248, train_loss: 0.1259, step time: 0.3572
Batch 26/248, train_loss: 0.9779, step time: 0.3654
Batch 27/248, train_loss: 0.1106, step time: 0.3764
Batch 28/248, train_loss: 0.6914, step time: 0.3488
Batch 29/248, train_loss: 0.9883, step time: 0.3704
Batch 30/248, train_loss: 0.7444, step time: 0.3714
Batch 31/248, train_loss: 0.8909, step time: 0.3559
Batch 32/248, train_loss: 0.3219, step time: 0.3524
Batch 33/248, train_loss: 0.1267, step time: 0.3477
Batch 34/248, train_loss: 0.1164, step time: 0.3561
Batch 35/248, train_loss: 0.3344, step time: 0.3755
Batch 36/248, train_loss: 0.9949, step time: 0.3819
Batch 37/248, train_loss: 0.4899, step time: 0.3708
Batch 38/248, train_loss: 0.8518, step time: 0.3428
Batch 39/248, train_loss: 0.5551, step time: 0.3806
Batch 40/248, train_loss: 0.9999, step time: 0.3798
Batch 41/248, train_loss: 0.3196, step time: 0.3565
Batch 42/248, train_loss: 0.2029, step time: 0.3438
Batch 43/248, train_loss: 0.0984, step time: 0.3770
Batch 44/248, train_loss: 0.6801, step time: 0.3558
Batch 45/248, train_loss: 0.8722, step time: 0.3726
Batch 46/248, train_loss: 0.5458, step time: 0.3755
Batch 47/248, train_loss: 0.6859, step time: 0.3496
Batch 48/248, train_loss: 0.6026, step time: 0.3497
Batch 49/248, train_loss: 0.9623, step time: 0.3652
Batch 50/248, train_loss: 0.7407, step time: 0.3572
Batch 51/248, train_loss: 0.6932, step time: 0.3682
Batch 52/248, train_loss: 0.5446, step time: 0.3601
Batch 53/248, train_loss: 0.8833, step time: 0.3466
Batch 54/248, train_loss: 0.7045, step time: 0.3641
Batch 55/248, train_loss: 0.8972, step time: 0.3456
Batch 56/248, train_loss: 0.7362, step time: 0.3583
Batch 57/248, train_loss: 0.7508, step time: 0.3774
Batch 58/248, train_loss: 0.2513, step time: 0.3422
Batch 59/248, train_loss: 0.3594, step time: 0.3418
Batch 60/248, train_loss: 0.2036, step time: 0.3417
Batch 61/248, train_loss: 0.3721, step time: 0.3556
Batch 62/248, train_loss: 0.9097, step time: 0.3412
```

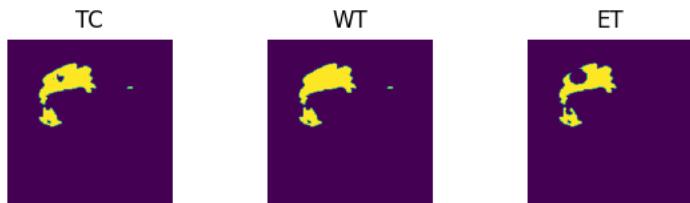
Batch 63/248, train_loss: 0.9796, step time: 0.3770
Batch 64/248, train_loss: 0.9794, step time: 0.3454
Batch 65/248, train_loss: 0.7475, step time: 0.3483
Batch 66/248, train_loss: 0.7274, step time: 0.3461
Batch 67/248, train_loss: 0.1559, step time: 0.3450
Batch 68/248, train_loss: 0.2212, step time: 0.3717
Batch 69/248, train_loss: 0.9989, step time: 0.3638
Batch 70/248, train_loss: 0.2946, step time: 0.3463
Batch 71/248, train_loss: 0.2862, step time: 0.3700
Batch 72/248, train_loss: 0.1814, step time: 0.3417
Batch 73/248, train_loss: 0.2906, step time: 0.3627
Batch 74/248, train_loss: 0.9983, step time: 0.3455
Batch 75/248, train_loss: 0.3019, step time: 0.3634
Batch 76/248, train_loss: 0.9881, step time: 0.3827
Batch 77/248, train_loss: 0.9978, step time: 0.3743
Batch 78/248, train_loss: 0.4987, step time: 0.3521
Batch 79/248, train_loss: 0.6813, step time: 0.3435
Batch 80/248, train_loss: 0.8012, step time: 0.3666
Batch 81/248, train_loss: 0.8713, step time: 0.3431
Batch 82/248, train_loss: 0.2454, step time: 0.3665
Batch 83/248, train_loss: 0.9868, step time: 0.3774
Batch 84/248, train_loss: 0.7148, step time: 0.3703
Batch 85/248, train_loss: 0.9916, step time: 0.3863
Batch 86/248, train_loss: 0.4460, step time: 0.3785
Batch 87/248, train_loss: 0.9844, step time: 0.3586
Batch 88/248, train_loss: 0.9529, step time: 0.3767
Batch 89/248, train_loss: 0.1190, step time: 0.3415
Batch 90/248, train_loss: 0.7462, step time: 0.3409
Batch 91/248, train_loss: 0.9849, step time: 0.3567
Batch 92/248, train_loss: 0.6753, step time: 0.3694
Batch 93/248, train_loss: 0.2720, step time: 0.3492
Batch 94/248, train_loss: 0.9822, step time: 0.3604
Batch 95/248, train_loss: 0.4785, step time: 0.3724
Batch 96/248, train_loss: 0.4540, step time: 0.3715
Batch 97/248, train_loss: 0.9998, step time: 0.3664
Batch 98/248, train_loss: 0.2326, step time: 0.3870
Batch 99/248, train_loss: 0.9590, step time: 0.3716
Batch 100/248, train_loss: 0.9929, step time: 0.3730
Batch 101/248, train_loss: 0.0768, step time: 0.3758
Batch 102/248, train_loss: 0.5684, step time: 0.3466
Batch 103/248, train_loss: 0.9788, step time: 0.3669
Batch 104/248, train_loss: 0.5293, step time: 0.3488
Batch 105/248, train_loss: 0.1741, step time: 0.3649
Batch 106/248, train_loss: 0.7756, step time: 0.3553
Batch 107/248, train_loss: 0.9512, step time: 0.3484
Batch 108/248, train_loss: 0.9755, step time: 0.3729
Batch 109/248, train_loss: 0.9974, step time: 0.3697
Batch 110/248, train_loss: 0.8309, step time: 0.3725
Batch 111/248, train_loss: 0.1940, step time: 0.3558
Batch 112/248, train_loss: 0.2579, step time: 0.3796
Batch 113/248, train_loss: 0.9998, step time: 0.3793
Batch 114/248, train_loss: 0.2358, step time: 0.3884
Batch 115/248, train_loss: 0.5817, step time: 0.3828
Batch 116/248, train_loss: 0.1484, step time: 0.3602
Batch 117/248, train_loss: 0.9937, step time: 0.3802
Batch 118/248, train_loss: 0.9679, step time: 0.3474
Batch 119/248, train_loss: 0.6391, step time: 0.3766
Batch 120/248, train_loss: 0.6766, step time: 0.3688
Batch 121/248, train_loss: 0.9098, step time: 0.3563
Batch 122/248, train_loss: 0.9393, step time: 0.3487
Batch 123/248, train_loss: 0.2790, step time: 0.3663
Batch 124/248, train_loss: 0.9440, step time: 0.3444
Batch 125/248, train_loss: 0.9915, step time: 0.3462
Batch 126/248, train_loss: 0.3736, step time: 0.3473
Batch 127/248, train_loss: 0.6222, step time: 0.3407
Batch 128/248, train_loss: 0.8438, step time: 0.3843
Batch 129/248, train_loss: 0.1628, step time: 0.3766
Batch 130/248, train_loss: 0.1956, step time: 0.3866
Batch 131/248, train_loss: 0.9409, step time: 0.3524
Batch 132/248, train_loss: 0.9431, step time: 0.3781
Batch 133/248, train_loss: 0.1802, step time: 0.3521
Batch 134/248, train_loss: 0.9999, step time: 0.3778
Batch 135/248, train_loss: 0.9657, step time: 0.3515
Batch 136/248, train_loss: 0.7839, step time: 0.3777
Batch 137/248, train_loss: 0.1747, step time: 0.3823
Batch 138/248, train_loss: 0.1738, step time: 0.3758
Batch 139/248, train_loss: 0.2617, step time: 0.3690
Batch 140/248, train_loss: 0.7762, step time: 0.3423
Batch 141/248, train_loss: 0.3302, step time: 0.3748
Batch 142/248, train_loss: 0.9899, step time: 0.3457
Batch 143/248, train_loss: 0.7903, step time: 0.3582
Batch 144/248, train_loss: 0.2130, step time: 0.3845
Batch 145/248, train_loss: 0.1094, step time: 0.3419
Batch 146/248, train_loss: 0.9960, step time: 0.3644

Datal 147/248 train loss: 0.9920 step time: 0.3882

Batch 147/248, train_loss: 0.9009, step time: 0.3009
Batch 148/248, train_loss: 0.9636, step time: 0.3798
Batch 149/248, train_loss: 0.5425, step time: 0.3501
Batch 150/248, train_loss: 0.5541, step time: 0.3838
Batch 151/248, train_loss: 0.9456, step time: 0.3500
Batch 152/248, train_loss: 0.0826, step time: 0.3773
Batch 153/248, train_loss: 0.9229, step time: 0.3802
Batch 154/248, train_loss: 0.9818, step time: 0.3473
Batch 155/248, train_loss: 0.5794, step time: 0.3658
Batch 156/248, train_loss: 0.6107, step time: 0.3623
Batch 157/248, train_loss: 0.4120, step time: 0.3561
Batch 158/248, train_loss: 0.9994, step time: 0.3833
Batch 159/248, train_loss: 0.9944, step time: 0.3479
Batch 160/248, train_loss: 0.3203, step time: 0.3501
Batch 161/248, train_loss: 0.5578, step time: 0.3520
Batch 162/248, train_loss: 0.1379, step time: 0.3561
Batch 163/248, train_loss: 0.9578, step time: 0.3859
Batch 164/248, train_loss: 0.6368, step time: 0.3577
Batch 165/248, train_loss: 0.9976, step time: 0.3511
Batch 166/248, train_loss: 0.8916, step time: 0.3848
Batch 167/248, train_loss: 0.6793, step time: 0.3788
Batch 168/248, train_loss: 0.6324, step time: 0.3830
Batch 169/248, train_loss: 0.3227, step time: 0.3634
Batch 170/248, train_loss: 0.9829, step time: 0.3771
Batch 171/248, train_loss: 0.1242, step time: 0.3468
Batch 172/248, train_loss: 0.9996, step time: 0.3477
Batch 173/248, train_loss: 0.1670, step time: 0.3488
Batch 174/248, train_loss: 0.9997, step time: 0.3842
Batch 175/248, train_loss: 0.2068, step time: 0.3661
Batch 176/248, train_loss: 0.7869, step time: 0.3820
Batch 177/248, train_loss: 0.9923, step time: 0.3778
Batch 178/248, train_loss: 0.3817, step time: 0.3406
Batch 179/248, train_loss: 0.1320, step time: 0.3856
Batch 180/248, train_loss: 0.6126, step time: 0.3812
Batch 181/248, train_loss: 0.1569, step time: 0.3808
Batch 182/248, train_loss: 0.9493, step time: 0.3524
Batch 183/248, train_loss: 0.5967, step time: 0.3858
Batch 184/248, train_loss: 0.9130, step time: 0.3766
Batch 185/248, train_loss: 0.6028, step time: 0.3555
Batch 186/248, train_loss: 0.3098, step time: 0.3841
Batch 187/248, train_loss: 0.3785, step time: 0.3621
Batch 188/248, train_loss: 0.6495, step time: 0.3834
Batch 189/248, train_loss: 0.9989, step time: 0.3763
Batch 190/248, train_loss: 0.4200, step time: 0.3838
Batch 191/248, train_loss: 0.9964, step time: 0.3508
Batch 192/248, train_loss: 0.4187, step time: 0.3430
Batch 193/248, train_loss: 0.8080, step time: 0.3617
Batch 194/248, train_loss: 0.7402, step time: 0.3758
Batch 195/248, train_loss: 0.9996, step time: 0.3448
Batch 196/248, train_loss: 0.9998, step time: 0.3730
Batch 197/248, train_loss: 0.8483, step time: 0.3822
Batch 198/248, train_loss: 1.0000, step time: 0.3448
Batch 199/248, train_loss: 0.6555, step time: 0.3446
Batch 200/248, train_loss: 0.5571, step time: 0.3435
Batch 201/248, train_loss: 0.3096, step time: 0.3531
Batch 202/248, train_loss: 0.7909, step time: 0.3483
Batch 203/248, train_loss: 0.9890, step time: 0.3798
Batch 204/248, train_loss: 0.1666, step time: 0.3783
Batch 205/248, train_loss: 0.9132, step time: 0.3447
Batch 206/248, train_loss: 0.9955, step time: 0.3504
Batch 207/248, train_loss: 0.1860, step time: 0.3433
Batch 208/248, train_loss: 0.5789, step time: 0.3718
Batch 209/248, train_loss: 0.4590, step time: 0.3768
Batch 210/248, train_loss: 0.1805, step time: 0.3610
Batch 211/248, train_loss: 0.2247, step time: 0.3542
Batch 212/248, train_loss: 0.7957, step time: 0.3832
Batch 213/248, train_loss: 0.7712, step time: 0.3698
Batch 214/248, train_loss: 0.3882, step time: 0.3494
Batch 215/248, train_loss: 0.8501, step time: 0.3664
Batch 216/248, train_loss: 0.2801, step time: 0.3413
Batch 217/248, train_loss: 0.9202, step time: 0.3609
Batch 218/248, train_loss: 0.9951, step time: 0.3457
Batch 219/248, train_loss: 0.3440, step time: 0.3602
Batch 220/248, train_loss: 0.8459, step time: 0.3826
Batch 221/248, train_loss: 0.8437, step time: 0.3775
Batch 222/248, train_loss: 0.3095, step time: 0.3435
Batch 223/248, train_loss: 0.0982, step time: 0.3458
Batch 224/248, train_loss: 0.2009, step time: 0.3814
Batch 225/248, train_loss: 0.9849, step time: 0.3858
Batch 226/248, train_loss: 0.9452, step time: 0.3506
Batch 227/248, train_loss: 0.3786, step time: 0.3736
Batch 228/248, train_loss: 0.8402, step time: 0.3449
Batch 229/248, train_loss: 0.1603, step time: 0.3668
Batch 230/248, train_loss: 0.3755, step time: 0.3675
Batch 231/248, train_loss: 0.9979, step time: 0.3803

```
Batch 232/248, train_loss: 0.3535, step time: 0.3798  
Batch 233/248, train_loss: 0.9999, step time: 0.3714  
Batch 234/248, train_loss: 0.9835, step time: 0.3586  
Batch 235/248, train_loss: 0.9831, step time: 0.3769  
Batch 236/248, train_loss: 0.9990, step time: 0.3497  
Batch 237/248, train_loss: 0.2385, step time: 0.3480  
Batch 238/248, train_loss: 0.2852, step time: 0.3601  
Batch 239/248, train_loss: 0.0919, step time: 0.3442  
Batch 240/248, train_loss: 0.7644, step time: 0.3771  
Batch 241/248, train_loss: 0.9999, step time: 0.3494  
Batch 242/248, train_loss: 0.8977, step time: 0.3516  
Batch 243/248, train_loss: 0.9967, step time: 0.3400  
Batch 244/248, train_loss: 0.9735, step time: 0.3818  
Batch 245/248, train_loss: 0.2496, step time: 0.3735  
Batch 246/248, train_loss: 0.9964, step time: 0.3793  
Batch 247/248, train_loss: 0.1270, step time: 0.3602  
Batch 248/248, train_loss: 1.0000, step time: 0.3562
```

Labels



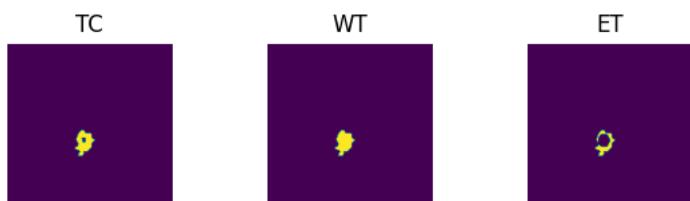
Predictions



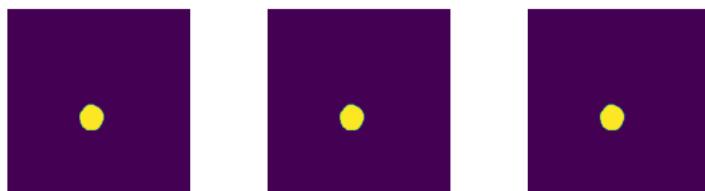
VAL

```
Batch 1/31, val_loss: 0.8843  
Batch 2/31, val_loss: 0.9996  
Batch 3/31, val_loss: 0.9955  
Batch 4/31, val_loss: 0.9941  
Batch 5/31, val_loss: 0.9999  
Batch 6/31, val_loss: 0.7480  
Batch 7/31, val_loss: 0.8631  
Batch 8/31, val_loss: 0.9821  
Batch 9/31, val_loss: 0.7247  
Batch 10/31, val_loss: 0.9777  
Batch 11/31, val_loss: 0.8727  
Batch 12/31, val_loss: 0.9810  
Batch 13/31, val_loss: 0.9866  
Batch 14/31, val_loss: 0.9738  
Batch 15/31, val_loss: 0.9991  
Batch 16/31, val_loss: 0.9837  
Batch 17/31, val_loss: 0.9994  
Batch 18/31, val_loss: 0.9869  
Batch 19/31, val_loss: 0.7914  
Batch 20/31, val_loss: 0.8851  
Batch 21/31, val_loss: 0.9396  
Batch 22/31, val_loss: 0.9993  
Batch 23/31, val_loss: 0.9954  
Batch 24/31, val_loss: 0.7569  
Batch 25/31, val_loss: 0.8264  
Batch 26/31, val_loss: 0.9634  
Batch 27/31, val_loss: 0.9992  
Batch 28/31, val_loss: 0.8052  
Batch 29/31, val_loss: 0.9990  
Batch 30/31, val_loss: 0.9871  
Batch 31/31, val_loss: 0.9949
```

Labels



Predictions



```
epoch 55
average train loss: 0.6358
average validation loss: 0.9321
saved as best model: False
current mean dice: 0.2858
current TC dice: 0.2984
current WT dice: 0.3039
current ET dice: 0.2822
Best Mean Metric: 0.2862
time consuming of epoch 55 is: 1431.4256
-----
```

```
epoch 56/100
```

```
TRAIN
```

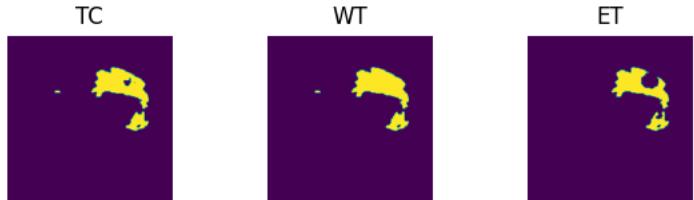
```
Batch 1/248, train_loss: 0.1251, step time: 0.3545
Batch 2/248, train_loss: 0.9997, step time: 0.3780
Batch 3/248, train_loss: 0.9503, step time: 0.3805
Batch 4/248, train_loss: 0.9994, step time: 0.3434
Batch 5/248, train_loss: 0.7957, step time: 0.3695
Batch 6/248, train_loss: 0.7619, step time: 0.3543
Batch 7/248, train_loss: 0.1227, step time: 0.3552
Batch 8/248, train_loss: 0.7535, step time: 0.3715
Batch 9/248, train_loss: 0.0867, step time: 0.3458
Batch 10/248, train_loss: 0.8995, step time: 0.3451
Batch 11/248, train_loss: 0.7649, step time: 0.3658
Batch 12/248, train_loss: 0.9921, step time: 0.3695
Batch 13/248, train_loss: 0.9604, step time: 0.3445
Batch 14/248, train_loss: 0.0924, step time: 0.3553
Batch 15/248, train_loss: 0.8953, step time: 0.3865
Batch 16/248, train_loss: 0.7123, step time: 0.3737
Batch 17/248, train_loss: 0.9930, step time: 0.3648
Batch 18/248, train_loss: 0.9694, step time: 0.3793
Batch 19/248, train_loss: 0.1851, step time: 0.3804
Batch 20/248, train_loss: 0.6905, step time: 0.3524
Batch 21/248, train_loss: 0.2629, step time: 0.3452
Batch 22/248, train_loss: 0.9999, step time: 0.3549
Batch 23/248, train_loss: 0.9963, step time: 0.3809
Batch 24/248, train_loss: 0.3575, step time: 0.3432
Batch 25/248, train_loss: 0.1321, step time: 0.3461
Batch 26/248, train_loss: 0.9807, step time: 0.3451
Batch 27/248, train_loss: 0.1085, step time: 0.3820
Batch 28/248, train_loss: 0.6913, step time: 0.3803
Batch 29/248, train_loss: 0.9879, step time: 0.3459
Batch 30/248, train_loss: 0.8182, step time: 0.3729
Batch 31/248, train_loss: 0.8868, step time: 0.3832
Batch 32/248, train_loss: 0.2975, step time: 0.3587
Batch 33/248, train_loss: 0.1164, step time: 0.3800
Batch 34/248, train_loss: 0.1126, step time: 0.3833
Batch 35/248, train_loss: 0.3290, step time: 0.3640
Batch 36/248, train_loss: 0.9990, step time: 0.3417
Batch 37/248, train_loss: 0.4897, step time: 0.3728
Batch 38/248, train_loss: 0.8549, step time: 0.3489
Batch 39/248, train_loss: 0.5502, step time: 0.3770
Batch 40/248, train_loss: 0.9999, step time: 0.3794
Batch 41/248, train_loss: 0.3123, step time: 0.3772
Batch 42/248, train_loss: 0.2006, step time: 0.3722
Batch 43/248, train_loss: 0.1035, step time: 0.3862
Batch 44/248, train_loss: 0.6286, step time: 0.3638
Batch 45/248, train_loss: 0.8607, step time: 0.3457
Batch 46/248, train_loss: 0.5336, step time: 0.3830
Batch 47/248, train_loss: 0.6736, step time: 0.3440
Batch 48/248, train_loss: 0.5844, step time: 0.3806
Batch 49/248, train_loss: 0.9736, step time: 0.3563
Batch 50/248, train_loss: 0.7372, step time: 0.3842
Batch 51/248, train_loss: 0.6862, step time: 0.3846
Batch 52/248, train_loss: 0.5363, step time: 0.3504
Batch 53/248, train_loss: 0.8859, step time: 0.3486
Batch 54/248, train_loss: 0.6953, step time: 0.3483
Batch 55/248, train_loss: 0.8883, step time: 0.3801
Batch 56/248, train_loss: 0.7340, step time: 0.3747
Batch 57/248, train_loss: 0.7430, step time: 0.3760
Batch 58/248, train_loss: 0.2445, step time: 0.3626
Batch 59/248, train_loss: 0.3525, step time: 0.3526
Batch 60/248, train_loss: 0.1988, step time: 0.3859
Batch 61/248, train_loss: 0.3604, step time: 0.3605
Batch 62/248, train_loss: 0.2006, step time: 0.3160
```

Batch 62/248, train_loss: 0.9086, step time: 0.3460
Batch 63/248, train_loss: 0.9789, step time: 0.3697
Batch 64/248, train_loss: 0.9731, step time: 0.3823
Batch 65/248, train_loss: 0.7478, step time: 0.3771
Batch 66/248, train_loss: 0.7266, step time: 0.3424
Batch 67/248, train_loss: 0.1419, step time: 0.3467
Batch 68/248, train_loss: 0.2088, step time: 0.3582
Batch 69/248, train_loss: 0.9969, step time: 0.3424
Batch 70/248, train_loss: 0.2969, step time: 0.3609
Batch 71/248, train_loss: 0.2704, step time: 0.3677
Batch 72/248, train_loss: 0.1662, step time: 0.3413
Batch 73/248, train_loss: 0.2597, step time: 0.3486
Batch 74/248, train_loss: 0.9979, step time: 0.3672
Batch 75/248, train_loss: 0.2942, step time: 0.3830
Batch 76/248, train_loss: 0.9859, step time: 0.3455
Batch 77/248, train_loss: 0.9978, step time: 0.3778
Batch 78/248, train_loss: 0.4929, step time: 0.3832
Batch 79/248, train_loss: 0.6809, step time: 0.3545
Batch 80/248, train_loss: 0.8012, step time: 0.3736
Batch 81/248, train_loss: 0.8673, step time: 0.3868
Batch 82/248, train_loss: 0.2342, step time: 0.3449
Batch 83/248, train_loss: 0.9871, step time: 0.3841
Batch 84/248, train_loss: 0.7185, step time: 0.3429
Batch 85/248, train_loss: 0.9858, step time: 0.3425
Batch 86/248, train_loss: 0.4130, step time: 0.3700
Batch 87/248, train_loss: 0.9928, step time: 0.3474
Batch 88/248, train_loss: 0.9565, step time: 0.3567
Batch 89/248, train_loss: 0.1240, step time: 0.3827
Batch 90/248, train_loss: 0.7173, step time: 0.3705
Batch 91/248, train_loss: 0.9840, step time: 0.3699
Batch 92/248, train_loss: 0.6594, step time: 0.3803
Batch 93/248, train_loss: 0.2832, step time: 0.3443
Batch 94/248, train_loss: 0.9831, step time: 0.3765
Batch 95/248, train_loss: 0.4836, step time: 0.3786
Batch 96/248, train_loss: 0.4432, step time: 0.3676
Batch 97/248, train_loss: 0.9998, step time: 0.3787
Batch 98/248, train_loss: 0.2254, step time: 0.3821
Batch 99/248, train_loss: 0.9540, step time: 0.3441
Batch 100/248, train_loss: 0.9921, step time: 0.3629
Batch 101/248, train_loss: 0.0953, step time: 0.3679
Batch 102/248, train_loss: 0.5779, step time: 0.3486
Batch 103/248, train_loss: 0.9785, step time: 0.3449
Batch 104/248, train_loss: 0.5286, step time: 0.3438
Batch 105/248, train_loss: 0.1756, step time: 0.3663
Batch 106/248, train_loss: 0.7665, step time: 0.3723
Batch 107/248, train_loss: 0.9505, step time: 0.3858
Batch 108/248, train_loss: 0.9637, step time: 0.3714
Batch 109/248, train_loss: 0.9955, step time: 0.3556
Batch 110/248, train_loss: 0.8072, step time: 0.3850
Batch 111/248, train_loss: 0.1901, step time: 0.3427
Batch 112/248, train_loss: 0.2447, step time: 0.3441
Batch 113/248, train_loss: 0.9996, step time: 0.3694
Batch 114/248, train_loss: 0.2320, step time: 0.3781
Batch 115/248, train_loss: 0.5733, step time: 0.3585
Batch 116/248, train_loss: 0.1432, step time: 0.3474
Batch 117/248, train_loss: 0.9931, step time: 0.3839
Batch 118/248, train_loss: 0.9473, step time: 0.3691
Batch 119/248, train_loss: 0.6256, step time: 0.3739
Batch 120/248, train_loss: 0.6718, step time: 0.3710
Batch 121/248, train_loss: 0.8961, step time: 0.3862
Batch 122/248, train_loss: 0.9319, step time: 0.3821
Batch 123/248, train_loss: 0.2768, step time: 0.3829
Batch 124/248, train_loss: 0.9406, step time: 0.3781
Batch 125/248, train_loss: 0.9928, step time: 0.3452
Batch 126/248, train_loss: 0.3334, step time: 0.3603
Batch 127/248, train_loss: 0.6112, step time: 0.3735
Batch 128/248, train_loss: 0.8302, step time: 0.3661
Batch 129/248, train_loss: 0.1712, step time: 0.3642
Batch 130/248, train_loss: 0.1798, step time: 0.3443
Batch 131/248, train_loss: 0.9414, step time: 0.3593
Batch 132/248, train_loss: 0.9448, step time: 0.3497
Batch 133/248, train_loss: 0.1910, step time: 0.3626
Batch 134/248, train_loss: 0.9999, step time: 0.3762
Batch 135/248, train_loss: 0.9650, step time: 0.3820
Batch 136/248, train_loss: 0.7773, step time: 0.3822
Batch 137/248, train_loss: 0.1864, step time: 0.3453
Batch 138/248, train_loss: 0.1616, step time: 0.3478
Batch 139/248, train_loss: 0.2487, step time: 0.3754
Batch 140/248, train_loss: 0.7738, step time: 0.3733
Batch 141/248, train_loss: 0.3311, step time: 0.3603
Batch 142/248, train_loss: 0.9962, step time: 0.3412
Batch 143/248, train_loss: 0.7863, step time: 0.3485
Batch 144/248, train_loss: 0.2207, step time: 0.3518
Batch 145/248, train_loss: 0.1027, step time: 0.3492
Batch 146/248, train_loss: 0.9940, step time: 0.3580

Batch 147/248, train_loss: 0.0798, step time: 0.3661
Batch 148/248, train_loss: 0.9587, step time: 0.3420
Batch 149/248, train_loss: 0.5393, step time: 0.3863
Batch 150/248, train_loss: 0.5572, step time: 0.3833
Batch 151/248, train_loss: 0.9401, step time: 0.3762
Batch 152/248, train_loss: 0.0836, step time: 0.3426
Batch 153/248, train_loss: 0.9166, step time: 0.3806
Batch 154/248, train_loss: 0.9812, step time: 0.3716
Batch 155/248, train_loss: 0.5764, step time: 0.3615
Batch 156/248, train_loss: 0.5962, step time: 0.3688
Batch 157/248, train_loss: 0.4105, step time: 0.3405
Batch 158/248, train_loss: 0.9991, step time: 0.3769
Batch 159/248, train_loss: 0.9949, step time: 0.3652
Batch 160/248, train_loss: 0.3274, step time: 0.3490
Batch 161/248, train_loss: 0.5436, step time: 0.3449
Batch 162/248, train_loss: 0.1422, step time: 0.3742
Batch 163/248, train_loss: 0.9603, step time: 0.3505
Batch 164/248, train_loss: 0.6407, step time: 0.3420
Batch 165/248, train_loss: 0.9978, step time: 0.3679
Batch 166/248, train_loss: 0.8925, step time: 0.3817
Batch 167/248, train_loss: 0.6662, step time: 0.3861
Batch 168/248, train_loss: 0.6175, step time: 0.3458
Batch 169/248, train_loss: 0.3211, step time: 0.3666
Batch 170/248, train_loss: 0.9903, step time: 0.3522
Batch 171/248, train_loss: 0.1217, step time: 0.3782
Batch 172/248, train_loss: 0.9997, step time: 0.3653
Batch 173/248, train_loss: 0.1490, step time: 0.3405
Batch 174/248, train_loss: 0.9957, step time: 0.3437
Batch 175/248, train_loss: 0.2147, step time: 0.3633
Batch 176/248, train_loss: 0.7726, step time: 0.3424
Batch 177/248, train_loss: 0.9920, step time: 0.3819
Batch 178/248, train_loss: 0.3998, step time: 0.3466
Batch 179/248, train_loss: 0.1331, step time: 0.3648
Batch 180/248, train_loss: 0.6102, step time: 0.3868
Batch 181/248, train_loss: 0.1538, step time: 0.3499
Batch 182/248, train_loss: 0.9413, step time: 0.3528
Batch 183/248, train_loss: 0.5765, step time: 0.3759
Batch 184/248, train_loss: 0.9116, step time: 0.3657
Batch 185/248, train_loss: 0.5998, step time: 0.3433
Batch 186/248, train_loss: 0.3182, step time: 0.3611
Batch 187/248, train_loss: 0.3915, step time: 0.3667
Batch 188/248, train_loss: 0.6374, step time: 0.3501
Batch 189/248, train_loss: 0.9982, step time: 0.3702
Batch 190/248, train_loss: 0.4256, step time: 0.3599
Batch 191/248, train_loss: 0.9983, step time: 0.3827
Batch 192/248, train_loss: 0.4263, step time: 0.3822
Batch 193/248, train_loss: 0.7972, step time: 0.3401
Batch 194/248, train_loss: 0.7343, step time: 0.3624
Batch 195/248, train_loss: 0.9994, step time: 0.3510
Batch 196/248, train_loss: 0.9999, step time: 0.3461
Batch 197/248, train_loss: 0.8533, step time: 0.3809
Batch 198/248, train_loss: 0.9999, step time: 0.3820
Batch 199/248, train_loss: 0.6380, step time: 0.3764
Batch 200/248, train_loss: 0.5516, step time: 0.3749
Batch 201/248, train_loss: 0.3228, step time: 0.3496
Batch 202/248, train_loss: 0.7949, step time: 0.3705
Batch 203/248, train_loss: 0.9894, step time: 0.3605
Batch 204/248, train_loss: 0.1693, step time: 0.3476
Batch 205/248, train_loss: 0.9106, step time: 0.3817
Batch 206/248, train_loss: 0.9999, step time: 0.3633
Batch 207/248, train_loss: 0.1861, step time: 0.3792
Batch 208/248, train_loss: 0.5674, step time: 0.3462
Batch 209/248, train_loss: 0.4537, step time: 0.3869
Batch 210/248, train_loss: 0.1844, step time: 0.3522
Batch 211/248, train_loss: 0.2162, step time: 0.3725
Batch 212/248, train_loss: 0.7923, step time: 0.3756
Batch 213/248, train_loss: 0.7652, step time: 0.3425
Batch 214/248, train_loss: 0.3697, step time: 0.3425
Batch 215/248, train_loss: 0.8368, step time: 0.3664
Batch 216/248, train_loss: 0.2906, step time: 0.3548
Batch 217/248, train_loss: 0.9232, step time: 0.3507
Batch 218/248, train_loss: 0.9946, step time: 0.3476
Batch 219/248, train_loss: 0.3335, step time: 0.3485
Batch 220/248, train_loss: 0.8456, step time: 0.3776
Batch 221/248, train_loss: 0.8387, step time: 0.3776
Batch 222/248, train_loss: 0.3011, step time: 0.3483
Batch 223/248, train_loss: 0.0955, step time: 0.3797
Batch 224/248, train_loss: 0.1957, step time: 0.3507
Batch 225/248, train_loss: 0.9843, step time: 0.3866
Batch 226/248, train_loss: 0.9312, step time: 0.3463
Batch 227/248, train_loss: 0.3769, step time: 0.3858
Batch 228/248, train_loss: 0.8226, step time: 0.3744
Batch 229/248, train_loss: 0.1646, step time: 0.3736
Batch 230/248, train_loss: 0.3599, step time: 0.3461
Batch 231/248, train_loss: 0.9981, step time: 0.3814

```
Batch 232/248, train_loss: 0.3450, step time: 0.3599
Batch 233/248, train_loss: 0.9994, step time: 0.3405
Batch 234/248, train_loss: 0.9868, step time: 0.3554
Batch 235/248, train_loss: 0.9852, step time: 0.3837
Batch 236/248, train_loss: 0.9991, step time: 0.3636
Batch 237/248, train_loss: 0.2342, step time: 0.3665
Batch 238/248, train_loss: 0.2780, step time: 0.3484
Batch 239/248, train_loss: 0.0945, step time: 0.3738
Batch 240/248, train_loss: 0.7581, step time: 0.3441
Batch 241/248, train_loss: 0.9999, step time: 0.3745
Batch 242/248, train_loss: 0.8967, step time: 0.3579
Batch 243/248, train_loss: 0.9976, step time: 0.3423
Batch 244/248, train_loss: 0.9891, step time: 0.3641
Batch 245/248, train_loss: 0.2435, step time: 0.3863
Batch 246/248, train_loss: 0.9848, step time: 0.3824
Batch 247/248, train_loss: 0.1259, step time: 0.3541
Batch 248/248, train_loss: 1.0000, step time: 0.3608
```

Labels



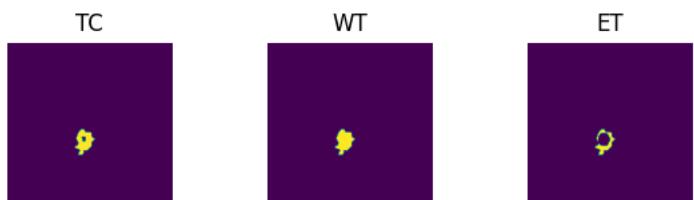
Predictions



VAL

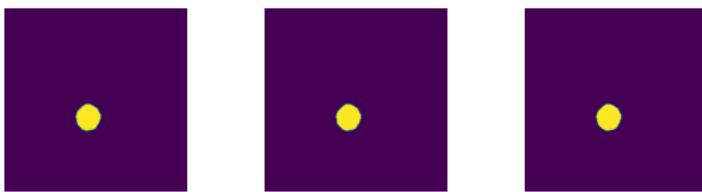
```
Batch 1/31, val_loss: 0.8879
Batch 2/31, val_loss: 0.9996
Batch 3/31, val_loss: 0.9973
Batch 4/31, val_loss: 0.9943
Batch 5/31, val_loss: 0.9999
Batch 6/31, val_loss: 0.7442
Batch 7/31, val_loss: 0.8634
Batch 8/31, val_loss: 0.9876
Batch 9/31, val_loss: 0.7250
Batch 10/31, val_loss: 0.9805
Batch 11/31, val_loss: 0.8753
Batch 12/31, val_loss: 0.9817
Batch 13/31, val_loss: 0.9889
Batch 14/31, val_loss: 0.9756
Batch 15/31, val_loss: 0.9991
Batch 16/31, val_loss: 0.9884
Batch 17/31, val_loss: 0.9995
Batch 18/31, val_loss: 0.9879
Batch 19/31, val_loss: 0.7993
Batch 20/31, val_loss: 0.8843
Batch 21/31, val_loss: 0.9387
Batch 22/31, val_loss: 0.9994
Batch 23/31, val_loss: 0.9971
Batch 24/31, val_loss: 0.7548
Batch 25/31, val_loss: 0.8269
Batch 26/31, val_loss: 0.9635
Batch 27/31, val_loss: 0.9992
Batch 28/31, val_loss: 0.8059
Batch 29/31, val_loss: 0.9995
Batch 30/31, val_loss: 0.9915
Batch 31/31, val_loss: 0.9951
```

Labels



Predictions

Predictions



epoch 56

```
average train loss: 0.6324
average validation loss: 0.9333
saved as best model: False
current mean dice: 0.2829
current TC dice: 0.2951
current WT dice: 0.3005
current ET dice: 0.2801
Best Mean Metric: 0.2862
time consuming of epoch 56 is: 1436.3303
```

epoch 57/100

TRAIN

```
Batch 1/248, train_loss: 0.1252, step time: 0.3849
Batch 2/248, train_loss: 0.9996, step time: 0.3413
Batch 3/248, train_loss: 0.9498, step time: 0.3424
Batch 4/248, train_loss: 0.9998, step time: 0.3819
Batch 5/248, train_loss: 0.7853, step time: 0.3399
Batch 6/248, train_loss: 0.7579, step time: 0.3832
Batch 7/248, train_loss: 0.1187, step time: 0.3788
Batch 8/248, train_loss: 0.7463, step time: 0.3735
Batch 9/248, train_loss: 0.0832, step time: 0.3596
Batch 10/248, train_loss: 0.8990, step time: 0.3820
Batch 11/248, train_loss: 0.7587, step time: 0.3530
Batch 12/248, train_loss: 0.9957, step time: 0.3504
Batch 13/248, train_loss: 0.9519, step time: 0.3616
Batch 14/248, train_loss: 0.0832, step time: 0.3802
Batch 15/248, train_loss: 0.8936, step time: 0.3457
Batch 16/248, train_loss: 0.7117, step time: 0.3411
Batch 17/248, train_loss: 0.9936, step time: 0.3817
Batch 18/248, train_loss: 0.9722, step time: 0.3447
Batch 19/248, train_loss: 0.1620, step time: 0.3464
Batch 20/248, train_loss: 0.6979, step time: 0.3434
Batch 21/248, train_loss: 0.2613, step time: 0.3454
Batch 22/248, train_loss: 0.9999, step time: 0.3791
Batch 23/248, train_loss: 0.9997, step time: 0.3429
Batch 24/248, train_loss: 0.3529, step time: 0.3400
Batch 25/248, train_loss: 0.1419, step time: 0.3739
Batch 26/248, train_loss: 0.9799, step time: 0.3721
Batch 27/248, train_loss: 0.1141, step time: 0.3838
Batch 28/248, train_loss: 0.6789, step time: 0.3687
Batch 29/248, train_loss: 0.9873, step time: 0.3618
Batch 30/248, train_loss: 0.7319, step time: 0.3496
Batch 31/248, train_loss: 0.8731, step time: 0.3457
Batch 32/248, train_loss: 0.3002, step time: 0.3801
Batch 33/248, train_loss: 0.1182, step time: 0.3693
Batch 34/248, train_loss: 0.1073, step time: 0.3533
Batch 35/248, train_loss: 0.3163, step time: 0.3455
Batch 36/248, train_loss: 0.9979, step time: 0.3617
Batch 37/248, train_loss: 0.4755, step time: 0.3624
Batch 38/248, train_loss: 0.8514, step time: 0.3489
Batch 39/248, train_loss: 0.7584, step time: 0.3667
Batch 40/248, train_loss: 0.9999, step time: 0.3615
Batch 41/248, train_loss: 0.3181, step time: 0.3737
Batch 42/248, train_loss: 0.2046, step time: 0.3422
Batch 43/248, train_loss: 0.1070, step time: 0.3667
Batch 44/248, train_loss: 0.6075, step time: 0.3748
Batch 45/248, train_loss: 0.8512, step time: 0.3673
Batch 46/248, train_loss: 0.5265, step time: 0.3445
Batch 47/248, train_loss: 0.6681, step time: 0.3441
Batch 48/248, train_loss: 0.5789, step time: 0.3755
Batch 49/248, train_loss: 0.9639, step time: 0.3761
Batch 50/248, train_loss: 0.7267, step time: 0.3405
Batch 51/248, train_loss: 0.6740, step time: 0.3830
Batch 52/248, train_loss: 0.5360, step time: 0.3750
Batch 53/248, train_loss: 0.8839, step time: 0.3791
Batch 54/248, train_loss: 0.6958, step time: 0.3703
Batch 55/248, train_loss: 0.8868, step time: 0.3844
Batch 56/248, train_loss: 0.7097, step time: 0.3461
Batch 57/248, train_loss: 0.7334, step time: 0.3865
Batch 58/248, train_loss: 0.2422, step time: 0.3621
Batch 59/248, train_loss: 0.3420, step time: 0.3475
Batch 60/248, train_loss: 0.1989, step time: 0.3493
Batch 61/248, train_loss: 0.3527, step time: 0.3422
```

Batch 62/248, train_loss: 0.9064, step time: 0.3698
Batch 63/248, train_loss: 0.9804, step time: 0.3647
Batch 64/248, train_loss: 0.9836, step time: 0.3577
Batch 65/248, train_loss: 0.7393, step time: 0.3532
Batch 66/248, train_loss: 0.7152, step time: 0.3434
Batch 67/248, train_loss: 0.1502, step time: 0.3667
Batch 68/248, train_loss: 0.2038, step time: 0.3811
Batch 69/248, train_loss: 0.9955, step time: 0.3746
Batch 70/248, train_loss: 0.2822, step time: 0.3749
Batch 71/248, train_loss: 0.3183, step time: 0.3872
Batch 72/248, train_loss: 0.1751, step time: 0.3632
Batch 73/248, train_loss: 0.2668, step time: 0.3444
Batch 74/248, train_loss: 0.9990, step time: 0.3625
Batch 75/248, train_loss: 0.2826, step time: 0.3798
Batch 76/248, train_loss: 0.9876, step time: 0.3718
Batch 77/248, train_loss: 0.9994, step time: 0.3802
Batch 78/248, train_loss: 0.4815, step time: 0.3421
Batch 79/248, train_loss: 0.6682, step time: 0.3812
Batch 80/248, train_loss: 0.8096, step time: 0.3687
Batch 81/248, train_loss: 0.8642, step time: 0.3850
Batch 82/248, train_loss: 0.2300, step time: 0.3427
Batch 83/248, train_loss: 0.9826, step time: 0.3853
Batch 84/248, train_loss: 0.7259, step time: 0.3792
Batch 85/248, train_loss: 0.9857, step time: 0.3494
Batch 86/248, train_loss: 0.3851, step time: 0.3766
Batch 87/248, train_loss: 0.9858, step time: 0.3440
Batch 88/248, train_loss: 0.9701, step time: 0.3483
Batch 89/248, train_loss: 0.1210, step time: 0.3826
Batch 90/248, train_loss: 0.7213, step time: 0.3423
Batch 91/248, train_loss: 0.9848, step time: 0.3803
Batch 92/248, train_loss: 0.6669, step time: 0.3797
Batch 93/248, train_loss: 0.2550, step time: 0.3538
Batch 94/248, train_loss: 0.9829, step time: 0.3665
Batch 95/248, train_loss: 0.4672, step time: 0.3426
Batch 96/248, train_loss: 0.4411, step time: 0.3472
Batch 97/248, train_loss: 0.9998, step time: 0.3698

