

▼ UNETR

 Open in Colab

▼ Environment Set Up

▼ Requirements

```
1 !pip install monai[einops]

→ Collecting monai[einops]
  Downloading monai-1.3.1-py3-none-any.whl (1.4 MB)
  ━━━━━━━━━━━━━━━━ 1.4/1.4 MB 8.7 MB/s eta 0:00:00
Requirement already satisfied: torch>=1.9 in /usr/local/lib/python3.10/dist-packages (fr
Requirement already satisfied: numpy>=1.20 in /usr/local/lib/python3.10/dist-packages (fr
Collecting einops (from monai[einops])
  Downloading einops-0.8.0-py3-none-any.whl (43 kB)
  ━━━━━━━━━━━━━━━━ 43.2/43.2 kB 4.1 MB/s eta 0:00:00
Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (fr
Requirement already satisfied: typing-extensions>=4.8.0 in /usr/local/lib/python3.10/dis
Requirement already satisfied: sympy in /usr/local/lib/python3.10/dist-packages (from t
Requirement already satisfied: networkx in /usr/local/lib/python3.10/dist-packages (from t
Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages (from t
Requirement already satisfied: fsspec in /usr/local/lib/python3.10/dist-packages (from t
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
```

```
Collecting nvidia-nvjitlink-cu12 (from nvidia-cusolver-cu12==11.4.5.107->torch>=1.9->mor  
  Downloading nvidia_nvjitlink_cu12-12.5.40-py3-none-manylinux2014_x86_64.whl (21.3 MB)  
           21.3/21.3 MB 58.2 MB/s eta 0:00:00  
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: mpmath>=0.19 in /usr/local/lib/python3.10/dist-packages  
Installing collected packages: nvidia-nvtx-cu12, nvidia-nvjitlink-cu12, nvidia-nccl-cu12  
Successfully installed einops-0.8.0 monai-1.3.1 nvidia-cublas-cu12-12.1.3.1 nvidia-cuda-
```

✓ 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 UNTR
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 0x7accf91e9eb0>
```

```
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 = "UNETR"
3 model = UNTR
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/ |
|---|-----------|--------|------------|------------------------|--------------------------|-------------|--------------------|
| 0 | 100381A | Male | Lung | GE 1.5 T Signa HDxt | 0.86x0.86 | 256x256x126 | |
| 1 | 100414B | Female | Breast | GE 1.5 T Signa HDxt | 0.59x0.59 | 512x512x50 | |
| 2 | 100132B | Male | Lung | GE 1.5 T Signa HDxt | 0.5x0.5 | 512x512x156 | |
| 3 | 100212A | Female | Lung | GE 1.5 T Signa HDxt | 1.17x1.17 | 256x256x98 | |
| 4 | 100243B | Female | Breast | GE 1.5 T Signa HDxt | 0.86x0.86 | 256x256x100 | |

```
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))
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 init_epoch is not None:
6     if os.path.exists(f"outputs/{model_name}/last_{model_name}_{init_epoch}.pth"):
7         model.load_state_dict(torch.load(f"outputs/{model_name}/last_{model_name}_{init_ε
8
9 # Report File Headers
10 if init_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=F
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     if epoch > 0:
106         os.remove(
107             os.path.join(f"outputs/{model_name}/last_{model_name}_{epoch}.pth")
108         )
109
110     # Update Best Metric
111     if metric > best_metric:
112         # Save best state
113         best_metric = metric
114         best_metric_epoch = epoch + 1
115         best_metrics_epochs_and_time[0].append(best_metric)
116         best_metrics_epochs_and_time[1].append(best_metric_epoch)
117         best_metrics_epochs_and_time[2].append(time.time() - total_start)
118         # Save best model
119         torch.save(
120             model.state_dict(),
121             os.path.join(f"outputs/{model_name}/best_{model_name}_{epoch+1}.pth")
122         )
123         # Remove previous best model
124         if best_metric_update_epoch != -1:
125             os.remove(
126                 os.path.join(f"outputs/{model_name}/best_{model_name}_{best_metric_update_epoch}.pth")
127             )
128         # Update best epoch
129         best_metric_update_epoch = epoch + 1
130         best_metric_update = True
131
132     # Save all metrics in csv
133     with open(f"outputs/{model_name}/{model_name}_metrics.csv", "a") as f:
134         f.write(f"{epoch + 1},{metric},{metric_tc},{metric_wt},{metric_et},{epoch}")
135
136     # REPORT
137     print(f"epoch {epoch + 1}\n"
138           f"    average train loss: {epoch_loss:.4f}\n"
139           f"    average validation loss: {val_loss:.4f}\n"
140           f"    saved as best model: {best_metric_update}\n"
141           f"    current mean dice: {metric_values[-1]:.4f}\n"
142           f"    current TC dice: {metric_values_tc[-1]:.4f}\n"
143           f"    current WT dice: {metric_values_wt[-1]:.4f}\n"
144           f"    current ET dice: {metric_values_et[-1]:.4f}")
145     print(f"Best Mean Metric: {best_metric:.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: 0.9792, step time: 8.8876
Batch 2/248, train_loss: 0.9999, step time: 1.0018
Batch 3/248, train_loss: 0.9995, step time: 1.0037
Batch 4/248, train_loss: 0.9999, step time: 1.0080
Batch 5/248, train_loss: 0.9976, step time: 1.0127
Batch 6/248, train_loss: 0.9973, step time: 1.0131
Batch 7/248, train_loss: 0.9543, step time: 1.0148
Batch 8/248, train_loss: 0.9920, step time: 1.0156
Batch 9/248, train_loss: 0.9710, step time: 1.0176
Batch 10/248, train_loss: 0.9989, step time: 1.0117
Batch 11/248, train_loss: 0.9975, step time: 1.0123
Batch 12/248, train_loss: 0.9999, step time: 1.0106
Batch 13/248, train_loss: 0.9991, step time: 1.0131
Batch 14/248, train_loss: 0.9305, step time: 1.0190
Batch 15/248, train_loss: 0.9984, step time: 1.0142
Batch 16/248, train_loss: 0.9962, step time: 1.0141
Batch 17/248, train_loss: 0.9998, step time: 1.0099
Batch 18/248, train_loss: 0.9995, step time: 1.0110
Batch 19/248, train_loss: 0.9631, step time: 1.0191
Batch 20/248, train_loss: 0.9945, step time: 1.0149
Batch 21/248, train_loss: 0.9829, step time: 1.0198
Batch 22/248, train_loss: 1.0000, step time: 1.0097
Batch 23/248, train_loss: 0.9999, step time: 1.0131
Batch 24/248, train_loss: 0.9856, step time: 1.0203
Batch 25/248, train_loss: 0.9100, step time: 1.0231
Batch 26/248, train_loss: 0.9995, step time: 1.0151
Batch 27/248, train_loss: 0.9528, step time: 1.0234
Batch 28/248, train_loss: 0.9945, step time: 1.0200
Batch 29/248, train_loss: 0.9997, step time: 1.0152
Batch 30/248, train_loss: 0.9943, step time: 1.0198
Batch 31/248, train_loss: 0.9980, step time: 1.0155
Batch 32/248, train_loss: 0.9800, step time: 1.0190
Batch 33/248, train_loss: 0.9473, step time: 1.0203
Batch 34/248, train_loss: 0.9637, step time: 1.0198
Batch 35/248, train_loss: 0.9835, step time: 1.0186
Batch 36/248, train_loss: 0.9999, step time: 1.0118
Batch 37/248, train_loss: 0.9859, step time: 1.0178
Batch 38/248, train_loss: 0.9969, step time: 1.0192
Batch 39/248, train_loss: 0.9902, step time: 1.0150
Batch 40/248, train_loss: 1.0000, step time: 1.0089
Batch 41/248, train_loss: 0.9725, step time: 1.0216
Batch 42/248, train_loss: 0.9735, step time: 1.0207
Batch 43/248, train_loss: 0.9563, step time: 1.0230
Batch 44/248, train_loss: 0.9873, step time: 1.0239
Batch 45/248, train_loss: 0.9975, step time: 1.0222
Batch 46/248, train_loss: 0.9885, step time: 1.0302
Batch 47/248, train_loss: 0.9934, step time: 1.0233
Batch 48/248, train_loss: 0.9894, step time: 1.0259
Batch 49/248, train_loss: 0.9994, step time: 1.0168
Batch 50/248, train_loss: 0.9943, step time: 1.0227
Batch 51/248, train_loss: 0.9934, step time: 1.0235
Batch 52/248, train_loss: 0.9893, step time: 1.0240
Batch 53/248, train_loss: 0.9970, step time: 1.0225

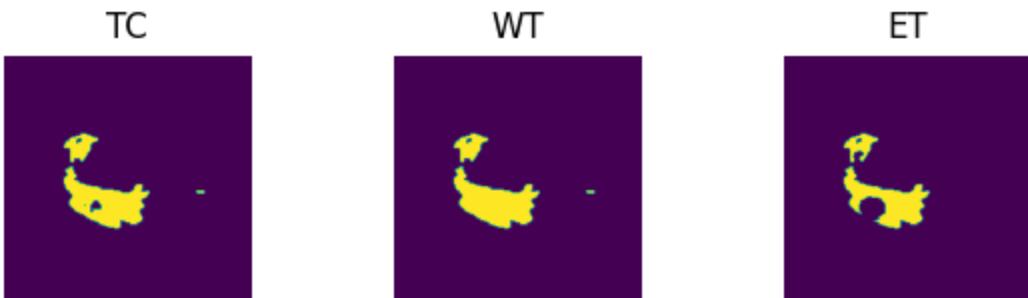
Batch 54/248, train_loss: 0.9925, step time: 1.0224
Batch 55/248, train_loss: 0.9982, step time: 1.0210
Batch 56/248, train_loss: 0.9932, step time: 1.0228
Batch 57/248, train_loss: 0.9943, step time: 1.0253
Batch 58/248, train_loss: 0.9750, step time: 1.0277
Batch 59/248, train_loss: 0.9808, step time: 1.0392
Batch 60/248, train_loss: 0.9736, step time: 1.0274
Batch 61/248, train_loss: 0.9819, step time: 1.0204
Batch 62/248, train_loss: 0.9983, step time: 1.0163
Batch 63/248, train_loss: 0.9994, step time: 1.0164
Batch 64/248, train_loss: 0.9993, step time: 1.0173
Batch 65/248, train_loss: 0.9954, step time: 1.0248
Batch 66/248, train_loss: 0.9945, step time: 1.0238
Batch 67/248, train_loss: 0.9368, step time: 1.0276
Batch 68/248, train_loss: 0.9662, step time: 1.0307
Batch 69/248, train_loss: 0.9999, step time: 1.0197
Batch 70/248, train_loss: 0.9750, step time: 1.0297
Batch 71/248, train_loss: 0.9603, step time: 1.0292
Batch 72/248, train_loss: 0.9654, step time: 1.0233
Batch 73/248, train_loss: 0.9691, step time: 1.0208
Batch 74/248, train_loss: 0.9999, step time: 1.0098
Batch 75/248, train_loss: 0.9710, step time: 1.0249
Batch 76/248, train_loss: 0.9994, step time: 1.0176
Batch 77/248, train_loss: 0.9998, step time: 1.0176
Batch 78/248, train_loss: 0.9862, step time: 1.0247
Batch 79/248, train_loss: 0.9931, step time: 1.0242
Batch 80/248, train_loss: 0.9957, step time: 1.0243
Batch 81/248, train_loss: 0.9970, step time: 1.0229
Batch 82/248, train_loss: 0.9705, step time: 1.0285
Batch 83/248, train_loss: 0.9992, step time: 1.0229
Batch 84/248, train_loss: 0.9927, step time: 1.0225
Batch 85/248, train_loss: 0.9997, step time: 1.0216
Batch 86/248, train_loss: 0.9742, step time: 1.0270
Batch 87/248, train_loss: 0.9988, step time: 1.0245
Batch 88/248, train_loss: 0.9988, step time: 1.0212
Batch 89/248, train_loss: 0.9190, step time: 1.0314
Batch 90/248, train_loss: 0.9927, step time: 1.0264
Batch 91/248, train_loss: 0.9997, step time: 1.0201
Batch 92/248, train_loss: 0.9908, step time: 1.0263
Batch 93/248, train_loss: 0.9657, step time: 1.0303
Batch 94/248, train_loss: 0.9997, step time: 1.0198
Batch 95/248, train_loss: 0.9835, step time: 1.0325
Batch 96/248, train_loss: 0.9819, step time: 1.0280
Batch 97/248, train_loss: 1.0000, step time: 1.0182
Batch 98/248, train_loss: 0.9565, step time: 1.0307
Batch 99/248, train_loss: 0.9991, step time: 1.0252
Batch 100/248, train_loss: 0.9998, step time: 1.0228
Batch 101/248, train_loss: 0.9007, step time: 1.0344
Batch 102/248, train_loss: 0.9895, step time: 1.0287
Batch 103/248, train_loss: 0.9994, step time: 1.0227
Batch 104/248, train_loss: 0.9840, step time: 1.0274
Batch 105/248, train_loss: 0.9530, step time: 1.0220
Batch 106/248, train_loss: 0.9941, step time: 1.0219
Batch 107/248, train_loss: 0.9989, step time: 1.0207
Batch 108/248, train_loss: 0.9992, step time: 1.0213
Batch 109/248, train_loss: 0.9997, step time: 1.0176
Batch 110/248, train_loss: 0.9961, step time: 1.0215

Batch 110/248, train_loss: 0.9999, step time: 1.0211
Batch 111/248, train_loss: 0.9532, step time: 1.0271
Batch 112/248, train_loss: 0.9583, step time: 1.0269
Batch 113/248, train_loss: 1.0000, step time: 1.0177
Batch 114/248, train_loss: 0.9166, step time: 1.0306
Batch 115/248, train_loss: 0.9869, step time: 1.0273
Batch 116/248, train_loss: 0.9530, step time: 1.0300
Batch 117/248, train_loss: 0.9997, step time: 1.0190
Batch 118/248, train_loss: 0.9992, step time: 1.0230
Batch 119/248, train_loss: 0.9882, step time: 1.0238
Batch 120/248, train_loss: 0.9896, step time: 1.0236
Batch 121/248, train_loss: 0.9975, step time: 1.0241
Batch 122/248, train_loss: 0.9986, step time: 1.0248
Batch 123/248, train_loss: 0.9723, step time: 1.0269
Batch 124/248, train_loss: 0.9987, step time: 1.0238
Batch 125/248, train_loss: 0.9996, step time: 1.0212
Batch 126/248, train_loss: 0.9468, step time: 1.0285
Batch 127/248, train_loss: 0.9901, step time: 1.0273
Batch 128/248, train_loss: 0.9951, step time: 1.0271
Batch 129/248, train_loss: 0.9257, step time: 1.0305
Batch 130/248, train_loss: 0.9286, step time: 1.0290
Batch 131/248, train_loss: 0.9984, step time: 1.0199
Batch 132/248, train_loss: 0.9987, step time: 1.0158
Batch 133/248, train_loss: 0.8735, step time: 1.0260
Batch 134/248, train_loss: 1.0000, step time: 1.0084
Batch 135/248, train_loss: 0.9993, step time: 1.0202
Batch 136/248, train_loss: 0.9944, step time: 1.0249
Batch 137/248, train_loss: 0.9354, step time: 1.0268
Batch 138/248, train_loss: 0.9496, step time: 1.0271
Batch 139/248, train_loss: 0.9530, step time: 1.0310
Batch 140/248, train_loss: 0.9941, step time: 1.0255
Batch 141/248, train_loss: 0.9716, step time: 1.0280
Batch 142/248, train_loss: 0.9994, step time: 1.0201
Batch 143/248, train_loss: 0.9945, step time: 1.0240
Batch 144/248, train_loss: 0.9496, step time: 1.0314
Batch 145/248, train_loss: 0.8783, step time: 1.0317
Batch 146/248, train_loss: 0.9997, step time: 1.0197
Batch 147/248, train_loss: 0.8769, step time: 1.0298
Batch 148/248, train_loss: 0.9981, step time: 1.0244
Batch 149/248, train_loss: 0.9871, step time: 1.0296
Batch 150/248, train_loss: 0.9699, step time: 1.0311
Batch 151/248, train_loss: 0.9983, step time: 1.0247
Batch 152/248, train_loss: 0.8850, step time: 1.0351
Batch 153/248, train_loss: 0.9978, step time: 1.0256
Batch 154/248, train_loss: 0.9995, step time: 1.0225
Batch 155/248, train_loss: 0.9867, step time: 1.0282
Batch 156/248, train_loss: 0.9884, step time: 1.0226
Batch 157/248, train_loss: 0.9547, step time: 1.0274
Batch 158/248, train_loss: 0.9998, step time: 1.0143
Batch 159/248, train_loss: 0.9998, step time: 1.0184
Batch 160/248, train_loss: 0.9694, step time: 1.0280
Batch 161/248, train_loss: 0.9877, step time: 1.0280
Batch 162/248, train_loss: 0.8532, step time: 1.0272
Batch 163/248, train_loss: 0.9989, step time: 1.0200
Batch 164/248, train_loss: 0.9881, step time: 1.0240
Batch 165/248, train_loss: 0.9998, step time: 1.0182
Batch 166/248, train_loss: 0.9975, step time: 1.0236

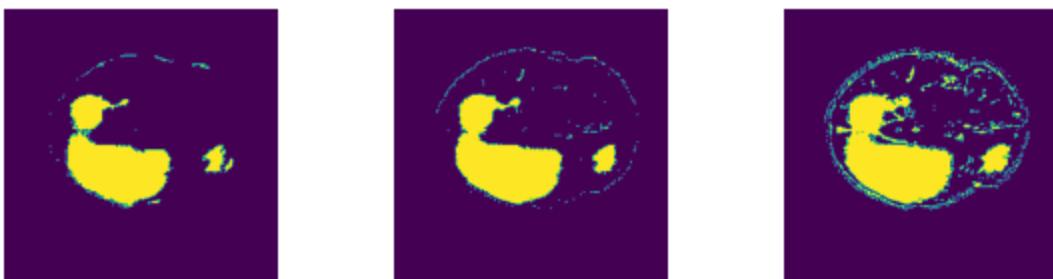
Batch 167/248, train_loss: 0.9887, step time: 1.0265
Batch 168/248, train_loss: 0.9881, step time: 1.0276
Batch 169/248, train_loss: 0.9707, step time: 1.0321
Batch 170/248, train_loss: 0.9990, step time: 1.0241
Batch 171/248, train_loss: 0.9037, step time: 1.0307
Batch 172/248, train_loss: 0.9999, step time: 1.0189
Batch 173/248, train_loss: 0.9484, step time: 1.0291
Batch 174/248, train_loss: 0.9994, step time: 1.0184
Batch 175/248, train_loss: 0.9210, step time: 1.0300
Batch 176/248, train_loss: 0.9941, step time: 1.0211
Batch 177/248, train_loss: 0.9998, step time: 1.0114
Batch 178/248, train_loss: 0.9673, step time: 1.0235
Batch 179/248, train_loss: 0.8309, step time: 1.0283
Batch 180/248, train_loss: 0.9876, step time: 1.0247
Batch 181/248, train_loss: 0.9394, step time: 1.0286
Batch 182/248, train_loss: 0.9974, step time: 1.0235
Batch 183/248, train_loss: 0.9867, step time: 1.0275
Batch 184/248, train_loss: 0.9976, step time: 1.0244
Batch 185/248, train_loss: 0.9873, step time: 1.0298
Batch 186/248, train_loss: 0.9732, step time: 1.0282
Batch 187/248, train_loss: 0.9741, step time: 1.0269
Batch 188/248, train_loss: 0.9886, step time: 1.0258
Batch 189/248, train_loss: 0.9999, step time: 1.0176
Batch 190/248, train_loss: 0.9744, step time: 1.0286
Batch 191/248, train_loss: 0.9998, step time: 1.0102
Batch 192/248, train_loss: 0.9703, step time: 1.0224
Batch 193/248, train_loss: 0.9936, step time: 1.0216
Batch 194/248, train_loss: 0.9929, step time: 1.0215
Batch 195/248, train_loss: 0.9999, step time: 1.0162
Batch 196/248, train_loss: 1.0000, step time: 1.0114
Batch 197/248, train_loss: 0.9964, step time: 1.0191
Batch 198/248, train_loss: 1.0000, step time: 1.0126
Batch 199/248, train_loss: 0.9889, step time: 1.0227
Batch 200/248, train_loss: 0.9871, step time: 1.0241
Batch 201/248, train_loss: 0.9671, step time: 1.0278
Batch 202/248, train_loss: 0.9930, step time: 1.0223
Batch 203/248, train_loss: 0.9994, step time: 1.0210
Batch 204/248, train_loss: 0.9224, step time: 1.0276
Batch 205/248, train_loss: 0.9972, step time: 1.0206
Batch 206/248, train_loss: 0.9998, step time: 1.0150
Batch 207/248, train_loss: 0.9630, step time: 1.0248
Batch 208/248, train_loss: 0.9868, step time: 1.0215
Batch 209/248, train_loss: 0.9809, step time: 1.0202
Batch 210/248, train_loss: 0.9620, step time: 1.0233
Batch 211/248, train_loss: 0.9592, step time: 1.0233
Batch 212/248, train_loss: 0.9949, step time: 1.0209
Batch 213/248, train_loss: 0.9939, step time: 1.0207
Batch 214/248, train_loss: 0.9768, step time: 1.0221
Batch 215/248, train_loss: 0.9957, step time: 1.0212
Batch 216/248, train_loss: 0.9613, step time: 1.0264
Batch 217/248, train_loss: 0.9979, step time: 1.0186
Batch 218/248, train_loss: 0.9998, step time: 1.0131
Batch 219/248, train_loss: 0.9769, step time: 1.0262
Batch 220/248, train_loss: 0.9957, step time: 1.0241
Batch 221/248, train_loss: 0.9951, step time: 1.0207
Batch 222/248, train_loss: 0.9663, step time: 1.0226
Batch 223/248, train_loss: 0.9320, step time: 1.0201

```
Batch 223/248, train_loss: 0.9999, step time: 1.0201
Batch 224/248, train_loss: 0.9558, step time: 1.0215
Batch 225/248, train_loss: 0.9997, step time: 1.0131
Batch 226/248, train_loss: 0.9977, step time: 1.0187
Batch 227/248, train_loss: 0.9761, step time: 1.0219
Batch 228/248, train_loss: 0.9949, step time: 1.0204
Batch 229/248, train_loss: 0.9274, step time: 1.0224
Batch 230/248, train_loss: 0.9772, step time: 1.0244
Batch 231/248, train_loss: 0.9996, step time: 1.0248
Batch 232/248, train_loss: 0.9762, step time: 1.0256
Batch 233/248, train_loss: 1.0000, step time: 1.0097
Batch 234/248, train_loss: 0.9992, step time: 1.0171
Batch 235/248, train_loss: 0.9994, step time: 1.0137
Batch 236/248, train_loss: 0.9996, step time: 1.0151
Batch 237/248, train_loss: 0.9392, step time: 1.0243
Batch 238/248, train_loss: 0.9696, step time: 1.0225
Batch 239/248, train_loss: 0.8070, step time: 1.0218
Batch 240/248, train_loss: 0.9930, step time: 1.0179
Batch 241/248, train_loss: 0.9999, step time: 1.0137
Batch 242/248, train_loss: 0.9973, step time: 1.0194
Batch 243/248, train_loss: 0.9998, step time: 1.0162
Batch 244/248, train_loss: 0.9991, step time: 1.0177
Batch 245/248, train_loss: 0.9622, step time: 1.0248
Batch 246/248, train_loss: 0.9991, step time: 1.0168
Batch 247/248, train_loss: 0.8701, step time: 1.0256
Batch 248/248, train_loss: 1.0000, step time: 1.0116
```

Labels



Predictions



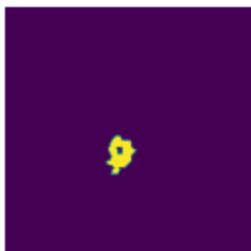
VAL

```
Batch 1/31, val_loss: 0.9876
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9997
Batch 4/31, val_loss: 0.9988
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.9194
Batch 7/31, val_loss: 0.9824
```

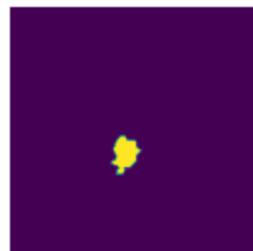
```
Batch 8/31, val_loss: 0.9986
Batch 9/31, val_loss: 0.9328
Batch 10/31, val_loss: 0.9980
Batch 11/31, val_loss: 0.9889
Batch 12/31, val_loss: 0.9993
Batch 13/31, val_loss: 0.9989
Batch 14/31, val_loss: 0.9985
Batch 15/31, val_loss: 1.0000
Batch 16/31, val_loss: 0.9996
Batch 17/31, val_loss: 0.9998
Batch 18/31, val_loss: 0.9990
Batch 19/31, val_loss: 0.9693
Batch 20/31, val_loss: 0.9858
Batch 21/31, val_loss: 0.9943
Batch 22/31, val_loss: 0.9998
Batch 23/31, val_loss: 0.9997
Batch 24/31, val_loss: 0.8962
Batch 25/31, val_loss: 0.9789
Batch 26/31, val_loss: 0.9963
Batch 27/31, val_loss: 0.9999
Batch 28/31, val_loss: 0.9758
Batch 29/31, val_loss: 1.0000
Batch 30/31, val_loss: 0.9996
Batch 31/31, val_loss: 0.9994
```

Labels

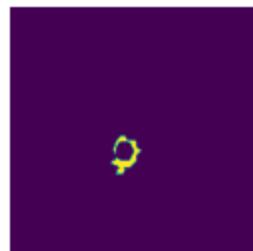
TC



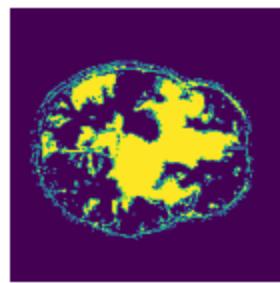
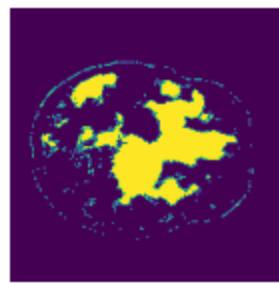
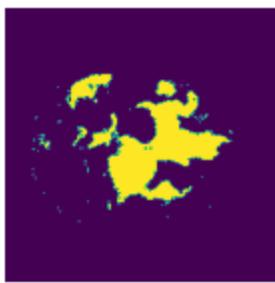
WT



ET



Predictions



epoch 1

```
average train loss: 0.9795
average validation loss: 0.9870
saved as best model: True
current mean dice: 0.0763
current TC dice: 0.0996
current WT dice: 0.0833
current ET dice: 0.0509
```

Best Mean Metric: 0.0763

.....

```
time consuming of epoch 1 is: 2991.6128
-----
epoch 2/100
TRAIN
    Batch 1/248, train_loss: 0.9167, step time: 1.0292
    Batch 2/248, train_loss: 0.9999, step time: 1.0180
    Batch 3/248, train_loss: 0.9987, step time: 1.0178
    Batch 4/248, train_loss: 0.9999, step time: 1.0114
    Batch 5/248, train_loss: 0.9934, step time: 1.0215
    Batch 6/248, train_loss: 0.9923, step time: 1.0273
    Batch 7/248, train_loss: 0.8775, step time: 1.0290
    Batch 8/248, train_loss: 0.9801, step time: 1.0264
    Batch 9/248, train_loss: 0.9296, step time: 1.0282
    Batch 10/248, train_loss: 0.9975, step time: 1.0226
    Batch 11/248, train_loss: 0.9949, step time: 1.0274
    Batch 12/248, train_loss: 0.9999, step time: 1.0200
    Batch 13/248, train_loss: 0.9980, step time: 1.0282
    Batch 14/248, train_loss: 0.8598, step time: 1.0336
    Batch 15/248, train_loss: 0.9968, step time: 1.0263
    Batch 16/248, train_loss: 0.9924, step time: 1.0295
    Batch 17/248, train_loss: 0.9998, step time: 1.0251
    Batch 18/248, train_loss: 0.9992, step time: 1.0246
    Batch 19/248, train_loss: 0.9291, step time: 1.0304
    Batch 20/248, train_loss: 0.9899, step time: 1.0287
    Batch 21/248, train_loss: 0.9685, step time: 1.0300
    Batch 22/248, train_loss: 1.0000, step time: 1.0144
    Batch 23/248, train_loss: 0.9999, step time: 1.0123
    Batch 24/248, train_loss: 0.9754, step time: 1.0242
    Batch 25/248, train_loss: 0.8491, step time: 1.0270
    Batch 26/248, train_loss: 0.9993, step time: 1.0203
    Batch 27/248, train_loss: 0.9205, step time: 1.0258
    Batch 28/248, train_loss: 0.9910, step time: 1.0241
    Batch 29/248, train_loss: 0.9996, step time: 1.0178
    Batch 30/248, train_loss: 0.9959, step time: 1.0246
    Batch 31/248, train_loss: 0.9965, step time: 1.0243
    Batch 32/248, train_loss: 0.9680, step time: 1.0303
    Batch 33/248, train_loss: 0.9161, step time: 1.0315
    Batch 34/248, train_loss: 0.9438, step time: 1.0324
    Batch 35/248, train_loss: 0.9742, step time: 1.0313
    Batch 36/248, train_loss: 0.9999, step time: 1.0227
    Batch 37/248, train_loss: 0.9780, step time: 1.0319
    Batch 38/248, train_loss: 0.9953, step time: 1.0310
    Batch 39/248, train_loss: 0.9803, step time: 1.0296
    Batch 40/248, train_loss: 1.0000, step time: 1.0203
    Batch 41/248, train_loss: 0.9574, step time: 1.0332
    Batch 42/248, train_loss: 0.9597, step time: 1.0307
    Batch 43/248, train_loss: 0.9333, step time: 1.0288
    Batch 44/248, train_loss: 0.9857, step time: 1.0270
    Batch 45/248, train_loss: 0.9961, step time: 1.0301
    Batch 46/248, train_loss: 0.9827, step time: 1.0315
    Batch 47/248, train_loss: 0.9899, step time: 1.0276
    Batch 48/248, train_loss: 0.9845, step time: 1.0280
    Batch 49/248, train_loss: 0.9993, step time: 1.0226
    Batch 50/248, train_loss: 0.9914, step time: 1.0290
    Batch 51/248, train_loss: 0.9894, step time: 1.0288
    Batch 52/248, train_loss: 0.9835, step time: 1.0269
    Batch 53/248, train_loss: 0.9962, step time: 1.0248
```

Batch 54/248, train_loss: 0.9884, step time: 1.0272
Batch 55/248, train_loss: 0.9973, step time: 1.0287
Batch 56/248, train_loss: 0.9901, step time: 1.0282
Batch 57/248, train_loss: 0.9914, step time: 1.0276
Batch 58/248, train_loss: 0.9629, step time: 1.0294
Batch 59/248, train_loss: 0.9729, step time: 1.0294
Batch 60/248, train_loss: 0.9608, step time: 1.0303
Batch 61/248, train_loss: 0.9737, step time: 1.0312
Batch 62/248, train_loss: 0.9974, step time: 1.0222
Batch 63/248, train_loss: 0.9991, step time: 1.0214
Batch 64/248, train_loss: 0.9990, step time: 1.0233
Batch 65/248, train_loss: 0.9943, step time: 1.0290
Batch 66/248, train_loss: 0.9915, step time: 1.0280
Batch 67/248, train_loss: 0.9104, step time: 1.0319
Batch 68/248, train_loss: 0.9528, step time: 1.0287
Batch 69/248, train_loss: 0.9998, step time: 1.0208
Batch 70/248, train_loss: 0.9639, step time: 1.0354
Batch 71/248, train_loss: 0.9429, step time: 1.0342
Batch 72/248, train_loss: 0.9516, step time: 1.0297
Batch 73/248, train_loss: 0.9571, step time: 1.0320
Batch 74/248, train_loss: 0.9999, step time: 1.0197
Batch 75/248, train_loss: 0.9583, step time: 1.0289
Batch 76/248, train_loss: 0.9993, step time: 1.0225
Batch 77/248, train_loss: 0.9998, step time: 1.0202
Batch 78/248, train_loss: 0.9805, step time: 1.0265
Batch 79/248, train_loss: 0.9900, step time: 1.0271
Batch 80/248, train_loss: 0.9937, step time: 1.0224
Batch 81/248, train_loss: 0.9958, step time: 1.0207
Batch 82/248, train_loss: 0.9591, step time: 1.0259
Batch 83/248, train_loss: 0.9991, step time: 1.0209
Batch 84/248, train_loss: 0.9895, step time: 1.0230
Batch 85/248, train_loss: 0.9996, step time: 1.0179
Batch 86/248, train_loss: 0.9647, step time: 1.0224
Batch 87/248, train_loss: 0.9984, step time: 1.0193
Batch 88/248, train_loss: 0.9985, step time: 1.0191
Batch 89/248, train_loss: 0.8890, step time: 1.0290
Batch 90/248, train_loss: 0.9902, step time: 1.0236
Batch 91/248, train_loss: 0.9996, step time: 1.0211
Batch 92/248, train_loss: 0.9872, step time: 1.0274
Batch 93/248, train_loss: 0.9527, step time: 1.0298
Batch 94/248, train_loss: 0.9995, step time: 1.0226
Batch 95/248, train_loss: 0.9781, step time: 1.0251
Batch 96/248, train_loss: 0.9759, step time: 1.0273
Batch 97/248, train_loss: 1.0000, step time: 1.0125
Batch 98/248, train_loss: 0.9399, step time: 1.0245
Batch 99/248, train_loss: 0.9989, step time: 1.0194
Batch 100/248, train_loss: 0.9998, step time: 1.0128
Batch 101/248, train_loss: 0.8692, step time: 1.0239
Batch 102/248, train_loss: 0.9858, step time: 1.0192
Batch 103/248, train_loss: 0.9992, step time: 1.0171
Batch 104/248, train_loss: 0.9787, step time: 1.0227
Batch 105/248, train_loss: 0.9380, step time: 1.0252
Batch 106/248, train_loss: 0.9916, step time: 1.0208
Batch 107/248, train_loss: 0.9984, step time: 1.0173
Batch 108/248, train_loss: 0.9990, step time: 1.0173
Batch 109/248, train_loss: 0.9996, step time: 1.0206
- - - - - 100/248 0.9991 1.0000

```
Batch 110/248, train_loss: 0.9944, step time: 1.022/
Batch 111/248, train_loss: 0.9378, step time: 1.0304
Batch 112/248, train_loss: 0.9434, step time: 1.0311
Batch 113/248, train_loss: 0.9999, step time: 1.0194
Batch 114/248, train_loss: 0.8940, step time: 1.0286
Batch 115/248, train_loss: 0.9829, step time: 1.0249
Batch 116/248, train_loss: 0.9380, step time: 1.0267
Batch 117/248, train_loss: 0.9996, step time: 1.0172
Batch 118/248, train_loss: 0.9987, step time: 1.0198
Batch 119/248, train_loss: 0.9852, step time: 1.0249
Batch 120/248, train_loss: 0.9862, step time: 1.0245
Batch 121/248, train_loss: 0.9966, step time: 1.0236
Batch 122/248, train_loss: 0.9982, step time: 1.0243
Batch 123/248, train_loss: 0.9631, step time: 1.0292
Batch 124/248, train_loss: 0.9980, step time: 1.0238
Batch 125/248, train_loss: 0.9996, step time: 1.0238
Batch 126/248, train_loss: 0.9327, step time: 1.0298
Batch 127/248, train_loss: 0.9866, step time: 1.0300
Batch 128/248, train_loss: 0.9934, step time: 1.0302
Batch 129/248, train_loss: 0.9030, step time: 1.0360
Batch 130/248, train_loss: 0.9081, step time: 1.0317
Batch 131/248, train_loss: 0.9979, step time: 1.0263
Batch 132/248, train_loss: 0.9982, step time: 1.0245
Batch 133/248, train_loss: 0.8414, step time: 1.0288
Batch 134/248, train_loss: 1.0000, step time: 1.0175
Batch 135/248, train_loss: 0.9992, step time: 1.0238
Batch 136/248, train_loss: 0.9925, step time: 1.0262
Batch 137/248, train_loss: 0.9178, step time: 1.0315
Batch 138/248, train_loss: 0.9350, step time: 1.0283
Batch 139/248, train_loss: 0.9391, step time: 1.0289
Batch 140/248, train_loss: 0.9924, step time: 1.0261
Batch 141/248, train_loss: 0.9622, step time: 1.0319
Batch 142/248, train_loss: 0.9994, step time: 1.0278
Batch 143/248, train_loss: 0.9926, step time: 1.0269
Batch 144/248, train_loss: 0.9355, step time: 1.0299
Batch 145/248, train_loss: 0.8488, step time: 1.0329
Batch 146/248, train_loss: 0.9996, step time: 1.0229
Batch 147/248, train_loss: 0.8435, step time: 1.0301
Batch 148/248, train_loss: 0.9978, step time: 1.0240
Batch 149/248, train_loss: 0.9829, step time: 1.0305
Batch 150/248, train_loss: 0.9641, step time: 1.0331
Batch 151/248, train_loss: 0.9978, step time: 1.0233
Batch 152/248, train_loss: 0.8570, step time: 1.0259
Batch 153/248, train_loss: 0.9973, step time: 1.0220
Batch 154/248, train_loss: 0.9994, step time: 1.0190
Batch 155/248, train_loss: 0.9826, step time: 1.0302
Batch 156/248, train_loss: 0.9845, step time: 1.0286
Batch 157/248, train_loss: 0.9428, step time: 1.0284
Batch 158/248, train_loss: 0.9998, step time: 1.0206
Batch 159/248, train_loss: 0.9998, step time: 1.0250
Batch 160/248, train_loss: 0.9607, step time: 1.0313
Batch 161/248, train_loss: 0.9839, step time: 1.0327
Batch 162/248, train_loss: 0.8179, step time: 1.0323
Batch 163/248, train_loss: 0.9986, step time: 1.0243
Batch 164/248, train_loss: 0.9847, step time: 1.0300
Batch 165/248, train_loss: 0.9998, step time: 1.0235
Batch 166/248, train loss: 0.9967, step time: 1.0258
```

Batch 167/248, train_loss: 0.9853, step time: 1.0296
Batch 168/248, train_loss: 0.9843, step time: 1.0286
Batch 169/248, train_loss: 0.9615, step time: 1.0268
Batch 170/248, train_loss: 0.9988, step time: 1.0197
Batch 171/248, train_loss: 0.8792, step time: 1.0253
Batch 172/248, train_loss: 0.9999, step time: 1.0131
Batch 173/248, train_loss: 0.9351, step time: 1.0276
Batch 174/248, train_loss: 0.9991, step time: 1.0214
Batch 175/248, train_loss: 0.9015, step time: 1.0289
Batch 176/248, train_loss: 0.9923, step time: 1.0261
Batch 177/248, train_loss: 0.9997, step time: 1.0223
Batch 178/248, train_loss: 0.9584, step time: 1.0311
Batch 179/248, train_loss: 0.7927, step time: 1.0327
Batch 180/248, train_loss: 0.9839, step time: 1.0317
Batch 181/248, train_loss: 0.9232, step time: 1.0311
Batch 182/248, train_loss: 0.9968, step time: 1.0288
Batch 183/248, train_loss: 0.9825, step time: 1.0329
Batch 184/248, train_loss: 0.9968, step time: 1.0294
Batch 185/248, train_loss: 0.9835, step time: 1.0312
Batch 186/248, train_loss: 0.9655, step time: 1.0305
Batch 187/248, train_loss: 0.9660, step time: 1.0342
Batch 188/248, train_loss: 0.9853, step time: 1.0295
Batch 189/248, train_loss: 0.9999, step time: 1.0193
Batch 190/248, train_loss: 0.9664, step time: 1.0290
Batch 191/248, train_loss: 0.9997, step time: 1.0203
Batch 192/248, train_loss: 0.9618, step time: 1.0275
Batch 193/248, train_loss: 0.9917, step time: 1.0303
Batch 194/248, train_loss: 0.9906, step time: 1.0268
Batch 195/248, train_loss: 0.9998, step time: 1.0209
Batch 196/248, train_loss: 1.0000, step time: 1.0181
Batch 197/248, train_loss: 0.9950, step time: 1.0285
Batch 198/248, train_loss: 1.0000, step time: 1.0185
Batch 199/248, train_loss: 0.9856, step time: 1.0280
Batch 200/248, train_loss: 0.9826, step time: 1.0293
Batch 201/248, train_loss: 0.9578, step time: 1.0330
Batch 202/248, train_loss: 0.9904, step time: 1.0268
Batch 203/248, train_loss: 0.9993, step time: 1.0248
Batch 204/248, train_loss: 0.9014, step time: 1.0343
Batch 205/248, train_loss: 0.9964, step time: 1.0270
Batch 206/248, train_loss: 0.9998, step time: 1.0239
Batch 207/248, train_loss: 0.9524, step time: 1.0277
Batch 208/248, train_loss: 0.9829, step time: 1.0279
Batch 209/248, train_loss: 0.9746, step time: 1.0287
Batch 210/248, train_loss: 0.9508, step time: 1.0310
Batch 211/248, train_loss: 0.9466, step time: 1.0312
Batch 212/248, train_loss: 0.9933, step time: 1.0260
Batch 213/248, train_loss: 0.9918, step time: 1.0305
Batch 214/248, train_loss: 0.9689, step time: 1.0307
Batch 215/248, train_loss: 0.9943, step time: 1.0297
Batch 216/248, train_loss: 0.9505, step time: 1.0336
Batch 217/248, train_loss: 0.9971, step time: 1.0268
Batch 218/248, train_loss: 0.9996, step time: 1.0258
Batch 219/248, train_loss: 0.9696, step time: 1.0324
Batch 220/248, train_loss: 0.9945, step time: 1.0310
Batch 221/248, train_loss: 0.9935, step time: 1.0297
Batch 222/248, train_loss: 0.9559, step time: 1.0364

```
Batch 223/248, train_loss: 0.9119, step time: 1.0555  
Batch 224/248, train_loss: 0.9422, step time: 1.0332  
Batch 225/248, train_loss: 0.9996, step time: 1.0248  
Batch 226/248, train_loss: 0.9969, step time: 1.0256  
Batch 227/248, train_loss: 0.9682, step time: 1.0301  
Batch 228/248, train_loss: 0.9932, step time: 1.0272  
Batch 229/248, train_loss: 0.9064, step time: 1.0300  
Batch 230/248, train_loss: 0.9703, step time: 1.0301  
Batch 231/248, train_loss: 0.9995, step time: 1.0210  
Batch 232/248, train_loss: 0.9682, step time: 1.0277  
Batch 233/248, train_loss: 0.9999, step time: 1.0185  
Batch 234/248, train_loss: 0.9989, step time: 1.0231  
Batch 235/248, train_loss: 0.9992, step time: 1.0243  
Batch 236/248, train_loss: 0.9995, step time: 1.0232  
Batch 237/248, train_loss: 0.9208, step time: 1.0316  
Batch 238/248, train_loss: 0.9598, step time: 1.0328  
Batch 239/248, train_loss: 0.7622, step time: 1.0331  
Batch 240/248, train_loss: 0.9909, step time: 1.0270  
Batch 241/248, train_loss: 0.9999, step time: 1.0208  
Batch 242/248, train_loss: 0.9965, step time: 1.0279  
Batch 243/248, train_loss: 0.9997, step time: 1.0195  
Batch 244/248, train_loss: 0.9988, step time: 1.0227  
Batch 245/248, train_loss: 0.9500, step time: 1.0288  
Batch 246/248, train_loss: 0.9987, step time: 1.0242  
Batch 247/248, train_loss: 0.8339, step time: 1.0290  
Batch 248/248, train_loss: 1.0000, step time: 1.0131
```

Labels

TC



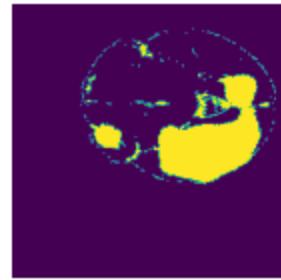
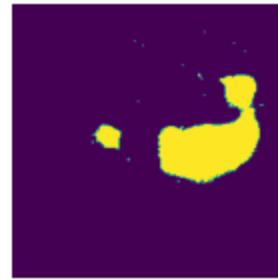
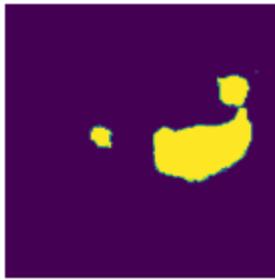
WT



ET



Predictions



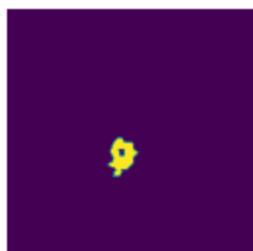
VAL

```
Batch 1/31, val_loss: 0.9846  
Batch 2/31, val_loss: 0.9999  
Batch 3/31, val_loss: 0.9997  
Batch 4/31, val_loss: 0.9986  
Batch 5/31, val_loss: 1.0000  
Batch 6/31, val_loss: 0.9057  
Batch 7/31, val_loss: 0.9785
```

```
Batch 8/31, val_loss: 0.9983
Batch 9/31, val_loss: 0.9244
Batch 10/31, val_loss: 0.9976
Batch 11/31, val_loss: 0.9861
Batch 12/31, val_loss: 0.9992
Batch 13/31, val_loss: 0.9986
Batch 14/31, val_loss: 0.9982
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9995
Batch 17/31, val_loss: 0.9997
Batch 18/31, val_loss: 0.9988
Batch 19/31, val_loss: 0.9625
Batch 20/31, val_loss: 0.9830
Batch 21/31, val_loss: 0.9928
Batch 22/31, val_loss: 0.9997
Batch 23/31, val_loss: 0.9996
Batch 24/31, val_loss: 0.8863
Batch 25/31, val_loss: 0.9739
Batch 26/31, val_loss: 0.9954
Batch 27/31, val_loss: 0.9999
Batch 28/31, val_loss: 0.9715
Batch 29/31, val_loss: 0.9999
Batch 30/31, val_loss: 0.9996
Batch 31/31, val_loss: 0.9992
```

Labels

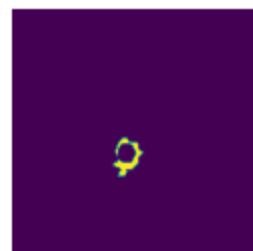
TC



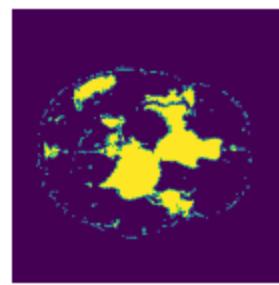
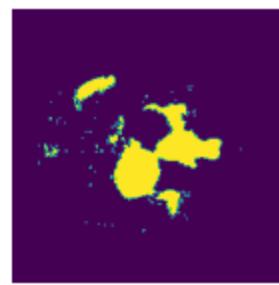
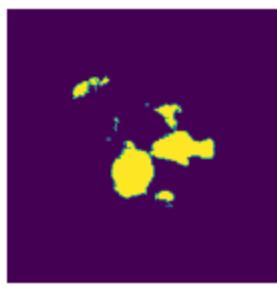
WT



ET



Predictions



epoch 2

```
average train loss: 0.9717
average validation loss: 0.9849
saved as best model: True
current mean dice: 0.1051
current TC dice: 0.1361
current WT dice: 0.1120
current ET dice: 0.0744
Best Mean Metric: 0.1051
```

```
time consuming of epoch 2 is: 1525.2285
-----
epoch 3/100
TRAIN
Batch 1/248, train_loss: 0.8917, step time: 1.0320
Batch 2/248, train_loss: 0.9998, step time: 1.0212
Batch 3/248, train_loss: 0.9983, step time: 1.0208
Batch 4/248, train_loss: 0.9999, step time: 1.0201
Batch 5/248, train_loss: 0.9912, step time: 1.0275
Batch 6/248, train_loss: 0.9893, step time: 1.0261
Batch 7/248, train_loss: 0.8430, step time: 1.0310
Batch 8/248, train_loss: 0.9736, step time: 1.0305
Batch 9/248, train_loss: 0.9057, step time: 1.0336
Batch 10/248, train_loss: 0.9966, step time: 1.0248
Batch 11/248, train_loss: 0.9918, step time: 1.0282
Batch 12/248, train_loss: 0.9998, step time: 1.0220
Batch 13/248, train_loss: 0.9974, step time: 1.0268
Batch 14/248, train_loss: 0.8195, step time: 1.0318
Batch 15/248, train_loss: 0.9956, step time: 1.0245
Batch 16/248, train_loss: 0.9892, step time: 1.0282
Batch 17/248, train_loss: 0.9996, step time: 1.0234
Batch 18/248, train_loss: 0.9987, step time: 1.0243
Batch 19/248, train_loss: 0.9071, step time: 1.0318
Batch 20/248, train_loss: 0.9860, step time: 1.0290
Batch 21/248, train_loss: 0.9576, step time: 1.0324
Batch 22/248, train_loss: 0.9999, step time: 1.0171
Batch 23/248, train_loss: 0.9999, step time: 1.0212
Batch 24/248, train_loss: 0.9666, step time: 1.0312
Batch 25/248, train_loss: 0.8074, step time: 1.0334
Batch 26/248, train_loss: 0.9992, step time: 1.0264
Batch 27/248, train_loss: 0.8956, step time: 1.0317
Batch 28/248, train_loss: 0.9876, step time: 1.0292
Batch 29/248, train_loss: 0.9995, step time: 1.0244
Batch 30/248, train_loss: 0.9975, step time: 1.0262
Batch 31/248, train_loss: 0.9950, step time: 1.0264
Batch 32/248, train_loss: 0.9566, step time: 1.0304
Batch 33/248, train_loss: 0.8923, step time: 1.0341
Batch 34/248, train_loss: 0.9254, step time: 1.0295
Batch 35/248, train_loss: 0.9652, step time: 1.0281
Batch 36/248, train_loss: 0.9999, step time: 1.0207
Batch 37/248, train_loss: 0.9689, step time: 1.0287
Batch 38/248, train_loss: 0.9936, step time: 1.0253
Batch 39/248, train_loss: 0.9760, step time: 1.0306
Batch 40/248, train_loss: 1.0000, step time: 1.0199
Batch 41/248, train_loss: 0.9434, step time: 1.0297
Batch 42/248, train_loss: 0.9457, step time: 1.0286
Batch 43/248, train_loss: 0.9123, step time: 1.0326
Batch 44/248, train_loss: 0.9733, step time: 1.0301
Batch 45/248, train_loss: 0.9938, step time: 1.0288
Batch 46/248, train_loss: 0.9764, step time: 1.0297
Batch 47/248, train_loss: 0.9862, step time: 1.0282
Batch 48/248, train_loss: 0.9790, step time: 1.0278
Batch 49/248, train_loss: 0.9991, step time: 1.0237
Batch 50/248, train_loss: 0.9881, step time: 1.0271
Batch 51/248, train_loss: 0.9859, step time: 1.0286
Batch 52/248, train_loss: 0.9778, step time: 1.0302
Batch 53/248, train_loss: 0.9946, step time: 1.0271
```

Batch 33/248, train_loss: 0.9910, step time: 1.0271
Batch 54/248, train_loss: 0.9839, step time: 1.0306
Batch 55/248, train_loss: 0.9960, step time: 1.0294
Batch 56/248, train_loss: 0.9863, step time: 1.0311
Batch 57/248, train_loss: 0.9879, step time: 1.0307
Batch 58/248, train_loss: 0.9503, step time: 1.0286
Batch 59/248, train_loss: 0.9633, step time: 1.0298
Batch 60/248, train_loss: 0.9467, step time: 1.0300
Batch 61/248, train_loss: 0.9633, step time: 1.0324
Batch 62/248, train_loss: 0.9962, step time: 1.0264
Batch 63/248, train_loss: 0.9990, step time: 1.0259
Batch 64/248, train_loss: 0.9987, step time: 1.0263
Batch 65/248, train_loss: 0.9909, step time: 1.0294
Batch 66/248, train_loss: 0.9883, step time: 1.0271
Batch 67/248, train_loss: 0.8784, step time: 1.0319
Batch 68/248, train_loss: 0.9363, step time: 1.0399
Batch 69/248, train_loss: 0.9998, step time: 1.0204
Batch 70/248, train_loss: 0.9495, step time: 1.0312
Batch 71/248, train_loss: 0.9228, step time: 1.0329
Batch 72/248, train_loss: 0.9333, step time: 1.0314
Batch 73/248, train_loss: 0.9414, step time: 1.0281
Batch 74/248, train_loss: 0.9999, step time: 1.0193
Batch 75/248, train_loss: 0.9418, step time: 1.0279
Batch 76/248, train_loss: 0.9991, step time: 1.0233
Batch 77/248, train_loss: 0.9997, step time: 1.0261
Batch 78/248, train_loss: 0.9731, step time: 1.0292
Batch 79/248, train_loss: 0.9861, step time: 1.0273
Batch 80/248, train_loss: 0.9910, step time: 1.0305
Batch 81/248, train_loss: 0.9942, step time: 1.0305
Batch 82/248, train_loss: 0.9425, step time: 1.0326
Batch 83/248, train_loss: 0.9988, step time: 1.0282
Batch 84/248, train_loss: 0.9848, step time: 1.0306
Batch 85/248, train_loss: 0.9994, step time: 1.0254
Batch 86/248, train_loss: 0.9533, step time: 1.0311
Batch 87/248, train_loss: 0.9975, step time: 1.0275
Batch 88/248, train_loss: 0.9978, step time: 1.0258
Batch 89/248, train_loss: 0.8549, step time: 1.0307
Batch 90/248, train_loss: 0.9861, step time: 1.0268
Batch 91/248, train_loss: 0.9993, step time: 1.0210
Batch 92/248, train_loss: 0.9827, step time: 1.0275
Batch 93/248, train_loss: 0.9353, step time: 1.0290
Batch 94/248, train_loss: 0.9992, step time: 1.0239
Batch 95/248, train_loss: 0.9682, step time: 1.0292
Batch 96/248, train_loss: 0.9647, step time: 1.0298
Batch 97/248, train_loss: 0.9999, step time: 1.0200
Batch 98/248, train_loss: 0.9197, step time: 1.0373
Batch 99/248, train_loss: 0.9986, step time: 1.0283
Batch 100/248, train_loss: 0.9998, step time: 1.0263
Batch 101/248, train_loss: 0.8273, step time: 1.0314
Batch 102/248, train_loss: 0.9805, step time: 1.0282
Batch 103/248, train_loss: 0.9988, step time: 1.0251
Batch 104/248, train_loss: 0.9700, step time: 1.0298
Batch 105/248, train_loss: 0.9148, step time: 1.0315
Batch 106/248, train_loss: 0.9883, step time: 1.0294
Batch 107/248, train_loss: 0.9977, step time: 1.0255
Batch 108/248, train_loss: 0.9985, step time: 1.0221
Batch 109/248, train_loss: 0.9995, step time: 1.0224

Batch 110/248, train_loss: 0.9926, step time: 1.0284
Batch 111/248, train_loss: 0.9156, step time: 1.0320
Batch 112/248, train_loss: 0.9223, step time: 1.0305
Batch 113/248, train_loss: 0.9999, step time: 1.0208
Batch 114/248, train_loss: 0.8575, step time: 1.0296
Batch 115/248, train_loss: 0.9761, step time: 1.0308
Batch 116/248, train_loss: 0.9144, step time: 1.0294
Batch 117/248, train_loss: 0.9994, step time: 1.0212
Batch 118/248, train_loss: 0.9981, step time: 1.0238
Batch 119/248, train_loss: 0.9776, step time: 1.0302
Batch 120/248, train_loss: 0.9801, step time: 1.0296
Batch 121/248, train_loss: 0.9949, step time: 1.0273
Batch 122/248, train_loss: 0.9974, step time: 1.0266
Batch 123/248, train_loss: 0.9498, step time: 1.0318
Batch 124/248, train_loss: 0.9975, step time: 1.0271
Batch 125/248, train_loss: 0.9995, step time: 1.0306
Batch 126/248, train_loss: 0.9104, step time: 1.0329
Batch 127/248, train_loss: 0.9805, step time: 1.0303
Batch 128/248, train_loss: 0.9907, step time: 1.0449
Batch 129/248, train_loss: 0.8731, step time: 1.0345
Batch 130/248, train_loss: 0.8778, step time: 1.0292
Batch 131/248, train_loss: 0.9967, step time: 1.0270
Batch 132/248, train_loss: 0.9976, step time: 1.0243
Batch 133/248, train_loss: 0.7891, step time: 1.0305
Batch 134/248, train_loss: 1.0000, step time: 1.0147
Batch 135/248, train_loss: 0.9993, step time: 1.0224
Batch 136/248, train_loss: 0.9894, step time: 1.0258
Batch 137/248, train_loss: 0.8903, step time: 1.0265
Batch 138/248, train_loss: 0.9112, step time: 1.0298
Batch 139/248, train_loss: 0.9176, step time: 1.0290
Batch 140/248, train_loss: 0.9893, step time: 1.0270
Batch 141/248, train_loss: 0.9475, step time: 1.0312
Batch 142/248, train_loss: 0.9991, step time: 1.0233
Batch 143/248, train_loss: 0.9893, step time: 1.0258
Batch 144/248, train_loss: 0.9093, step time: 1.0343
Batch 145/248, train_loss: 0.8003, step time: 1.0319
Batch 146/248, train_loss: 0.9996, step time: 1.0297
Batch 147/248, train_loss: 0.7924, step time: 1.0342
Batch 148/248, train_loss: 0.9969, step time: 1.0326
Batch 149/248, train_loss: 0.9756, step time: 1.0314
Batch 150/248, train_loss: 0.9519, step time: 1.0298
Batch 151/248, train_loss: 0.9968, step time: 1.0244
Batch 152/248, train_loss: 0.8102, step time: 1.0305
Batch 153/248, train_loss: 0.9961, step time: 1.0265
Batch 154/248, train_loss: 0.9991, step time: 1.0241
Batch 155/248, train_loss: 0.9759, step time: 1.0323
Batch 156/248, train_loss: 0.9782, step time: 1.0294
Batch 157/248, train_loss: 0.9148, step time: 1.0314
Batch 158/248, train_loss: 0.9997, step time: 1.0229
Batch 159/248, train_loss: 0.9997, step time: 1.0254
Batch 160/248, train_loss: 0.9445, step time: 1.0319
Batch 161/248, train_loss: 0.9771, step time: 1.0278
Batch 162/248, train_loss: 0.7688, step time: 1.0300
Batch 163/248, train_loss: 0.9980, step time: 1.0231
Batch 164/248, train_loss: 0.9784, step time: 1.0300
Batch 165/248, train_loss: 0.9997, step time: 1.0225
Batch 166/248, train_loss: 0.9954, step time: 1.0233

Batch 100/248, train_loss: 0.9999, step time: 1.0229
Batch 167/248, train_loss: 0.9790, step time: 1.0276
Batch 168/248, train_loss: 0.9772, step time: 1.0269
Batch 169/248, train_loss: 0.9479, step time: 1.0274
Batch 170/248, train_loss: 0.9984, step time: 1.0226
Batch 171/248, train_loss: 0.8389, step time: 1.0263
Batch 172/248, train_loss: 0.9999, step time: 1.0170
Batch 173/248, train_loss: 0.9110, step time: 1.0329
Batch 174/248, train_loss: 0.9998, step time: 1.0212
Batch 175/248, train_loss: 0.8647, step time: 1.0314
Batch 176/248, train_loss: 0.9884, step time: 1.0285
Batch 177/248, train_loss: 0.9996, step time: 1.0246
Batch 178/248, train_loss: 0.9425, step time: 1.0364
Batch 179/248, train_loss: 0.7343, step time: 1.0367
Batch 180/248, train_loss: 0.9769, step time: 1.0281
Batch 181/248, train_loss: 0.8926, step time: 1.0309
Batch 182/248, train_loss: 0.9953, step time: 1.0248
Batch 183/248, train_loss: 0.9753, step time: 1.0255
Batch 184/248, train_loss: 0.9956, step time: 1.0242
Batch 185/248, train_loss: 0.9767, step time: 1.0307
Batch 186/248, train_loss: 0.9512, step time: 1.0287
Batch 187/248, train_loss: 0.9526, step time: 1.0318
Batch 188/248, train_loss: 0.9800, step time: 1.0267
Batch 189/248, train_loss: 0.9998, step time: 1.0216
Batch 190/248, train_loss: 0.9544, step time: 1.0326
Batch 191/248, train_loss: 0.9997, step time: 1.0228
Batch 192/248, train_loss: 0.9484, step time: 1.0305
Batch 193/248, train_loss: 0.9884, step time: 1.0274
Batch 194/248, train_loss: 0.9868, step time: 1.0259
Batch 195/248, train_loss: 0.9997, step time: 1.0226
Batch 196/248, train_loss: 0.9999, step time: 1.0188
Batch 197/248, train_loss: 0.9932, step time: 1.0282
Batch 198/248, train_loss: 0.9999, step time: 1.0228
Batch 199/248, train_loss: 0.9795, step time: 1.0286
Batch 200/248, train_loss: 0.9746, step time: 1.0305
Batch 201/248, train_loss: 0.9425, step time: 1.0310
Batch 202/248, train_loss: 0.9868, step time: 1.0280
Batch 203/248, train_loss: 0.9993, step time: 1.0220
Batch 204/248, train_loss: 0.8691, step time: 1.0320
Batch 205/248, train_loss: 0.9948, step time: 1.0262
Batch 206/248, train_loss: 0.9997, step time: 1.0233
Batch 207/248, train_loss: 0.9345, step time: 1.0311
Batch 208/248, train_loss: 0.9768, step time: 1.0278
Batch 209/248, train_loss: 0.9647, step time: 1.0341
Batch 210/248, train_loss: 0.9329, step time: 1.0316
Batch 211/248, train_loss: 0.9271, step time: 1.0306
Batch 212/248, train_loss: 0.9905, step time: 1.0285
Batch 213/248, train_loss: 0.9883, step time: 1.0276
Batch 214/248, train_loss: 0.9570, step time: 1.0309
Batch 215/248, train_loss: 0.9922, step time: 1.0284
Batch 216/248, train_loss: 0.9329, step time: 1.0307
Batch 217/248, train_loss: 0.9961, step time: 1.0258
Batch 218/248, train_loss: 0.9996, step time: 1.0247
Batch 219/248, train_loss: 0.9581, step time: 1.0283
Batch 220/248, train_loss: 0.9925, step time: 1.0305
Batch 221/248, train_loss: 0.9914, step time: 1.0281
Batch 222/248, train_loss: 0.9407, step time: 1.0289

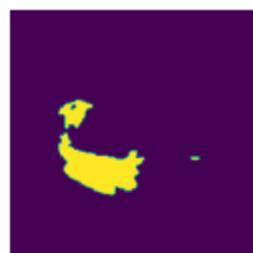
```
Batch 223/248, train_loss: 0.8821, step time: 1.0352
Batch 224/248, train_loss: 0.9220, step time: 1.0325
Batch 225/248, train_loss: 0.9996, step time: 1.0237
Batch 226/248, train_loss: 0.9958, step time: 1.0240
Batch 227/248, train_loss: 0.9557, step time: 1.0239
Batch 228/248, train_loss: 0.9906, step time: 1.0247
Batch 229/248, train_loss: 0.8756, step time: 1.0275
Batch 230/248, train_loss: 0.9594, step time: 1.0278
Batch 231/248, train_loss: 0.9993, step time: 1.0227
Batch 232/248, train_loss: 0.9565, step time: 1.0277
Batch 233/248, train_loss: 0.9999, step time: 1.0184
Batch 234/248, train_loss: 0.9985, step time: 1.0253
Batch 235/248, train_loss: 0.9988, step time: 1.0244
Batch 236/248, train_loss: 0.9994, step time: 1.0238
Batch 237/248, train_loss: 0.8916, step time: 1.0326
Batch 238/248, train_loss: 0.9451, step time: 1.0303
Batch 239/248, train_loss: 0.6983, step time: 1.0321
Batch 240/248, train_loss: 0.9874, step time: 1.0268
Batch 241/248, train_loss: 0.9998, step time: 1.0258
Batch 242/248, train_loss: 0.9948, step time: 1.0239
Batch 243/248, train_loss: 0.9996, step time: 1.0205
Batch 244/248, train_loss: 0.9985, step time: 1.0202
Batch 245/248, train_loss: 0.9306, step time: 1.0289
Batch 246/248, train_loss: 0.9982, step time: 1.0229
Batch 247/248, train_loss: 0.7858, step time: 1.0250
Batch 248/248, train_loss: 1.0000, step time: 1.0083
```

Labels

TC



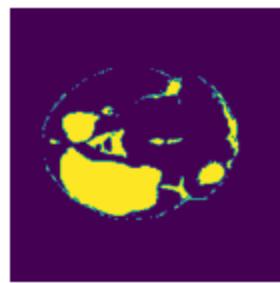
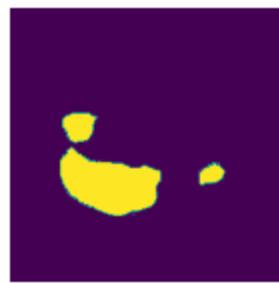
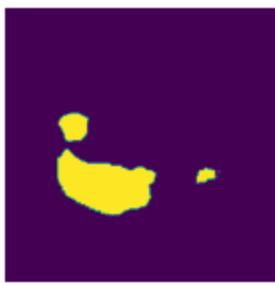
WT



ET



Predictions

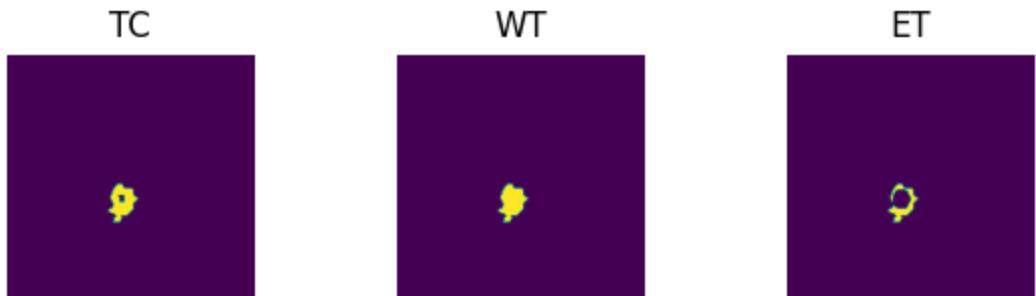


VAL

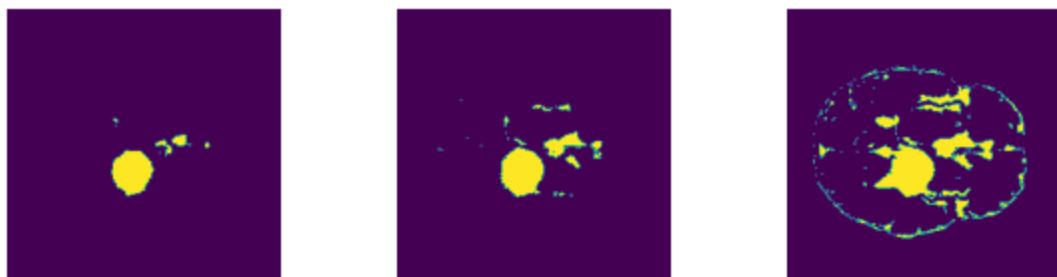
```
Batch 1/31, val_loss: 0.9812
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9996
Batch 4/31, val_loss: 0.9980
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8893
Batch 7/31, val_loss: 0.9729
```

```
Batch 1/31, val_loss: 0.9740
Batch 8/31, val_loss: 0.9978
Batch 9/31, val_loss: 0.9120
Batch 10/31, val_loss: 0.9965
Batch 11/31, val_loss: 0.9817
Batch 12/31, val_loss: 0.9991
Batch 13/31, val_loss: 0.9984
Batch 14/31, val_loss: 0.9980
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9993
Batch 17/31, val_loss: 0.9997
Batch 18/31, val_loss: 0.9982
Batch 19/31, val_loss: 0.9542
Batch 20/31, val_loss: 0.9797
Batch 21/31, val_loss: 0.9902
Batch 22/31, val_loss: 0.9996
Batch 23/31, val_loss: 0.9996
Batch 24/31, val_loss: 0.8735
Batch 25/31, val_loss: 0.9673
Batch 26/31, val_loss: 0.9937
Batch 27/31, val_loss: 0.9998
Batch 28/31, val_loss: 0.9636
Batch 29/31, val_loss: 0.9999
Batch 30/31, val_loss: 0.9995
Batch 31/31, val_loss: 0.9990
```

Labels



Predictions



epoch 3

```
average train loss: 0.9620
average validation loss: 0.9820
saved as best model: True
current mean dice: 0.1359
current TC dice: 0.1836
current WT dice: 0.1552
current ET dice: 0.0761
Best Mean Metric: 0.1359
```

time consuming of epoch 3 is: 1542.9135

epoch 4/100
TRAIN

Batch 1/248, train_loss: 0.8580, step time: 1.0302
Batch 2/248, train_loss: 0.9998, step time: 1.0275
Batch 3/248, train_loss: 0.9975, step time: 1.0257
Batch 4/248, train_loss: 0.9998, step time: 1.0202
Batch 5/248, train_loss: 0.9877, step time: 1.0271
Batch 6/248, train_loss: 0.9849, step time: 1.0302
Batch 7/248, train_loss: 0.7971, step time: 1.0303
Batch 8/248, train_loss: 0.9637, step time: 1.0259
Batch 9/248, train_loss: 0.8752, step time: 1.0294
Batch 10/248, train_loss: 0.9950, step time: 1.0265
Batch 11/248, train_loss: 0.9879, step time: 1.0273
Batch 12/248, train_loss: 0.9997, step time: 1.0216
Batch 13/248, train_loss: 0.9968, step time: 1.0289
Batch 14/248, train_loss: 0.7693, step time: 1.0268
Batch 15/248, train_loss: 0.9937, step time: 1.0262
Batch 16/248, train_loss: 0.9846, step time: 1.0267
Batch 17/248, train_loss: 0.9995, step time: 1.0215
Batch 18/248, train_loss: 0.9982, step time: 1.0218
Batch 19/248, train_loss: 0.8787, step time: 1.0298
Batch 20/248, train_loss: 0.9803, step time: 1.0289
Batch 21/248, train_loss: 0.9436, step time: 1.0271
Batch 22/248, train_loss: 0.9999, step time: 1.0196
Batch 23/248, train_loss: 0.9999, step time: 1.0208
Batch 24/248, train_loss: 0.9541, step time: 1.0282
Batch 25/248, train_loss: 0.7586, step time: 1.0311
Batch 26/248, train_loss: 0.9987, step time: 1.0244
Batch 27/248, train_loss: 0.8663, step time: 1.0296
Batch 28/248, train_loss: 0.9830, step time: 1.0281
Batch 29/248, train_loss: 0.9993, step time: 1.0240
Batch 30/248, train_loss: 0.9974, step time: 1.0250
Batch 31/248, train_loss: 0.9934, step time: 1.0275
Batch 32/248, train_loss: 0.9426, step time: 1.0333
Batch 33/248, train_loss: 0.8601, step time: 1.0364
Batch 34/248, train_loss: 0.9028, step time: 1.0306
Batch 35/248, train_loss: 0.9543, step time: 1.0311
Batch 36/248, train_loss: 0.9998, step time: 1.0212
Batch 37/248, train_loss: 0.9591, step time: 1.0396
Batch 38/248, train_loss: 0.9914, step time: 1.0258
Batch 39/248, train_loss: 0.9662, step time: 1.0312
Batch 40/248, train_loss: 0.9999, step time: 1.0171
Batch 41/248, train_loss: 0.9265, step time: 1.0317
Batch 42/248, train_loss: 0.9283, step time: 1.0288
Batch 43/248, train_loss: 0.8867, step time: 1.0309
Batch 44/248, train_loss: 0.9627, step time: 1.0289
Batch 45/248, train_loss: 0.9919, step time: 1.0283
Batch 46/248, train_loss: 0.9687, step time: 1.0341
Batch 47/248, train_loss: 0.9814, step time: 1.0288
Batch 48/248, train_loss: 0.9724, step time: 1.0295
Batch 49/248, train_loss: 0.9986, step time: 1.0248
Batch 50/248, train_loss: 0.9840, step time: 1.0271
Batch 51/248, train_loss: 0.9814, step time: 1.0293
Batch 52/248, train_loss: 0.9703, step time: 1.0292
- - - - - . . . - - - - - . . . - - - - -

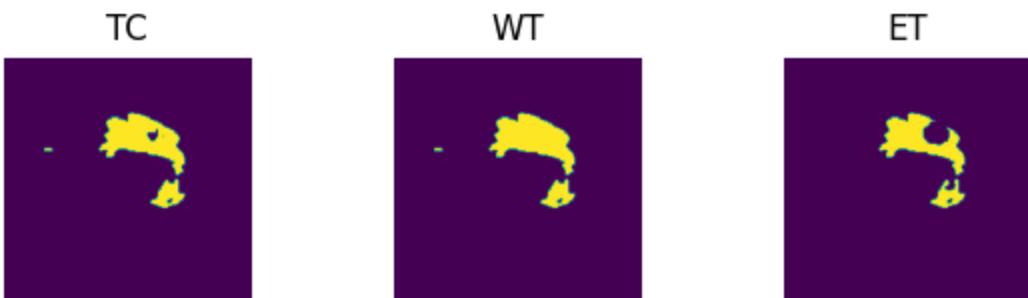
```
Batch 53/248, train_loss: 0.9921, step time: 1.0219
Batch 54/248, train_loss: 0.9781, step time: 1.0300
Batch 55/248, train_loss: 0.9955, step time: 1.0272
Batch 56/248, train_loss: 0.9810, step time: 1.0316
Batch 57/248, train_loss: 0.9833, step time: 1.0312
Batch 58/248, train_loss: 0.9343, step time: 1.0299
Batch 59/248, train_loss: 0.9489, step time: 1.0304
Batch 60/248, train_loss: 0.9296, step time: 1.0347
Batch 61/248, train_loss: 0.9512, step time: 1.0332
Batch 62/248, train_loss: 0.9950, step time: 1.0274
Batch 63/248, train_loss: 0.9987, step time: 1.0260
Batch 64/248, train_loss: 0.9982, step time: 1.0246
Batch 65/248, train_loss: 0.9870, step time: 1.0278
Batch 66/248, train_loss: 0.9844, step time: 1.0285
Batch 67/248, train_loss: 0.8439, step time: 1.0296
Batch 68/248, train_loss: 0.9192, step time: 1.0289
Batch 69/248, train_loss: 0.9997, step time: 1.0226
Batch 70/248, train_loss: 0.9335, step time: 1.0312
Batch 71/248, train_loss: 0.9008, step time: 1.0292
Batch 72/248, train_loss: 0.9125, step time: 1.0279
Batch 73/248, train_loss: 0.9239, step time: 1.0243
Batch 74/248, train_loss: 0.9999, step time: 1.0121
Batch 75/248, train_loss: 0.9228, step time: 1.0238
Batch 76/248, train_loss: 0.9987, step time: 1.0163
Batch 77/248, train_loss: 0.9996, step time: 1.0136
Batch 78/248, train_loss: 0.9648, step time: 1.0230
Batch 79/248, train_loss: 0.9820, step time: 1.0233
Batch 80/248, train_loss: 0.9883, step time: 1.0241
Batch 81/248, train_loss: 0.9925, step time: 1.0243
Batch 82/248, train_loss: 0.9245, step time: 1.0277
Batch 83/248, train_loss: 0.9984, step time: 1.0211
Batch 84/248, train_loss: 0.9800, step time: 1.0273
Batch 85/248, train_loss: 0.9991, step time: 1.0175
Batch 86/248, train_loss: 0.9393, step time: 1.0216
Batch 87/248, train_loss: 0.9966, step time: 1.0216
Batch 88/248, train_loss: 0.9973, step time: 1.0192
Batch 89/248, train_loss: 0.8172, step time: 1.0235
Batch 90/248, train_loss: 0.9830, step time: 1.0219
Batch 91/248, train_loss: 0.9991, step time: 1.0172
Batch 92/248, train_loss: 0.9767, step time: 1.0260
Batch 93/248, train_loss: 0.9158, step time: 1.0279
Batch 94/248, train_loss: 0.9990, step time: 1.0218
Batch 95/248, train_loss: 0.9581, step time: 1.0292
Batch 96/248, train_loss: 0.9523, step time: 1.0294
Batch 97/248, train_loss: 0.9999, step time: 1.0184
Batch 98/248, train_loss: 0.8971, step time: 1.0288
Batch 99/248, train_loss: 0.9977, step time: 1.0241
Batch 100/248, train_loss: 0.9997, step time: 1.0165
Batch 101/248, train_loss: 0.7828, step time: 1.0241
Batch 102/248, train_loss: 0.9731, step time: 1.0214
Batch 103/248, train_loss: 0.9984, step time: 1.0156
Batch 104/248, train_loss: 0.9589, step time: 1.0196
Batch 105/248, train_loss: 0.8903, step time: 1.0181
Batch 106/248, train_loss: 0.9844, step time: 1.0168
Batch 107/248, train_loss: 0.9970, step time: 1.0143
Batch 108/248, train_loss: 0.9981, step time: 1.0124
Batch 109/248, train loss: 0.9993, step time: 1.0127
```

Batch 110/248, train_loss: 0.9906, step time: 1.0172
Batch 111/248, train_loss: 0.8913, step time: 1.0193
Batch 112/248, train_loss: 0.9002, step time: 1.0199
Batch 113/248, train_loss: 0.9999, step time: 1.0091
Batch 114/248, train_loss: 0.8213, step time: 1.0223
Batch 115/248, train_loss: 0.9690, step time: 1.0206
Batch 116/248, train_loss: 0.8901, step time: 1.0219
Batch 117/248, train_loss: 0.9991, step time: 1.0124
Batch 118/248, train_loss: 0.9976, step time: 1.0167
Batch 119/248, train_loss: 0.9714, step time: 1.0176
Batch 120/248, train_loss: 0.9740, step time: 1.0184
Batch 121/248, train_loss: 0.9927, step time: 1.0139
Batch 122/248, train_loss: 0.9963, step time: 1.0194
Batch 123/248, train_loss: 0.9362, step time: 1.0188
Batch 124/248, train_loss: 0.9967, step time: 1.0144
Batch 125/248, train_loss: 0.9993, step time: 1.0101
Batch 126/248, train_loss: 0.8871, step time: 1.0138
Batch 127/248, train_loss: 0.9737, step time: 1.0156
Batch 128/248, train_loss: 0.9879, step time: 1.0140
Batch 129/248, train_loss: 0.8408, step time: 1.0166
Batch 130/248, train_loss: 0.8479, step time: 1.0178
Batch 131/248, train_loss: 0.9959, step time: 1.0150
Batch 132/248, train_loss: 0.9970, step time: 1.0114
Batch 133/248, train_loss: 0.7430, step time: 1.0181
Batch 134/248, train_loss: 1.0000, step time: 1.0080
Batch 135/248, train_loss: 0.9991, step time: 1.0144
Batch 136/248, train_loss: 0.9859, step time: 1.0139
Batch 137/248, train_loss: 0.8616, step time: 1.0181
Batch 138/248, train_loss: 0.8870, step time: 1.0164
Batch 139/248, train_loss: 0.8953, step time: 1.0169
Batch 140/248, train_loss: 0.9858, step time: 1.0191
Batch 141/248, train_loss: 0.9335, step time: 1.0169
Batch 142/248, train_loss: 0.9989, step time: 1.0131
Batch 143/248, train_loss: 0.9860, step time: 1.0144
Batch 144/248, train_loss: 0.8825, step time: 1.0152
Batch 145/248, train_loss: 0.7539, step time: 1.0138
Batch 146/248, train_loss: 0.9994, step time: 1.0069
Batch 147/248, train_loss: 0.7464, step time: 1.0177
Batch 148/248, train_loss: 0.9962, step time: 1.0121
Batch 149/248, train_loss: 0.9673, step time: 1.0170
Batch 150/248, train_loss: 0.9375, step time: 1.0144
Batch 151/248, train_loss: 0.9960, step time: 1.0092
Batch 152/248, train_loss: 0.7652, step time: 1.0205
Batch 153/248, train_loss: 0.9950, step time: 1.0138
Batch 154/248, train_loss: 0.9987, step time: 1.0120
Batch 155/248, train_loss: 0.9685, step time: 1.0203
Batch 156/248, train_loss: 0.9728, step time: 1.0217
Batch 157/248, train_loss: 0.8892, step time: 1.0210
Batch 158/248, train_loss: 0.9997, step time: 1.0162
Batch 159/248, train_loss: 0.9997, step time: 1.0173
Batch 160/248, train_loss: 0.9279, step time: 1.0224
Batch 161/248, train_loss: 0.9697, step time: 1.0238
Batch 162/248, train_loss: 0.7204, step time: 1.0234
Batch 163/248, train_loss: 0.9973, step time: 1.0212
Batch 164/248, train_loss: 0.9713, step time: 1.0251
Batch 165/248, train_loss: 0.9996, step time: 1.0199
Batch 166/248, train_loss: 0.9910, step time: 1.0200

```
Batch 166/248, train_loss: 0.9940, step time: 1.0208
Batch 167/248, train_loss: 0.9718, step time: 1.0216
Batch 168/248, train_loss: 0.9704, step time: 1.0269
Batch 169/248, train_loss: 0.9333, step time: 1.0248
Batch 170/248, train_loss: 0.9979, step time: 1.0206
Batch 171/248, train_loss: 0.8008, step time: 1.0250
Batch 172/248, train_loss: 0.9998, step time: 1.0168
Batch 173/248, train_loss: 0.8871, step time: 1.0257
Batch 174/248, train_loss: 0.9984, step time: 1.0216
Batch 175/248, train_loss: 0.8297, step time: 1.0279
Batch 176/248, train_loss: 0.9843, step time: 1.0248
Batch 177/248, train_loss: 0.9995, step time: 1.0183
Batch 178/248, train_loss: 0.9254, step time: 1.0254
Batch 179/248, train_loss: 0.6819, step time: 1.0227
Batch 180/248, train_loss: 0.9694, step time: 1.0222
Batch 181/248, train_loss: 0.8645, step time: 1.0210
Batch 182/248, train_loss: 0.9938, step time: 1.0195
Batch 183/248, train_loss: 0.9685, step time: 1.0229
Batch 184/248, train_loss: 0.9943, step time: 1.0209
Batch 185/248, train_loss: 0.9693, step time: 1.0245
Batch 186/248, train_loss: 0.9364, step time: 1.0266
Batch 187/248, train_loss: 0.9362, step time: 1.0277
Batch 188/248, train_loss: 0.9737, step time: 1.0219
Batch 189/248, train_loss: 0.9998, step time: 1.0175
Batch 190/248, train_loss: 0.9412, step time: 1.0261
Batch 191/248, train_loss: 0.9996, step time: 1.0203
Batch 192/248, train_loss: 0.9339, step time: 1.0221
Batch 193/248, train_loss: 0.9845, step time: 1.0207
Batch 194/248, train_loss: 0.9822, step time: 1.0214
Batch 195/248, train_loss: 0.9998, step time: 1.0147
Batch 196/248, train_loss: 0.9999, step time: 1.0078
Batch 197/248, train_loss: 0.9915, step time: 1.0179
Batch 198/248, train_loss: 1.0000, step time: 1.0138
Batch 199/248, train_loss: 0.9726, step time: 1.0181
Batch 200/248, train_loss: 0.9663, step time: 1.0189
Batch 201/248, train_loss: 0.9266, step time: 1.0184
Batch 202/248, train_loss: 0.9831, step time: 1.0204
Batch 203/248, train_loss: 0.9989, step time: 1.0152
Batch 204/248, train_loss: 0.8359, step time: 1.0209
Batch 205/248, train_loss: 0.9933, step time: 1.0176
Batch 206/248, train_loss: 0.9996, step time: 1.0154
Batch 207/248, train_loss: 0.9155, step time: 1.0212
Batch 208/248, train_loss: 0.9700, step time: 1.0223
Batch 209/248, train_loss: 0.9531, step time: 1.0208
Batch 210/248, train_loss: 0.9133, step time: 1.0222
Batch 211/248, train_loss: 0.9048, step time: 1.0201
Batch 212/248, train_loss: 0.9880, step time: 1.0171
Batch 213/248, train_loss: 0.9840, step time: 1.0169
Batch 214/248, train_loss: 0.9424, step time: 1.0180
Batch 215/248, train_loss: 0.9899, step time: 1.0172
Batch 216/248, train_loss: 0.9143, step time: 1.0164
Batch 217/248, train_loss: 0.9948, step time: 1.0155
Batch 218/248, train_loss: 0.9995, step time: 1.0130
Batch 219/248, train_loss: 0.9443, step time: 1.0185
Batch 220/248, train_loss: 0.9897, step time: 1.0187
Batch 221/248, train_loss: 0.9872, step time: 1.0171
Batch 222/248, train_loss: 0.9230, step time: 1.0177
```

```
Batch 223/248, train_loss: 0.8479, step time: 1.0169
Batch 224/248, train_loss: 0.8980, step time: 1.0193
Batch 225/248, train_loss: 0.9995, step time: 1.0144
Batch 226/248, train_loss: 0.9947, step time: 1.0159
Batch 227/248, train_loss: 0.9393, step time: 1.0208
Batch 228/248, train_loss: 0.9869, step time: 1.0217
Batch 229/248, train_loss: 0.8391, step time: 1.0222
Batch 230/248, train_loss: 0.9448, step time: 1.0235
Batch 231/248, train_loss: 0.9991, step time: 1.0216
Batch 232/248, train_loss: 0.9403, step time: 1.0224
Batch 233/248, train_loss: 0.9999, step time: 1.0082
Batch 234/248, train_loss: 0.9983, step time: 1.0171
Batch 235/248, train_loss: 0.9985, step time: 1.0121
Batch 236/248, train_loss: 0.9992, step time: 1.0136
Batch 237/248, train_loss: 0.8607, step time: 1.0186
Batch 238/248, train_loss: 0.9255, step time: 1.0182
Batch 239/248, train_loss: 0.6446, step time: 1.0171
Batch 240/248, train_loss: 0.9841, step time: 1.0124
Batch 241/248, train_loss: 0.9997, step time: 1.0106
Batch 242/248, train_loss: 0.9930, step time: 1.0162
Batch 243/248, train_loss: 0.9995, step time: 1.0086
Batch 244/248, train_loss: 0.9980, step time: 1.0134
Batch 245/248, train_loss: 0.9069, step time: 1.0216
Batch 246/248, train_loss: 0.9974, step time: 1.0178
Batch 247/248, train_loss: 0.7383, step time: 1.0329
Batch 248/248, train_loss: 1.0000, step time: 1.0111
```

Labels



Predictions



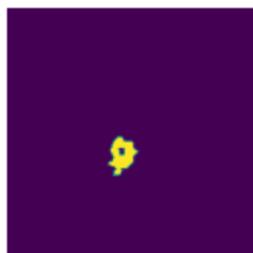
VAL

```
Batch 1/31, val_loss: 0.9780
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9995
Batch 4/31, val_loss: 0.9972
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8752
```

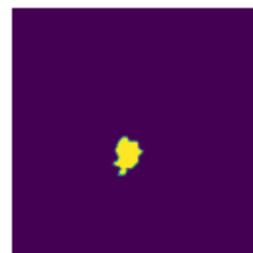
```
Batch 7/31, val_loss: 0.9685
Batch 8/31, val_loss: 0.9970
Batch 9/31, val_loss: 0.9021
Batch 10/31, val_loss: 0.9958
Batch 11/31, val_loss: 0.9773
Batch 12/31, val_loss: 0.9987
Batch 13/31, val_loss: 0.9980
Batch 14/31, val_loss: 0.9977
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9991
Batch 17/31, val_loss: 0.9996
Batch 18/31, val_loss: 0.9976
Batch 19/31, val_loss: 0.9457
Batch 20/31, val_loss: 0.9780
Batch 21/31, val_loss: 0.9879
Batch 22/31, val_loss: 0.9996
Batch 23/31, val_loss: 0.9995
Batch 24/31, val_loss: 0.8660
Batch 25/31, val_loss: 0.9604
Batch 26/31, val_loss: 0.9918
Batch 27/31, val_loss: 0.9998
Batch 28/31, val_loss: 0.9556
Batch 29/31, val_loss: 0.9999
Batch 30/31, val_loss: 0.9993
Batch 31/31, val_loss: 0.9987
```

Labels

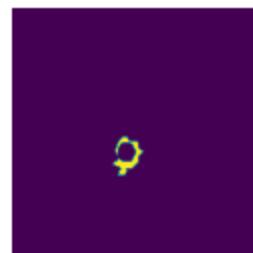
TC



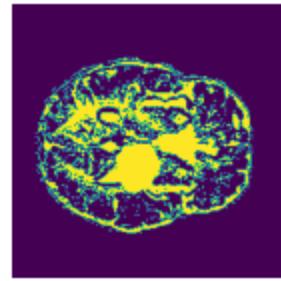
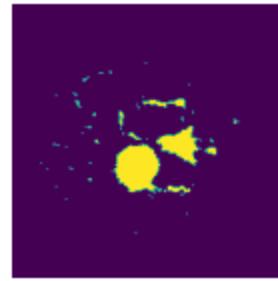
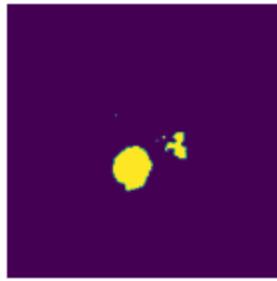
WT



ET



Predictions



epoch 4

```
average train loss: 0.9514
average validation loss: 0.9795
saved as best model: False
current mean dice: 0.1285
current TC dice: 0.2070
current WT dice: 0.1395
current ET dice: 0.0432
Best Mean Metric: 0.1259
```

best mean acc is: 0.1999

time consuming of epoch 4 is: 1545.4973

epoch 5/100

TRAIN

Batch 1/248, train_loss: 0.8192, step time: 1.0278
Batch 2/248, train_loss: 0.9997, step time: 1.0213
Batch 3/248, train_loss: 0.9964, step time: 1.0261
Batch 4/248, train_loss: 0.9997, step time: 1.0233
Batch 5/248, train_loss: 0.9828, step time: 1.0285
Batch 6/248, train_loss: 0.9799, step time: 1.0276
Batch 7/248, train_loss: 0.7483, step time: 1.0304
Batch 8/248, train_loss: 0.9550, step time: 1.0270
Batch 9/248, train_loss: 0.8372, step time: 1.0333
Batch 10/248, train_loss: 0.9928, step time: 1.0301
Batch 11/248, train_loss: 0.9822, step time: 1.0267
Batch 12/248, train_loss: 0.9995, step time: 1.0213
Batch 13/248, train_loss: 0.9957, step time: 1.0243
Batch 14/248, train_loss: 0.7193, step time: 1.0273
Batch 15/248, train_loss: 0.9911, step time: 1.0248
Batch 16/248, train_loss: 0.9779, step time: 1.0256
Batch 17/248, train_loss: 0.9993, step time: 1.0287
Batch 18/248, train_loss: 0.9981, step time: 1.0218
Batch 19/248, train_loss: 0.8455, step time: 1.0276
Batch 20/248, train_loss: 0.9726, step time: 1.0285
Batch 21/248, train_loss: 0.9226, step time: 1.0307
Batch 22/248, train_loss: 0.9999, step time: 1.0217
Batch 23/248, train_loss: 0.9999, step time: 1.0200
Batch 24/248, train_loss: 0.9361, step time: 1.0331
Batch 25/248, train_loss: 0.7125, step time: 1.0308
Batch 26/248, train_loss: 0.9987, step time: 1.0347
Batch 27/248, train_loss: 0.8251, step time: 1.0315
Batch 28/248, train_loss: 0.9762, step time: 1.0321
Batch 29/248, train_loss: 0.9990, step time: 1.0223
Batch 30/248, train_loss: 0.9831, step time: 1.0269
Batch 31/248, train_loss: 0.9913, step time: 1.0238
Batch 32/248, train_loss: 0.9211, step time: 1.0297
Batch 33/248, train_loss: 0.8193, step time: 1.0280
Batch 34/248, train_loss: 0.8697, step time: 1.0258
Batch 35/248, train_loss: 0.9350, step time: 1.0241
Batch 36/248, train_loss: 0.9998, step time: 1.0157
Batch 37/248, train_loss: 0.9426, step time: 1.0260
Batch 38/248, train_loss: 0.9882, step time: 1.0236
Batch 39/248, train_loss: 0.9503, step time: 1.0260
Batch 40/248, train_loss: 0.9999, step time: 1.0165
Batch 41/248, train_loss: 0.9003, step time: 1.0304
Batch 42/248, train_loss: 0.9012, step time: 1.0293
Batch 43/248, train_loss: 0.8493, step time: 1.0298
Batch 44/248, train_loss: 0.9554, step time: 1.0292
Batch 45/248, train_loss: 0.9887, step time: 1.0289
Batch 46/248, train_loss: 0.9561, step time: 1.0284
Batch 47/248, train_loss: 0.9730, step time: 1.0294
Batch 48/248, train_loss: 0.9624, step time: 1.0251
Batch 49/248, train_loss: 0.9983, step time: 1.0238
Batch 50/248, train_loss: 0.9761, step time: 1.0292
Batch 51/248, train_loss: 0.9733, step time: 1.0279
Batch 52/248, train_loss: 0.9576, step time: 1.0275

Batch 53/248, train_loss: 0.9896, step time: 1.0283
Batch 54/248, train_loss: 0.9678, step time: 1.0298
Batch 55/248, train_loss: 0.9937, step time: 1.0250
Batch 56/248, train_loss: 0.9730, step time: 1.0276
Batch 57/248, train_loss: 0.9747, step time: 1.0294
Batch 58/248, train_loss: 0.9078, step time: 1.0284
Batch 59/248, train_loss: 0.9287, step time: 1.0287
Batch 60/248, train_loss: 0.8996, step time: 1.0285
Batch 61/248, train_loss: 0.9303, step time: 1.0270
Batch 62/248, train_loss: 0.9926, step time: 1.0252
Batch 63/248, train_loss: 0.9982, step time: 1.0255
Batch 64/248, train_loss: 0.9976, step time: 1.0264
Batch 65/248, train_loss: 0.9820, step time: 1.0248
Batch 66/248, train_loss: 0.9769, step time: 1.0279
Batch 67/248, train_loss: 0.7966, step time: 1.0303
Batch 68/248, train_loss: 0.8876, step time: 1.0263
Batch 69/248, train_loss: 0.9997, step time: 1.0199
Batch 70/248, train_loss: 0.9079, step time: 1.0312
Batch 71/248, train_loss: 0.8681, step time: 1.0337
Batch 72/248, train_loss: 0.8776, step time: 1.0330
Batch 73/248, train_loss: 0.8941, step time: 1.0321
Batch 74/248, train_loss: 0.9998, step time: 1.0175
Batch 75/248, train_loss: 0.8897, step time: 1.0283
Batch 76/248, train_loss: 0.9983, step time: 1.0237
Batch 77/248, train_loss: 0.9995, step time: 1.0200
Batch 78/248, train_loss: 0.9482, step time: 1.0249
Batch 79/248, train_loss: 0.9736, step time: 1.0269
Batch 80/248, train_loss: 0.9832, step time: 1.0318
Batch 81/248, train_loss: 0.9889, step time: 1.0398
Batch 82/248, train_loss: 0.8896, step time: 1.0293
Batch 83/248, train_loss: 0.9981, step time: 1.0281
Batch 84/248, train_loss: 0.9689, step time: 1.0316
Batch 85/248, train_loss: 0.9990, step time: 1.0235
Batch 86/248, train_loss: 0.9216, step time: 1.0338
Batch 87/248, train_loss: 0.9951, step time: 1.0269
Batch 88/248, train_loss: 0.9958, step time: 1.0251
Batch 89/248, train_loss: 0.7674, step time: 1.0314
Batch 90/248, train_loss: 0.9743, step time: 1.0284
Batch 91/248, train_loss: 0.9988, step time: 1.0230
Batch 92/248, train_loss: 0.9689, step time: 1.0276
Batch 93/248, train_loss: 0.8833, step time: 1.0269
Batch 94/248, train_loss: 0.9986, step time: 1.0215
Batch 95/248, train_loss: 0.9368, step time: 1.0269
Batch 96/248, train_loss: 0.9267, step time: 1.0308
Batch 97/248, train_loss: 0.9999, step time: 1.0194
Batch 98/248, train_loss: 0.8591, step time: 1.0301
Batch 99/248, train_loss: 0.9973, step time: 1.0234
Batch 100/248, train_loss: 0.9995, step time: 1.0260
Batch 101/248, train_loss: 0.7256, step time: 1.0268
Batch 102/248, train_loss: 0.9585, step time: 1.0310
Batch 103/248, train_loss: 0.9977, step time: 1.0230
Batch 104/248, train_loss: 0.9440, step time: 1.0299
Batch 105/248, train_loss: 0.8459, step time: 1.0304
Batch 106/248, train_loss: 0.9766, step time: 1.0271
Batch 107/248, train_loss: 0.9958, step time: 1.0248
Batch 108/248, train_loss: 0.9972, step time: 1.0257
Batch 109/248, train_loss: 0.9991, step time: 1.0295

Batch 109/248, train_loss: 0.9999, step time: 1.0229
Batch 110/248, train_loss: 0.9873, step time: 1.0273
Batch 111/248, train_loss: 0.8482, step time: 1.0308
Batch 112/248, train_loss: 0.8603, step time: 1.0325
Batch 113/248, train_loss: 0.9999, step time: 1.0213
Batch 114/248, train_loss: 0.7697, step time: 1.0313
Batch 115/248, train_loss: 0.9542, step time: 1.0275
Batch 116/248, train_loss: 0.8459, step time: 1.0309
Batch 117/248, train_loss: 0.9987, step time: 1.0233
Batch 118/248, train_loss: 0.9969, step time: 1.0266
Batch 119/248, train_loss: 0.9592, step time: 1.0302
Batch 120/248, train_loss: 0.9607, step time: 1.0306
Batch 121/248, train_loss: 0.9892, step time: 1.0270
Batch 122/248, train_loss: 0.9945, step time: 1.0280
Batch 123/248, train_loss: 0.9032, step time: 1.0314
Batch 124/248, train_loss: 0.9949, step time: 1.0268
Batch 125/248, train_loss: 0.9992, step time: 1.0241
Batch 126/248, train_loss: 0.8512, step time: 1.0293
Batch 127/248, train_loss: 0.9563, step time: 1.0300
Batch 128/248, train_loss: 0.9808, step time: 1.0286
Batch 129/248, train_loss: 0.7905, step time: 1.0292
Batch 130/248, train_loss: 0.8040, step time: 1.0330
Batch 131/248, train_loss: 0.9939, step time: 1.0233
Batch 132/248, train_loss: 0.9952, step time: 1.0224
Batch 133/248, train_loss: 0.6870, step time: 1.0281
Batch 134/248, train_loss: 1.0000, step time: 1.0149
Batch 135/248, train_loss: 0.9987, step time: 1.0223
Batch 136/248, train_loss: 0.9782, step time: 1.0295
Batch 137/248, train_loss: 0.8238, step time: 1.0290
Batch 138/248, train_loss: 0.8457, step time: 1.0304
Batch 139/248, train_loss: 0.8592, step time: 1.0285
Batch 140/248, train_loss: 0.9803, step time: 1.0323
Batch 141/248, train_loss: 0.9040, step time: 1.0332
Batch 142/248, train_loss: 0.9988, step time: 1.0248
Batch 143/248, train_loss: 0.9799, step time: 1.0300
Batch 144/248, train_loss: 0.8424, step time: 1.0320
Batch 145/248, train_loss: 0.6929, step time: 1.0314
Batch 146/248, train_loss: 0.9993, step time: 1.0213
Batch 147/248, train_loss: 0.6874, step time: 1.0270
Batch 148/248, train_loss: 0.9943, step time: 1.0239
Batch 149/248, train_loss: 0.9481, step time: 1.0275
Batch 150/248, train_loss: 0.9246, step time: 1.0275
Batch 151/248, train_loss: 0.9952, step time: 1.0248
Batch 152/248, train_loss: 0.7054, step time: 1.0282
Batch 153/248, train_loss: 0.9925, step time: 1.0301
Batch 154/248, train_loss: 0.9981, step time: 1.0243
Batch 155/248, train_loss: 0.9532, step time: 1.0334
Batch 156/248, train_loss: 0.9602, step time: 1.0305
Batch 157/248, train_loss: 0.8569, step time: 1.0285
Batch 158/248, train_loss: 0.9996, step time: 1.0214
Batch 159/248, train_loss: 0.9996, step time: 1.0203
Batch 160/248, train_loss: 0.8929, step time: 1.0294
Batch 161/248, train_loss: 0.9512, step time: 1.0299
Batch 162/248, train_loss: 0.6605, step time: 1.0286
Batch 163/248, train_loss: 0.9956, step time: 1.0249
Batch 164/248, train_loss: 0.9543, step time: 1.0295
Batch 165/248, train_loss: 0.9995, step time: 1.0234

Batch 166/248, train_loss: 0.9901, step time: 1.0269
Batch 167/248, train_loss: 0.9543, step time: 1.0271
Batch 168/248, train_loss: 0.9536, step time: 1.0264
Batch 169/248, train_loss: 0.8993, step time: 1.0298
Batch 170/248, train_loss: 0.9977, step time: 1.0259
Batch 171/248, train_loss: 0.7394, step time: 1.0277
Batch 172/248, train_loss: 0.9998, step time: 1.0226
Batch 173/248, train_loss: 0.8393, step time: 1.0307
Batch 174/248, train_loss: 0.9982, step time: 1.0220
Batch 175/248, train_loss: 0.7782, step time: 1.0301
Batch 176/248, train_loss: 0.9745, step time: 1.0276
Batch 177/248, train_loss: 0.9991, step time: 1.0262
Batch 178/248, train_loss: 0.8897, step time: 1.0265
Batch 179/248, train_loss: 0.6201, step time: 1.0308
Batch 180/248, train_loss: 0.9513, step time: 1.0278
Batch 181/248, train_loss: 0.8114, step time: 1.0304
Batch 182/248, train_loss: 0.9906, step time: 1.0253
Batch 183/248, train_loss: 0.9506, step time: 1.0272
Batch 184/248, train_loss: 0.9909, step time: 1.0265
Batch 185/248, train_loss: 0.9501, step time: 1.0301
Batch 186/248, train_loss: 0.9030, step time: 1.0290
Batch 187/248, train_loss: 0.9013, step time: 1.0299
Batch 188/248, train_loss: 0.9572, step time: 1.0292
Batch 189/248, train_loss: 0.9997, step time: 1.0234
Batch 190/248, train_loss: 0.9096, step time: 1.0275
Batch 191/248, train_loss: 0.9994, step time: 1.0209
Batch 192/248, train_loss: 0.9012, step time: 1.0291
Batch 193/248, train_loss: 0.9761, step time: 1.0253
Batch 194/248, train_loss: 0.9700, step time: 1.0284
Batch 195/248, train_loss: 0.9997, step time: 1.0217
Batch 196/248, train_loss: 0.9999, step time: 1.0181
Batch 197/248, train_loss: 0.9852, step time: 1.0294
Batch 198/248, train_loss: 0.9998, step time: 1.0194
Batch 199/248, train_loss: 0.9582, step time: 1.0260
Batch 200/248, train_loss: 0.9451, step time: 1.0267
Batch 201/248, train_loss: 0.8917, step time: 1.0322
Batch 202/248, train_loss: 0.9718, step time: 1.0280
Batch 203/248, train_loss: 0.9984, step time: 1.0224
Batch 204/248, train_loss: 0.7801, step time: 1.0283
Batch 205/248, train_loss: 0.9896, step time: 1.0258
Batch 206/248, train_loss: 0.9993, step time: 1.0207
Batch 207/248, train_loss: 0.8720, step time: 1.0279
Batch 208/248, train_loss: 0.9521, step time: 1.0317
Batch 209/248, train_loss: 0.9257, step time: 1.0295
Batch 210/248, train_loss: 0.8679, step time: 1.0291
Batch 211/248, train_loss: 0.8561, step time: 1.0318
Batch 212/248, train_loss: 0.9809, step time: 1.0277
Batch 213/248, train_loss: 0.9723, step time: 1.0283
Batch 214/248, train_loss: 0.9066, step time: 1.0307
Batch 215/248, train_loss: 0.9838, step time: 1.0278
Batch 216/248, train_loss: 0.8781, step time: 1.0279
Batch 217/248, train_loss: 0.9934, step time: 1.0278
Batch 218/248, train_loss: 0.9992, step time: 1.0266
Batch 219/248, train_loss: 0.9123, step time: 1.0299
Batch 220/248, train_loss: 0.9854, step time: 1.0319
Batch 221/248, train_loss: 0.9792, step time: 1.0301
Batch 222/248, train_loss: 0.8878, step time: 1.0295

```
Batch 222/248, train_loss: 0.7775, step time: 1.0229
Batch 223/248, train_loss: 0.7865, step time: 1.0284
Batch 224/248, train_loss: 0.8512, step time: 1.0274
Batch 225/248, train_loss: 0.9993, step time: 1.0206
Batch 226/248, train_loss: 0.9926, step time: 1.0262
Batch 227/248, train_loss: 0.9061, step time: 1.0273
Batch 228/248, train_loss: 0.9794, step time: 1.0248
Batch 229/248, train_loss: 0.7926, step time: 1.0279
Batch 230/248, train_loss: 0.9137, step time: 1.0273
Batch 231/248, train_loss: 0.9989, step time: 1.0205
Batch 232/248, train_loss: 0.9071, step time: 1.0245
Batch 233/248, train_loss: 0.9999, step time: 1.0167
Batch 234/248, train_loss: 0.9976, step time: 1.0263
Batch 235/248, train_loss: 0.9979, step time: 1.0260
Batch 236/248, train_loss: 0.9990, step time: 1.0248
Batch 237/248, train_loss: 0.8065, step time: 1.0286
Batch 238/248, train_loss: 0.8873, step time: 1.0311
Batch 239/248, train_loss: 0.5761, step time: 1.0281
Batch 240/248, train_loss: 0.9730, step time: 1.0282
Batch 241/248, train_loss: 0.9996, step time: 1.0208
Batch 242/248, train_loss: 0.9885, step time: 1.0320
Batch 243/248, train_loss: 0.9994, step time: 1.0217
Batch 244/248, train_loss: 0.9970, step time: 1.0222
Batch 245/248, train_loss: 0.8649, step time: 1.0282
Batch 246/248, train_loss: 0.9966, step time: 1.0222
Batch 247/248, train_loss: 0.6702, step time: 1.0300
Batch 248/248, train_loss: 1.0000, step time: 1.0132
```

Labels

TC



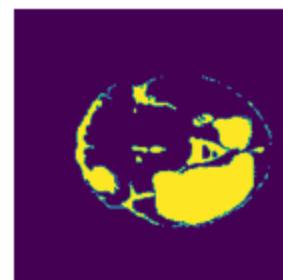
WT



ET



Predictions

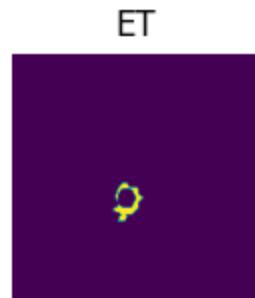
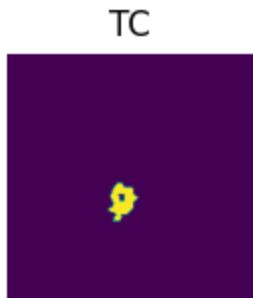


VAL

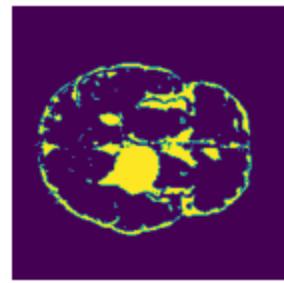
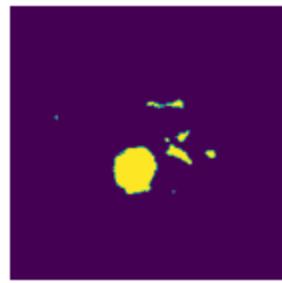
```
Batch 1/31, val_loss: 0.9714
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9995
Batch 4/31, val_loss: 0.9956
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8561
```

```
Batch 7/31, val_loss: 0.9604
Batch 8/31, val_loss: 0.9967
Batch 9/31, val_loss: 0.8826
Batch 10/31, val_loss: 0.9940
Batch 11/31, val_loss: 0.9692
Batch 12/31, val_loss: 0.9985
Batch 13/31, val_loss: 0.9970
Batch 14/31, val_loss: 0.9971
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9988
Batch 17/31, val_loss: 0.9994
Batch 18/31, val_loss: 0.9965
Batch 19/31, val_loss: 0.9331
Batch 20/31, val_loss: 0.9739
Batch 21/31, val_loss: 0.9838
Batch 22/31, val_loss: 0.9994
Batch 23/31, val_loss: 0.9993
Batch 24/31, val_loss: 0.8508
Batch 25/31, val_loss: 0.9481
Batch 26/31, val_loss: 0.9878
Batch 27/31, val_loss: 0.9997
Batch 28/31, val_loss: 0.9415
Batch 29/31, val_loss: 0.9998
Batch 30/31, val_loss: 0.9991
Batch 31/31, val_loss: 0.9982
```

Labels



Predictions



epoch 5

```
average train loss: 0.9340
average validation loss: 0.9751
saved as best model: True
current mean dice: 0.1549
current TC dice: 0.2373
current WT dice: 0.1712
current ET dice: 0.0623
```

Best Mean Metric: 0.1549
time consuming of epoch 5 is: 1545.0491

epoch 6/100
TRAIN
Batch 1/248, train_loss: 0.7562, step time: 1.0307
Batch 2/248, train_loss: 0.9997, step time: 1.0216
Batch 3/248, train_loss: 0.9950, step time: 1.0229
Batch 4/248, train_loss: 0.9997, step time: 1.0188
Batch 5/248, train_loss: 0.9741, step time: 1.0306
Batch 6/248, train_loss: 0.9707, step time: 1.0273
Batch 7/248, train_loss: 0.6811, step time: 1.0282
Batch 8/248, train_loss: 0.9429, step time: 1.0268
Batch 9/248, train_loss: 0.7759, step time: 1.0312
Batch 10/248, train_loss: 0.9893, step time: 1.0314
Batch 11/248, train_loss: 0.9715, step time: 1.0298
Batch 12/248, train_loss: 0.9994, step time: 1.0248
Batch 13/248, train_loss: 0.9929, step time: 1.0277
Batch 14/248, train_loss: 0.6493, step time: 1.0269
Batch 15/248, train_loss: 0.9864, step time: 1.0264
Batch 16/248, train_loss: 0.9635, step time: 1.0280
Batch 17/248, train_loss: 0.9991, step time: 1.0227
Batch 18/248, train_loss: 0.9975, step time: 1.0248
Batch 19/248, train_loss: 0.7893, step time: 1.0288
Batch 20/248, train_loss: 0.9558, step time: 1.0255
Batch 21/248, train_loss: 0.8853, step time: 1.0270
Batch 22/248, train_loss: 0.9999, step time: 1.0197
Batch 23/248, train_loss: 0.9998, step time: 1.0206
Batch 24/248, train_loss: 0.9057, step time: 1.0291
Batch 25/248, train_loss: 0.6469, step time: 1.0266
Batch 26/248, train_loss: 0.9982, step time: 1.0277
Batch 27/248, train_loss: 0.7641, step time: 1.0288
Batch 28/248, train_loss: 0.9626, step time: 1.0283
Batch 29/248, train_loss: 0.9988, step time: 1.0232
Batch 30/248, train_loss: 0.9660, step time: 1.0285
Batch 31/248, train_loss: 0.9854, step time: 1.0282
Batch 32/248, train_loss: 0.8907, step time: 1.0323
Batch 33/248, train_loss: 0.7545, step time: 1.0269
Batch 34/248, train_loss: 0.8145, step time: 1.0282
Batch 35/248, train_loss: 0.8993, step time: 1.0279
Batch 36/248, train_loss: 0.9998, step time: 1.0174
Batch 37/248, train_loss: 0.9153, step time: 1.0282
Batch 38/248, train_loss: 0.9830, step time: 1.0244
Batch 39/248, train_loss: 0.9248, step time: 1.0266
Batch 40/248, train_loss: 0.9999, step time: 1.0188
Batch 41/248, train_loss: 0.8630, step time: 1.0295
Batch 42/248, train_loss: 0.8565, step time: 1.0315
Batch 43/248, train_loss: 0.7940, step time: 1.0324
Batch 44/248, train_loss: 0.9375, step time: 1.0317
Batch 45/248, train_loss: 0.9873, step time: 1.0307
Batch 46/248, train_loss: 0.9338, step time: 1.0294
Batch 47/248, train_loss: 0.9593, step time: 1.0296
Batch 48/248, train_loss: 0.9445, step time: 1.0264
Batch 49/248, train_loss: 0.9981, step time: 1.0253
Batch 50/248, train_loss: 0.9627, step time: 1.0261
Batch 51/248, train_loss: 0.9621, step time: 1.0281
Batch 52/248, train loss: 0.9354, step time: 1.0308

Batch 53/248, train_loss: 0.9849, step time: 1.0311
Batch 54/248, train_loss: 0.9510, step time: 1.0281
Batch 55/248, train_loss: 0.9916, step time: 1.0270
Batch 56/248, train_loss: 0.9603, step time: 1.0280
Batch 57/248, train_loss: 0.9607, step time: 1.0285
Batch 58/248, train_loss: 0.8664, step time: 1.0311
Batch 59/248, train_loss: 0.8947, step time: 1.0299
Batch 60/248, train_loss: 0.8564, step time: 1.0290
Batch 61/248, train_loss: 0.8975, step time: 1.0281
Batch 62/248, train_loss: 0.9891, step time: 1.0265
Batch 63/248, train_loss: 0.9978, step time: 1.0248
Batch 64/248, train_loss: 0.9965, step time: 1.0271
Batch 65/248, train_loss: 0.9769, step time: 1.0273
Batch 66/248, train_loss: 0.9660, step time: 1.0280
Batch 67/248, train_loss: 0.7372, step time: 1.0331
Batch 68/248, train_loss: 0.8556, step time: 1.0289
Batch 69/248, train_loss: 0.9994, step time: 1.0242
Batch 70/248, train_loss: 0.8682, step time: 1.0295
Batch 71/248, train_loss: 0.8194, step time: 1.0315
Batch 72/248, train_loss: 0.8287, step time: 1.0281
Batch 73/248, train_loss: 0.8578, step time: 1.0268
Batch 74/248, train_loss: 0.9998, step time: 1.0186
Batch 75/248, train_loss: 0.8468, step time: 1.0376
Batch 76/248, train_loss: 0.9976, step time: 1.0233
Batch 77/248, train_loss: 0.9994, step time: 1.0227
Batch 78/248, train_loss: 0.9261, step time: 1.0298
Batch 79/248, train_loss: 0.9610, step time: 1.0296
Batch 80/248, train_loss: 0.9739, step time: 1.0263
Batch 81/248, train_loss: 0.9833, step time: 1.0283
Batch 82/248, train_loss: 0.8464, step time: 1.0295
Batch 83/248, train_loss: 0.9976, step time: 1.0300
Batch 84/248, train_loss: 0.9529, step time: 1.0319
Batch 85/248, train_loss: 0.9983, step time: 1.0240
Batch 86/248, train_loss: 0.8992, step time: 1.0285
Batch 87/248, train_loss: 0.9934, step time: 1.0269
Batch 88/248, train_loss: 0.9952, step time: 1.0254
Batch 89/248, train_loss: 0.7075, step time: 1.0294
Batch 90/248, train_loss: 0.9655, step time: 1.0264
Batch 91/248, train_loss: 0.9981, step time: 1.0237
Batch 92/248, train_loss: 0.9583, step time: 1.0298
Batch 93/248, train_loss: 0.8404, step time: 1.0293
Batch 94/248, train_loss: 0.9977, step time: 1.0287
Batch 95/248, train_loss: 0.9087, step time: 1.0300
Batch 96/248, train_loss: 0.8970, step time: 1.0284
Batch 97/248, train_loss: 0.9999, step time: 1.0199
Batch 98/248, train_loss: 0.8112, step time: 1.0310
Batch 99/248, train_loss: 0.9965, step time: 1.0261
Batch 100/248, train_loss: 0.9995, step time: 1.0238
Batch 101/248, train_loss: 0.6585, step time: 1.0289
Batch 102/248, train_loss: 0.9399, step time: 1.0268
Batch 103/248, train_loss: 0.9968, step time: 1.0238
Batch 104/248, train_loss: 0.9143, step time: 1.0275
Batch 105/248, train_loss: 0.7919, step time: 1.0247
Batch 106/248, train_loss: 0.9658, step time: 1.0298
Batch 107/248, train_loss: 0.9935, step time: 1.0228
Batch 108/248, train_loss: 0.9959, step time: 1.0258

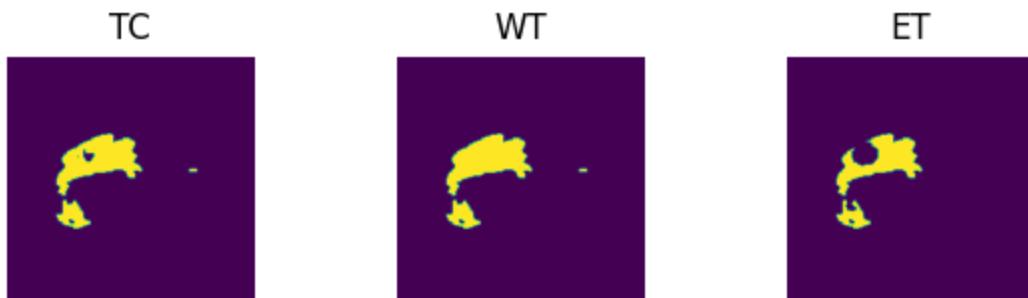
Batch 109/248, train_loss: 0.9999, step time: 1.0240

```
Batch 109/248, train_loss: 0.9988, step time: 1.0240
Batch 110/248, train_loss: 0.9816, step time: 1.0289
Batch 111/248, train_loss: 0.7980, step time: 1.0327
Batch 112/248, train_loss: 0.8130, step time: 1.0318
Batch 113/248, train_loss: 0.9998, step time: 1.0212
Batch 114/248, train_loss: 0.7117, step time: 1.0303
Batch 115/248, train_loss: 0.9343, step time: 1.0291
Batch 116/248, train_loss: 0.7975, step time: 1.0306
Batch 117/248, train_loss: 0.9985, step time: 1.0228
Batch 118/248, train_loss: 0.9961, step time: 1.0220
Batch 119/248, train_loss: 0.9396, step time: 1.0292
Batch 120/248, train_loss: 0.9469, step time: 1.0276
Batch 121/248, train_loss: 0.9830, step time: 1.0285
Batch 122/248, train_loss: 0.9922, step time: 1.0292
Batch 123/248, train_loss: 0.8678, step time: 1.0305
Batch 124/248, train_loss: 0.9938, step time: 1.0291
Batch 125/248, train_loss: 0.9990, step time: 1.0236
Batch 126/248, train_loss: 0.8192, step time: 1.0302
Batch 127/248, train_loss: 0.9357, step time: 1.0295
Batch 128/248, train_loss: 0.9724, step time: 1.0305
Batch 129/248, train_loss: 0.7315, step time: 1.0292
Batch 130/248, train_loss: 0.7480, step time: 1.0290
Batch 131/248, train_loss: 0.9910, step time: 1.0255
Batch 132/248, train_loss: 0.9941, step time: 1.0285
Batch 133/248, train_loss: 0.6253, step time: 1.0271
Batch 134/248, train_loss: 1.0000, step time: 1.0153
Batch 135/248, train_loss: 0.9983, step time: 1.0240
Batch 136/248, train_loss: 0.9670, step time: 1.0301
Batch 137/248, train_loss: 0.7676, step time: 1.0261
Batch 138/248, train_loss: 0.7945, step time: 1.0290
Batch 139/248, train_loss: 0.8206, step time: 1.0299
Batch 140/248, train_loss: 0.9700, step time: 1.0273
Batch 141/248, train_loss: 0.8804, step time: 1.0284
Batch 142/248, train_loss: 0.9980, step time: 1.0250
Batch 143/248, train_loss: 0.9696, step time: 1.0275
Batch 144/248, train_loss: 0.8001, step time: 1.0323
Batch 145/248, train_loss: 0.6356, step time: 1.0281
Batch 146/248, train_loss: 0.9991, step time: 1.0233
Batch 147/248, train_loss: 0.6177, step time: 1.0282
Batch 148/248, train_loss: 0.9929, step time: 1.0256
Batch 149/248, train_loss: 0.9257, step time: 1.0292
Batch 150/248, train_loss: 0.9079, step time: 1.0391
Batch 151/248, train_loss: 0.9942, step time: 1.0227
Batch 152/248, train_loss: 0.6422, step time: 1.0295
Batch 153/248, train_loss: 0.9891, step time: 1.0253
Batch 154/248, train_loss: 0.9972, step time: 1.0268
Batch 155/248, train_loss: 0.9355, step time: 1.0313
Batch 156/248, train_loss: 0.9470, step time: 1.0275
Batch 157/248, train_loss: 0.8175, step time: 1.0292
Batch 158/248, train_loss: 0.9996, step time: 1.0210
Batch 159/248, train_loss: 0.9992, step time: 1.0223
Batch 160/248, train_loss: 0.8561, step time: 1.0273
Batch 161/248, train_loss: 0.9305, step time: 1.0313
Batch 162/248, train_loss: 0.6033, step time: 1.0307
Batch 163/248, train_loss: 0.9934, step time: 1.0274
Batch 164/248, train_loss: 0.9364, step time: 1.0285
Batch 165/248, train loss: 0.9994, step time: 1.0202
```

Batch 166/248, train_loss: 0.9847, step time: 1.0289
Batch 167/248, train_loss: 0.9372, step time: 1.0315
Batch 168/248, train_loss: 0.9329, step time: 1.0282
Batch 169/248, train_loss: 0.8616, step time: 1.0287
Batch 170/248, train_loss: 0.9970, step time: 1.0232
Batch 171/248, train_loss: 0.6797, step time: 1.0280
Batch 172/248, train_loss: 0.9997, step time: 1.0204
Batch 173/248, train_loss: 0.7954, step time: 1.0284
Batch 174/248, train_loss: 0.9969, step time: 1.0240
Batch 175/248, train_loss: 0.7303, step time: 1.0292
Batch 176/248, train_loss: 0.9631, step time: 1.0286
Batch 177/248, train_loss: 0.9985, step time: 1.0241
Batch 178/248, train_loss: 0.8529, step time: 1.0286
Batch 179/248, train_loss: 0.5613, step time: 1.0275
Batch 180/248, train_loss: 0.9317, step time: 1.0307
Batch 181/248, train_loss: 0.7669, step time: 1.0291
Batch 182/248, train_loss: 0.9887, step time: 1.0247
Batch 183/248, train_loss: 0.9333, step time: 1.0288
Batch 184/248, train_loss: 0.9869, step time: 1.0268
Batch 185/248, train_loss: 0.9291, step time: 1.0292
Batch 186/248, train_loss: 0.8684, step time: 1.0332
Batch 187/248, train_loss: 0.8752, step time: 1.0311
Batch 188/248, train_loss: 0.9386, step time: 1.0295
Batch 189/248, train_loss: 0.9996, step time: 1.0276
Batch 190/248, train_loss: 0.8750, step time: 1.0299
Batch 191/248, train_loss: 0.9992, step time: 1.0219
Batch 192/248, train_loss: 0.8714, step time: 1.0274
Batch 193/248, train_loss: 0.9652, step time: 1.0270
Batch 194/248, train_loss: 0.9554, step time: 1.0298
Batch 195/248, train_loss: 0.9995, step time: 1.0207
Batch 196/248, train_loss: 0.9999, step time: 1.0179
Batch 197/248, train_loss: 0.9808, step time: 1.0319
Batch 198/248, train_loss: 0.9999, step time: 1.0204
Batch 199/248, train_loss: 0.9375, step time: 1.0282
Batch 200/248, train_loss: 0.9191, step time: 1.0270
Batch 201/248, train_loss: 0.8520, step time: 1.0292
Batch 202/248, train_loss: 0.9604, step time: 1.0251
Batch 203/248, train_loss: 0.9973, step time: 1.0239
Batch 204/248, train_loss: 0.7203, step time: 1.0270
Batch 205/248, train_loss: 0.9864, step time: 1.0292
Batch 206/248, train_loss: 0.9990, step time: 1.0267
Batch 207/248, train_loss: 0.8318, step time: 1.0310
Batch 208/248, train_loss: 0.9339, step time: 1.0272
Batch 209/248, train_loss: 0.8947, step time: 1.0267
Batch 210/248, train_loss: 0.8225, step time: 1.0261
Batch 211/248, train_loss: 0.8085, step time: 1.0271
Batch 212/248, train_loss: 0.9721, step time: 1.0278
Batch 213/248, train_loss: 0.9583, step time: 1.0284
Batch 214/248, train_loss: 0.8708, step time: 1.0311
Batch 215/248, train_loss: 0.9757, step time: 1.0275
Batch 216/248, train_loss: 0.8403, step time: 1.0283
Batch 217/248, train_loss: 0.9894, step time: 1.0266
Batch 218/248, train_loss: 0.9991, step time: 1.0270
Batch 219/248, train_loss: 0.8769, step time: 1.0282
Batch 220/248, train_loss: 0.9762, step time: 1.0311
Batch 221/248, train_loss: 0.9734, step time: 1.0315

```
Batch 222/248, train_loss: 0.8523, step time: 1.0299
Batch 223/248, train_loss: 0.7293, step time: 1.0271
Batch 224/248, train_loss: 0.8046, step time: 1.0276
Batch 225/248, train_loss: 0.9990, step time: 1.0248
Batch 226/248, train_loss: 0.9882, step time: 1.0257
Batch 227/248, train_loss: 0.8699, step time: 1.0272
Batch 228/248, train_loss: 0.9700, step time: 1.0244
Batch 229/248, train_loss: 0.7364, step time: 1.0287
Batch 230/248, train_loss: 0.8828, step time: 1.0277
Batch 231/248, train_loss: 0.9984, step time: 1.0253
Batch 232/248, train_loss: 0.8711, step time: 1.0269
Batch 233/248, train_loss: 0.9999, step time: 1.0176
Batch 234/248, train_loss: 0.9969, step time: 1.0235
Batch 235/248, train_loss: 0.9970, step time: 1.0239
Batch 236/248, train_loss: 0.9988, step time: 1.0222
Batch 237/248, train_loss: 0.7563, step time: 1.0286
Batch 238/248, train_loss: 0.8479, step time: 1.0318
Batch 239/248, train_loss: 0.5154, step time: 1.0317
Batch 240/248, train_loss: 0.9645, step time: 1.0298
Batch 241/248, train_loss: 0.9996, step time: 1.0226
Batch 242/248, train_loss: 0.9843, step time: 1.0264
Batch 243/248, train_loss: 0.9992, step time: 1.0235
Batch 244/248, train_loss: 0.9955, step time: 1.0256
Batch 245/248, train_loss: 0.8136, step time: 1.0280
Batch 246/248, train_loss: 0.9953, step time: 1.0257
Batch 247/248, train_loss: 0.6070, step time: 1.0295
Batch 248/248, train_loss: 1.0000, step time: 1.0143
```

Labels



Predictions



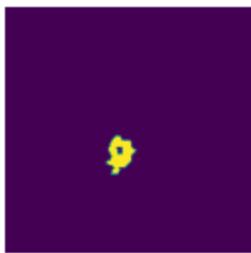
VAL

```
Batch 1/31, val_loss: 0.9660
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9993
Batch 4/31, val_loss: 0.9940
Batch 5/31, val_loss: 0.9999
Batch 6/31, val_loss: 0.8390
```

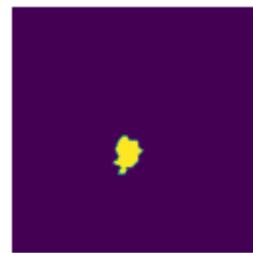
```
Batch 7/31, val_loss: 0.9521
Batch 8/31, val_loss: 0.9949
Batch 9/31, val_loss: 0.8647
Batch 10/31, val_loss: 0.9915
Batch 11/31, val_loss: 0.9610
Batch 12/31, val_loss: 0.9981
Batch 13/31, val_loss: 0.9965
Batch 14/31, val_loss: 0.9965
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9983
Batch 17/31, val_loss: 0.9993
Batch 18/31, val_loss: 0.9948
Batch 19/31, val_loss: 0.9203
Batch 20/31, val_loss: 0.9694
Batch 21/31, val_loss: 0.9786
Batch 22/31, val_loss: 0.9993
Batch 23/31, val_loss: 0.9992
Batch 24/31, val_loss: 0.8375
Batch 25/31, val_loss: 0.9366
Batch 26/31, val_loss: 0.9832
Batch 27/31, val_loss: 0.9997
Batch 28/31, val_loss: 0.9255
Batch 29/31, val_loss: 0.9998
Batch 30/31, val_loss: 0.9987
Batch 31/31, val_loss: 0.9973
```

Labels

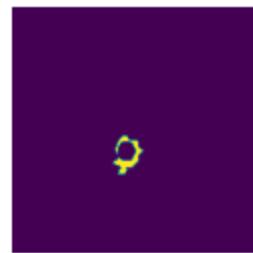
TC



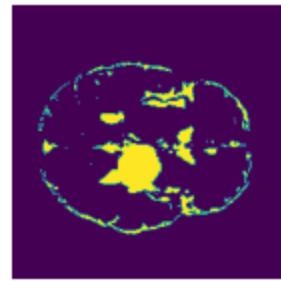
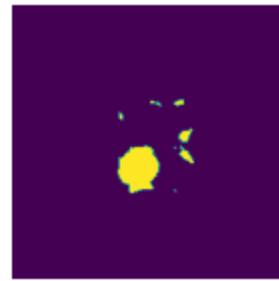
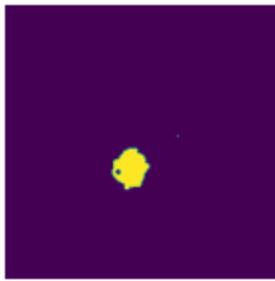
WT



ET



Predictions



epoch 6

```
average train loss: 0.9131
average validation loss: 0.9707
saved as best model: True
current mean dice: 0.1805
current TC dice: 0.2692
current WT dice: 0.1972
current ET dice: 0.0830
```

Best Mean Metric: 0.1805
time consuming of epoch 6 is: 1538.7269

epoch 7/100
TRAIN
Batch 1/248, train_loss: 0.6969, step time: 1.0289
Batch 2/248, train_loss: 0.9994, step time: 1.0217
Batch 3/248, train_loss: 0.9928, step time: 1.0228
Batch 4/248, train_loss: 0.9997, step time: 1.0174
Batch 5/248, train_loss: 0.9626, step time: 1.0272
Batch 6/248, train_loss: 0.9629, step time: 1.0264
Batch 7/248, train_loss: 0.6179, step time: 1.0277
Batch 8/248, train_loss: 0.9260, step time: 1.0240
Batch 9/248, train_loss: 0.7172, step time: 1.0331
Batch 10/248, train_loss: 0.9831, step time: 1.0298
Batch 11/248, train_loss: 0.9564, step time: 1.0304
Batch 12/248, train_loss: 0.9992, step time: 1.0258
Batch 13/248, train_loss: 0.9911, step time: 1.0277
Batch 14/248, train_loss: 0.5860, step time: 1.0276
Batch 15/248, train_loss: 0.9778, step time: 1.0300
Batch 16/248, train_loss: 0.9459, step time: 1.0284
Batch 17/248, train_loss: 0.9988, step time: 1.0240
Batch 18/248, train_loss: 0.9968, step time: 1.0275
Batch 19/248, train_loss: 0.7364, step time: 1.0280
Batch 20/248, train_loss: 0.9358, step time: 1.0282
Batch 21/248, train_loss: 0.8477, step time: 1.0282
Batch 22/248, train_loss: 0.9998, step time: 1.0200
Batch 23/248, train_loss: 0.9998, step time: 1.0202
Batch 24/248, train_loss: 0.8654, step time: 1.0307
Batch 25/248, train_loss: 0.5823, step time: 1.0295
Batch 26/248, train_loss: 0.9975, step time: 1.0267
Batch 27/248, train_loss: 0.7064, step time: 1.0300
Batch 28/248, train_loss: 0.9438, step time: 1.0308
Batch 29/248, train_loss: 0.9977, step time: 1.0281
Batch 30/248, train_loss: 0.9635, step time: 1.0301
Batch 31/248, train_loss: 0.9787, step time: 1.0273
Batch 32/248, train_loss: 0.8407, step time: 1.0303
Batch 33/248, train_loss: 0.6946, step time: 1.0285
Batch 34/248, train_loss: 0.7571, step time: 1.0283
Batch 35/248, train_loss: 0.8589, step time: 1.0278
Batch 36/248, train_loss: 0.9997, step time: 1.0192
Batch 37/248, train_loss: 0.8794, step time: 1.0283
Batch 38/248, train_loss: 0.9717, step time: 1.0261
Batch 39/248, train_loss: 0.8973, step time: 1.0256
Batch 40/248, train_loss: 0.9999, step time: 1.0161
Batch 41/248, train_loss: 0.8180, step time: 1.0253
Batch 42/248, train_loss: 0.8067, step time: 1.0291
Batch 43/248, train_loss: 0.7375, step time: 1.0276
Batch 44/248, train_loss: 0.9206, step time: 1.0251
Batch 45/248, train_loss: 0.9776, step time: 1.0285
Batch 46/248, train_loss: 0.9075, step time: 1.0291
Batch 47/248, train_loss: 0.9374, step time: 1.0286
Batch 48/248, train_loss: 0.9265, step time: 1.0314
Batch 49/248, train_loss: 0.9959, step time: 1.0293
Batch 50/248, train_loss: 0.9442, step time: 1.0344
Batch 51/248, train_loss: 0.9411, step time: 1.0305
Batch 52/248, train_loss: 0.9087, step time: 1.0285

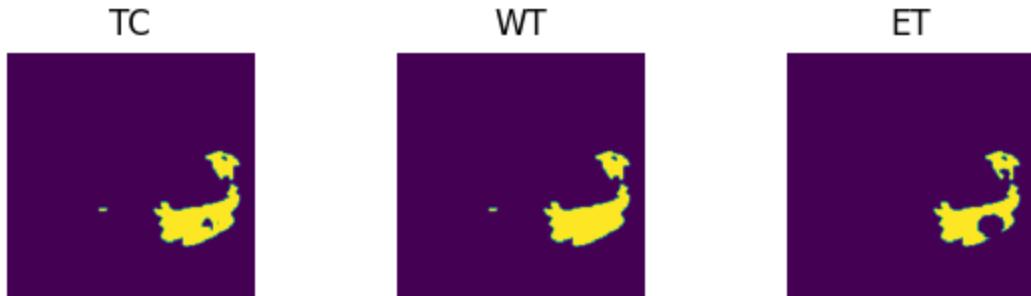
Batch 52/248, train_loss: 0.9999, step time: 1.0229
Batch 53/248, train_loss: 0.9801, step time: 1.0276
Batch 54/248, train_loss: 0.9280, step time: 1.0285
Batch 55/248, train_loss: 0.9882, step time: 1.0281
Batch 56/248, train_loss: 0.9448, step time: 1.0318
Batch 57/248, train_loss: 0.9421, step time: 1.0277
Batch 58/248, train_loss: 0.8231, step time: 1.0250
Batch 59/248, train_loss: 0.8606, step time: 1.0285
Batch 60/248, train_loss: 0.8077, step time: 1.0297
Batch 61/248, train_loss: 0.8597, step time: 1.0265
Batch 62/248, train_loss: 0.9847, step time: 1.0247
Batch 63/248, train_loss: 0.9975, step time: 1.0243
Batch 64/248, train_loss: 0.9953, step time: 1.0235
Batch 65/248, train_loss: 0.9646, step time: 1.0273
Batch 66/248, train_loss: 0.9531, step time: 1.0303
Batch 67/248, train_loss: 0.6755, step time: 1.0316
Batch 68/248, train_loss: 0.8033, step time: 1.0302
Batch 69/248, train_loss: 0.9989, step time: 1.0232
Batch 70/248, train_loss: 0.8214, step time: 1.0302
Batch 71/248, train_loss: 0.7653, step time: 1.0315
Batch 72/248, train_loss: 0.7813, step time: 1.0287
Batch 73/248, train_loss: 0.8131, step time: 1.0256
Batch 74/248, train_loss: 0.9998, step time: 1.0195
Batch 75/248, train_loss: 0.8021, step time: 1.0301
Batch 76/248, train_loss: 0.9960, step time: 1.0278
Batch 77/248, train_loss: 0.9993, step time: 1.0216
Batch 78/248, train_loss: 0.8937, step time: 1.0269
Batch 79/248, train_loss: 0.9421, step time: 1.0353
Batch 80/248, train_loss: 0.9581, step time: 1.0289
Batch 81/248, train_loss: 0.9743, step time: 1.0287
Batch 82/248, train_loss: 0.7969, step time: 1.0285
Batch 83/248, train_loss: 0.9970, step time: 1.0227
Batch 84/248, train_loss: 0.9374, step time: 1.0340
Batch 85/248, train_loss: 0.9981, step time: 1.0252
Batch 86/248, train_loss: 0.8709, step time: 1.0275
Batch 87/248, train_loss: 0.9907, step time: 1.0287
Batch 88/248, train_loss: 0.9923, step time: 1.0344
Batch 89/248, train_loss: 0.6450, step time: 1.0279
Batch 90/248, train_loss: 0.9548, step time: 1.0272
Batch 91/248, train_loss: 0.9977, step time: 1.0219
Batch 92/248, train_loss: 0.9452, step time: 1.0273
Batch 93/248, train_loss: 0.7931, step time: 1.0262
Batch 94/248, train_loss: 0.9970, step time: 1.0253
Batch 95/248, train_loss: 0.8787, step time: 1.0312
Batch 96/248, train_loss: 0.8598, step time: 1.0326
Batch 97/248, train_loss: 0.9999, step time: 1.0190
Batch 98/248, train_loss: 0.7567, step time: 1.0297
Batch 99/248, train_loss: 0.9953, step time: 1.0277
Batch 100/248, train_loss: 0.9988, step time: 1.0239
Batch 101/248, train_loss: 0.5935, step time: 1.0320
Batch 102/248, train_loss: 0.9170, step time: 1.0279
Batch 103/248, train_loss: 0.9953, step time: 1.0238
Batch 104/248, train_loss: 0.8805, step time: 1.0308
Batch 105/248, train_loss: 0.7359, step time: 1.0284
Batch 106/248, train_loss: 0.9462, step time: 1.0284
Batch 107/248, train_loss: 0.9903, step time: 1.0255
Batch 108/248, train_loss: 0.9939, step time: 1.0231

Batch 109/248, train_loss: 0.9986, step time: 1.0247
Batch 110/248, train_loss: 0.9663, step time: 1.0291
Batch 111/248, train_loss: 0.7417, step time: 1.0313
Batch 112/248, train_loss: 0.7572, step time: 1.0275
Batch 113/248, train_loss: 0.9998, step time: 1.0229
Batch 114/248, train_loss: 0.6617, step time: 1.0321
Batch 115/248, train_loss: 0.9071, step time: 1.0329
Batch 116/248, train_loss: 0.7376, step time: 1.0279
Batch 117/248, train_loss: 0.9974, step time: 1.0252
Batch 118/248, train_loss: 0.9952, step time: 1.0266
Batch 119/248, train_loss: 0.9237, step time: 1.0300
Batch 120/248, train_loss: 0.9172, step time: 1.0264
Batch 121/248, train_loss: 0.9750, step time: 1.0257
Batch 122/248, train_loss: 0.9882, step time: 1.0251
Batch 123/248, train_loss: 0.8189, step time: 1.0319
Batch 124/248, train_loss: 0.9886, step time: 1.0268
Batch 125/248, train_loss: 0.9987, step time: 1.0243
Batch 126/248, train_loss: 0.7738, step time: 1.0279
Batch 127/248, train_loss: 0.9064, step time: 1.0281
Batch 128/248, train_loss: 0.9608, step time: 1.0260
Batch 129/248, train_loss: 0.6732, step time: 1.0331
Batch 130/248, train_loss: 0.6944, step time: 1.0287
Batch 131/248, train_loss: 0.9884, step time: 1.0291
Batch 132/248, train_loss: 0.9924, step time: 1.0294
Batch 133/248, train_loss: 0.5797, step time: 1.0309
Batch 134/248, train_loss: 0.9999, step time: 1.0168
Batch 135/248, train_loss: 0.9974, step time: 1.0253
Batch 136/248, train_loss: 0.9503, step time: 1.0290
Batch 137/248, train_loss: 0.7107, step time: 1.0285
Batch 138/248, train_loss: 0.7447, step time: 1.0312
Batch 139/248, train_loss: 0.7749, step time: 1.0275
Batch 140/248, train_loss: 0.9521, step time: 1.0297
Batch 141/248, train_loss: 0.8277, step time: 1.0288
Batch 142/248, train_loss: 0.9972, step time: 1.0255
Batch 143/248, train_loss: 0.9533, step time: 1.0290
Batch 144/248, train_loss: 0.7354, step time: 1.0319
Batch 145/248, train_loss: 0.5636, step time: 1.0273
Batch 146/248, train_loss: 0.9987, step time: 1.0225
Batch 147/248, train_loss: 0.5502, step time: 1.0256
Batch 148/248, train_loss: 0.9917, step time: 1.0277
Batch 149/248, train_loss: 0.8937, step time: 1.0287
Batch 150/248, train_loss: 0.8861, step time: 1.0282
Batch 151/248, train_loss: 0.9909, step time: 1.0257
Batch 152/248, train_loss: 0.5682, step time: 1.0264
Batch 153/248, train_loss: 0.9837, step time: 1.0257
Batch 154/248, train_loss: 0.9955, step time: 1.0278
Batch 155/248, train_loss: 0.9068, step time: 1.0313
Batch 156/248, train_loss: 0.9240, step time: 1.0277
Batch 157/248, train_loss: 0.7755, step time: 1.0293
Batch 158/248, train_loss: 0.9995, step time: 1.0206
Batch 159/248, train_loss: 0.9991, step time: 1.0238
Batch 160/248, train_loss: 0.8019, step time: 1.0286
Batch 161/248, train_loss: 0.8971, step time: 1.0299
Batch 162/248, train_loss: 0.5373, step time: 1.0302
Batch 163/248, train_loss: 0.9895, step time: 1.0262
Batch 164/248, train_loss: 0.9067, step time: 1.0264
Batch 165/248, train_loss: 0.9991, step time: 1.0233

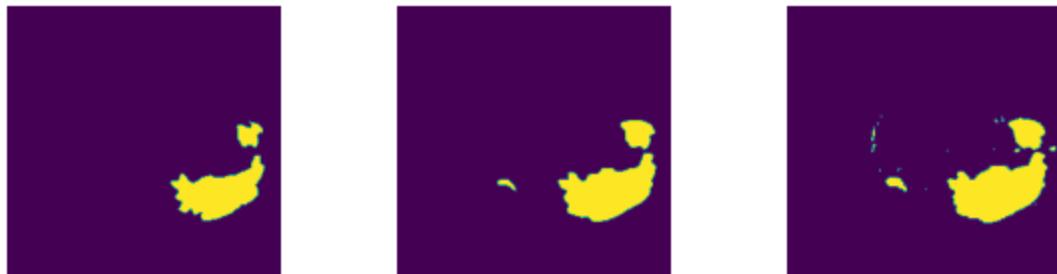
Batch 165/248, train_loss: 0.9759, step time: 1.0275
Batch 166/248, train_loss: 0.9070, step time: 1.0300
Batch 168/248, train_loss: 0.9058, step time: 1.0327
Batch 169/248, train_loss: 0.8142, step time: 1.0300
Batch 170/248, train_loss: 0.9952, step time: 1.0261
Batch 171/248, train_loss: 0.6184, step time: 1.0282
Batch 172/248, train_loss: 0.9997, step time: 1.0199
Batch 173/248, train_loss: 0.7408, step time: 1.0282
Batch 174/248, train_loss: 0.9997, step time: 1.0213
Batch 175/248, train_loss: 0.6709, step time: 1.0301
Batch 176/248, train_loss: 0.9524, step time: 1.0279
Batch 177/248, train_loss: 0.9983, step time: 1.0230
Batch 178/248, train_loss: 0.8136, step time: 1.0332
Batch 179/248, train_loss: 0.4992, step time: 1.0276
Batch 180/248, train_loss: 0.9049, step time: 1.0282
Batch 181/248, train_loss: 0.7058, step time: 1.0327
Batch 182/248, train_loss: 0.9855, step time: 1.0251
Batch 183/248, train_loss: 0.9122, step time: 1.0274
Batch 184/248, train_loss: 0.9826, step time: 1.0323
Batch 185/248, train_loss: 0.9026, step time: 1.0268
Batch 186/248, train_loss: 0.8287, step time: 1.0276
Batch 187/248, train_loss: 0.8280, step time: 1.0292
Batch 188/248, train_loss: 0.9089, step time: 1.0294
Batch 189/248, train_loss: 0.9995, step time: 1.0235
Batch 190/248, train_loss: 0.8331, step time: 1.0280
Batch 191/248, train_loss: 0.9989, step time: 1.0212
Batch 192/248, train_loss: 0.8319, step time: 1.0271
Batch 193/248, train_loss: 0.9513, step time: 1.0299
Batch 194/248, train_loss: 0.9342, step time: 1.0273
Batch 195/248, train_loss: 0.9994, step time: 1.0214
Batch 196/248, train_loss: 0.9999, step time: 1.0183
Batch 197/248, train_loss: 0.9691, step time: 1.0296
Batch 198/248, train_loss: 0.9999, step time: 1.0179
Batch 199/248, train_loss: 0.9120, step time: 1.0317
Batch 200/248, train_loss: 0.8866, step time: 1.0292
Batch 201/248, train_loss: 0.8038, step time: 1.0296
Batch 202/248, train_loss: 0.9450, step time: 1.0262
Batch 203/248, train_loss: 0.9961, step time: 1.0248
Batch 204/248, train_loss: 0.6567, step time: 1.0285
Batch 205/248, train_loss: 0.9800, step time: 1.0304
Batch 206/248, train_loss: 0.9985, step time: 1.0230
Batch 207/248, train_loss: 0.7808, step time: 1.0293
Batch 208/248, train_loss: 0.9072, step time: 1.0259
Batch 209/248, train_loss: 0.8589, step time: 1.0304
Batch 210/248, train_loss: 0.7697, step time: 1.0319
Batch 211/248, train_loss: 0.7538, step time: 1.0276
Batch 212/248, train_loss: 0.9618, step time: 1.0301
Batch 213/248, train_loss: 0.9390, step time: 1.0264
Batch 214/248, train_loss: 0.8254, step time: 1.0293
Batch 215/248, train_loss: 0.9699, step time: 1.0302
Batch 216/248, train_loss: 0.7957, step time: 1.0296
Batch 217/248, train_loss: 0.9811, step time: 1.0291
Batch 218/248, train_loss: 0.9989, step time: 1.0267
Batch 219/248, train_loss: 0.8339, step time: 1.0319
Batch 220/248, train_loss: 0.9623, step time: 1.0306
Batch 221/248, train_loss: 0.9597, step time: 1.0314

```
Batch 222/248, train_loss: 0.8112, step time: 1.0318
Batch 223/248, train_loss: 0.6688, step time: 1.0316
Batch 224/248, train_loss: 0.7490, step time: 1.0312
Batch 225/248, train_loss: 0.9986, step time: 1.0226
Batch 226/248, train_loss: 0.9836, step time: 1.0248
Batch 227/248, train_loss: 0.8271, step time: 1.0280
Batch 228/248, train_loss: 0.9576, step time: 1.0261
Batch 229/248, train_loss: 0.7007, step time: 1.0313
Batch 230/248, train_loss: 0.8432, step time: 1.0276
Batch 231/248, train_loss: 0.9987, step time: 1.0210
Batch 232/248, train_loss: 0.8257, step time: 1.0271
Batch 233/248, train_loss: 0.9999, step time: 1.0181
Batch 234/248, train_loss: 0.9967, step time: 1.0267
Batch 235/248, train_loss: 0.9962, step time: 1.0239
Batch 236/248, train_loss: 0.9986, step time: 1.0216
Batch 237/248, train_loss: 0.6983, step time: 1.0322
Batch 238/248, train_loss: 0.7999, step time: 1.0350
Batch 239/248, train_loss: 0.4556, step time: 1.0305
Batch 240/248, train_loss: 0.9549, step time: 1.0319
Batch 241/248, train_loss: 0.9994, step time: 1.0222
Batch 242/248, train_loss: 0.9820, step time: 1.0268
Batch 243/248, train_loss: 0.9989, step time: 1.0252
Batch 244/248, train_loss: 0.9942, step time: 1.0262
Batch 245/248, train_loss: 0.7690, step time: 1.0277
Batch 246/248, train_loss: 0.9932, step time: 1.0237
Batch 247/248, train_loss: 0.5477, step time: 1.0271
Batch 248/248, train_loss: 1.0000, step time: 1.0122
```

Labels



Predictions

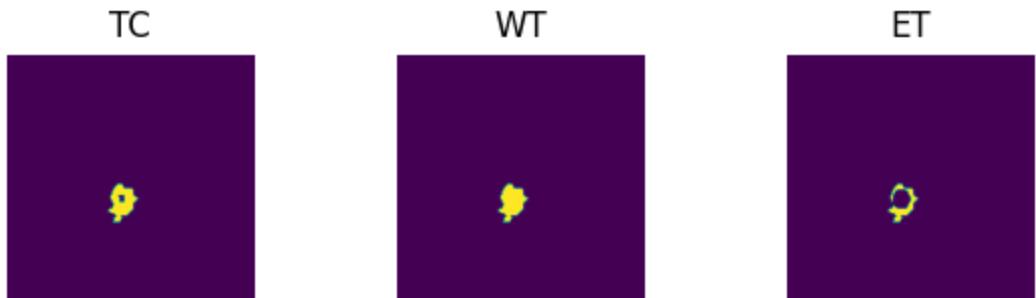


VAL

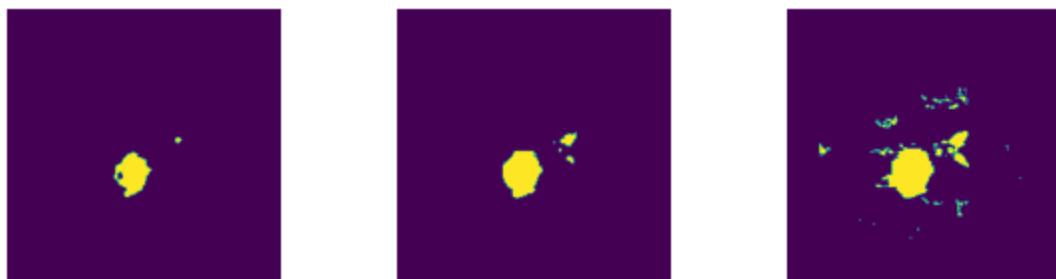
```
Batch 1/31, val_loss: 0.9594
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9993
Batch 4/31, val_loss: 0.9918
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8281
```

```
Batch 0/31, val_loss: 0.8204
Batch 7/31, val_loss: 0.9466
Batch 8/31, val_loss: 0.9940
Batch 9/31, val_loss: 0.8474
Batch 10/31, val_loss: 0.9910
Batch 11/31, val_loss: 0.9529
Batch 12/31, val_loss: 0.9967
Batch 13/31, val_loss: 0.9954
Batch 14/31, val_loss: 0.9958
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9980
Batch 17/31, val_loss: 0.9991
Batch 18/31, val_loss: 0.9930
Batch 19/31, val_loss: 0.9077
Batch 20/31, val_loss: 0.9665
Batch 21/31, val_loss: 0.9764
Batch 22/31, val_loss: 0.9992
Batch 23/31, val_loss: 0.9990
Batch 24/31, val_loss: 0.8238
Batch 25/31, val_loss: 0.9252
Batch 26/31, val_loss: 0.9790
Batch 27/31, val_loss: 0.9996
Batch 28/31, val_loss: 0.9117
Batch 29/31, val_loss: 0.9998
Batch 30/31, val_loss: 0.9986
Batch 31/31, val_loss: 0.9973
```

Labels



Predictions



epoch 7

```
average train loss: 0.8889
average validation loss: 0.9666
saved as best model: True
current mean dice: 0.1988
current TC dice: 0.2645
current WT dice: 0.2038
current ET dice: 0.1416
```

Best Mean Metric: 0.1988

time consuming of epoch 7 is: 1545.0817

epoch 8/100

TRAIN

Batch 1/248, train_loss: 0.6368, step time: 1.0314
Batch 2/248, train_loss: 0.9993, step time: 1.0209
Batch 3/248, train_loss: 0.9908, step time: 1.0239
Batch 4/248, train_loss: 0.9995, step time: 1.0209
Batch 5/248, train_loss: 0.9520, step time: 1.0270
Batch 6/248, train_loss: 0.9560, step time: 1.0261
Batch 7/248, train_loss: 0.5517, step time: 1.0294
Batch 8/248, train_loss: 0.9097, step time: 1.0268
Batch 9/248, train_loss: 0.6560, step time: 1.0300
Batch 10/248, train_loss: 0.9777, step time: 1.0291
Batch 11/248, train_loss: 0.9405, step time: 1.0309
Batch 12/248, train_loss: 0.9987, step time: 1.0224
Batch 13/248, train_loss: 0.9878, step time: 1.0251
Batch 14/248, train_loss: 0.5181, step time: 1.0295
Batch 15/248, train_loss: 0.9682, step time: 1.0267
Batch 16/248, train_loss: 0.9245, step time: 1.0258
Batch 17/248, train_loss: 0.9987, step time: 1.0225
Batch 18/248, train_loss: 0.9964, step time: 1.0210
Batch 19/248, train_loss: 0.6814, step time: 1.0267
Batch 20/248, train_loss: 0.9141, step time: 1.0285
Batch 21/248, train_loss: 0.7992, step time: 1.0274
Batch 22/248, train_loss: 0.9998, step time: 1.0210
Batch 23/248, train_loss: 0.9997, step time: 1.0193
Batch 24/248, train_loss: 0.8224, step time: 1.0290
Batch 25/248, train_loss: 0.5367, step time: 1.0290
Batch 26/248, train_loss: 0.9971, step time: 1.0272
Batch 27/248, train_loss: 0.6457, step time: 1.0250
Batch 28/248, train_loss: 0.9221, step time: 1.0322
Batch 29/248, train_loss: 0.9971, step time: 1.0252
Batch 30/248, train_loss: 0.9938, step time: 1.0244
Batch 31/248, train_loss: 0.9711, step time: 1.0260
Batch 32/248, train_loss: 0.8018, step time: 1.0266
Batch 33/248, train_loss: 0.6455, step time: 1.0294
Batch 34/248, train_loss: 0.7023, step time: 1.0319
Batch 35/248, train_loss: 0.8150, step time: 1.0246
Batch 36/248, train_loss: 0.9997, step time: 1.0174
Batch 37/248, train_loss: 0.8411, step time: 1.0241
Batch 38/248, train_loss: 0.9660, step time: 1.0271
Batch 39/248, train_loss: 0.8658, step time: 1.0248
Batch 40/248, train_loss: 0.9998, step time: 1.0185
Batch 41/248, train_loss: 0.7806, step time: 1.0293
Batch 42/248, train_loss: 0.7629, step time: 1.0263
Batch 43/248, train_loss: 0.6829, step time: 1.0276
Batch 44/248, train_loss: 0.8625, step time: 1.0288
Batch 45/248, train_loss: 0.9756, step time: 1.0254
Batch 46/248, train_loss: 0.8755, step time: 1.0264
Batch 47/248, train_loss: 0.9106, step time: 1.0308
Batch 48/248, train_loss: 0.9032, step time: 1.0283
Batch 49/248, train_loss: 0.9945, step time: 1.0238
Batch 50/248, train_loss: 0.9209, step time: 1.0266
Batch 51/248, train_loss: 0.9213, step time: 1.0308

Batch 52/248, train_loss: 0.9750, step time: 1.0212

```
Batch 52/248, train_loss: 0.8752, step time: 1.0313
Batch 53/248, train_loss: 0.9729, step time: 1.0287
Batch 54/248, train_loss: 0.9000, step time: 1.0285
Batch 55/248, train_loss: 0.9840, step time: 1.0295
Batch 56/248, train_loss: 0.9268, step time: 1.0279
Batch 57/248, train_loss: 0.9169, step time: 1.0295
Batch 58/248, train_loss: 0.7697, step time: 1.0313
Batch 59/248, train_loss: 0.8091, step time: 1.0284
Batch 60/248, train_loss: 0.7553, step time: 1.0263
Batch 61/248, train_loss: 0.8123, step time: 1.0286
Batch 62/248, train_loss: 0.9794, step time: 1.0285
Batch 63/248, train_loss: 0.9962, step time: 1.0253
Batch 64/248, train_loss: 0.9933, step time: 1.0275
Batch 65/248, train_loss: 0.9748, step time: 1.0275
Batch 66/248, train_loss: 0.9337, step time: 1.0271
Batch 67/248, train_loss: 0.6166, step time: 1.0296
Batch 68/248, train_loss: 0.7503, step time: 1.0315
Batch 69/248, train_loss: 0.9985, step time: 1.0241
Batch 70/248, train_loss: 0.7745, step time: 1.0293
Batch 71/248, train_loss: 0.7163, step time: 1.0307
Batch 72/248, train_loss: 0.7248, step time: 1.0302
Batch 73/248, train_loss: 0.7651, step time: 1.0299
Batch 74/248, train_loss: 0.9997, step time: 1.0172
Batch 75/248, train_loss: 0.7496, step time: 1.0288
Batch 76/248, train_loss: 0.9946, step time: 1.0269
Batch 77/248, train_loss: 0.9990, step time: 1.0208
Batch 78/248, train_loss: 0.8551, step time: 1.0276
Batch 79/248, train_loss: 0.9106, step time: 1.0263
Batch 80/248, train_loss: 0.9452, step time: 1.0290
Batch 81/248, train_loss: 0.9647, step time: 1.0259
Batch 82/248, train_loss: 0.7450, step time: 1.0289
Batch 83/248, train_loss: 0.9962, step time: 1.0316
Batch 84/248, train_loss: 0.9095, step time: 1.0302
Batch 85/248, train_loss: 0.9976, step time: 1.0262
Batch 86/248, train_loss: 0.8444, step time: 1.0308
Batch 87/248, train_loss: 0.9900, step time: 1.0242
Batch 88/248, train_loss: 0.9889, step time: 1.0261
Batch 89/248, train_loss: 0.5885, step time: 1.0313
Batch 90/248, train_loss: 0.9409, step time: 1.0300
Batch 91/248, train_loss: 0.9966, step time: 1.0231
Batch 92/248, train_loss: 0.9241, step time: 1.0297
Batch 93/248, train_loss: 0.7438, step time: 1.0283
Batch 94/248, train_loss: 0.9956, step time: 1.0252
Batch 95/248, train_loss: 0.8373, step time: 1.0282
Batch 96/248, train_loss: 0.8232, step time: 1.0328
Batch 97/248, train_loss: 0.9999, step time: 1.0194
Batch 98/248, train_loss: 0.7034, step time: 1.0275
Batch 99/248, train_loss: 0.9945, step time: 1.0269
Batch 100/248, train_loss: 0.9986, step time: 1.0209
Batch 101/248, train_loss: 0.5306, step time: 1.0306
Batch 102/248, train_loss: 0.8838, step time: 1.0279
Batch 103/248, train_loss: 0.9937, step time: 1.0217
Batch 104/248, train_loss: 0.8566, step time: 1.0261
Batch 105/248, train_loss: 0.6771, step time: 1.0278
Batch 106/248, train_loss: 0.9293, step time: 1.0322
Batch 107/248, train_loss: 0.9897, step time: 1.0253
Batch 108/248, train loss: 0.9911, step time: 1.0253
```

Batch 109/248, train_loss: 0.9980, step time: 1.0217
Batch 110/248, train_loss: 0.9634, step time: 1.0263
Batch 111/248, train_loss: 0.6890, step time: 1.0294
Batch 112/248, train_loss: 0.7083, step time: 1.0320
Batch 113/248, train_loss: 0.9997, step time: 1.0223
Batch 114/248, train_loss: 0.6114, step time: 1.0293
Batch 115/248, train_loss: 0.8760, step time: 1.0288
Batch 116/248, train_loss: 0.6860, step time: 1.0301
Batch 117/248, train_loss: 0.9971, step time: 1.0229
Batch 118/248, train_loss: 0.9948, step time: 1.0243
Batch 119/248, train_loss: 0.8989, step time: 1.0274
Batch 120/248, train_loss: 0.8957, step time: 1.0283
Batch 121/248, train_loss: 0.9635, step time: 1.0303
Batch 122/248, train_loss: 0.9822, step time: 1.0242
Batch 123/248, train_loss: 0.7769, step time: 1.0283
Batch 124/248, train_loss: 0.9865, step time: 1.0288
Batch 125/248, train_loss: 0.9985, step time: 1.0234
Batch 126/248, train_loss: 0.7439, step time: 1.0295
Batch 127/248, train_loss: 0.8744, step time: 1.0273
Batch 128/248, train_loss: 0.9459, step time: 1.0285
Batch 129/248, train_loss: 0.6164, step time: 1.0270
Batch 130/248, train_loss: 0.6387, step time: 1.0308
Batch 131/248, train_loss: 0.9842, step time: 1.0254
Batch 132/248, train_loss: 0.9884, step time: 1.0238
Batch 133/248, train_loss: 0.5250, step time: 1.0255
Batch 134/248, train_loss: 0.9999, step time: 1.0203
Batch 135/248, train_loss: 0.9969, step time: 1.0248
Batch 136/248, train_loss: 0.9273, step time: 1.0262
Batch 137/248, train_loss: 0.6445, step time: 1.0264
Batch 138/248, train_loss: 0.6778, step time: 1.0287
Batch 139/248, train_loss: 0.7268, step time: 1.0280
Batch 140/248, train_loss: 0.9313, step time: 1.0278
Batch 141/248, train_loss: 0.7832, step time: 1.0282
Batch 142/248, train_loss: 0.9949, step time: 1.0238
Batch 143/248, train_loss: 0.9392, step time: 1.0260
Batch 144/248, train_loss: 0.6794, step time: 1.0261
Batch 145/248, train_loss: 0.4950, step time: 1.0276
Batch 146/248, train_loss: 0.9985, step time: 1.0203
Batch 147/248, train_loss: 0.4855, step time: 1.0272
Batch 148/248, train_loss: 0.9878, step time: 1.0237
Batch 149/248, train_loss: 0.8562, step time: 1.0244
Batch 150/248, train_loss: 0.8707, step time: 1.0290
Batch 151/248, train_loss: 0.9928, step time: 1.0258
Batch 152/248, train_loss: 0.4994, step time: 1.0295
Batch 153/248, train_loss: 0.9754, step time: 1.0290
Batch 154/248, train_loss: 0.9936, step time: 1.0239
Batch 155/248, train_loss: 0.8732, step time: 1.0281
Batch 156/248, train_loss: 0.9009, step time: 1.0293
Batch 157/248, train_loss: 0.7307, step time: 1.0282
Batch 158/248, train_loss: 0.9994, step time: 1.0210
Batch 159/248, train_loss: 0.9990, step time: 1.0232
Batch 160/248, train_loss: 0.7476, step time: 1.0265
Batch 161/248, train_loss: 0.8620, step time: 1.0286
Batch 162/248, train_loss: 0.4698, step time: 1.0280
Batch 163/248, train_loss: 0.9845, step time: 1.0249
Batch 164/248, train_loss: 0.8745, step time: 1.0300

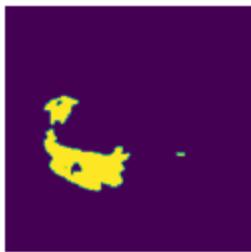
Batch 165/248, train_loss: 0.9999, step time: 1.0221

```
Batch 165/248, train_loss: 0.9990, step time: 1.0204
Batch 166/248, train_loss: 0.9669, step time: 1.0301
Batch 167/248, train_loss: 0.8846, step time: 1.0272
Batch 168/248, train_loss: 0.8713, step time: 1.0276
Batch 169/248, train_loss: 0.7668, step time: 1.0294
Batch 170/248, train_loss: 0.9954, step time: 1.0256
Batch 171/248, train_loss: 0.5522, step time: 1.0267
Batch 172/248, train_loss: 0.9994, step time: 1.0220
Batch 173/248, train_loss: 0.6844, step time: 1.0268
Batch 174/248, train_loss: 0.9994, step time: 1.0206
Batch 175/248, train_loss: 0.6180, step time: 1.0257
Batch 176/248, train_loss: 0.9252, step time: 1.0295
Batch 177/248, train_loss: 0.9975, step time: 1.0259
Batch 178/248, train_loss: 0.7647, step time: 1.0304
Batch 179/248, train_loss: 0.4380, step time: 1.0281
Batch 180/248, train_loss: 0.8759, step time: 1.0294
Batch 181/248, train_loss: 0.6492, step time: 1.0256
Batch 182/248, train_loss: 0.9820, step time: 1.0238
Batch 183/248, train_loss: 0.8887, step time: 1.0291
Batch 184/248, train_loss: 0.9765, step time: 1.0251
Batch 185/248, train_loss: 0.8713, step time: 1.0300
Batch 186/248, train_loss: 0.7826, step time: 1.0311
Batch 187/248, train_loss: 0.7805, step time: 1.0286
Batch 188/248, train_loss: 0.8832, step time: 1.0308
Batch 189/248, train_loss: 0.9994, step time: 1.0215
Batch 190/248, train_loss: 0.7898, step time: 1.0310
Batch 191/248, train_loss: 0.9984, step time: 1.0273
Batch 192/248, train_loss: 0.7938, step time: 1.0315
Batch 193/248, train_loss: 0.9410, step time: 1.0281
Batch 194/248, train_loss: 0.9083, step time: 1.0286
Batch 195/248, train_loss: 0.9991, step time: 1.0246
Batch 196/248, train_loss: 0.9999, step time: 1.0176
Batch 197/248, train_loss: 0.9566, step time: 1.0303
Batch 198/248, train_loss: 0.9999, step time: 1.0195
Batch 199/248, train_loss: 0.8836, step time: 1.0289
Batch 200/248, train_loss: 0.8515, step time: 1.0273
Batch 201/248, train_loss: 0.7569, step time: 1.0278
Batch 202/248, train_loss: 0.9296, step time: 1.0291
Batch 203/248, train_loss: 0.9942, step time: 1.0254
Batch 204/248, train_loss: 0.5971, step time: 1.0274
Batch 205/248, train_loss: 0.9705, step time: 1.0287
Batch 206/248, train_loss: 0.9977, step time: 1.0221
Batch 207/248, train_loss: 0.7276, step time: 1.0280
Batch 208/248, train_loss: 0.8863, step time: 1.0294
Batch 209/248, train_loss: 0.8183, step time: 1.0288
Batch 210/248, train_loss: 0.7218, step time: 1.0283
Batch 211/248, train_loss: 0.6992, step time: 1.0280
Batch 212/248, train_loss: 0.9632, step time: 1.0297
Batch 213/248, train_loss: 0.9163, step time: 1.0294
Batch 214/248, train_loss: 0.7799, step time: 1.0248
Batch 215/248, train_loss: 0.9532, step time: 1.0279
Batch 216/248, train_loss: 0.7535, step time: 1.0314
Batch 217/248, train_loss: 0.9728, step time: 1.0317
Batch 218/248, train_loss: 0.9986, step time: 1.0249
Batch 219/248, train_loss: 0.7878, step time: 1.0311
Batch 220/248, train_loss: 0.9503, step time: 1.0282
Batch 221/248, train_loss: 0.9450, step time: 1.0271
```

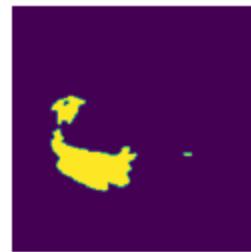
```
Batch 222/248, train_loss: 0.7697, step time: 1.0291
Batch 223/248, train_loss: 0.6067, step time: 1.0294
Batch 224/248, train_loss: 0.6941, step time: 1.0258
Batch 225/248, train_loss: 0.9977, step time: 1.0239
Batch 226/248, train_loss: 0.9865, step time: 1.0252
Batch 227/248, train_loss: 0.7863, step time: 1.0277
Batch 228/248, train_loss: 0.9419, step time: 1.0280
Batch 229/248, train_loss: 0.6225, step time: 1.0261
Batch 230/248, train_loss: 0.8011, step time: 1.0320
Batch 231/248, train_loss: 0.9985, step time: 1.0216
Batch 232/248, train_loss: 0.7807, step time: 1.0296
Batch 233/248, train_loss: 0.9998, step time: 1.0187
Batch 234/248, train_loss: 0.9949, step time: 1.0258
Batch 235/248, train_loss: 0.9958, step time: 1.0265
Batch 236/248, train_loss: 0.9984, step time: 1.0226
Batch 237/248, train_loss: 0.6413, step time: 1.0289
Batch 238/248, train_loss: 0.7469, step time: 1.0301
Batch 239/248, train_loss: 0.3958, step time: 1.0298
Batch 240/248, train_loss: 0.9291, step time: 1.0287
Batch 241/248, train_loss: 0.9994, step time: 1.0239
Batch 242/248, train_loss: 0.9632, step time: 1.0283
Batch 243/248, train_loss: 0.9989, step time: 1.0221
Batch 244/248, train_loss: 0.9913, step time: 1.0269
Batch 245/248, train_loss: 0.7011, step time: 1.0295
Batch 246/248, train_loss: 0.9924, step time: 1.0244
Batch 247/248, train_loss: 0.4796, step time: 1.0289
Batch 248/248, train_loss: 1.0000, step time: 1.0160
```

Labels

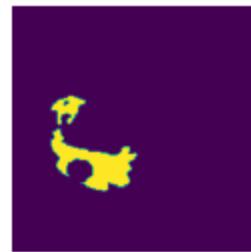
TC



WT



ET



Predictions

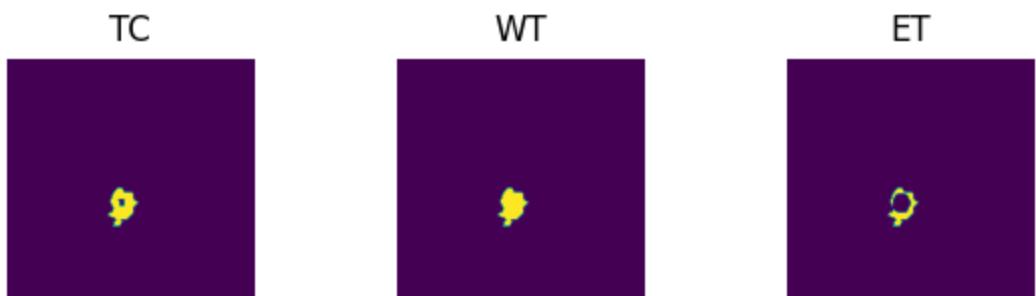


VAL

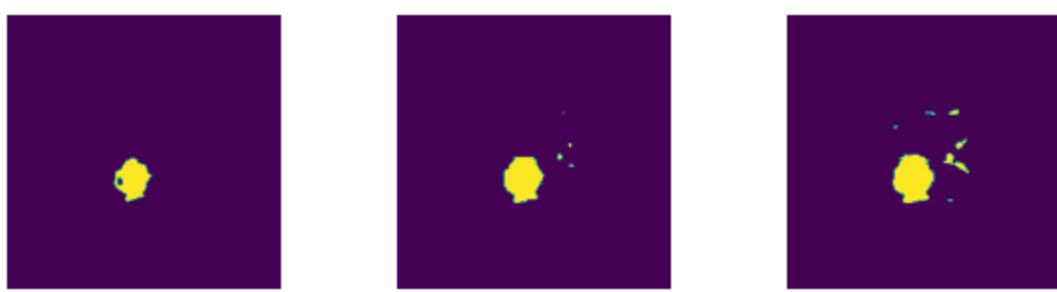
```
Batch 1/31, val_loss: 0.9527
Batch 2/31, val_loss: 0.9998
Batch 3/31, val_loss: 0.9986
Batch 4/31, val_loss: 0.9898
Batch 5/31, val_loss: 0.9999
- - - - -
```

```
Batch 6/31, val_loss: 0.8022
Batch 7/31, val_loss: 0.9353
Batch 8/31, val_loss: 0.9928
Batch 9/31, val_loss: 0.8283
Batch 10/31, val_loss: 0.9840
Batch 11/31, val_loss: 0.9434
Batch 12/31, val_loss: 0.9970
Batch 13/31, val_loss: 0.9955
Batch 14/31, val_loss: 0.9948
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9973
Batch 17/31, val_loss: 0.9989
Batch 18/31, val_loss: 0.9917
Batch 19/31, val_loss: 0.8956
Batch 20/31, val_loss: 0.9622
Batch 21/31, val_loss: 0.9666
Batch 22/31, val_loss: 0.9989
Batch 23/31, val_loss: 0.9991
Batch 24/31, val_loss: 0.8073
Batch 25/31, val_loss: 0.9136
Batch 26/31, val_loss: 0.9745
Batch 27/31, val_loss: 0.9993
Batch 28/31, val_loss: 0.8960
Batch 29/31, val_loss: 0.9996
Batch 30/31, val_loss: 0.9973
Batch 31/31, val_loss: 0.9954
```

Labels



Predictions



epoch 8

```
average train loss: 0.8635
average validation loss: 0.9615
saved as best model: True
current mean dice: 0.2323
current TC dice: 0.3016
current WT dice: 0.2290
current ET dice: 0.1829
```

CURRENT LR: 0.1000

Best Mean Metric: 0.2323
time consuming of epoch 8 is: 1546.6860

epoch 9/100

TRAIN

Batch 1/248, train_loss: 0.5718, step time: 1.0308
Batch 2/248, train_loss: 0.9990, step time: 1.0253
Batch 3/248, train_loss: 0.9868, step time: 1.0244
Batch 4/248, train_loss: 0.9996, step time: 1.0193
Batch 5/248, train_loss: 0.9325, step time: 1.0315
Batch 6/248, train_loss: 0.9467, step time: 1.0286
Batch 7/248, train_loss: 0.4808, step time: 1.0296
Batch 8/248, train_loss: 0.8934, step time: 1.0272
Batch 9/248, train_loss: 0.5846, step time: 1.0297
Batch 10/248, train_loss: 0.9676, step time: 1.0296
Batch 11/248, train_loss: 0.9211, step time: 1.0334
Batch 12/248, train_loss: 0.9978, step time: 1.0256
Batch 13/248, train_loss: 0.9832, step time: 1.0288
Batch 14/248, train_loss: 0.4348, step time: 1.0262
Batch 15/248, train_loss: 0.9560, step time: 1.0298
Batch 16/248, train_loss: 0.9034, step time: 1.0284
Batch 17/248, train_loss: 0.9977, step time: 1.0269
Batch 18/248, train_loss: 0.9938, step time: 1.0266
Batch 19/248, train_loss: 0.6073, step time: 1.0280
Batch 20/248, train_loss: 0.8937, step time: 1.0269
Batch 21/248, train_loss: 0.7467, step time: 1.0303
Batch 22/248, train_loss: 0.9997, step time: 1.0222
Batch 23/248, train_loss: 0.9997, step time: 1.0232
Batch 24/248, train_loss: 0.7731, step time: 1.0318
Batch 25/248, train_loss: 0.4426, step time: 1.0310
Batch 26/248, train_loss: 0.9962, step time: 1.0293
Batch 27/248, train_loss: 0.5717, step time: 1.0298
Batch 28/248, train_loss: 0.8988, step time: 1.0341
Batch 29/248, train_loss: 0.9967, step time: 1.0291
Batch 30/248, train_loss: 0.9109, step time: 1.0303
Batch 31/248, train_loss: 0.9584, step time: 1.0294
Batch 32/248, train_loss: 0.7428, step time: 1.0333
Batch 33/248, train_loss: 0.5580, step time: 1.0304
Batch 34/248, train_loss: 0.6286, step time: 1.0266
Batch 35/248, train_loss: 0.7641, step time: 1.0303
Batch 36/248, train_loss: 0.9995, step time: 1.0224
Batch 37/248, train_loss: 0.7997, step time: 1.0297
Batch 38/248, train_loss: 0.9453, step time: 1.0259
Batch 39/248, train_loss: 0.9830, step time: 1.0270
Batch 40/248, train_loss: 0.9999, step time: 1.0199
Batch 41/248, train_loss: 0.7220, step time: 1.0288
Batch 42/248, train_loss: 0.6921, step time: 1.0310
Batch 43/248, train_loss: 0.6110, step time: 1.0327
Batch 44/248, train_loss: 0.8405, step time: 1.0316
Batch 45/248, train_loss: 0.9610, step time: 1.0294
Batch 46/248, train_loss: 0.8368, step time: 1.0295
Batch 47/248, train_loss: 0.8795, step time: 1.0364
Batch 48/248, train_loss: 0.8706, step time: 1.0316
Batch 49/248, train_loss: 0.9906, step time: 1.0259
Batch 50/248, train_loss: 0.8943, step time: 1.0304
Batch 51/248, train_loss: 0.8883, step time: 1.0303

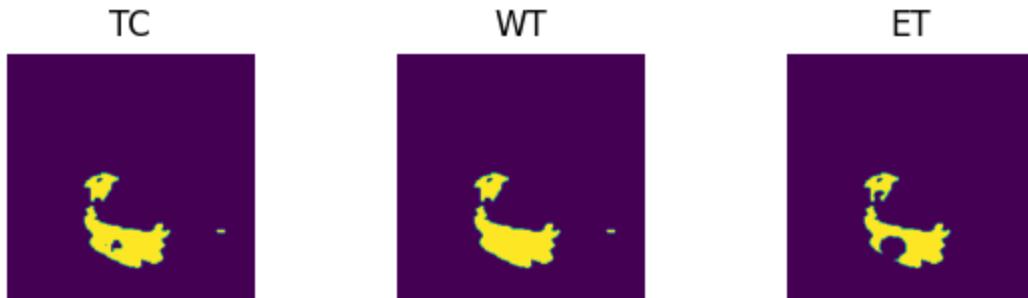
Batch 52/248, train_loss: 0.8420, step time: 1.0310
Batch 53/248, train_loss: 0.9636, step time: 1.0310
Batch 54/248, train_loss: 0.8671, step time: 1.0317
Batch 55/248, train_loss: 0.9710, step time: 1.0284
Batch 56/248, train_loss: 0.8924, step time: 1.0314
Batch 57/248, train_loss: 0.8894, step time: 1.0303
Batch 58/248, train_loss: 0.7182, step time: 1.0295
Batch 59/248, train_loss: 0.7630, step time: 1.0296
Batch 60/248, train_loss: 0.6975, step time: 1.0290
Batch 61/248, train_loss: 0.7632, step time: 1.0321
Batch 62/248, train_loss: 0.9635, step time: 1.0291
Batch 63/248, train_loss: 0.9953, step time: 1.0258
Batch 64/248, train_loss: 0.9923, step time: 1.0304
Batch 65/248, train_loss: 0.9493, step time: 1.0312
Batch 66/248, train_loss: 0.9179, step time: 1.0282
Batch 67/248, train_loss: 0.5499, step time: 1.0294
Batch 68/248, train_loss: 0.7223, step time: 1.0298
Batch 69/248, train_loss: 0.9980, step time: 1.0266
Batch 70/248, train_loss: 0.7182, step time: 1.0321
Batch 71/248, train_loss: 0.6559, step time: 1.0336
Batch 72/248, train_loss: 0.6585, step time: 1.0281
Batch 73/248, train_loss: 0.7251, step time: 1.0321
Batch 74/248, train_loss: 0.9997, step time: 1.0200
Batch 75/248, train_loss: 0.7004, step time: 1.0310
Batch 76/248, train_loss: 0.9944, step time: 1.0274
Batch 77/248, train_loss: 0.9992, step time: 1.0223
Batch 78/248, train_loss: 0.8140, step time: 1.0282
Batch 79/248, train_loss: 0.9038, step time: 1.0334
Batch 80/248, train_loss: 0.9257, step time: 1.0338
Batch 81/248, train_loss: 0.9553, step time: 1.0283
Batch 82/248, train_loss: 0.6836, step time: 1.0323
Batch 83/248, train_loss: 0.9955, step time: 1.0283
Batch 84/248, train_loss: 0.8812, step time: 1.0305
Batch 85/248, train_loss: 0.9971, step time: 1.0250
Batch 86/248, train_loss: 0.8175, step time: 1.0319
Batch 87/248, train_loss: 0.9837, step time: 1.0273
Batch 88/248, train_loss: 0.9886, step time: 1.0308
Batch 89/248, train_loss: 0.5129, step time: 1.0315
Batch 90/248, train_loss: 0.9138, step time: 1.0271
Batch 91/248, train_loss: 0.9953, step time: 1.0226
Batch 92/248, train_loss: 0.9031, step time: 1.0315
Batch 93/248, train_loss: 0.6932, step time: 1.0300
Batch 94/248, train_loss: 0.9938, step time: 1.0292
Batch 95/248, train_loss: 0.8004, step time: 1.0287
Batch 96/248, train_loss: 0.7859, step time: 1.0307
Batch 97/248, train_loss: 0.9999, step time: 1.0218
Batch 98/248, train_loss: 0.6479, step time: 1.0306
Batch 99/248, train_loss: 0.9921, step time: 1.0287
Batch 100/248, train_loss: 0.9987, step time: 1.0260
Batch 101/248, train_loss: 0.4483, step time: 1.0283
Batch 102/248, train_loss: 0.8595, step time: 1.0295
Batch 103/248, train_loss: 0.9920, step time: 1.0261
Batch 104/248, train_loss: 0.8361, step time: 1.0310
Batch 105/248, train_loss: 0.6067, step time: 1.0268
Batch 106/248, train_loss: 0.9047, step time: 1.0298
Batch 107/248, train_loss: 0.9860, step time: 1.0303
Batch 108/248, train_loss: 0.9821, step time: 1.0292

Batch 108/248, train_loss: 0.9999, step time: 1.0229
Batch 109/248, train_loss: 0.9980, step time: 1.0260
Batch 110/248, train_loss: 0.9550, step time: 1.0330
Batch 111/248, train_loss: 0.6249, step time: 1.0307
Batch 112/248, train_loss: 0.6567, step time: 1.0302
Batch 113/248, train_loss: 0.9997, step time: 1.0244
Batch 114/248, train_loss: 0.5355, step time: 1.0322
Batch 115/248, train_loss: 0.8427, step time: 1.0328
Batch 116/248, train_loss: 0.6104, step time: 1.0336
Batch 117/248, train_loss: 0.9967, step time: 1.0264
Batch 118/248, train_loss: 0.9939, step time: 1.0237
Batch 119/248, train_loss: 0.8704, step time: 1.0308
Batch 120/248, train_loss: 0.8792, step time: 1.0297
Batch 121/248, train_loss: 0.9673, step time: 1.0261
Batch 122/248, train_loss: 0.9804, step time: 1.0275
Batch 123/248, train_loss: 0.7161, step time: 1.0320
Batch 124/248, train_loss: 0.9782, step time: 1.0305
Batch 125/248, train_loss: 0.9983, step time: 1.0255
Batch 126/248, train_loss: 0.6656, step time: 1.0314
Batch 127/248, train_loss: 0.8407, step time: 1.0333
Batch 128/248, train_loss: 0.9309, step time: 1.0307
Batch 129/248, train_loss: 0.5443, step time: 1.0339
Batch 130/248, train_loss: 0.5503, step time: 1.0302
Batch 131/248, train_loss: 0.9817, step time: 1.0285
Batch 132/248, train_loss: 0.9888, step time: 1.0314
Batch 133/248, train_loss: 0.4271, step time: 1.0314
Batch 134/248, train_loss: 0.9999, step time: 1.0196
Batch 135/248, train_loss: 0.9971, step time: 1.0268
Batch 136/248, train_loss: 0.9101, step time: 1.0279
Batch 137/248, train_loss: 0.5582, step time: 1.0275
Batch 138/248, train_loss: 0.5958, step time: 1.0277
Batch 139/248, train_loss: 0.6512, step time: 1.0338
Batch 140/248, train_loss: 0.9181, step time: 1.0274
Batch 141/248, train_loss: 0.7321, step time: 1.0284
Batch 142/248, train_loss: 0.9973, step time: 1.0242
Batch 143/248, train_loss: 0.9246, step time: 1.0325
Batch 144/248, train_loss: 0.5905, step time: 1.0375
Batch 145/248, train_loss: 0.3848, step time: 1.0327
Batch 146/248, train_loss: 0.9983, step time: 1.0265
Batch 147/248, train_loss: 0.3677, step time: 1.0318
Batch 148/248, train_loss: 0.9874, step time: 1.0287
Batch 149/248, train_loss: 0.8202, step time: 1.0308
Batch 150/248, train_loss: 0.8413, step time: 1.0312
Batch 151/248, train_loss: 0.9878, step time: 1.0292
Batch 152/248, train_loss: 0.3820, step time: 1.0303
Batch 153/248, train_loss: 0.9771, step time: 1.0325
Batch 154/248, train_loss: 0.9914, step time: 1.0291
Batch 155/248, train_loss: 0.8393, step time: 1.0291
Batch 156/248, train_loss: 0.8610, step time: 1.0323
Batch 157/248, train_loss: 0.6598, step time: 1.0295
Batch 158/248, train_loss: 0.9993, step time: 1.0230
Batch 159/248, train_loss: 0.9979, step time: 1.0272
Batch 160/248, train_loss: 0.6807, step time: 1.0313
Batch 161/248, train_loss: 0.8257, step time: 1.0298
Batch 162/248, train_loss: 0.3458, step time: 1.0288
Batch 163/248, train_loss: 0.9807, step time: 1.0304
Batch 164/248, train_loss: 0.8349, step time: 1.0293

Batch 165/248, train_loss: 0.9988, step time: 1.0238
Batch 166/248, train_loss: 0.9567, step time: 1.0303
Batch 167/248, train_loss: 0.8480, step time: 1.0331
Batch 168/248, train_loss: 0.8371, step time: 1.0301
Batch 169/248, train_loss: 0.6970, step time: 1.0305
Batch 170/248, train_loss: 0.9946, step time: 1.0281
Batch 171/248, train_loss: 0.4473, step time: 1.0308
Batch 172/248, train_loss: 0.9995, step time: 1.0215
Batch 173/248, train_loss: 0.5962, step time: 1.0311
Batch 174/248, train_loss: 0.9916, step time: 1.0241
Batch 175/248, train_loss: 0.5233, step time: 1.0283
Batch 176/248, train_loss: 0.9138, step time: 1.0269
Batch 177/248, train_loss: 0.9967, step time: 1.0268
Batch 178/248, train_loss: 0.6919, step time: 1.0302
Batch 179/248, train_loss: 0.3137, step time: 1.0302
Batch 180/248, train_loss: 0.8392, step time: 1.0326
Batch 181/248, train_loss: 0.5402, step time: 1.0322
Batch 182/248, train_loss: 0.9754, step time: 1.0290
Batch 183/248, train_loss: 0.8438, step time: 1.0300
Batch 184/248, train_loss: 0.9666, step time: 1.0295
Batch 185/248, train_loss: 0.8143, step time: 1.0309
Batch 186/248, train_loss: 0.6899, step time: 1.0273
Batch 187/248, train_loss: 0.7145, step time: 1.0369
Batch 188/248, train_loss: 0.8477, step time: 1.0331
Batch 189/248, train_loss: 0.9994, step time: 1.0247
Batch 190/248, train_loss: 0.7102, step time: 1.0313
Batch 191/248, train_loss: 0.9983, step time: 1.0261
Batch 192/248, train_loss: 0.7202, step time: 1.0286
Batch 193/248, train_loss: 0.9070, step time: 1.0303
Batch 194/248, train_loss: 0.8692, step time: 1.0318
Batch 195/248, train_loss: 0.9992, step time: 1.0255
Batch 196/248, train_loss: 0.9999, step time: 1.0200
Batch 197/248, train_loss: 0.9388, step time: 1.0314
Batch 198/248, train_loss: 0.9998, step time: 1.0213
Batch 199/248, train_loss: 0.8344, step time: 1.0298
Batch 200/248, train_loss: 0.7842, step time: 1.0301
Batch 201/248, train_loss: 0.6519, step time: 1.0320
Batch 202/248, train_loss: 0.8959, step time: 1.0317
Batch 203/248, train_loss: 0.9925, step time: 1.0256
Batch 204/248, train_loss: 0.4573, step time: 1.0310
Batch 205/248, train_loss: 0.9553, step time: 1.0310
Batch 206/248, train_loss: 0.9967, step time: 1.0250
Batch 207/248, train_loss: 0.6172, step time: 1.0302
Batch 208/248, train_loss: 0.8257, step time: 1.0324
Batch 209/248, train_loss: 0.7287, step time: 1.0301
Batch 210/248, train_loss: 0.5929, step time: 1.0301
Batch 211/248, train_loss: 0.5705, step time: 1.0367
Batch 212/248, train_loss: 0.9230, step time: 1.0325
Batch 213/248, train_loss: 0.8726, step time: 1.0304
Batch 214/248, train_loss: 0.6741, step time: 1.0312
Batch 215/248, train_loss: 0.9122, step time: 1.0293
Batch 216/248, train_loss: 0.6524, step time: 1.0293
Batch 217/248, train_loss: 0.9703, step time: 1.0302
Batch 218/248, train_loss: 0.9983, step time: 1.0250
Batch 219/248, train_loss: 0.6744, step time: 1.0332
Batch 220/248, train_loss: 0.9227, step time: 1.0332
Batch 221/248, train_loss: 0.9197, step time: 1.0237

```
Batch 221/248, train_loss: 0.9999, step time: 1.0355  
Batch 222/248, train_loss: 0.6582, step time: 1.0336  
Batch 223/248, train_loss: 0.4369, step time: 1.0310  
Batch 224/248, train_loss: 0.5450, step time: 1.0323  
Batch 225/248, train_loss: 0.9973, step time: 1.0279  
Batch 226/248, train_loss: 0.9671, step time: 1.0281  
Batch 227/248, train_loss: 0.6762, step time: 1.0310  
Batch 228/248, train_loss: 0.9188, step time: 1.0281  
Batch 229/248, train_loss: 0.4946, step time: 1.0350  
Batch 230/248, train_loss: 0.6878, step time: 1.0317  
Batch 231/248, train_loss: 0.9977, step time: 1.0228  
Batch 232/248, train_loss: 0.6548, step time: 1.0301  
Batch 233/248, train_loss: 0.9998, step time: 1.0213  
Batch 234/248, train_loss: 0.9939, step time: 1.0263  
Batch 235/248, train_loss: 0.9931, step time: 1.0300  
Batch 236/248, train_loss: 0.9981, step time: 1.0228  
Batch 237/248, train_loss: 0.4950, step time: 1.0328  
Batch 238/248, train_loss: 0.6156, step time: 1.0325  
Batch 239/248, train_loss: 0.2530, step time: 1.0305  
Batch 240/248, train_loss: 0.8901, step time: 1.0295  
Batch 241/248, train_loss: 0.9992, step time: 1.0235  
Batch 242/248, train_loss: 0.9418, step time: 1.0301  
Batch 243/248, train_loss: 0.9988, step time: 1.0231  
Batch 244/248, train_loss: 0.9882, step time: 1.0268  
Batch 245/248, train_loss: 0.5566, step time: 1.0285  
Batch 246/248, train_loss: 0.9886, step time: 1.0290  
Batch 247/248, train_loss: 0.3109, step time: 1.0299  
Batch 248/248, train_loss: 1.0000, step time: 1.0164
```

Labels



Predictions



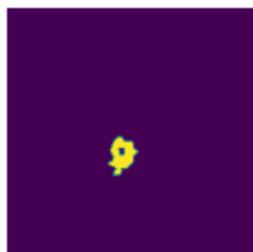
VAL

```
Batch 1/31, val_loss: 0.9335  
Batch 2/31, val_loss: 0.9998  
Batch 3/31, val_loss: 0.9984  
Batch 4/31, val_loss: 0.9832  
Batch 5/31, val_loss: 0.9999
```

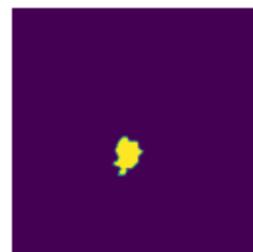
```
Batch 6/31, val_loss: 0.7610
Batch 7/31, val_loss: 0.9102
Batch 8/31, val_loss: 0.9905
Batch 9/31, val_loss: 0.7766
Batch 10/31, val_loss: 0.9757
Batch 11/31, val_loss: 0.9172
Batch 12/31, val_loss: 0.9968
Batch 13/31, val_loss: 0.9945
Batch 14/31, val_loss: 0.9928
Batch 15/31, val_loss: 0.9998
Batch 16/31, val_loss: 0.9962
Batch 17/31, val_loss: 0.9983
Batch 18/31, val_loss: 0.9865
Batch 19/31, val_loss: 0.8622
Batch 20/31, val_loss: 0.9501
Batch 21/31, val_loss: 0.9498
Batch 22/31, val_loss: 0.9984
Batch 23/31, val_loss: 0.9989
Batch 24/31, val_loss: 0.7774
Batch 25/31, val_loss: 0.8801
Batch 26/31, val_loss: 0.9620
Batch 27/31, val_loss: 0.9993
Batch 28/31, val_loss: 0.8477
Batch 29/31, val_loss: 0.9994
Batch 30/31, val_loss: 0.9964
Batch 31/31, val_loss: 0.9933
```

Labels

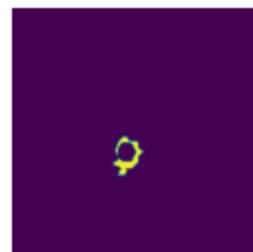
TC



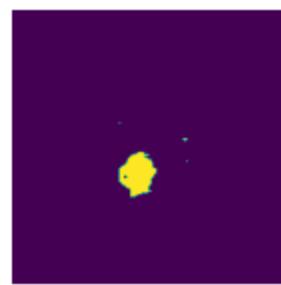
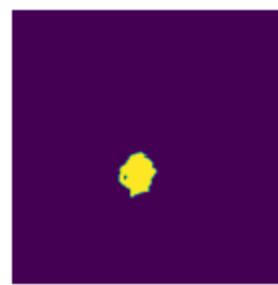
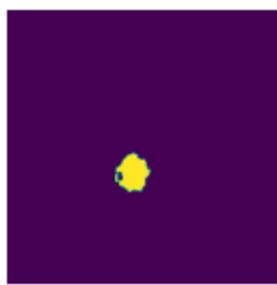
WT



ET



Predictions



epoch 9

```
average train loss: 0.8246
average validation loss: 0.9492
saved as best model: True
current mean dice: 0.2661
current TC dice: 0.3058
current WT dice: 0.2762
    -- .. ^ ~ ----
```

```
current EI aice: 0.2392
Best Mean Metric: 0.2661
time consuming of epoch 9 is: 1553.0272
-----
epoch 10/100
TRAIN
    Batch 1/248, train_loss: 0.3941, step time: 1.0320
    Batch 2/248, train_loss: 0.9983, step time: 1.0276
    Batch 3/248, train_loss: 0.9763, step time: 1.0262
    Batch 4/248, train_loss: 0.9990, step time: 1.0231
    Batch 5/248, train_loss: 0.8775, step time: 1.0379
    Batch 6/248, train_loss: 0.9150, step time: 1.0288
    Batch 7/248, train_loss: 0.3150, step time: 1.0290
    Batch 8/248, train_loss: 0.8437, step time: 1.0330
    Batch 9/248, train_loss: 0.4155, step time: 1.0315
    Batch 10/248, train_loss: 0.9381, step time: 1.0311
    Batch 11/248, train_loss: 0.8590, step time: 1.0339
    Batch 12/248, train_loss: 0.9963, step time: 1.0293
    Batch 13/248, train_loss: 0.9730, step time: 1.0314
    Batch 14/248, train_loss: 0.2737, step time: 1.0280
    Batch 15/248, train_loss: 0.9222, step time: 1.0300
    Batch 16/248, train_loss: 0.8271, step time: 1.0287
    Batch 17/248, train_loss: 0.9973, step time: 1.0264
    Batch 18/248, train_loss: 0.9913, step time: 1.0269
    Batch 19/248, train_loss: 0.4464, step time: 1.0277
    Batch 20/248, train_loss: 0.8193, step time: 1.0279
    Batch 21/248, train_loss: 0.5945, step time: 1.0306
    Batch 22/248, train_loss: 0.9997, step time: 1.0236
    Batch 23/248, train_loss: 0.9996, step time: 1.0218
    Batch 24/248, train_loss: 0.6331, step time: 1.0295
    Batch 25/248, train_loss: 0.3057, step time: 1.0361
    Batch 26/248, train_loss: 0.9952, step time: 1.0316
    Batch 27/248, train_loss: 0.3940, step time: 1.0334
    Batch 28/248, train_loss: 0.8226, step time: 1.0333
    Batch 29/248, train_loss: 0.9897, step time: 1.0311
    Batch 30/248, train_loss: 0.8425, step time: 1.0325
    Batch 31/248, train_loss: 0.9224, step time: 1.0298
    Batch 32/248, train_loss: 0.6130, step time: 1.0289
    Batch 33/248, train_loss: 0.3939, step time: 1.0271
    Batch 34/248, train_loss: 0.4563, step time: 1.0286
    Batch 35/248, train_loss: 0.6194, step time: 1.0305
    Batch 36/248, train_loss: 0.9994, step time: 1.0233
    Batch 37/248, train_loss: 0.6787, step time: 1.0384
    Batch 38/248, train_loss: 0.9027, step time: 1.0278
    Batch 39/248, train_loss: 0.7281, step time: 1.0305
    Batch 40/248, train_loss: 0.9998, step time: 1.0223
    Batch 41/248, train_loss: 0.5928, step time: 1.0323
    Batch 42/248, train_loss: 0.5158, step time: 1.0298
    Batch 43/248, train_loss: 0.4236, step time: 1.0324
    Batch 44/248, train_loss: 0.7487, step time: 1.0296
    Batch 45/248, train_loss: 0.9078, step time: 1.0291
    Batch 46/248, train_loss: 0.7354, step time: 1.0314
    Batch 47/248, train_loss: 0.7850, step time: 1.0331
    Batch 48/248, train_loss: 0.7918, step time: 1.0314
    Batch 49/248, train_loss: 0.9839, step time: 1.0312
    Batch 50/248, train_loss: 0.8049, step time: 1.0309
    Batch 51/248, train loss: 0.8034, step time: 1.0342
```

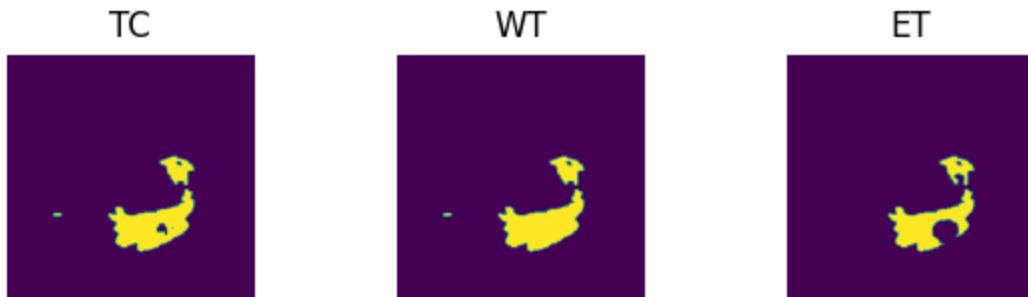
Batch 52/248, train_loss: 0.7241, step time: 1.0319
Batch 53/248, train_loss: 0.9417, step time: 1.0354
Batch 54/248, train_loss: 0.7738, step time: 1.0349
Batch 55/248, train_loss: 0.9635, step time: 1.0320
Batch 56/248, train_loss: 0.8681, step time: 1.0325
Batch 57/248, train_loss: 0.8105, step time: 1.0300
Batch 58/248, train_loss: 0.5539, step time: 1.0313
Batch 59/248, train_loss: 0.6363, step time: 1.0285
Batch 60/248, train_loss: 0.5212, step time: 1.0333
Batch 61/248, train_loss: 0.6205, step time: 1.0291
Batch 62/248, train_loss: 0.9451, step time: 1.0315
Batch 63/248, train_loss: 0.9929, step time: 1.0300
Batch 64/248, train_loss: 0.9858, step time: 1.0269
Batch 65/248, train_loss: 0.9384, step time: 1.0302
Batch 66/248, train_loss: 0.8559, step time: 1.0322
Batch 67/248, train_loss: 0.3689, step time: 1.0301
Batch 68/248, train_loss: 0.5271, step time: 1.0325
Batch 69/248, train_loss: 0.9987, step time: 1.0301
Batch 70/248, train_loss: 0.5600, step time: 1.0306
Batch 71/248, train_loss: 0.4761, step time: 1.0352
Batch 72/248, train_loss: 0.4650, step time: 1.0312
Batch 73/248, train_loss: 0.5629, step time: 1.0293
Batch 74/248, train_loss: 0.9997, step time: 1.0260
Batch 75/248, train_loss: 0.5437, step time: 1.0308
Batch 76/248, train_loss: 0.9897, step time: 1.0315
Batch 77/248, train_loss: 0.9989, step time: 1.0230
Batch 78/248, train_loss: 0.6816, step time: 1.0305
Batch 79/248, train_loss: 0.8077, step time: 1.0324
Batch 80/248, train_loss: 0.8489, step time: 1.0294
Batch 81/248, train_loss: 0.9226, step time: 1.0299
Batch 82/248, train_loss: 0.5042, step time: 1.0343
Batch 83/248, train_loss: 0.9942, step time: 1.0277
Batch 84/248, train_loss: 0.8404, step time: 1.0338
Batch 85/248, train_loss: 0.9981, step time: 1.0243
Batch 86/248, train_loss: 0.7290, step time: 1.0308
Batch 87/248, train_loss: 0.9801, step time: 1.0307
Batch 88/248, train_loss: 0.9730, step time: 1.0271
Batch 89/248, train_loss: 0.3333, step time: 1.0299
Batch 90/248, train_loss: 0.8657, step time: 1.0304
Batch 91/248, train_loss: 0.9936, step time: 1.0251
Batch 92/248, train_loss: 0.8191, step time: 1.0278
Batch 93/248, train_loss: 0.5083, step time: 1.0333
Batch 94/248, train_loss: 0.9862, step time: 1.0367
Batch 95/248, train_loss: 0.6460, step time: 1.0317
Batch 96/248, train_loss: 0.6374, step time: 1.0308
Batch 97/248, train_loss: 0.9998, step time: 1.0240
Batch 98/248, train_loss: 0.4615, step time: 1.0318
Batch 99/248, train_loss: 0.9830, step time: 1.0324
Batch 100/248, train_loss: 0.9971, step time: 1.0248
Batch 101/248, train_loss: 0.2591, step time: 1.0292
Batch 102/248, train_loss: 0.7286, step time: 1.0300
Batch 103/248, train_loss: 0.9872, step time: 1.0284
Batch 104/248, train_loss: 0.6895, step time: 1.0306
Batch 105/248, train_loss: 0.4103, step time: 1.0329
Batch 106/248, train_loss: 0.8221, step time: 1.0315
Batch 107/248, train_loss: 0.9706, step time: 1.0304

```
Batch 108/248, train_loss: 0.9781, step time: 1.0260
Batch 109/248, train_loss: 0.9972, step time: 1.0268
Batch 110/248, train_loss: 0.8948, step time: 1.0333
Batch 111/248, train_loss: 0.4320, step time: 1.0318
Batch 112/248, train_loss: 0.4730, step time: 1.0323
Batch 113/248, train_loss: 0.9994, step time: 1.0251
Batch 114/248, train_loss: 0.3925, step time: 1.0321
Batch 115/248, train_loss: 0.7387, step time: 1.0319
Batch 116/248, train_loss: 0.4070, step time: 1.0319
Batch 117/248, train_loss: 0.9916, step time: 1.0246
Batch 118/248, train_loss: 0.9910, step time: 1.0253
Batch 119/248, train_loss: 0.7938, step time: 1.0315
Batch 120/248, train_loss: 0.7662, step time: 1.0275
Batch 121/248, train_loss: 0.9219, step time: 1.0290
Batch 122/248, train_loss: 0.9614, step time: 1.0328
Batch 123/248, train_loss: 0.5151, step time: 1.0315
Batch 124/248, train_loss: 0.9698, step time: 1.0334
Batch 125/248, train_loss: 0.9975, step time: 1.0273
Batch 126/248, train_loss: 0.5324, step time: 1.0336
Batch 127/248, train_loss: 0.7053, step time: 1.0339
Batch 128/248, train_loss: 0.8669, step time: 1.0340
Batch 129/248, train_loss: 0.3676, step time: 1.0326
Batch 130/248, train_loss: 0.4032, step time: 1.0308
Batch 131/248, train_loss: 0.9601, step time: 1.0326
Batch 132/248, train_loss: 0.9721, step time: 1.0282
Batch 133/248, train_loss: 0.2911, step time: 1.0276
Batch 134/248, train_loss: 0.9999, step time: 1.0209
Batch 135/248, train_loss: 0.9955, step time: 1.0254
Batch 136/248, train_loss: 0.8212, step time: 1.0305
Batch 137/248, train_loss: 0.4089, step time: 1.0282
Batch 138/248, train_loss: 0.4377, step time: 1.0301
Batch 139/248, train_loss: 0.5166, step time: 1.0288
Batch 140/248, train_loss: 0.8193, step time: 1.0316
Batch 141/248, train_loss: 0.5657, step time: 1.0312
Batch 142/248, train_loss: 0.9939, step time: 1.0262
Batch 143/248, train_loss: 0.8430, step time: 1.0323
Batch 144/248, train_loss: 0.4189, step time: 1.0293
Batch 145/248, train_loss: 0.2287, step time: 1.0311
Batch 146/248, train_loss: 0.9974, step time: 1.0260
Batch 147/248, train_loss: 0.2216, step time: 1.0310
Batch 148/248, train_loss: 0.9813, step time: 1.0306
Batch 149/248, train_loss: 0.6680, step time: 1.0321
Batch 150/248, train_loss: 0.8043, step time: 1.0339
Batch 151/248, train_loss: 0.9669, step time: 1.0257
Batch 152/248, train_loss: 0.2238, step time: 1.0308
Batch 153/248, train_loss: 0.9549, step time: 1.0303
Batch 154/248, train_loss: 0.9858, step time: 1.0270
Batch 155/248, train_loss: 0.7046, step time: 1.0305
Batch 156/248, train_loss: 0.7478, step time: 1.0322
Batch 157/248, train_loss: 0.5380, step time: 1.0293
Batch 158/248, train_loss: 0.9990, step time: 1.0212
Batch 159/248, train_loss: 0.9978, step time: 1.0276
Batch 160/248, train_loss: 0.4800, step time: 1.0307
Batch 161/248, train_loss: 0.6779, step time: 1.0308
Batch 162/248, train_loss: 0.2288, step time: 1.0320
Batch 163/248, train_loss: 0.9495, step time: 1.0320
Batch 164/248, train_loss: 0.7139, step time: 1.0310
```

Batch 165/248, train_loss: 0.9981, step time: 1.0252
Batch 166/248, train_loss: 0.9004, step time: 1.0334
Batch 167/248, train_loss: 0.7250, step time: 1.0336
Batch 168/248, train_loss: 0.7036, step time: 1.0325
Batch 169/248, train_loss: 0.5261, step time: 1.0332
Batch 170/248, train_loss: 0.9896, step time: 1.0310
Batch 171/248, train_loss: 0.2914, step time: 1.0294
Batch 172/248, train_loss: 0.9988, step time: 1.0257
Batch 173/248, train_loss: 0.4228, step time: 1.0291
Batch 174/248, train_loss: 0.9922, step time: 1.0268
Batch 175/248, train_loss: 0.3814, step time: 1.0367
Batch 176/248, train_loss: 0.8043, step time: 1.0388
Batch 177/248, train_loss: 0.9907, step time: 1.0311
Batch 178/248, train_loss: 0.5449, step time: 1.0296
Batch 179/248, train_loss: 0.2037, step time: 1.0280
Batch 180/248, train_loss: 0.7282, step time: 1.0301
Batch 181/248, train_loss: 0.3907, step time: 1.0299
Batch 182/248, train_loss: 0.9666, step time: 1.0303
Batch 183/248, train_loss: 0.7467, step time: 1.0320
Batch 184/248, train_loss: 0.9363, step time: 1.0328
Batch 185/248, train_loss: 0.6851, step time: 1.0320
Batch 186/248, train_loss: 0.5422, step time: 1.0337
Batch 187/248, train_loss: 0.5881, step time: 1.0416
Batch 188/248, train_loss: 0.7360, step time: 1.0347
Batch 189/248, train_loss: 0.9991, step time: 1.0230
Batch 190/248, train_loss: 0.5596, step time: 1.0316
Batch 191/248, train_loss: 0.9971, step time: 1.0274
Batch 192/248, train_loss: 0.6080, step time: 1.0313
Batch 193/248, train_loss: 0.8528, step time: 1.0292
Batch 194/248, train_loss: 0.7526, step time: 1.0321
Batch 195/248, train_loss: 0.9988, step time: 1.0271
Batch 196/248, train_loss: 0.9998, step time: 1.0214
Batch 197/248, train_loss: 0.8647, step time: 1.0345
Batch 198/248, train_loss: 0.9999, step time: 1.0237
Batch 199/248, train_loss: 0.7293, step time: 1.0339
Batch 200/248, train_loss: 0.6557, step time: 1.0359
Batch 201/248, train_loss: 0.5199, step time: 1.0330
Batch 202/248, train_loss: 0.8281, step time: 1.0372
Batch 203/248, train_loss: 0.9870, step time: 1.0266
Batch 204/248, train_loss: 0.3044, step time: 1.0302
Batch 205/248, train_loss: 0.9244, step time: 1.0299
Batch 206/248, train_loss: 0.9910, step time: 1.0297
Batch 207/248, train_loss: 0.4783, step time: 1.0304
Batch 208/248, train_loss: 0.6967, step time: 1.0335
Batch 209/248, train_loss: 0.5915, step time: 1.0314
Batch 210/248, train_loss: 0.4252, step time: 1.0313
Batch 211/248, train_loss: 0.4106, step time: 1.0305
Batch 212/248, train_loss: 0.8795, step time: 1.0319
Batch 213/248, train_loss: 0.7815, step time: 1.0300
Batch 214/248, train_loss: 0.5326, step time: 1.0300
Batch 215/248, train_loss: 0.8765, step time: 1.0342
Batch 216/248, train_loss: 0.5513, step time: 1.0311
Batch 217/248, train_loss: 0.9558, step time: 1.0294
Batch 218/248, train_loss: 0.9973, step time: 1.0307
Batch 219/248, train_loss: 0.5269, step time: 1.0341
Batch 220/248, train_loss: 0.8592, step time: 1.0332

```
Batch 221/248, train_loss: 0.8255, step time: 1.0322
Batch 222/248, train_loss: 0.5119, step time: 1.0356
Batch 223/248, train_loss: 0.2940, step time: 1.0309
Batch 224/248, train_loss: 0.4093, step time: 1.0301
Batch 225/248, train_loss: 0.9970, step time: 1.0363
Batch 226/248, train_loss: 0.9418, step time: 1.0280
Batch 227/248, train_loss: 0.5433, step time: 1.0294
Batch 228/248, train_loss: 0.8321, step time: 1.0312
Batch 229/248, train_loss: 0.4084, step time: 1.0299
Batch 230/248, train_loss: 0.5509, step time: 1.0279
Batch 231/248, train_loss: 0.9990, step time: 1.0256
Batch 232/248, train_loss: 0.5038, step time: 1.0319
Batch 233/248, train_loss: 0.9997, step time: 1.0222
Batch 234/248, train_loss: 0.9880, step time: 1.0285
Batch 235/248, train_loss: 0.9899, step time: 1.0328
Batch 236/248, train_loss: 0.9977, step time: 1.0266
Batch 237/248, train_loss: 0.3787, step time: 1.0324
Batch 238/248, train_loss: 0.4808, step time: 1.0300
Batch 239/248, train_loss: 0.1752, step time: 1.0326
Batch 240/248, train_loss: 0.8077, step time: 1.0308
Batch 241/248, train_loss: 0.9992, step time: 1.0260
Batch 242/248, train_loss: 0.8902, step time: 1.0312
Batch 243/248, train_loss: 0.9981, step time: 1.0245
Batch 244/248, train_loss: 0.9902, step time: 1.0287
Batch 245/248, train_loss: 0.4156, step time: 1.0302
Batch 246/248, train_loss: 0.9835, step time: 1.0255
Batch 247/248, train_loss: 0.2154, step time: 1.0311
Batch 248/248, train_loss: 1.0000, step time: 1.0169
```

Labels



Predictions



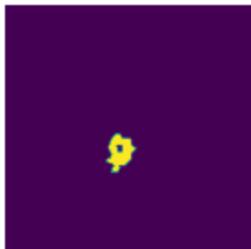
VAL

```
Batch 1/31, val_loss: 0.9264
Batch 2/31, val_loss: 0.9997
Batch 3/31, val_loss: 0.9977
Batch 4/31, val_loss: 0.9784
Batch 5/31. val loss: 0.9999
```

```
Batch 6/31, val_loss: 0.7402
Batch 7/31, val_loss: 0.8953
Batch 8/31, val_loss: 0.9885
Batch 9/31, val_loss: 0.7508
Batch 10/31, val_loss: 0.9698
Batch 11/31, val_loss: 0.8963
Batch 12/31, val_loss: 0.9965
Batch 13/31, val_loss: 0.9926
Batch 14/31, val_loss: 0.9921
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9955
Batch 17/31, val_loss: 0.9983
Batch 18/31, val_loss: 0.9810
Batch 19/31, val_loss: 0.8412
Batch 20/31, val_loss: 0.9453
Batch 21/31, val_loss: 0.9359
Batch 22/31, val_loss: 0.9982
Batch 23/31, val_loss: 0.9987
Batch 24/31, val_loss: 0.7653
Batch 25/31, val_loss: 0.8569
Batch 26/31, val_loss: 0.9512
Batch 27/31, val_loss: 0.9991
Batch 28/31, val_loss: 0.8196
Batch 29/31, val_loss: 0.9991
Batch 30/31, val_loss: 0.9955
Batch 31/31, val_loss: 0.9899
```

Labels

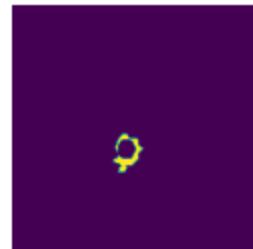
TC



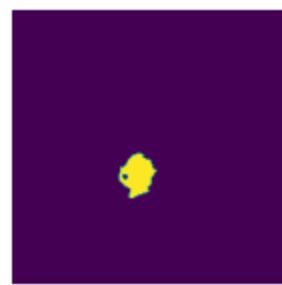
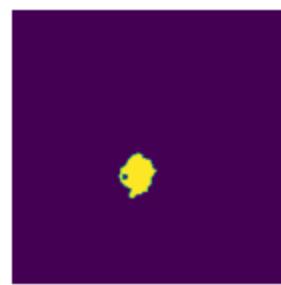
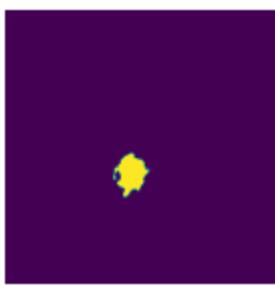
WT



ET



Predictions



epoch 10

```
average train loss: 0.7420
average validation loss: 0.9418
saved as best model: True
current mean dice: 0.2810
current TC dice: 0.3107
current WT dice: 0.2972
```

```
    current ET dice: 0.2602
Best Mean Metric: 0.2810
time consuming of epoch 10 is: 1548.6490
-----
epoch 11/100
TRAIN
    Batch 1/248, train_loss: 0.2735, step time: 1.0306
    Batch 2/248, train_loss: 0.9981, step time: 1.0285
    Batch 3/248, train_loss: 0.9676, step time: 1.0312
    Batch 4/248, train_loss: 0.9990, step time: 1.0249
    Batch 5/248, train_loss: 0.8056, step time: 1.0333
    Batch 6/248, train_loss: 0.9065, step time: 1.0315
    Batch 7/248, train_loss: 0.2216, step time: 1.0312
    Batch 8/248, train_loss: 0.8113, step time: 1.0327
    Batch 9/248, train_loss: 0.2740, step time: 1.0283
    Batch 10/248, train_loss: 0.8969, step time: 1.0314
    Batch 11/248, train_loss: 0.8081, step time: 1.0348
    Batch 12/248, train_loss: 0.9934, step time: 1.0290
    Batch 13/248, train_loss: 0.9604, step time: 1.0293
    Batch 14/248, train_loss: 0.1746, step time: 1.0285
    Batch 15/248, train_loss: 0.8692, step time: 1.0312
    Batch 16/248, train_loss: 0.7343, step time: 1.0311
    Batch 17/248, train_loss: 0.9947, step time: 1.0256
    Batch 18/248, train_loss: 0.9866, step time: 1.0266
    Batch 19/248, train_loss: 0.3233, step time: 1.0298
    Batch 20/248, train_loss: 0.7533, step time: 1.0294
    Batch 21/248, train_loss: 0.4605, step time: 1.0302
    Batch 22/248, train_loss: 0.9995, step time: 1.0221
    Batch 23/248, train_loss: 0.9994, step time: 1.0233
    Batch 24/248, train_loss: 0.4946, step time: 1.0308
    Batch 25/248, train_loss: 0.2258, step time: 1.0310
    Batch 26/248, train_loss: 0.9934, step time: 1.0269
    Batch 27/248, train_loss: 0.2744, step time: 1.0304
    Batch 28/248, train_loss: 0.7310, step time: 1.0347
    Batch 29/248, train_loss: 0.9895, step time: 1.0295
    Batch 30/248, train_loss: 0.7516, step time: 1.0323
    Batch 31/248, train_loss: 0.8788, step time: 1.0304
    Batch 32/248, train_loss: 0.4657, step time: 1.0304
    Batch 33/248, train_loss: 0.2701, step time: 1.0279
    Batch 34/248, train_loss: 0.3069, step time: 1.0282
    Batch 35/248, train_loss: 0.4694, step time: 1.0304
    Batch 36/248, train_loss: 0.9992, step time: 1.0221
    Batch 37/248, train_loss: 0.5548, step time: 1.0298
    Batch 38/248, train_loss: 0.8593, step time: 1.0394
    Batch 39/248, train_loss: 0.6284, step time: 1.0295
    Batch 40/248, train_loss: 0.9998, step time: 1.0210
    Batch 41/248, train_loss: 0.4610, step time: 1.0284
    Batch 42/248, train_loss: 0.3866, step time: 1.0290
    Batch 43/248, train_loss: 0.2966, step time: 1.0320
    Batch 44/248, train_loss: 0.6702, step time: 1.0298
    Batch 45/248, train_loss: 0.9493, step time: 1.0341
    Batch 46/248, train_loss: 0.6275, step time: 1.0337
    Batch 47/248, train_loss: 0.6656, step time: 1.0348
    Batch 48/248, train_loss: 0.7020, step time: 1.0332
    Batch 49/248, train_loss: 0.9781, step time: 1.0300
    Batch 50/248, train_loss: 0.7148, step time: 1.0321
    Batch 51/248, train_loss: 0.7077, step time: 1.0311
```

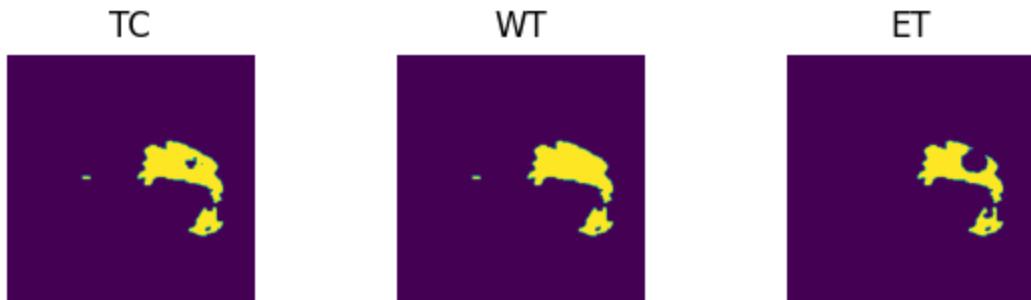
Batch 51/248, train_loss: 0.5555, step time: 1.0311
Batch 52/248, train_loss: 0.6056, step time: 1.0298
Batch 53/248, train_loss: 0.9080, step time: 1.0315
Batch 54/248, train_loss: 0.6731, step time: 1.0336
Batch 55/248, train_loss: 0.9100, step time: 1.0312
Batch 56/248, train_loss: 0.7595, step time: 1.0383
Batch 57/248, train_loss: 0.7223, step time: 1.0320
Batch 58/248, train_loss: 0.4250, step time: 1.0342
Batch 59/248, train_loss: 0.4884, step time: 1.0352
Batch 60/248, train_loss: 0.3897, step time: 1.0294
Batch 61/248, train_loss: 0.4830, step time: 1.0306
Batch 62/248, train_loss: 0.9282, step time: 1.0367
Batch 63/248, train_loss: 0.9931, step time: 1.0253
Batch 64/248, train_loss: 0.9749, step time: 1.0249
Batch 65/248, train_loss: 0.8985, step time: 1.0314
Batch 66/248, train_loss: 0.8001, step time: 1.0286
Batch 67/248, train_loss: 0.2673, step time: 1.0259
Batch 68/248, train_loss: 0.4806, step time: 1.0319
Batch 69/248, train_loss: 0.9954, step time: 1.0264
Batch 70/248, train_loss: 0.4506, step time: 1.0337
Batch 71/248, train_loss: 0.3685, step time: 1.0347
Batch 72/248, train_loss: 0.3347, step time: 1.0295
Batch 73/248, train_loss: 0.4649, step time: 1.0340
Batch 74/248, train_loss: 0.9996, step time: 1.0210
Batch 75/248, train_loss: 0.4300, step time: 1.0329
Batch 76/248, train_loss: 0.9863, step time: 1.0292
Batch 77/248, train_loss: 0.9991, step time: 1.0209
Batch 78/248, train_loss: 0.5758, step time: 1.0338
Batch 79/248, train_loss: 0.7651, step time: 1.0289
Batch 80/248, train_loss: 0.7869, step time: 1.0309
Batch 81/248, train_loss: 0.8837, step time: 1.0274
Batch 82/248, train_loss: 0.3913, step time: 1.0296
Batch 83/248, train_loss: 0.9910, step time: 1.0292
Batch 84/248, train_loss: 0.7178, step time: 1.0326
Batch 85/248, train_loss: 0.9927, step time: 1.0273
Batch 86/248, train_loss: 0.6676, step time: 1.0305
Batch 87/248, train_loss: 0.9435, step time: 1.0284
Batch 88/248, train_loss: 0.9563, step time: 1.0343
Batch 89/248, train_loss: 0.2710, step time: 1.0351
Batch 90/248, train_loss: 0.8563, step time: 1.0351
Batch 91/248, train_loss: 0.9850, step time: 1.0258
Batch 92/248, train_loss: 0.8251, step time: 1.0322
Batch 93/248, train_loss: 0.4335, step time: 1.0310
Batch 94/248, train_loss: 0.9828, step time: 1.0305
Batch 95/248, train_loss: 0.5857, step time: 1.0305
Batch 96/248, train_loss: 0.5830, step time: 1.0316
Batch 97/248, train_loss: 0.9999, step time: 1.0201
Batch 98/248, train_loss: 0.4051, step time: 1.0314
Batch 99/248, train_loss: 0.9801, step time: 1.0285
Batch 100/248, train_loss: 0.9955, step time: 1.0258
Batch 101/248, train_loss: 0.1990, step time: 1.0286
Batch 102/248, train_loss: 0.6909, step time: 1.0328
Batch 103/248, train_loss: 0.9845, step time: 1.0266
Batch 104/248, train_loss: 0.6599, step time: 1.0318
Batch 105/248, train_loss: 0.3175, step time: 1.0320
Batch 106/248, train_loss: 0.7769, step time: 1.0335
Batch 107/248, train_loss: 0.9718, step time: 1.0317

Batch 108/248, train_loss: 0.9741, step time: 1.0303
Batch 109/248, train_loss: 0.9965, step time: 1.0281
Batch 110/248, train_loss: 0.8920, step time: 1.0331
Batch 111/248, train_loss: 0.3682, step time: 1.0333
Batch 112/248, train_loss: 0.4337, step time: 1.0335
Batch 113/248, train_loss: 0.9995, step time: 1.0239
Batch 114/248, train_loss: 0.3496, step time: 1.0295
Batch 115/248, train_loss: 0.6455, step time: 1.0286
Batch 116/248, train_loss: 0.3354, step time: 1.0322
Batch 117/248, train_loss: 0.9845, step time: 1.0281
Batch 118/248, train_loss: 0.9918, step time: 1.0276
Batch 119/248, train_loss: 0.7337, step time: 1.0322
Batch 120/248, train_loss: 0.7089, step time: 1.0327
Batch 121/248, train_loss: 0.8923, step time: 1.0317
Batch 122/248, train_loss: 0.9407, step time: 1.0308
Batch 123/248, train_loss: 0.4240, step time: 1.0322
Batch 124/248, train_loss: 0.9312, step time: 1.0325
Batch 125/248, train_loss: 0.9976, step time: 1.0245
Batch 126/248, train_loss: 0.5227, step time: 1.0315
Batch 127/248, train_loss: 0.6297, step time: 1.0341
Batch 128/248, train_loss: 0.8166, step time: 1.0303
Batch 129/248, train_loss: 0.2729, step time: 1.0278
Batch 130/248, train_loss: 0.3190, step time: 1.0305
Batch 131/248, train_loss: 0.9456, step time: 1.0285
Batch 132/248, train_loss: 0.9673, step time: 1.0291
Batch 133/248, train_loss: 0.3014, step time: 1.0287
Batch 134/248, train_loss: 0.9998, step time: 1.0228
Batch 135/248, train_loss: 0.9933, step time: 1.0295
Batch 136/248, train_loss: 0.7407, step time: 1.0305
Batch 137/248, train_loss: 0.3122, step time: 1.0305
Batch 138/248, train_loss: 0.2967, step time: 1.0286
Batch 139/248, train_loss: 0.4209, step time: 1.0322
Batch 140/248, train_loss: 0.7249, step time: 1.0303
Batch 141/248, train_loss: 0.5348, step time: 1.0313
Batch 142/248, train_loss: 0.9931, step time: 1.0287
Batch 143/248, train_loss: 0.8062, step time: 1.0322
Batch 144/248, train_loss: 0.3223, step time: 1.0324
Batch 145/248, train_loss: 0.1491, step time: 1.0273
Batch 146/248, train_loss: 0.9975, step time: 1.0264
Batch 147/248, train_loss: 0.1419, step time: 1.0309
Batch 148/248, train_loss: 0.9805, step time: 1.0296
Batch 149/248, train_loss: 0.5821, step time: 1.0346
Batch 150/248, train_loss: 0.7822, step time: 1.0319
Batch 151/248, train_loss: 0.9753, step time: 1.0276
Batch 152/248, train_loss: 0.1513, step time: 1.0259
Batch 153/248, train_loss: 0.9137, step time: 1.0305
Batch 154/248, train_loss: 0.9786, step time: 1.0288
Batch 155/248, train_loss: 0.5983, step time: 1.0325
Batch 156/248, train_loss: 0.6717, step time: 1.0344
Batch 157/248, train_loss: 0.5183, step time: 1.0330
Batch 158/248, train_loss: 0.9987, step time: 1.0263
Batch 159/248, train_loss: 0.9972, step time: 1.0279
Batch 160/248, train_loss: 0.3601, step time: 1.0318
Batch 161/248, train_loss: 0.5591, step time: 1.0295
Batch 162/248, train_loss: 0.1750, step time: 1.0298
Batch 163/248, train_loss: 0.9240, step time: 1.0299
Batch 164/248, train_loss: 0.6246, step time: 1.0294

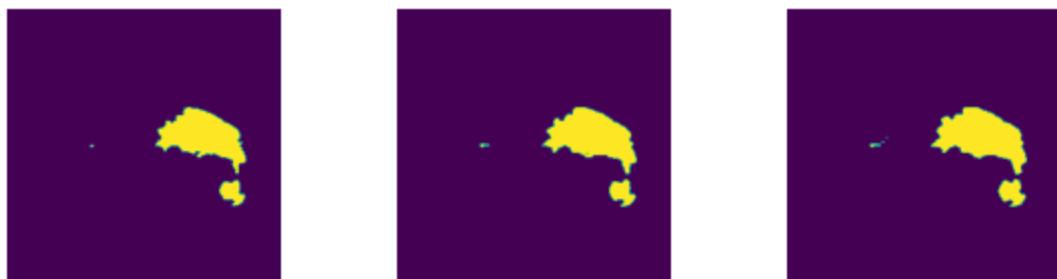
Batch 151/248, train_loss: 0.00210, step time: 1.0321
Batch 165/248, train_loss: 0.9980, step time: 1.0252
Batch 166/248, train_loss: 0.8428, step time: 1.0303
Batch 167/248, train_loss: 0.6550, step time: 1.0309
Batch 168/248, train_loss: 0.5888, step time: 1.0312
Batch 169/248, train_loss: 0.4653, step time: 1.0285
Batch 170/248, train_loss: 0.9846, step time: 1.0271
Batch 171/248, train_loss: 0.2114, step time: 1.0295
Batch 172/248, train_loss: 0.9989, step time: 1.0258
Batch 173/248, train_loss: 0.3474, step time: 1.0310
Batch 174/248, train_loss: 0.9995, step time: 1.0232
Batch 175/248, train_loss: 0.3347, step time: 1.0298
Batch 176/248, train_loss: 0.7434, step time: 1.0336
Batch 177/248, train_loss: 0.9879, step time: 1.0282
Batch 178/248, train_loss: 0.4480, step time: 1.0341
Batch 179/248, train_loss: 0.1759, step time: 1.0305
Batch 180/248, train_loss: 0.6563, step time: 1.0338
Batch 181/248, train_loss: 0.3132, step time: 1.0330
Batch 182/248, train_loss: 0.9582, step time: 1.0286
Batch 183/248, train_loss: 0.7082, step time: 1.0297
Batch 184/248, train_loss: 0.9143, step time: 1.0303
Batch 185/248, train_loss: 0.5812, step time: 1.0319
Batch 186/248, train_loss: 0.4257, step time: 1.0286
Batch 187/248, train_loss: 0.5248, step time: 1.0287
Batch 188/248, train_loss: 0.6235, step time: 1.0318
Batch 189/248, train_loss: 0.9987, step time: 1.0260
Batch 190/248, train_loss: 0.4558, step time: 1.0280
Batch 191/248, train_loss: 0.9958, step time: 1.0267
Batch 192/248, train_loss: 0.5448, step time: 1.0328
Batch 193/248, train_loss: 0.8136, step time: 1.0305
Batch 194/248, train_loss: 0.6534, step time: 1.0302
Batch 195/248, train_loss: 0.9978, step time: 1.0260
Batch 196/248, train_loss: 0.9998, step time: 1.0213
Batch 197/248, train_loss: 0.8276, step time: 1.0320
Batch 198/248, train_loss: 0.9998, step time: 1.0196
Batch 199/248, train_loss: 0.6599, step time: 1.0387
Batch 200/248, train_loss: 0.5567, step time: 1.0293
Batch 201/248, train_loss: 0.4204, step time: 1.0318
Batch 202/248, train_loss: 0.7662, step time: 1.0317
Batch 203/248, train_loss: 0.9773, step time: 1.0276
Batch 204/248, train_loss: 0.2256, step time: 1.0306
Batch 205/248, train_loss: 0.8754, step time: 1.0313
Batch 206/248, train_loss: 0.9847, step time: 1.0291
Batch 207/248, train_loss: 0.3666, step time: 1.0325
Batch 208/248, train_loss: 0.5983, step time: 1.0323
Batch 209/248, train_loss: 0.4998, step time: 1.0299
Batch 210/248, train_loss: 0.3279, step time: 1.0314
Batch 211/248, train_loss: 0.3106, step time: 1.0311
Batch 212/248, train_loss: 0.8260, step time: 1.0290
Batch 213/248, train_loss: 0.7044, step time: 1.0305
Batch 214/248, train_loss: 0.4247, step time: 1.0336
Batch 215/248, train_loss: 0.7967, step time: 1.0312
Batch 216/248, train_loss: 0.4912, step time: 1.0324
Batch 217/248, train_loss: 0.9057, step time: 1.0327
Batch 218/248, train_loss: 0.9957, step time: 1.0299
Batch 219/248, train_loss: 0.4244, step time: 1.0352
Batch 220/248, train_loss: 0.7923, step time: 1.0307

```
Batch 221/248, train_loss: 0.7614, step time: 1.0300
Batch 222/248, train_loss: 0.4636, step time: 1.0316
Batch 223/248, train_loss: 0.2071, step time: 1.0330
Batch 224/248, train_loss: 0.3112, step time: 1.0307
Batch 225/248, train_loss: 0.9931, step time: 1.0285
Batch 226/248, train_loss: 0.9412, step time: 1.0308
Batch 227/248, train_loss: 0.4315, step time: 1.0312
Batch 228/248, train_loss: 0.7889, step time: 1.0293
Batch 229/248, train_loss: 0.3149, step time: 1.0275
Batch 230/248, train_loss: 0.4454, step time: 1.0328
Batch 231/248, train_loss: 0.9979, step time: 1.0270
Batch 232/248, train_loss: 0.3977, step time: 1.0326
Batch 233/248, train_loss: 0.9997, step time: 1.0196
Batch 234/248, train_loss: 0.9832, step time: 1.0267
Batch 235/248, train_loss: 0.9768, step time: 1.0318
Batch 236/248, train_loss: 0.9973, step time: 1.0253
Batch 237/248, train_loss: 0.3088, step time: 1.0291
Batch 238/248, train_loss: 0.3898, step time: 1.0316
Batch 239/248, train_loss: 0.1545, step time: 1.0306
Batch 240/248, train_loss: 0.7736, step time: 1.0306
Batch 241/248, train_loss: 0.9990, step time: 1.0224
Batch 242/248, train_loss: 0.8458, step time: 1.0328
Batch 243/248, train_loss: 0.9960, step time: 1.0277
Batch 244/248, train_loss: 0.9632, step time: 1.0313
Batch 245/248, train_loss: 0.3201, step time: 1.0288
Batch 246/248, train_loss: 0.9723, step time: 1.0356
Batch 247/248, train_loss: 0.1706, step time: 1.0339
Batch 248/248, train_loss: 1.0000, step time: 1.0161
```

Labels



Predictions

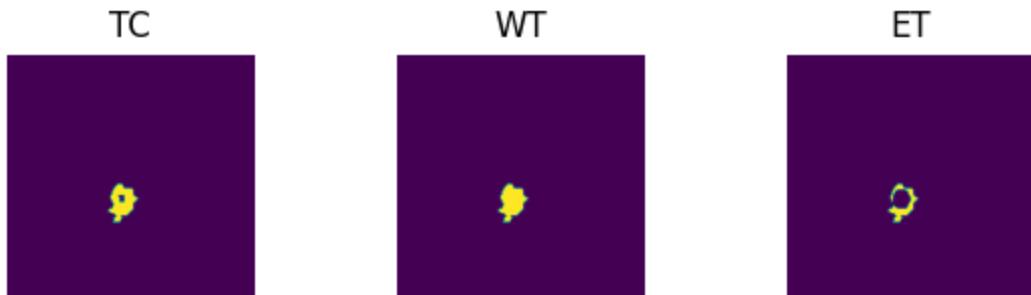


VAL

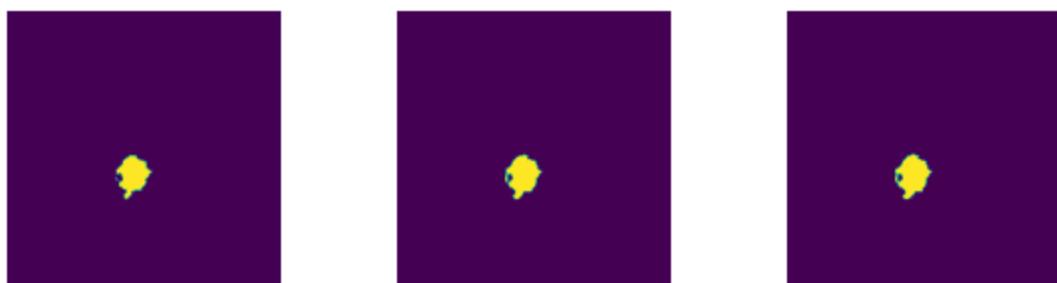
```
Batch 1/31, val_loss: 0.9264
Batch 2/31, val_loss: 0.9997
Batch 3/31, val_loss: 0.9975
Batch 4/31, val_loss: 0.9716
Batch 5/31, val_loss: 0.9999
```

```
Batch 1/31, val_loss: 0.7777  
Batch 6/31, val_loss: 0.7317  
Batch 7/31, val_loss: 0.8823  
Batch 8/31, val_loss: 0.9839  
Batch 9/31, val_loss: 0.7364  
Batch 10/31, val_loss: 0.9579  
Batch 11/31, val_loss: 0.8832  
Batch 12/31, val_loss: 0.9943  
Batch 13/31, val_loss: 0.9960  
Batch 14/31, val_loss: 0.9874  
Batch 15/31, val_loss: 0.9998  
Batch 16/31, val_loss: 0.9947  
Batch 17/31, val_loss: 0.9981  
Batch 18/31, val_loss: 0.9793  
Batch 19/31, val_loss: 0.8231  
Batch 20/31, val_loss: 0.9397  
Batch 21/31, val_loss: 0.9251  
Batch 22/31, val_loss: 0.9971  
Batch 23/31, val_loss: 0.9986  
Batch 24/31, val_loss: 0.7648  
Batch 25/31, val_loss: 0.8437  
Batch 26/31, val_loss: 0.9446  
Batch 27/31, val_loss: 0.9989  
Batch 28/31, val_loss: 0.8026  
Batch 29/31, val_loss: 0.9991  
Batch 30/31, val_loss: 0.9908  
Batch 31/31, val_loss: 0.9902
```

Labels



Predictions



epoch 11

```
average train loss: 0.6870  
average validation loss: 0.9367  
saved as best model: True  
current mean dice: 0.2948  
current TC dice: 0.3224  
current WT dice: 0.3123
```

current ET dice: 0.2761
Best Mean Metric: 0.2948
time consuming of epoch 11 is: 1549.8412

epoch 12/100
TRAIN

Batch 1/248, train_loss: 0.2038, step time: 1.0289
Batch 2/248, train_loss: 0.9962, step time: 1.0293
Batch 3/248, train_loss: 0.9582, step time: 1.0306
Batch 4/248, train_loss: 0.9992, step time: 1.0236
Batch 5/248, train_loss: 0.7382, step time: 1.0352
Batch 6/248, train_loss: 0.8810, step time: 1.0309
Batch 7/248, train_loss: 0.1709, step time: 1.0287
Batch 8/248, train_loss: 0.7857, step time: 1.0277
Batch 9/248, train_loss: 0.1978, step time: 1.0292
Batch 10/248, train_loss: 0.8560, step time: 1.0330
Batch 11/248, train_loss: 0.7447, step time: 1.0321
Batch 12/248, train_loss: 0.9900, step time: 1.0343
Batch 13/248, train_loss: 0.9507, step time: 1.0326
Batch 14/248, train_loss: 0.1337, step time: 1.0292
Batch 15/248, train_loss: 0.8093, step time: 1.0304
Batch 16/248, train_loss: 0.6560, step time: 1.0326
Batch 17/248, train_loss: 0.9910, step time: 1.0311
Batch 18/248, train_loss: 0.9816, step time: 1.0267
Batch 19/248, train_loss: 0.2421, step time: 1.0305
Batch 20/248, train_loss: 0.6854, step time: 1.0331
Batch 21/248, train_loss: 0.3663, step time: 1.0293
Batch 22/248, train_loss: 0.9994, step time: 1.0237
Batch 23/248, train_loss: 0.9992, step time: 1.0264
Batch 24/248, train_loss: 0.3787, step time: 1.0311
Batch 25/248, train_loss: 0.1735, step time: 1.0289
Batch 26/248, train_loss: 0.9907, step time: 1.0299
Batch 27/248, train_loss: 0.1924, step time: 1.0316
Batch 28/248, train_loss: 0.6348, step time: 1.0348
Batch 29/248, train_loss: 0.9826, step time: 1.0315
Batch 30/248, train_loss: 0.9364, step time: 1.0292
Batch 31/248, train_loss: 0.8239, step time: 1.0297
Batch 32/248, train_loss: 0.3727, step time: 1.0312
Batch 33/248, train_loss: 0.2107, step time: 1.0253
Batch 34/248, train_loss: 0.2210, step time: 1.0265
Batch 35/248, train_loss: 0.3565, step time: 1.0316
Batch 36/248, train_loss: 0.9989, step time: 1.0237
Batch 37/248, train_loss: 0.4631, step time: 1.0327
Batch 38/248, train_loss: 0.7820, step time: 1.0314
Batch 39/248, train_loss: 0.5023, step time: 1.0281
Batch 40/248, train_loss: 0.9997, step time: 1.0257
Batch 41/248, train_loss: 0.3781, step time: 1.0329
Batch 42/248, train_loss: 0.2863, step time: 1.0329
Batch 43/248, train_loss: 0.2331, step time: 1.0307
Batch 44/248, train_loss: 0.5882, step time: 1.0318
Batch 45/248, train_loss: 0.7999, step time: 1.0337
Batch 46/248, train_loss: 0.6029, step time: 1.0317
Batch 47/248, train_loss: 0.5689, step time: 1.0324
Batch 48/248, train_loss: 0.6359, step time: 1.0303
Batch 49/248, train_loss: 0.9657, step time: 1.0315
Batch 50/248, train_loss: 0.6348, step time: 1.0305

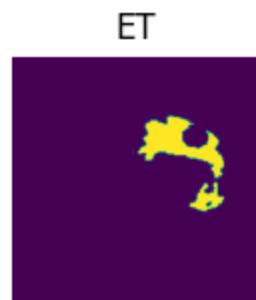
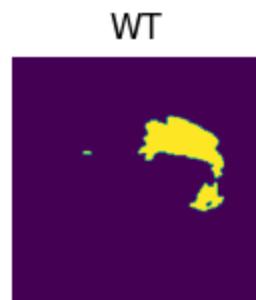
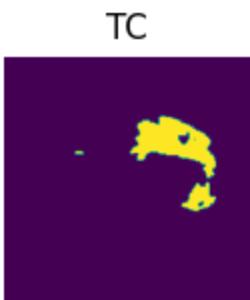
```
Batch 51/248, train_loss: 0.6111, step time: 1.0309
Batch 52/248, train_loss: 0.5361, step time: 1.0307
Batch 53/248, train_loss: 0.8744, step time: 1.0304
Batch 54/248, train_loss: 0.5998, step time: 1.0361
Batch 55/248, train_loss: 0.8895, step time: 1.0358
Batch 56/248, train_loss: 0.7121, step time: 1.0315
Batch 57/248, train_loss: 0.6432, step time: 1.0310
Batch 58/248, train_loss: 0.3259, step time: 1.0302
Batch 59/248, train_loss: 0.3903, step time: 1.0287
Batch 60/248, train_loss: 0.2964, step time: 1.0308
Batch 61/248, train_loss: 0.3836, step time: 1.0335
Batch 62/248, train_loss: 0.8328, step time: 1.0308
Batch 63/248, train_loss: 0.9929, step time: 1.0267
Batch 64/248, train_loss: 0.9651, step time: 1.0299
Batch 65/248, train_loss: 0.9272, step time: 1.0298
Batch 66/248, train_loss: 0.6915, step time: 1.0280
Batch 67/248, train_loss: 0.2124, step time: 1.0298
Batch 68/248, train_loss: 0.3387, step time: 1.0307
Batch 69/248, train_loss: 0.9961, step time: 1.0291
Batch 70/248, train_loss: 0.3748, step time: 1.0301
Batch 71/248, train_loss: 0.3085, step time: 1.0319
Batch 72/248, train_loss: 0.2667, step time: 1.0314
Batch 73/248, train_loss: 0.3905, step time: 1.0320
Batch 74/248, train_loss: 0.9997, step time: 1.0218
Batch 75/248, train_loss: 0.3542, step time: 1.0315
Batch 76/248, train_loss: 0.9831, step time: 1.0297
Batch 77/248, train_loss: 0.9987, step time: 1.0228
Batch 78/248, train_loss: 0.4792, step time: 1.0298
Batch 79/248, train_loss: 0.6350, step time: 1.0325
Batch 80/248, train_loss: 0.7243, step time: 1.0345
Batch 81/248, train_loss: 0.8703, step time: 1.0329
Batch 82/248, train_loss: 0.3093, step time: 1.0307
Batch 83/248, train_loss: 0.9866, step time: 1.0317
Batch 84/248, train_loss: 0.6909, step time: 1.0360
Batch 85/248, train_loss: 0.9903, step time: 1.0317
Batch 86/248, train_loss: 0.6320, step time: 1.0315
Batch 87/248, train_loss: 0.9603, step time: 1.0320
Batch 88/248, train_loss: 0.9605, step time: 1.0327
Batch 89/248, train_loss: 0.2189, step time: 1.0306
Batch 90/248, train_loss: 0.7737, step time: 1.0326
Batch 91/248, train_loss: 0.9773, step time: 1.0315
Batch 92/248, train_loss: 0.6691, step time: 1.0365
Batch 93/248, train_loss: 0.3346, step time: 1.0371
Batch 94/248, train_loss: 0.9743, step time: 1.0312
Batch 95/248, train_loss: 0.5046, step time: 1.0334
Batch 96/248, train_loss: 0.4744, step time: 1.0333
Batch 97/248, train_loss: 0.9997, step time: 1.0239
Batch 98/248, train_loss: 0.3076, step time: 1.0317
Batch 99/248, train_loss: 0.9668, step time: 1.0301
Batch 100/248, train_loss: 0.9900, step time: 1.0286
Batch 101/248, train_loss: 0.1319, step time: 1.0301
Batch 102/248, train_loss: 0.6117, step time: 1.0322
Batch 103/248, train_loss: 0.9772, step time: 1.0282
Batch 104/248, train_loss: 0.6161, step time: 1.0316
Batch 105/248, train_loss: 0.2284, step time: 1.0300
Batch 106/248, train_loss: 0.6898, step time: 1.0297
Batch 107/248, train_loss: 0.9603, step time: 1.0296
```

Batch 108/248, train_loss: 0.9545, step time: 1.0314
Batch 109/248, train_loss: 0.9948, step time: 1.0250
Batch 110/248, train_loss: 0.8804, step time: 1.0307
Batch 111/248, train_loss: 0.2682, step time: 1.0331
Batch 112/248, train_loss: 0.3385, step time: 1.0285
Batch 113/248, train_loss: 0.9991, step time: 1.0237
Batch 114/248, train_loss: 0.2844, step time: 1.0313
Batch 115/248, train_loss: 0.5560, step time: 1.0346
Batch 116/248, train_loss: 0.2334, step time: 1.0293
Batch 117/248, train_loss: 0.9858, step time: 1.0261
Batch 118/248, train_loss: 0.9860, step time: 1.0282
Batch 119/248, train_loss: 0.6314, step time: 1.0281
Batch 120/248, train_loss: 0.5764, step time: 1.0311
Batch 121/248, train_loss: 0.8362, step time: 1.0318
Batch 122/248, train_loss: 0.9309, step time: 1.0329
Batch 123/248, train_loss: 0.3116, step time: 1.0317
Batch 124/248, train_loss: 0.9318, step time: 1.0321
Batch 125/248, train_loss: 0.9955, step time: 1.0270
Batch 126/248, train_loss: 0.4614, step time: 1.0364
Batch 127/248, train_loss: 0.5054, step time: 1.0319
Batch 128/248, train_loss: 0.7876, step time: 1.0332
Batch 129/248, train_loss: 0.2164, step time: 1.0301
Batch 130/248, train_loss: 0.2640, step time: 1.0331
Batch 131/248, train_loss: 0.9342, step time: 1.0278
Batch 132/248, train_loss: 0.9602, step time: 1.0303
Batch 133/248, train_loss: 0.2689, step time: 1.0307
Batch 134/248, train_loss: 0.9998, step time: 1.0215
Batch 135/248, train_loss: 0.9919, step time: 1.0300
Batch 136/248, train_loss: 0.6336, step time: 1.0322
Batch 137/248, train_loss: 0.2370, step time: 1.0301
Batch 138/248, train_loss: 0.2143, step time: 1.0272
Batch 139/248, train_loss: 0.3277, step time: 1.0364
Batch 140/248, train_loss: 0.6326, step time: 1.0358
Batch 141/248, train_loss: 0.4370, step time: 1.0329
Batch 142/248, train_loss: 0.9856, step time: 1.0326
Batch 143/248, train_loss: 0.7162, step time: 1.0332
Batch 144/248, train_loss: 0.2587, step time: 1.0341
Batch 145/248, train_loss: 0.1195, step time: 1.0291
Batch 146/248, train_loss: 0.9961, step time: 1.0275
Batch 147/248, train_loss: 0.1179, step time: 1.0280
Batch 148/248, train_loss: 0.9783, step time: 1.0297
Batch 149/248, train_loss: 0.4695, step time: 1.0313
Batch 150/248, train_loss: 0.7514, step time: 1.0321
Batch 151/248, train_loss: 0.9674, step time: 1.0284
Batch 152/248, train_loss: 0.1078, step time: 1.0309
Batch 153/248, train_loss: 0.8405, step time: 1.0315
Batch 154/248, train_loss: 0.9721, step time: 1.0273
Batch 155/248, train_loss: 0.5102, step time: 1.0328
Batch 156/248, train_loss: 0.5854, step time: 1.0324
Batch 157/248, train_loss: 0.4734, step time: 1.0329
Batch 158/248, train_loss: 0.9991, step time: 1.0252
Batch 159/248, train_loss: 0.9961, step time: 1.0280
Batch 160/248, train_loss: 0.2705, step time: 1.0318
Batch 161/248, train_loss: 0.4607, step time: 1.0320
Batch 162/248, train_loss: 0.1543, step time: 1.0299
Batch 163/248, train_loss: 0.9269, step time: 1.0319
Batch 164/248, train_loss: 0.5260, step time: 1.0220

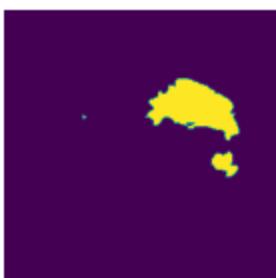
```
Batch 164/248, train_loss: 0.5568, step time: 1.0556
Batch 165/248, train_loss: 0.9982, step time: 1.0247
Batch 166/248, train_loss: 0.8026, step time: 1.0344
Batch 167/248, train_loss: 0.5575, step time: 1.0304
Batch 168/248, train_loss: 0.5019, step time: 1.0298
Batch 169/248, train_loss: 0.3622, step time: 1.0298
Batch 170/248, train_loss: 0.9820, step time: 1.0311
Batch 171/248, train_loss: 0.1711, step time: 1.0292
Batch 172/248, train_loss: 0.9986, step time: 1.0281
Batch 173/248, train_loss: 0.2879, step time: 1.0344
Batch 174/248, train_loss: 0.9995, step time: 1.0230
Batch 175/248, train_loss: 0.2853, step time: 1.0308
Batch 176/248, train_loss: 0.6915, step time: 1.0316
Batch 177/248, train_loss: 0.9777, step time: 1.0303
Batch 178/248, train_loss: 0.3936, step time: 1.0294
Batch 179/248, train_loss: 0.1374, step time: 1.0290
Batch 180/248, train_loss: 0.6086, step time: 1.0336
Batch 181/248, train_loss: 0.2534, step time: 1.0291
Batch 182/248, train_loss: 0.9563, step time: 1.0279
Batch 183/248, train_loss: 0.6511, step time: 1.0287
Batch 184/248, train_loss: 0.8966, step time: 1.0288
Batch 185/248, train_loss: 0.4979, step time: 1.0334
Batch 186/248, train_loss: 0.3386, step time: 1.0320
Batch 187/248, train_loss: 0.4536, step time: 1.0293
Batch 188/248, train_loss: 0.5468, step time: 1.0341
Batch 189/248, train_loss: 0.9984, step time: 1.0249
Batch 190/248, train_loss: 0.3789, step time: 1.0313
Batch 191/248, train_loss: 0.9944, step time: 1.0267
Batch 192/248, train_loss: 0.4880, step time: 1.0337
Batch 193/248, train_loss: 0.7381, step time: 1.0323
Batch 194/248, train_loss: 0.5494, step time: 1.0325
Batch 195/248, train_loss: 0.9969, step time: 1.0291
Batch 196/248, train_loss: 0.9998, step time: 1.0227
Batch 197/248, train_loss: 0.7278, step time: 1.0326
Batch 198/248, train_loss: 0.9998, step time: 1.0212
Batch 199/248, train_loss: 0.5751, step time: 1.0311
Batch 200/248, train_loss: 0.4669, step time: 1.0324
Batch 201/248, train_loss: 0.3417, step time: 1.0293
Batch 202/248, train_loss: 0.7303, step time: 1.0323
Batch 203/248, train_loss: 0.9712, step time: 1.0299
Batch 204/248, train_loss: 0.1843, step time: 1.0330
Batch 205/248, train_loss: 0.8682, step time: 1.0322
Batch 206/248, train_loss: 0.9803, step time: 1.0300
Batch 207/248, train_loss: 0.3071, step time: 1.0321
Batch 208/248, train_loss: 0.4979, step time: 1.0289
Batch 209/248, train_loss: 0.4169, step time: 1.0317
Batch 210/248, train_loss: 0.2470, step time: 1.0287
Batch 211/248, train_loss: 0.2392, step time: 1.0308
Batch 212/248, train_loss: 0.8020, step time: 1.0332
Batch 213/248, train_loss: 0.6348, step time: 1.0309
Batch 214/248, train_loss: 0.3567, step time: 1.0294
Batch 215/248, train_loss: 0.7397, step time: 1.0346
Batch 216/248, train_loss: 0.4032, step time: 1.0305
Batch 217/248, train_loss: 0.8326, step time: 1.0334
Batch 218/248, train_loss: 0.9944, step time: 1.0319
Batch 219/248, train_loss: 0.3342, step time: 1.0318
Batch 220/248, train_loss: 0.7287, step time: 1.0358
```

```
Batch 221/248, train_loss: 0.7282, step time: 1.0371
Batch 222/248, train_loss: 0.3550, step time: 1.0307
Batch 223/248, train_loss: 0.1546, step time: 1.0283
Batch 224/248, train_loss: 0.2434, step time: 1.0297
Batch 225/248, train_loss: 0.9932, step time: 1.0251
Batch 226/248, train_loss: 0.8935, step time: 1.0290
Batch 227/248, train_loss: 0.3484, step time: 1.0293
Batch 228/248, train_loss: 0.6949, step time: 1.0278
Batch 229/248, train_loss: 0.2804, step time: 1.0287
Batch 230/248, train_loss: 0.3387, step time: 1.0323
Batch 231/248, train_loss: 0.9987, step time: 1.0248
Batch 232/248, train_loss: 0.3066, step time: 1.0314
Batch 233/248, train_loss: 0.9996, step time: 1.0225
Batch 234/248, train_loss: 0.9783, step time: 1.0314
Batch 235/248, train_loss: 0.9779, step time: 1.0297
Batch 236/248, train_loss: 0.9964, step time: 1.0250
Batch 237/248, train_loss: 0.2619, step time: 1.0339
Batch 238/248, train_loss: 0.3080, step time: 1.0316
Batch 239/248, train_loss: 0.1249, step time: 1.0318
Batch 240/248, train_loss: 0.7791, step time: 1.0324
Batch 241/248, train_loss: 0.9988, step time: 1.0269
Batch 242/248, train_loss: 0.7425, step time: 1.0324
Batch 243/248, train_loss: 0.9951, step time: 1.0292
Batch 244/248, train_loss: 0.9491, step time: 1.0328
Batch 245/248, train_loss: 0.2475, step time: 1.0321
Batch 246/248, train_loss: 0.9636, step time: 1.0274
Batch 247/248, train_loss: 0.1394, step time: 1.0270
Batch 248/248, train_loss: 1.0000, step time: 1.0193
```

Labels



Predictions



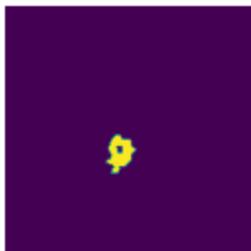
VAL

```
Batch 1/31, val_loss: 0.9110
Batch 2/31, val_loss: 0.9996
Batch 3/31, val_loss: 0.9976
Batch 4/31, val_loss: 0.9679
- - - - -
```

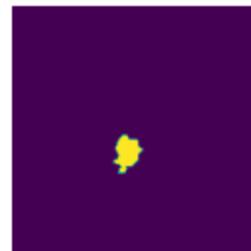
```
Batch 5/31, val_loss: 0.9999
Batch 6/31, val_loss: 0.7205
Batch 7/31, val_loss: 0.8832
Batch 8/31, val_loss: 0.9889
Batch 9/31, val_loss: 0.7248
Batch 10/31, val_loss: 0.9490
Batch 11/31, val_loss: 0.8786
Batch 12/31, val_loss: 0.9953
Batch 13/31, val_loss: 0.9938
Batch 14/31, val_loss: 0.9873
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9951
Batch 17/31, val_loss: 0.9986
Batch 18/31, val_loss: 0.9706
Batch 19/31, val_loss: 0.8106
Batch 20/31, val_loss: 0.9462
Batch 21/31, val_loss: 0.9244
Batch 22/31, val_loss: 0.9967
Batch 23/31, val_loss: 0.9985
Batch 24/31, val_loss: 0.7580
Batch 25/31, val_loss: 0.8355
Batch 26/31, val_loss: 0.9403
Batch 27/31, val_loss: 0.9988
Batch 28/31, val_loss: 0.7908
Batch 29/31, val_loss: 0.9993
Batch 30/31, val_loss: 0.9941
Batch 31/31, val_loss: 0.9868
```

Labels

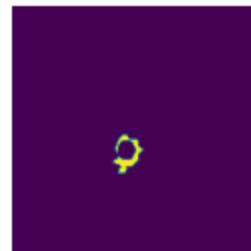
TC



WT



ET



Predictions



epoch 12

```
average train loss: 0.6372
average validation loss: 0.9336
saved as best model: False
current mean dice: 0.2803
current TC dice: 0.3030
current WT dice: 0.2976
```

current ET dice: 0.2659
Best Mean Metric: 0.2948
time consuming of epoch 12 is: 1556.9483

epoch 13/100
TRAIN
Batch 1/248, train_loss: 0.1612, step time: 1.0347
Batch 2/248, train_loss: 0.9983, step time: 1.0286
Batch 3/248, train_loss: 0.9649, step time: 1.0263
Batch 4/248, train_loss: 0.9991, step time: 1.0229
Batch 5/248, train_loss: 0.6825, step time: 1.0301
Batch 6/248, train_loss: 0.8633, step time: 1.0322
Batch 7/248, train_loss: 0.1469, step time: 1.0290
Batch 8/248, train_loss: 0.7882, step time: 1.0291
Batch 9/248, train_loss: 0.1420, step time: 1.0298
Batch 10/248, train_loss: 0.8065, step time: 1.0317
Batch 11/248, train_loss: 0.6830, step time: 1.0339
Batch 12/248, train_loss: 0.9850, step time: 1.0295
Batch 13/248, train_loss: 0.9343, step time: 1.0291
Batch 14/248, train_loss: 0.1044, step time: 1.0307
Batch 15/248, train_loss: 0.7562, step time: 1.0330
Batch 16/248, train_loss: 0.5722, step time: 1.0308
Batch 17/248, train_loss: 0.9891, step time: 1.0283
Batch 18/248, train_loss: 0.9797, step time: 1.0269
Batch 19/248, train_loss: 0.1893, step time: 1.0313
Batch 20/248, train_loss: 0.5932, step time: 1.0299
Batch 21/248, train_loss: 0.2663, step time: 1.0331
Batch 22/248, train_loss: 0.9991, step time: 1.0259
Batch 23/248, train_loss: 0.9991, step time: 1.0275
Batch 24/248, train_loss: 0.3188, step time: 1.0353
Batch 25/248, train_loss: 0.1757, step time: 1.0324
Batch 26/248, train_loss: 0.9847, step time: 1.0338
Batch 27/248, train_loss: 0.1544, step time: 1.0334
Batch 28/248, train_loss: 0.5540, step time: 1.0314
Batch 29/248, train_loss: 0.9724, step time: 1.0362
Batch 30/248, train_loss: 0.9792, step time: 1.0321
Batch 31/248, train_loss: 0.8012, step time: 1.0316
Batch 32/248, train_loss: 0.3098, step time: 1.0298
Batch 33/248, train_loss: 0.1626, step time: 1.0295
Batch 34/248, train_loss: 0.1678, step time: 1.0278
Batch 35/248, train_loss: 0.2743, step time: 1.0301
Batch 36/248, train_loss: 0.9989, step time: 1.0279
Batch 37/248, train_loss: 0.3831, step time: 1.0310
Batch 38/248, train_loss: 0.7287, step time: 1.0311
Batch 39/248, train_loss: 0.4894, step time: 1.0310
Batch 40/248, train_loss: 0.9994, step time: 1.0223
Batch 41/248, train_loss: 0.3206, step time: 1.0312
Batch 42/248, train_loss: 0.2153, step time: 1.0289
Batch 43/248, train_loss: 0.1765, step time: 1.0289
Batch 44/248, train_loss: 0.6713, step time: 1.0328
Batch 45/248, train_loss: 0.7898, step time: 1.0316
Batch 46/248, train_loss: 0.4828, step time: 1.0334
Batch 47/248, train_loss: 0.4764, step time: 1.0357
Batch 48/248, train_loss: 0.5729, step time: 1.0324
Batch 49/248, train_loss: 0.9226, step time: 1.0319
Batch 50/248, train_loss: 0.5447, step time: 1.0308

Batch 51/248, train_loss: 0.5448, step time: 1.0295
Batch 52/248, train_loss: 0.4495, step time: 1.0349
Batch 53/248, train_loss: 0.8785, step time: 1.0357
Batch 54/248, train_loss: 0.5325, step time: 1.0314
Batch 55/248, train_loss: 0.8474, step time: 1.0303
Batch 56/248, train_loss: 0.6312, step time: 1.0285
Batch 57/248, train_loss: 0.5609, step time: 1.0292
Batch 58/248, train_loss: 0.2486, step time: 1.0317
Batch 59/248, train_loss: 0.3087, step time: 1.0292
Batch 60/248, train_loss: 0.2307, step time: 1.0322
Batch 61/248, train_loss: 0.3067, step time: 1.0337
Batch 62/248, train_loss: 0.7808, step time: 1.0330
Batch 63/248, train_loss: 0.9883, step time: 1.0275
Batch 64/248, train_loss: 0.9626, step time: 1.0281
Batch 65/248, train_loss: 0.8981, step time: 1.0337
Batch 66/248, train_loss: 0.6118, step time: 1.0350
Batch 67/248, train_loss: 0.1770, step time: 1.0303
Batch 68/248, train_loss: 0.3040, step time: 1.0321
Batch 69/248, train_loss: 0.9957, step time: 1.0272
Batch 70/248, train_loss: 0.3087, step time: 1.0329
Batch 71/248, train_loss: 0.2551, step time: 1.0354
Batch 72/248, train_loss: 0.1833, step time: 1.0318
Batch 73/248, train_loss: 0.3361, step time: 1.0298
Batch 74/248, train_loss: 0.9994, step time: 1.0216
Batch 75/248, train_loss: 0.3243, step time: 1.0385
Batch 76/248, train_loss: 0.9673, step time: 1.0290
Batch 77/248, train_loss: 0.9979, step time: 1.0242
Batch 78/248, train_loss: 0.3805, step time: 1.0286
Batch 79/248, train_loss: 0.5574, step time: 1.0301
Batch 80/248, train_loss: 0.6094, step time: 1.0314
Batch 81/248, train_loss: 0.7258, step time: 1.0338
Batch 82/248, train_loss: 0.2535, step time: 1.0334
Batch 83/248, train_loss: 0.9882, step time: 1.0302
Batch 84/248, train_loss: 0.6469, step time: 1.0357
Batch 85/248, train_loss: 0.9870, step time: 1.0287
Batch 86/248, train_loss: 0.5648, step time: 1.0295
Batch 87/248, train_loss: 0.9149, step time: 1.0336
Batch 88/248, train_loss: 0.9446, step time: 1.0341
Batch 89/248, train_loss: 0.1790, step time: 1.0333
Batch 90/248, train_loss: 0.6457, step time: 1.0323
Batch 91/248, train_loss: 0.9758, step time: 1.0294
Batch 92/248, train_loss: 0.7238, step time: 1.0310
Batch 93/248, train_loss: 0.2742, step time: 1.0308
Batch 94/248, train_loss: 0.9674, step time: 1.0318
Batch 95/248, train_loss: 0.4218, step time: 1.0316
Batch 96/248, train_loss: 0.3937, step time: 1.0305
Batch 97/248, train_loss: 0.9998, step time: 1.0233
Batch 98/248, train_loss: 0.2387, step time: 1.0338
Batch 99/248, train_loss: 0.9770, step time: 1.0333
Batch 100/248, train_loss: 0.9944, step time: 1.0254
Batch 101/248, train_loss: 0.1013, step time: 1.0314
Batch 102/248, train_loss: 0.5086, step time: 1.0305
Batch 103/248, train_loss: 0.9746, step time: 1.0264
Batch 104/248, train_loss: 0.5123, step time: 1.0302
Batch 105/248, train_loss: 0.1666, step time: 1.0297
Batch 106/248, train_loss: 0.6234, step time: 1.0348
Batch 107/248, train_loss: 0.9751, step time: 1.0320

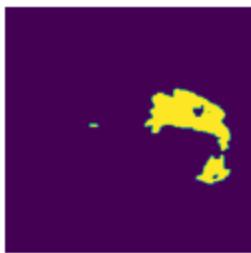
```
Batch 107/248, train_loss: 0.9944, step time: 1.0320
Batch 108/248, train_loss: 0.9522, step time: 1.0318
Batch 109/248, train_loss: 0.9947, step time: 1.0314
Batch 110/248, train_loss: 0.7891, step time: 0.9938
Batch 111/248, train_loss: 0.2363, step time: 1.0335
Batch 112/248, train_loss: 0.3071, step time: 1.0322
Batch 113/248, train_loss: 0.9989, step time: 1.0284
Batch 114/248, train_loss: 0.2532, step time: 1.0326
Batch 115/248, train_loss: 0.5060, step time: 1.0347
Batch 116/248, train_loss: 0.1926, step time: 1.0319
Batch 117/248, train_loss: 0.9876, step time: 1.0297
Batch 118/248, train_loss: 0.9840, step time: 1.0257
Batch 119/248, train_loss: 0.5988, step time: 1.0330
Batch 120/248, train_loss: 0.5450, step time: 1.0296
Batch 121/248, train_loss: 0.8078, step time: 1.0334
Batch 122/248, train_loss: 0.9228, step time: 1.0305
Batch 123/248, train_loss: 0.2665, step time: 1.0296
Batch 124/248, train_loss: 0.8729, step time: 1.0351
Batch 125/248, train_loss: 0.9961, step time: 1.0259
Batch 126/248, train_loss: 0.4157, step time: 1.0301
Batch 127/248, train_loss: 0.4253, step time: 1.0332
Batch 128/248, train_loss: 0.7017, step time: 1.0308
Batch 129/248, train_loss: 0.2082, step time: 1.0295
Batch 130/248, train_loss: 0.2451, step time: 1.0332
Batch 131/248, train_loss: 0.9307, step time: 1.0297
Batch 132/248, train_loss: 0.9532, step time: 1.0315
Batch 133/248, train_loss: 0.2807, step time: 1.0278
Batch 134/248, train_loss: 0.9997, step time: 1.0215
Batch 135/248, train_loss: 0.9905, step time: 1.0246
Batch 136/248, train_loss: 0.5593, step time: 1.0306
Batch 137/248, train_loss: 0.2144, step time: 1.0293
Batch 138/248, train_loss: 0.1798, step time: 1.0298
Batch 139/248, train_loss: 0.3021, step time: 1.0289
Batch 140/248, train_loss: 0.5772, step time: 1.0318
Batch 141/248, train_loss: 0.3587, step time: 1.0338
Batch 142/248, train_loss: 0.9891, step time: 1.0275
Batch 143/248, train_loss: 0.6884, step time: 1.0273
Batch 144/248, train_loss: 0.2157, step time: 1.0311
Batch 145/248, train_loss: 0.0906, step time: 1.0291
Batch 146/248, train_loss: 0.9949, step time: 1.0269
Batch 147/248, train_loss: 0.0855, step time: 1.0304
Batch 148/248, train_loss: 0.9713, step time: 1.0258
Batch 149/248, train_loss: 0.3959, step time: 1.0327
Batch 150/248, train_loss: 0.7613, step time: 1.0288
Batch 151/248, train_loss: 0.9710, step time: 1.0257
Batch 152/248, train_loss: 0.0885, step time: 1.0298
Batch 153/248, train_loss: 0.9389, step time: 1.0310
Batch 154/248, train_loss: 0.9696, step time: 1.0297
Batch 155/248, train_loss: 0.4703, step time: 1.0328
Batch 156/248, train_loss: 0.5117, step time: 1.0289
Batch 157/248, train_loss: 0.4502, step time: 1.0328
Batch 158/248, train_loss: 0.9989, step time: 1.0244
Batch 159/248, train_loss: 0.9959, step time: 1.0266
Batch 160/248, train_loss: 0.2139, step time: 1.0322
Batch 161/248, train_loss: 0.3832, step time: 1.0332
Batch 162/248, train_loss: 0.1424, step time: 1.0288
Batch 163/248, train_loss: 0.8665, step time: 1.0288
```

Batch 164/248, train_loss: 0.4481, step time: 1.0326
Batch 165/248, train_loss: 0.9969, step time: 1.0241
Batch 166/248, train_loss: 0.7059, step time: 1.0323
Batch 167/248, train_loss: 0.5313, step time: 1.0292
Batch 168/248, train_loss: 0.4310, step time: 1.0292
Batch 169/248, train_loss: 0.3109, step time: 1.0327
Batch 170/248, train_loss: 0.9751, step time: 1.0278
Batch 171/248, train_loss: 0.1447, step time: 1.0275
Batch 172/248, train_loss: 0.9974, step time: 1.0278
Batch 173/248, train_loss: 0.2233, step time: 1.0313
Batch 174/248, train_loss: 0.9990, step time: 1.0265
Batch 175/248, train_loss: 0.2677, step time: 1.0303
Batch 176/248, train_loss: 0.6301, step time: 1.0331
Batch 177/248, train_loss: 0.9646, step time: 1.0324
Batch 178/248, train_loss: 0.3366, step time: 1.0326
Batch 179/248, train_loss: 0.1308, step time: 1.0295
Batch 180/248, train_loss: 0.5633, step time: 1.0310
Batch 181/248, train_loss: 0.2105, step time: 1.0297
Batch 182/248, train_loss: 0.9505, step time: 1.0264
Batch 183/248, train_loss: 0.6090, step time: 1.0326
Batch 184/248, train_loss: 0.8942, step time: 1.0302
Batch 185/248, train_loss: 0.4173, step time: 1.0363
Batch 186/248, train_loss: 0.2866, step time: 1.0320
Batch 187/248, train_loss: 0.4283, step time: 1.0326
Batch 188/248, train_loss: 0.4674, step time: 1.0313
Batch 189/248, train_loss: 0.9975, step time: 1.0260
Batch 190/248, train_loss: 0.3273, step time: 1.0279
Batch 191/248, train_loss: 0.9962, step time: 1.0278
Batch 192/248, train_loss: 0.4175, step time: 1.0303
Batch 193/248, train_loss: 0.7156, step time: 1.0302
Batch 194/248, train_loss: 0.4601, step time: 1.0314
Batch 195/248, train_loss: 0.9966, step time: 1.0280
Batch 196/248, train_loss: 0.9998, step time: 1.0207
Batch 197/248, train_loss: 0.6679, step time: 1.0302
Batch 198/248, train_loss: 0.9998, step time: 1.0216
Batch 199/248, train_loss: 0.5027, step time: 1.0326
Batch 200/248, train_loss: 0.4135, step time: 1.0278
Batch 201/248, train_loss: 0.2747, step time: 1.0325
Batch 202/248, train_loss: 0.6895, step time: 1.0328
Batch 203/248, train_loss: 0.9617, step time: 1.0283
Batch 204/248, train_loss: 0.1438, step time: 1.0292
Batch 205/248, train_loss: 0.8085, step time: 1.0301
Batch 206/248, train_loss: 0.9707, step time: 1.0260
Batch 207/248, train_loss: 0.2615, step time: 1.0327
Batch 208/248, train_loss: 0.4531, step time: 1.0310
Batch 209/248, train_loss: 0.3333, step time: 1.0318
Batch 210/248, train_loss: 0.1951, step time: 1.0273
Batch 211/248, train_loss: 0.1853, step time: 1.0281
Batch 212/248, train_loss: 0.6451, step time: 1.0308
Batch 213/248, train_loss: 0.5601, step time: 1.0338
Batch 214/248, train_loss: 0.2749, step time: 1.0320
Batch 215/248, train_loss: 0.6161, step time: 1.0345
Batch 216/248, train_loss: 0.3300, step time: 1.0311
Batch 217/248, train_loss: 0.8607, step time: 1.0322
Batch 218/248, train_loss: 0.9938, step time: 1.0330
Batch 219/248, train_loss: 0.2508, step time: 1.0300
Batch 220/248, train_loss: 0.6634, step time: 1.0336

```
-----  
Batch 221/248, train_loss: 0.6782, step time: 1.0322  
Batch 222/248, train_loss: 0.3022, step time: 1.0323  
Batch 223/248, train_loss: 0.1243, step time: 1.0290  
Batch 224/248, train_loss: 0.2030, step time: 1.0310  
Batch 225/248, train_loss: 0.9876, step time: 1.0272  
Batch 226/248, train_loss: 0.8880, step time: 1.0297  
Batch 227/248, train_loss: 0.3117, step time: 1.0300  
Batch 228/248, train_loss: 0.6618, step time: 1.0303  
Batch 229/248, train_loss: 0.2458, step time: 1.0280  
Batch 230/248, train_loss: 0.2705, step time: 1.0309  
Batch 231/248, train_loss: 0.9953, step time: 1.0237  
Batch 232/248, train_loss: 0.2496, step time: 1.0291  
Batch 233/248, train_loss: 0.9994, step time: 1.0236  
Batch 234/248, train_loss: 0.9670, step time: 1.0315  
Batch 235/248, train_loss: 0.9562, step time: 1.0339  
Batch 236/248, train_loss: 0.9959, step time: 1.0269  
Batch 237/248, train_loss: 0.2351, step time: 1.0274  
Batch 238/248, train_loss: 0.2476, step time: 1.0293  
Batch 239/248, train_loss: 0.1103, step time: 1.0308  
Batch 240/248, train_loss: 0.6251, step time: 1.0312  
Batch 241/248, train_loss: 0.9980, step time: 1.0271  
Batch 242/248, train_loss: 0.6882, step time: 1.0323  
Batch 243/248, train_loss: 0.9889, step time: 1.0282  
Batch 244/248, train_loss: 0.9552, step time: 1.0313  
Batch 245/248, train_loss: 0.1994, step time: 1.0368  
Batch 246/248, train_loss: 0.9342, step time: 1.0299  
Batch 247/248, train_loss: 0.1272, step time: 1.0258  
Batch 248/248, train_loss: 1.0000, step time: 1.0186
```

Labels

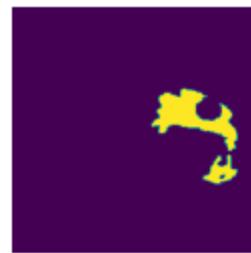
TC



WT



ET



Predictions

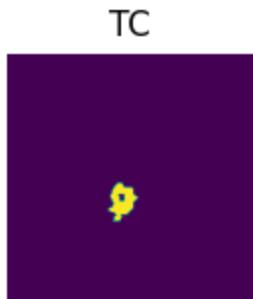


VAL

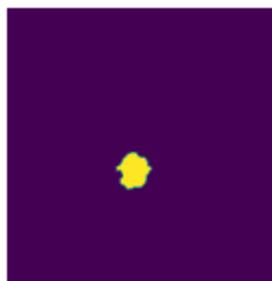
```
Batch 1/31, val_loss: 0.9096  
Batch 2/31, val_loss: 0.9996  
Batch 3/31, val_loss: 0.9948  
Batch 4/31, val_loss: 0.9698
```

```
Batch 5/31, val_loss: 0.9996
Batch 6/31, val_loss: 0.7171
Batch 7/31, val_loss: 0.8693
Batch 8/31, val_loss: 0.9790
Batch 9/31, val_loss: 0.7125
Batch 10/31, val_loss: 0.9401
Batch 11/31, val_loss: 0.8647
Batch 12/31, val_loss: 0.9930
Batch 13/31, val_loss: 0.9951
Batch 14/31, val_loss: 0.9850
Batch 15/31, val_loss: 0.9977
Batch 16/31, val_loss: 0.9931
Batch 17/31, val_loss: 0.9973
Batch 18/31, val_loss: 0.9703
Batch 19/31, val_loss: 0.8022
Batch 20/31, val_loss: 0.9373
Batch 21/31, val_loss: 0.9083
Batch 22/31, val_loss: 0.9973
Batch 23/31, val_loss: 0.9978
Batch 24/31, val_loss: 0.7563
Batch 25/31, val_loss: 0.8268
Batch 26/31, val_loss: 0.9359
Batch 27/31, val_loss: 0.9982
Batch 28/31, val_loss: 0.7798
Batch 29/31, val_loss: 0.9981
Batch 30/31, val_loss: 0.9898
Batch 31/31, val_loss: 0.9838
```

Labels



Predictions



epoch 13

```
average train loss: 0.5995
average validation loss: 0.9290
saved as best model: True
current mean dice: 0.3304
current TC dice: 0.3553
-----
```

```
current WI dice: 0.5500
current ET dice: 0.3164
Best Mean Metric: 0.3304
time consuming of epoch 13 is: 1529.5459
-----
epoch 14/100
TRAIN
    Batch 1/248, train_loss: 0.1314, step time: 1.0310
    Batch 2/248, train_loss: 0.9911, step time: 1.0317
    Batch 3/248, train_loss: 0.8666, step time: 1.0304
    Batch 4/248, train_loss: 0.9982, step time: 1.0223
    Batch 5/248, train_loss: 0.5673, step time: 1.0329
    Batch 6/248, train_loss: 0.8213, step time: 1.0301
    Batch 7/248, train_loss: 0.1258, step time: 1.0285
    Batch 8/248, train_loss: 0.7634, step time: 1.0273
    Batch 9/248, train_loss: 0.1057, step time: 1.0287
    Batch 10/248, train_loss: 0.7409, step time: 1.0326
    Batch 11/248, train_loss: 0.6274, step time: 1.0350
    Batch 12/248, train_loss: 0.9746, step time: 1.0282
    Batch 13/248, train_loss: 0.9223, step time: 1.0328
    Batch 14/248, train_loss: 0.0824, step time: 1.0279
    Batch 15/248, train_loss: 0.6895, step time: 1.0324
    Batch 16/248, train_loss: 0.4836, step time: 1.0290
    Batch 17/248, train_loss: 0.9841, step time: 1.0285
    Batch 18/248, train_loss: 0.9620, step time: 1.0272
    Batch 19/248, train_loss: 0.1645, step time: 1.0271
    Batch 20/248, train_loss: 0.6011, step time: 1.0313
    Batch 21/248, train_loss: 0.2186, step time: 1.0308
    Batch 22/248, train_loss: 0.9991, step time: 1.0221
    Batch 23/248, train_loss: 0.9988, step time: 1.0195
    Batch 24/248, train_loss: 0.2285, step time: 1.0391
    Batch 25/248, train_loss: 0.1274, step time: 1.0276
    Batch 26/248, train_loss: 0.9790, step time: 1.0312
    Batch 27/248, train_loss: 0.1289, step time: 1.0298
    Batch 28/248, train_loss: 0.4783, step time: 1.0330
    Batch 29/248, train_loss: 0.9626, step time: 1.0312
    Batch 30/248, train_loss: 0.9711, step time: 1.0323
    Batch 31/248, train_loss: 0.7478, step time: 1.0330
    Batch 32/248, train_loss: 0.2512, step time: 1.0331
    Batch 33/248, train_loss: 0.1453, step time: 1.0274
    Batch 34/248, train_loss: 0.1275, step time: 1.0295
    Batch 35/248, train_loss: 0.2102, step time: 1.0306
    Batch 36/248, train_loss: 0.9982, step time: 1.0235
    Batch 37/248, train_loss: 0.3500, step time: 1.0273
    Batch 38/248, train_loss: 0.6723, step time: 1.0306
    Batch 39/248, train_loss: 0.4306, step time: 1.0309
    Batch 40/248, train_loss: 0.9992, step time: 1.0236
    Batch 41/248, train_loss: 0.2652, step time: 1.0314
    Batch 42/248, train_loss: 0.1757, step time: 1.0315
    Batch 43/248, train_loss: 0.1419, step time: 1.0275
    Batch 44/248, train_loss: 0.6563, step time: 1.0280
    Batch 45/248, train_loss: 0.6979, step time: 1.0306
    Batch 46/248, train_loss: 0.4024, step time: 1.0315
    Batch 47/248, train_loss: 0.4000, step time: 1.0320
    Batch 48/248, train_loss: 0.5229, step time: 1.0299
    Batch 49/248, train_loss: 0.9179, step time: 1.0301
    Batch 50/248, train loss: 0.4813, step time: 1.0286
```

Batch 51/248, train_loss: 0.4770, step time: 1.0341
Batch 52/248, train_loss: 0.3763, step time: 1.0322
Batch 53/248, train_loss: 0.8092, step time: 1.0324
Batch 54/248, train_loss: 0.4617, step time: 1.0318
Batch 55/248, train_loss: 0.8606, step time: 1.0325
Batch 56/248, train_loss: 0.5926, step time: 1.0292
Batch 57/248, train_loss: 0.5211, step time: 1.0285
Batch 58/248, train_loss: 0.2166, step time: 1.0279
Batch 59/248, train_loss: 0.2572, step time: 1.0332
Batch 60/248, train_loss: 0.1841, step time: 1.0256
Batch 61/248, train_loss: 0.2574, step time: 1.0315
Batch 62/248, train_loss: 0.7182, step time: 1.0296
Batch 63/248, train_loss: 0.9878, step time: 1.0254
Batch 64/248, train_loss: 0.9474, step time: 1.0284
Batch 65/248, train_loss: 0.8206, step time: 1.0296
Batch 66/248, train_loss: 0.5358, step time: 1.0311
Batch 67/248, train_loss: 0.1597, step time: 1.0281
Batch 68/248, train_loss: 0.2260, step time: 1.0308
Batch 69/248, train_loss: 0.9932, step time: 1.0295
Batch 70/248, train_loss: 0.2781, step time: 1.0313
Batch 71/248, train_loss: 0.2058, step time: 1.0293
Batch 72/248, train_loss: 0.1499, step time: 1.0298
Batch 73/248, train_loss: 0.3099, step time: 1.0278
Batch 74/248, train_loss: 0.9994, step time: 1.0194
Batch 75/248, train_loss: 0.2712, step time: 1.0294
Batch 76/248, train_loss: 0.9648, step time: 1.0285
Batch 77/248, train_loss: 0.9989, step time: 1.0229
Batch 78/248, train_loss: 0.3299, step time: 1.0290
Batch 79/248, train_loss: 0.4548, step time: 1.0346
Batch 80/248, train_loss: 0.5517, step time: 1.0304
Batch 81/248, train_loss: 0.6955, step time: 1.0331
Batch 82/248, train_loss: 0.2355, step time: 1.0321
Batch 83/248, train_loss: 0.9744, step time: 1.0299
Batch 84/248, train_loss: 0.5774, step time: 1.0313
Batch 85/248, train_loss: 0.9835, step time: 1.0300
Batch 86/248, train_loss: 0.4568, step time: 1.0282
Batch 87/248, train_loss: 0.8848, step time: 1.0289
Batch 88/248, train_loss: 0.9241, step time: 1.0320
Batch 89/248, train_loss: 0.1783, step time: 1.0302
Batch 90/248, train_loss: 0.6564, step time: 1.0301
Batch 91/248, train_loss: 0.9635, step time: 1.0282
Batch 92/248, train_loss: 0.5552, step time: 1.0331
Batch 93/248, train_loss: 0.2452, step time: 1.0268
Batch 94/248, train_loss: 0.9567, step time: 1.0297
Batch 95/248, train_loss: 0.3851, step time: 1.0297
Batch 96/248, train_loss: 0.3627, step time: 1.0326
Batch 97/248, train_loss: 0.9996, step time: 1.0222
Batch 98/248, train_loss: 0.2115, step time: 1.0325
Batch 99/248, train_loss: 0.9503, step time: 1.0309
Batch 100/248, train_loss: 0.9865, step time: 1.0265
Batch 101/248, train_loss: 0.0839, step time: 1.0259
Batch 102/248, train_loss: 0.4305, step time: 1.0284
Batch 103/248, train_loss: 0.9727, step time: 1.0241
Batch 104/248, train_loss: 0.4940, step time: 1.0296
Batch 105/248, train_loss: 0.1466, step time: 1.0300
Batch 106/248, train_loss: 0.5683, step time: 1.0328

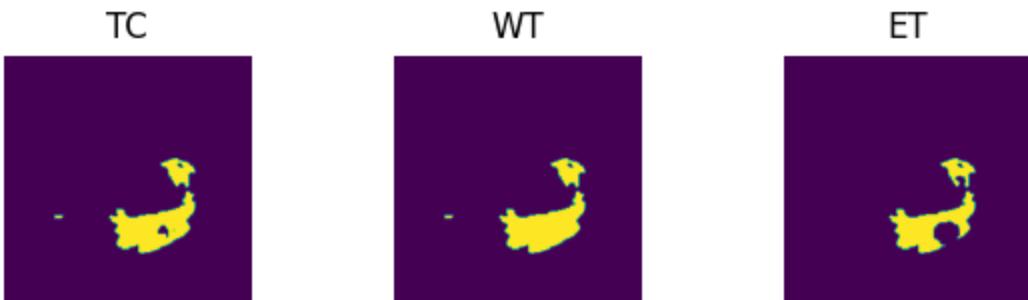
```
Batch 107/248, train_loss: 0.9293, step time: 1.0210
Batch 108/248, train_loss: 0.9330, step time: 1.0296
Batch 109/248, train_loss: 0.9940, step time: 1.0262
Batch 110/248, train_loss: 0.7507, step time: 1.0338
Batch 111/248, train_loss: 0.2110, step time: 1.0310
Batch 112/248, train_loss: 0.2482, step time: 1.0312
Batch 113/248, train_loss: 0.9984, step time: 1.0223
Batch 114/248, train_loss: 0.2432, step time: 1.0297
Batch 115/248, train_loss: 0.4295, step time: 1.0294
Batch 116/248, train_loss: 0.1530, step time: 1.0260
Batch 117/248, train_loss: 0.9663, step time: 1.0274
Batch 118/248, train_loss: 0.9737, step time: 1.0269
Batch 119/248, train_loss: 0.5716, step time: 1.0319
Batch 120/248, train_loss: 0.4983, step time: 1.0310
Batch 121/248, train_loss: 0.7357, step time: 1.0278
Batch 122/248, train_loss: 0.8826, step time: 1.0291
Batch 123/248, train_loss: 0.2181, step time: 1.0291
Batch 124/248, train_loss: 0.8482, step time: 1.0305
Batch 125/248, train_loss: 0.9948, step time: 1.0272
Batch 126/248, train_loss: 0.3750, step time: 1.0327
Batch 127/248, train_loss: 0.3539, step time: 1.0312
Batch 128/248, train_loss: 0.6814, step time: 1.0310
Batch 129/248, train_loss: 0.1697, step time: 1.0310
Batch 130/248, train_loss: 0.2049, step time: 1.0303
Batch 131/248, train_loss: 0.9047, step time: 1.0288
Batch 132/248, train_loss: 0.9241, step time: 1.0285
Batch 133/248, train_loss: 0.2224, step time: 1.0258
Batch 134/248, train_loss: 0.9995, step time: 1.0222
Batch 135/248, train_loss: 0.9877, step time: 1.0296
Batch 136/248, train_loss: 0.4979, step time: 1.0330
Batch 137/248, train_loss: 0.2277, step time: 1.0276
Batch 138/248, train_loss: 0.1542, step time: 1.0298
Batch 139/248, train_loss: 0.3130, step time: 1.0318
Batch 140/248, train_loss: 0.5057, step time: 1.0334
Batch 141/248, train_loss: 0.3425, step time: 1.0281
Batch 142/248, train_loss: 0.9751, step time: 1.0309
Batch 143/248, train_loss: 0.6654, step time: 1.0304
Batch 144/248, train_loss: 0.1947, step time: 1.0308
Batch 145/248, train_loss: 0.0808, step time: 1.0238
Batch 146/248, train_loss: 0.9965, step time: 1.0246
Batch 147/248, train_loss: 0.0738, step time: 1.0278
Batch 148/248, train_loss: 0.9713, step time: 1.0256
Batch 149/248, train_loss: 0.3490, step time: 1.0320
Batch 150/248, train_loss: 0.7398, step time: 1.0302
Batch 151/248, train_loss: 0.9751, step time: 1.0289
Batch 152/248, train_loss: 0.0806, step time: 1.0302
Batch 153/248, train_loss: 0.8309, step time: 1.0332
Batch 154/248, train_loss: 0.9698, step time: 1.0298
Batch 155/248, train_loss: 0.4113, step time: 1.0354
Batch 156/248, train_loss: 0.4312, step time: 1.0286
Batch 157/248, train_loss: 0.4383, step time: 1.0274
Batch 158/248, train_loss: 0.9988, step time: 1.0228
Batch 159/248, train_loss: 0.9934, step time: 1.0238
Batch 160/248, train_loss: 0.1681, step time: 1.0295
Batch 161/248, train_loss: 0.3024, step time: 1.0309
Batch 162/248, train_loss: 0.1396, step time: 1.0377
Batch 163/248, train_loss: 0.7751, step time: 1.0323
```

Batch 164/248, train_loss: 0.3975, step time: 1.0314
Batch 165/248, train_loss: 0.9979, step time: 1.0268
Batch 166/248, train_loss: 0.6127, step time: 1.0318
Batch 167/248, train_loss: 0.4986, step time: 1.0321
Batch 168/248, train_loss: 0.3808, step time: 1.0278
Batch 169/248, train_loss: 0.2535, step time: 1.0287
Batch 170/248, train_loss: 0.9720, step time: 1.0323
Batch 171/248, train_loss: 0.1238, step time: 1.0247
Batch 172/248, train_loss: 0.9958, step time: 1.0316
Batch 173/248, train_loss: 0.1909, step time: 1.0296
Batch 174/248, train_loss: 0.9377, step time: 1.0280
Batch 175/248, train_loss: 0.2264, step time: 1.0281
Batch 176/248, train_loss: 0.5745, step time: 1.0278
Batch 177/248, train_loss: 0.9481, step time: 1.0313
Batch 178/248, train_loss: 0.2919, step time: 1.0310
Batch 179/248, train_loss: 0.1208, step time: 1.0277
Batch 180/248, train_loss: 0.4839, step time: 1.0305
Batch 181/248, train_loss: 0.1914, step time: 1.0266
Batch 182/248, train_loss: 0.9483, step time: 1.0275
Batch 183/248, train_loss: 0.5666, step time: 1.0302
Batch 184/248, train_loss: 0.8445, step time: 1.0320
Batch 185/248, train_loss: 0.3352, step time: 1.0275
Batch 186/248, train_loss: 0.2307, step time: 1.0294
Batch 187/248, train_loss: 0.3680, step time: 1.0303
Batch 188/248, train_loss: 0.4757, step time: 1.0307
Batch 189/248, train_loss: 0.9977, step time: 1.0246
Batch 190/248, train_loss: 0.2790, step time: 1.0299
Batch 191/248, train_loss: 0.9893, step time: 1.0281
Batch 192/248, train_loss: 0.4553, step time: 1.0276
Batch 193/248, train_loss: 0.6648, step time: 1.0297
Batch 194/248, train_loss: 0.3811, step time: 1.0297
Batch 195/248, train_loss: 0.9860, step time: 1.0312
Batch 196/248, train_loss: 0.9998, step time: 1.0200
Batch 197/248, train_loss: 0.6119, step time: 1.0312
Batch 198/248, train_loss: 0.9996, step time: 1.0213
Batch 199/248, train_loss: 0.4362, step time: 1.0303
Batch 200/248, train_loss: 0.3476, step time: 1.0297
Batch 201/248, train_loss: 0.2368, step time: 1.0335
Batch 202/248, train_loss: 0.6164, step time: 1.0299
Batch 203/248, train_loss: 0.9527, step time: 1.0296
Batch 204/248, train_loss: 0.1283, step time: 1.0294
Batch 205/248, train_loss: 0.8029, step time: 1.0320
Batch 206/248, train_loss: 0.9617, step time: 1.0287
Batch 207/248, train_loss: 0.2247, step time: 1.0305
Batch 208/248, train_loss: 0.3708, step time: 1.0327
Batch 209/248, train_loss: 0.2694, step time: 1.0309
Batch 210/248, train_loss: 0.1642, step time: 1.0275
Batch 211/248, train_loss: 0.1575, step time: 1.0273
Batch 212/248, train_loss: 0.5968, step time: 1.0341
Batch 213/248, train_loss: 0.4890, step time: 1.0281
Batch 214/248, train_loss: 0.2324, step time: 1.0354
Batch 215/248, train_loss: 0.5757, step time: 1.0321
Batch 216/248, train_loss: 0.3215, step time: 1.0311
Batch 217/248, train_loss: 0.8842, step time: 1.0311
Batch 218/248, train_loss: 0.9925, step time: 1.0283
Batch 219/248, train_loss: 0.2088, step time: 1.0338

Batch 220/248, train_loss: 0.5056, step time: 1.0207

```
Batch 220/248, train_loss: 0.5859, step time: 1.030/
Batch 221/248, train_loss: 0.6137, step time: 1.0316
Batch 222/248, train_loss: 0.2998, step time: 1.0332
Batch 223/248, train_loss: 0.1010, step time: 1.0269
Batch 224/248, train_loss: 0.1705, step time: 1.0296
Batch 225/248, train_loss: 0.9783, step time: 1.0279
Batch 226/248, train_loss: 0.8695, step time: 1.0274
Batch 227/248, train_loss: 0.2481, step time: 1.0301
Batch 228/248, train_loss: 0.6208, step time: 1.0289
Batch 229/248, train_loss: 0.2417, step time: 1.0277
Batch 230/248, train_loss: 0.2267, step time: 1.0322
Batch 231/248, train_loss: 0.9982, step time: 1.0240
Batch 232/248, train_loss: 0.2068, step time: 1.0326
Batch 233/248, train_loss: 0.9995, step time: 1.0224
Batch 234/248, train_loss: 0.9658, step time: 1.0305
Batch 235/248, train_loss: 0.9630, step time: 1.0328
Batch 236/248, train_loss: 0.9960, step time: 1.0265
Batch 237/248, train_loss: 0.2212, step time: 1.0317
Batch 238/248, train_loss: 0.2063, step time: 1.0306
Batch 239/248, train_loss: 0.1150, step time: 1.0308
Batch 240/248, train_loss: 0.5931, step time: 1.0324
Batch 241/248, train_loss: 0.9972, step time: 1.0271
Batch 242/248, train_loss: 0.6244, step time: 1.0323
Batch 243/248, train_loss: 0.9927, step time: 1.0276
Batch 244/248, train_loss: 0.9081, step time: 1.0279
Batch 245/248, train_loss: 0.1708, step time: 1.0269
Batch 246/248, train_loss: 0.9373, step time: 1.0280
Batch 247/248, train_loss: 0.1186, step time: 1.0254
Batch 248/248, train_loss: 1.0000, step time: 1.0149
```

Labels



Predictions



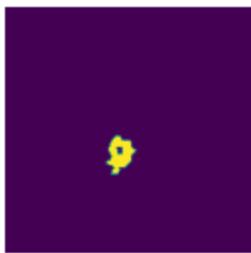
VAL

```
Batch 1/31, val_loss: 0.8992
Batch 2/31, val_loss: 0.9995
Batch 3/31, val_loss: 0.9948
Batch 4/31, val loss: 0.9623
```

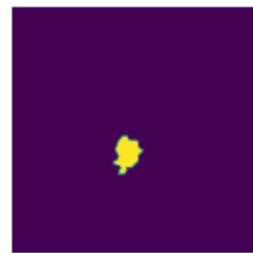
```
Batch 5/31, val_loss: 0.9996
Batch 6/31, val_loss: 0.7106
Batch 7/31, val_loss: 0.8626
Batch 8/31, val_loss: 0.9776
Batch 9/31, val_loss: 0.7083
Batch 10/31, val_loss: 0.9454
Batch 11/31, val_loss: 0.8649
Batch 12/31, val_loss: 0.9935
Batch 13/31, val_loss: 0.9950
Batch 14/31, val_loss: 0.9886
Batch 15/31, val_loss: 0.9996
Batch 16/31, val_loss: 0.9926
Batch 17/31, val_loss: 0.9967
Batch 18/31, val_loss: 0.9643
Batch 19/31, val_loss: 0.7998
Batch 20/31, val_loss: 0.9303
Batch 21/31, val_loss: 0.9044
Batch 22/31, val_loss: 0.9947
Batch 23/31, val_loss: 0.9983
Batch 24/31, val_loss: 0.7499
Batch 25/31, val_loss: 0.8255
Batch 26/31, val_loss: 0.9343
Batch 27/31, val_loss: 0.9977
Batch 28/31, val_loss: 0.7794
Batch 29/31, val_loss: 0.9980
Batch 30/31, val_loss: 0.9894
Batch 31/31, val_loss: 0.9829
```

Labels

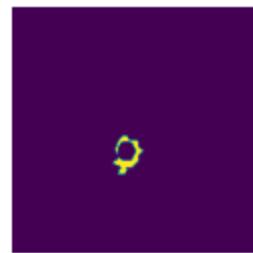
TC



WT



ET



Predictions



epoch 14

```
average train loss: 0.5660
average validation loss: 0.9271
saved as best model: False
current mean dice: 0.3247
current TC dice: 0.3507
```

```
current WT dice: 0.3439
current ET dice: 0.3091
Best Mean Metric: 0.3304
time consuming of epoch 14 is: 1545.3458
-----
epoch 15/100
TRAIN
Batch 1/248, train_loss: 0.1254, step time: 1.0314
Batch 2/248, train_loss: 0.9875, step time: 1.0336
Batch 3/248, train_loss: 0.8983, step time: 1.0288
Batch 4/248, train_loss: 0.9987, step time: 1.0256
Batch 5/248, train_loss: 0.5786, step time: 1.0315
Batch 6/248, train_loss: 0.8280, step time: 1.0267
Batch 7/248, train_loss: 0.0998, step time: 1.0276
Batch 8/248, train_loss: 0.7501, step time: 1.0314
Batch 9/248, train_loss: 0.0869, step time: 1.0268
Batch 10/248, train_loss: 0.6488, step time: 1.0350
Batch 11/248, train_loss: 0.5927, step time: 1.0342
Batch 12/248, train_loss: 0.9720, step time: 1.0271
Batch 13/248, train_loss: 0.8926, step time: 1.0286
Batch 14/248, train_loss: 0.0867, step time: 1.0259
Batch 15/248, train_loss: 0.6320, step time: 1.0281
Batch 16/248, train_loss: 0.4120, step time: 1.0283
Batch 17/248, train_loss: 0.9780, step time: 1.0286
Batch 18/248, train_loss: 0.9436, step time: 1.0291
Batch 19/248, train_loss: 0.1501, step time: 1.0277
Batch 20/248, train_loss: 0.5013, step time: 1.0294
Batch 21/248, train_loss: 0.1660, step time: 1.0284
Batch 22/248, train_loss: 0.9989, step time: 1.0242
Batch 23/248, train_loss: 0.9985, step time: 1.0254
Batch 24/248, train_loss: 0.1982, step time: 1.0345
Batch 25/248, train_loss: 0.1238, step time: 1.0311
Batch 26/248, train_loss: 0.9704, step time: 1.0333
Batch 27/248, train_loss: 0.1092, step time: 1.0330
Batch 28/248, train_loss: 0.3927, step time: 1.0345
Batch 29/248, train_loss: 0.9450, step time: 1.0326
Batch 30/248, train_loss: 0.4762, step time: 1.0330
Batch 31/248, train_loss: 0.6540, step time: 1.0307
Batch 32/248, train_loss: 0.2111, step time: 1.0312
Batch 33/248, train_loss: 0.1364, step time: 1.0299
Batch 34/248, train_loss: 0.1011, step time: 1.0265
Batch 35/248, train_loss: 0.1638, step time: 1.0282
Batch 36/248, train_loss: 0.9970, step time: 1.0237
Batch 37/248, train_loss: 0.3104, step time: 1.0296
Batch 38/248, train_loss: 0.6135, step time: 1.0290
Batch 39/248, train_loss: 0.3571, step time: 1.0279
Batch 40/248, train_loss: 0.9992, step time: 1.0232
Batch 41/248, train_loss: 0.2628, step time: 1.0274
Batch 42/248, train_loss: 0.1514, step time: 1.0268
Batch 43/248, train_loss: 0.1281, step time: 1.0275
Batch 44/248, train_loss: 0.5621, step time: 1.0302
Batch 45/248, train_loss: 0.6183, step time: 1.0321
Batch 46/248, train_loss: 0.3432, step time: 1.0281
Batch 47/248, train_loss: 0.3186, step time: 1.0309
Batch 48/248, train_loss: 0.4547, step time: 1.0303
Batch 49/248, train_loss: 0.8947, step time: 1.0330
Batch 50/248, train_loss: 0.4163, step time: 1.0322
```

```
Batch 50/248, train_loss: 0.1105, step time: 1.0322
Batch 51/248, train_loss: 0.4222, step time: 1.0322
Batch 52/248, train_loss: 0.3112, step time: 1.0325
Batch 53/248, train_loss: 0.7669, step time: 1.0324
Batch 54/248, train_loss: 0.3973, step time: 1.0338
Batch 55/248, train_loss: 0.8116, step time: 1.0318
Batch 56/248, train_loss: 0.5324, step time: 1.0315
Batch 57/248, train_loss: 0.4628, step time: 1.0284
Batch 58/248, train_loss: 0.1733, step time: 1.0301
Batch 59/248, train_loss: 0.2394, step time: 1.0290
Batch 60/248, train_loss: 0.1585, step time: 1.0282
Batch 61/248, train_loss: 0.2204, step time: 1.0306
Batch 62/248, train_loss: 0.6630, step time: 1.0338
Batch 63/248, train_loss: 0.9859, step time: 1.0271
Batch 64/248, train_loss: 0.9207, step time: 1.0298
Batch 65/248, train_loss: 0.6902, step time: 1.0294
Batch 66/248, train_loss: 0.4907, step time: 1.0302
Batch 67/248, train_loss: 0.1436, step time: 1.0263
Batch 68/248, train_loss: 0.2876, step time: 1.0325
Batch 69/248, train_loss: 0.9950, step time: 1.0291
Batch 70/248, train_loss: 0.2547, step time: 1.0315
Batch 71/248, train_loss: 0.2066, step time: 1.0333
Batch 72/248, train_loss: 0.1251, step time: 1.0307
Batch 73/248, train_loss: 0.2825, step time: 1.0295
Batch 74/248, train_loss: 0.9995, step time: 1.0245
Batch 75/248, train_loss: 0.2443, step time: 1.0280
Batch 76/248, train_loss: 0.9628, step time: 1.0289
Batch 77/248, train_loss: 0.9978, step time: 1.0233
Batch 78/248, train_loss: 0.2867, step time: 1.0329
Batch 79/248, train_loss: 0.3720, step time: 1.0297
Batch 80/248, train_loss: 0.5282, step time: 1.0302
Batch 81/248, train_loss: 0.5483, step time: 1.0304
Batch 82/248, train_loss: 0.1925, step time: 1.0293
Batch 83/248, train_loss: 0.9832, step time: 1.0284
Batch 84/248, train_loss: 0.4889, step time: 1.0381
Batch 85/248, train_loss: 0.9877, step time: 1.0273
Batch 86/248, train_loss: 0.5234, step time: 1.0311
Batch 87/248, train_loss: 0.8854, step time: 1.0322
Batch 88/248, train_loss: 0.8950, step time: 1.0321
Batch 89/248, train_loss: 0.1798, step time: 1.0279
Batch 90/248, train_loss: 0.5958, step time: 1.0295
Batch 91/248, train_loss: 0.9598, step time: 1.0294
Batch 92/248, train_loss: 0.5297, step time: 1.0333
Batch 93/248, train_loss: 0.2261, step time: 1.0291
Batch 94/248, train_loss: 0.9379, step time: 1.0292
Batch 95/248, train_loss: 0.3283, step time: 1.0276
Batch 96/248, train_loss: 0.3665, step time: 1.0294
Batch 97/248, train_loss: 0.9995, step time: 1.0228
Batch 98/248, train_loss: 0.1877, step time: 1.0285
Batch 99/248, train_loss: 0.9316, step time: 1.0324
Batch 100/248, train_loss: 0.9801, step time: 1.0309
Batch 101/248, train_loss: 0.0786, step time: 1.0277
Batch 102/248, train_loss: 0.3563, step time: 1.0329
Batch 103/248, train_loss: 0.9649, step time: 1.0280
Batch 104/248, train_loss: 0.4462, step time: 1.0290
Batch 105/248, train_loss: 0.1253, step time: 1.0266
Batch 106/248, train_loss: 0.4522, step time: 1.0306
```

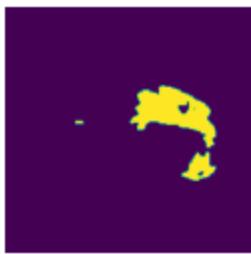
Batch 107/248, train_loss: 0.9519, step time: 1.0283
Batch 108/248, train_loss: 0.9543, step time: 1.0259
Batch 109/248, train_loss: 0.9927, step time: 1.0272
Batch 110/248, train_loss: 0.8504, step time: 1.0313
Batch 111/248, train_loss: 0.1769, step time: 1.0307
Batch 112/248, train_loss: 0.2194, step time: 1.0297
Batch 113/248, train_loss: 0.9978, step time: 1.0239
Batch 114/248, train_loss: 0.2153, step time: 1.0287
Batch 115/248, train_loss: 0.4081, step time: 1.0312
Batch 116/248, train_loss: 0.1472, step time: 1.0314
Batch 117/248, train_loss: 0.9704, step time: 1.0281
Batch 118/248, train_loss: 0.9871, step time: 1.0266
Batch 119/248, train_loss: 0.5746, step time: 1.0292
Batch 120/248, train_loss: 0.4454, step time: 1.0321
Batch 121/248, train_loss: 0.7261, step time: 1.0304
Batch 122/248, train_loss: 0.9155, step time: 1.0310
Batch 123/248, train_loss: 0.1596, step time: 1.0303
Batch 124/248, train_loss: 0.9278, step time: 1.0312
Batch 125/248, train_loss: 0.9940, step time: 1.0275
Batch 126/248, train_loss: 0.4278, step time: 1.0303
Batch 127/248, train_loss: 0.3420, step time: 1.0293
Batch 128/248, train_loss: 0.6856, step time: 1.0314
Batch 129/248, train_loss: 0.1580, step time: 1.0320
Batch 130/248, train_loss: 0.1878, step time: 1.0285
Batch 131/248, train_loss: 0.9138, step time: 1.0284
Batch 132/248, train_loss: 0.9193, step time: 1.0313
Batch 133/248, train_loss: 0.2407, step time: 1.0310
Batch 134/248, train_loss: 0.9997, step time: 1.0207
Batch 135/248, train_loss: 0.9859, step time: 1.0282
Batch 136/248, train_loss: 0.4425, step time: 1.0317
Batch 137/248, train_loss: 0.2173, step time: 1.0310
Batch 138/248, train_loss: 0.1351, step time: 1.0320
Batch 139/248, train_loss: 0.2243, step time: 1.0340
Batch 140/248, train_loss: 0.4365, step time: 1.0291
Batch 141/248, train_loss: 0.3437, step time: 1.0289
Batch 142/248, train_loss: 0.9342, step time: 1.0308
Batch 143/248, train_loss: 0.6274, step time: 1.0349
Batch 144/248, train_loss: 0.1773, step time: 1.0276
Batch 145/248, train_loss: 0.0889, step time: 1.0253
Batch 146/248, train_loss: 0.9952, step time: 1.0265
Batch 147/248, train_loss: 0.0835, step time: 1.0269
Batch 148/248, train_loss: 0.9591, step time: 1.0258
Batch 149/248, train_loss: 0.3012, step time: 1.0304
Batch 150/248, train_loss: 0.7511, step time: 1.0294
Batch 151/248, train_loss: 0.9493, step time: 1.0269
Batch 152/248, train_loss: 0.0775, step time: 1.0281
Batch 153/248, train_loss: 0.7281, step time: 1.0318
Batch 154/248, train_loss: 0.9543, step time: 1.0307
Batch 155/248, train_loss: 0.3585, step time: 1.0345
Batch 156/248, train_loss: 0.4064, step time: 1.0308
Batch 157/248, train_loss: 0.4228, step time: 1.0296
Batch 158/248, train_loss: 0.9983, step time: 1.0241
Batch 159/248, train_loss: 0.9845, step time: 1.0275
Batch 160/248, train_loss: 0.1419, step time: 1.0280
Batch 161/248, train_loss: 0.2462, step time: 1.0289
Batch 162/248, train_loss: 0.1464, step time: 1.0308
Batch 163/248, train_loss: 0.7776, step time: 1.0327

```
----, ----, ----, ----, ----, ----  
Batch 164/248, train_loss: 0.3601, step time: 1.0331  
Batch 165/248, train_loss: 0.9980, step time: 1.0222  
Batch 166/248, train_loss: 0.5849, step time: 1.0329  
Batch 167/248, train_loss: 0.4113, step time: 1.0284  
Batch 168/248, train_loss: 0.3492, step time: 1.0285  
Batch 169/248, train_loss: 0.2320, step time: 1.0326  
Batch 170/248, train_loss: 0.9760, step time: 1.0272  
Batch 171/248, train_loss: 0.1165, step time: 1.0263  
Batch 172/248, train_loss: 0.9934, step time: 1.0269  
Batch 173/248, train_loss: 0.1897, step time: 1.0278  
Batch 174/248, train_loss: 0.9643, step time: 1.0257  
Batch 175/248, train_loss: 0.2117, step time: 1.0256  
Batch 176/248, train_loss: 0.5577, step time: 1.0284  
Batch 177/248, train_loss: 0.9746, step time: 1.0310  
Batch 178/248, train_loss: 0.2662, step time: 1.0280  
Batch 179/248, train_loss: 0.1155, step time: 1.0296  
Batch 180/248, train_loss: 0.4734, step time: 1.0281  
Batch 181/248, train_loss: 0.1794, step time: 1.0320  
Batch 182/248, train_loss: 0.9577, step time: 1.0268  
Batch 183/248, train_loss: 0.5420, step time: 1.0326  
Batch 184/248, train_loss: 0.7976, step time: 1.0279  
Batch 185/248, train_loss: 0.2643, step time: 1.0285  
Batch 186/248, train_loss: 0.2051, step time: 1.0293  
Batch 187/248, train_loss: 0.3442, step time: 1.0281  
Batch 188/248, train_loss: 0.4298, step time: 1.0341  
Batch 189/248, train_loss: 0.9979, step time: 1.0257  
Batch 190/248, train_loss: 0.2449, step time: 1.0287  
Batch 191/248, train_loss: 0.9878, step time: 1.0282  
Batch 192/248, train_loss: 0.4125, step time: 1.0315  
Batch 193/248, train_loss: 0.6247, step time: 1.0316  
Batch 194/248, train_loss: 0.3238, step time: 1.0400  
Batch 195/248, train_loss: 0.9961, step time: 1.0240  
Batch 196/248, train_loss: 0.9997, step time: 1.0201  
Batch 197/248, train_loss: 0.5261, step time: 1.0311  
Batch 198/248, train_loss: 0.9995, step time: 1.0198  
Batch 199/248, train_loss: 0.3933, step time: 1.0317  
Batch 200/248, train_loss: 0.2929, step time: 1.0305  
Batch 201/248, train_loss: 0.2370, step time: 1.0272  
Batch 202/248, train_loss: 0.5861, step time: 1.0302  
Batch 203/248, train_loss: 0.9371, step time: 1.0312  
Batch 204/248, train_loss: 0.1156, step time: 1.0284  
Batch 205/248, train_loss: 0.6775, step time: 1.0294  
Batch 206/248, train_loss: 0.9528, step time: 1.0300  
Batch 207/248, train_loss: 0.1776, step time: 1.0295  
Batch 208/248, train_loss: 0.3381, step time: 1.0304  
Batch 209/248, train_loss: 0.2485, step time: 1.0337  
Batch 210/248, train_loss: 0.1317, step time: 1.0277  
Batch 211/248, train_loss: 0.1349, step time: 1.0261  
Batch 212/248, train_loss: 0.8398, step time: 1.0308  
Batch 213/248, train_loss: 0.4469, step time: 1.0289  
Batch 214/248, train_loss: 0.1904, step time: 1.0319  
Batch 215/248, train_loss: 0.5549, step time: 1.0319  
Batch 216/248, train_loss: 0.2887, step time: 1.0306  
Batch 217/248, train_loss: 0.6748, step time: 1.0337  
Batch 218/248, train_loss: 0.9882, step time: 1.0325  
Batch 219/248, train_loss: 0.1696, step time: 1.0335
```

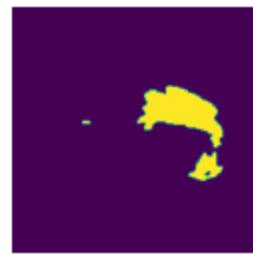
```
Batch 220/248, train_loss: 0.5379, step time: 1.0313
Batch 221/248, train_loss: 0.5566, step time: 1.0383
Batch 222/248, train_loss: 0.2667, step time: 1.0319
Batch 223/248, train_loss: 0.0862, step time: 1.0265
Batch 224/248, train_loss: 0.1627, step time: 1.0283
Batch 225/248, train_loss: 0.9848, step time: 1.0262
Batch 226/248, train_loss: 0.8179, step time: 1.0327
Batch 227/248, train_loss: 0.2320, step time: 1.0269
Batch 228/248, train_loss: 0.5053, step time: 1.0293
Batch 229/248, train_loss: 0.2085, step time: 1.0313
Batch 230/248, train_loss: 0.1800, step time: 1.0279
Batch 231/248, train_loss: 0.9924, step time: 1.0267
Batch 232/248, train_loss: 0.1697, step time: 1.0299
Batch 233/248, train_loss: 0.9992, step time: 1.0239
Batch 234/248, train_loss: 0.9467, step time: 1.0314
Batch 235/248, train_loss: 0.9238, step time: 1.0336
Batch 236/248, train_loss: 0.9940, step time: 1.0273
Batch 237/248, train_loss: 0.1996, step time: 1.0309
Batch 238/248, train_loss: 0.1952, step time: 1.0302
Batch 239/248, train_loss: 0.0994, step time: 1.0272
Batch 240/248, train_loss: 0.5195, step time: 1.0337
Batch 241/248, train_loss: 0.9970, step time: 1.0262
Batch 242/248, train_loss: 0.5849, step time: 1.0313
Batch 243/248, train_loss: 0.9773, step time: 1.0322
Batch 244/248, train_loss: 0.9187, step time: 1.0285
Batch 245/248, train_loss: 0.1590, step time: 1.0298
Batch 246/248, train_loss: 0.9070, step time: 1.0310
Batch 247/248, train_loss: 0.1132, step time: 1.0259
Batch 248/248, train_loss: 1.0000, step time: 1.0193
```

Labels

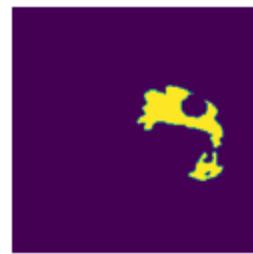
TC



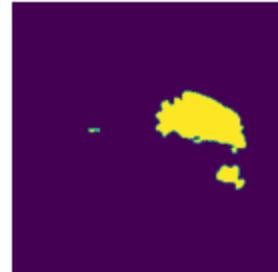
WT



ET



Predictions

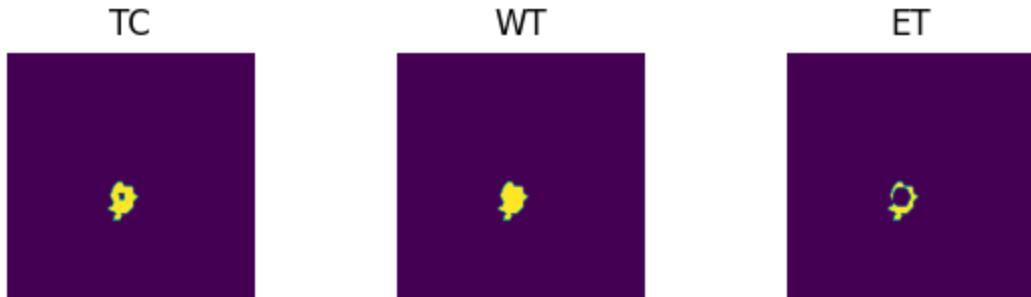


VAL

```
Batch 1/31, val_loss: 0.8993
Batch 2/31, val_loss: 0.9995
Batch 3/31, val_loss: 0.9933
Batch 4/31, val_loss: 0.9615
```

```
Batch 4/31, val_loss: 0.9015
Batch 5/31, val_loss: 0.9995
Batch 6/31, val_loss: 0.7086
Batch 7/31, val_loss: 0.8607
Batch 8/31, val_loss: 0.9761
Batch 9/31, val_loss: 0.7031
Batch 10/31, val_loss: 0.9376
Batch 11/31, val_loss: 0.8591
Batch 12/31, val_loss: 0.9923
Batch 13/31, val_loss: 0.9963
Batch 14/31, val_loss: 0.9800
Batch 15/31, val_loss: 0.9976
Batch 16/31, val_loss: 0.9927
Batch 17/31, val_loss: 0.9969
Batch 18/31, val_loss: 0.9600
Batch 19/31, val_loss: 0.7968
Batch 20/31, val_loss: 0.9333
Batch 21/31, val_loss: 0.9014
Batch 22/31, val_loss: 0.9969
Batch 23/31, val_loss: 0.9978
Batch 24/31, val_loss: 0.7460
Batch 25/31, val_loss: 0.8218
Batch 26/31, val_loss: 0.9330
Batch 27/31, val_loss: 0.9976
Batch 28/31, val_loss: 0.7715
Batch 29/31, val_loss: 0.9973
Batch 30/31, val_loss: 0.9825
Batch 31/31, val_loss: 0.9826
```

Labels



Predictions



epoch 15

```
average train loss: 0.5400
average validation loss: 0.9249
saved as best model: True
current mean dice: 0.3484
current TC dice: 0.3692
```

```
current WT dice: 0.3661
current ET dice: 0.3429
Best Mean Metric: 0.3484
time consuming of epoch 15 is: 1543.8516
-----
epoch 16/100
TRAIN
    Batch 1/248, train_loss: 0.1088, step time: 1.0321
    Batch 2/248, train_loss: 0.9827, step time: 1.0274
    Batch 3/248, train_loss: 0.8952, step time: 1.0326
    Batch 4/248, train_loss: 0.9985, step time: 1.0281
    Batch 5/248, train_loss: 0.4849, step time: 1.0340
    Batch 6/248, train_loss: 0.7774, step time: 1.0308
    Batch 7/248, train_loss: 0.0873, step time: 1.0307
    Batch 8/248, train_loss: 0.7493, step time: 1.0276
    Batch 9/248, train_loss: 0.0735, step time: 1.0319
    Batch 10/248, train_loss: 0.5911, step time: 1.0324
    Batch 11/248, train_loss: 0.5052, step time: 1.0388
    Batch 12/248, train_loss: 0.9558, step time: 1.0293
    Batch 13/248, train_loss: 0.8719, step time: 1.0324
    Batch 14/248, train_loss: 0.0709, step time: 1.0293
    Batch 15/248, train_loss: 0.5850, step time: 1.0312
    Batch 16/248, train_loss: 0.3561, step time: 1.0266
    Batch 17/248, train_loss: 0.9696, step time: 1.0333
    Batch 18/248, train_loss: 0.9438, step time: 1.0365
    Batch 19/248, train_loss: 0.1338, step time: 1.0266
    Batch 20/248, train_loss: 0.4649, step time: 1.0299
    Batch 21/248, train_loss: 0.1390, step time: 1.0324
    Batch 22/248, train_loss: 0.9986, step time: 1.0261
    Batch 23/248, train_loss: 0.9982, step time: 1.0251
    Batch 24/248, train_loss: 0.1834, step time: 1.0317
    Batch 25/248, train_loss: 0.1275, step time: 1.0278
    Batch 26/248, train_loss: 0.9645, step time: 1.0318
    Batch 27/248, train_loss: 0.0967, step time: 1.0331
    Batch 28/248, train_loss: 0.3544, step time: 1.0329
    Batch 29/248, train_loss: 0.9235, step time: 1.0308
    Batch 30/248, train_loss: 0.4375, step time: 1.0303
    Batch 31/248, train_loss: 0.6079, step time: 1.0327
    Batch 32/248, train_loss: 0.1864, step time: 1.0316
    Batch 33/248, train_loss: 0.1149, step time: 1.0297
    Batch 34/248, train_loss: 0.0875, step time: 1.0290
    Batch 35/248, train_loss: 0.1308, step time: 1.0298
    Batch 36/248, train_loss: 0.9957, step time: 1.0258
    Batch 37/248, train_loss: 0.2927, step time: 1.0271
    Batch 38/248, train_loss: 0.5751, step time: 1.0285
    Batch 39/248, train_loss: 0.3288, step time: 1.0333
    Batch 40/248, train_loss: 0.9980, step time: 1.0293
    Batch 41/248, train_loss: 0.2579, step time: 1.0292
    Batch 42/248, train_loss: 0.1261, step time: 1.0322
    Batch 43/248, train_loss: 0.1066, step time: 1.0281
    Batch 44/248, train_loss: 0.5075, step time: 1.0377
    Batch 45/248, train_loss: 0.6334, step time: 1.0342
    Batch 46/248, train_loss: 0.2900, step time: 1.0292
    Batch 47/248, train_loss: 0.2750, step time: 1.0329
    Batch 48/248, train_loss: 0.4172, step time: 1.0306
    Batch 49/248, train_loss: 0.8746, step time: 1.0300
    Batch 50/248, train_loss: 0.2728, step time: 1.0300
```

```
Batch 50/248, train_loss: 0.5138, step time: 1.0300
Batch 51/248, train_loss: 0.3456, step time: 1.0336
Batch 52/248, train_loss: 0.2722, step time: 1.0305
Batch 53/248, train_loss: 0.7240, step time: 1.0333
Batch 54/248, train_loss: 0.3824, step time: 1.0336
Batch 55/248, train_loss: 0.7756, step time: 1.0320
Batch 56/248, train_loss: 0.4366, step time: 1.0344
Batch 57/248, train_loss: 0.4382, step time: 1.0317
Batch 58/248, train_loss: 0.1529, step time: 1.0316
Batch 59/248, train_loss: 0.1988, step time: 1.0280
Batch 60/248, train_loss: 0.1447, step time: 1.0278
Batch 61/248, train_loss: 0.1973, step time: 1.0294
Batch 62/248, train_loss: 0.5943, step time: 1.0322
Batch 63/248, train_loss: 0.9785, step time: 1.0286
Batch 64/248, train_loss: 0.9046, step time: 1.0325
Batch 65/248, train_loss: 0.6335, step time: 1.0299
Batch 66/248, train_loss: 0.4197, step time: 1.0295
Batch 67/248, train_loss: 0.1209, step time: 1.0265
Batch 68/248, train_loss: 0.1917, step time: 1.0331
Batch 69/248, train_loss: 0.9919, step time: 1.0276
Batch 70/248, train_loss: 0.2339, step time: 1.0317
Batch 71/248, train_loss: 0.2205, step time: 1.0311
Batch 72/248, train_loss: 0.1098, step time: 1.0312
Batch 73/248, train_loss: 0.2701, step time: 1.0288
Batch 74/248, train_loss: 0.9994, step time: 1.0233
Batch 75/248, train_loss: 0.2164, step time: 1.0275
Batch 76/248, train_loss: 0.9355, step time: 1.0297
Batch 77/248, train_loss: 0.9977, step time: 1.0303
Batch 78/248, train_loss: 0.2675, step time: 1.0316
Batch 79/248, train_loss: 0.3096, step time: 1.0274
Batch 80/248, train_loss: 0.4384, step time: 1.0312
Batch 81/248, train_loss: 0.6403, step time: 1.0325
Batch 82/248, train_loss: 0.1598, step time: 1.0303
Batch 83/248, train_loss: 0.9643, step time: 1.0339
Batch 84/248, train_loss: 0.4390, step time: 1.0342
Batch 85/248, train_loss: 0.9669, step time: 1.0274
Batch 86/248, train_loss: 0.5037, step time: 1.0382
Batch 87/248, train_loss: 0.9018, step time: 1.0294
Batch 88/248, train_loss: 0.8205, step time: 1.0321
Batch 89/248, train_loss: 0.1853, step time: 1.0313
Batch 90/248, train_loss: 0.6971, step time: 1.0320
Batch 91/248, train_loss: 0.9414, step time: 1.0272
Batch 92/248, train_loss: 0.5605, step time: 1.0318
Batch 93/248, train_loss: 0.2164, step time: 1.0288
Batch 94/248, train_loss: 0.9286, step time: 1.0310
Batch 95/248, train_loss: 0.2843, step time: 1.0278
Batch 96/248, train_loss: 0.2992, step time: 1.0285
Batch 97/248, train_loss: 0.9994, step time: 1.0224
Batch 98/248, train_loss: 0.1658, step time: 1.0281
Batch 99/248, train_loss: 0.9488, step time: 1.0289
Batch 100/248, train_loss: 0.9862, step time: 1.0279
Batch 101/248, train_loss: 0.0704, step time: 1.0253
Batch 102/248, train_loss: 0.3503, step time: 1.0315
Batch 103/248, train_loss: 0.9717, step time: 1.0258
Batch 104/248, train_loss: 0.4232, step time: 1.0305
Batch 105/248, train_loss: 0.1226, step time: 1.0318
Batch 106/248, train_loss: 0.5159, step time: 1.0331
```

Batch 107/248, train_loss: 0.9354, step time: 1.0257
Batch 108/248, train_loss: 0.9300, step time: 1.0315
Batch 109/248, train_loss: 0.9941, step time: 1.0249
Batch 110/248, train_loss: 0.7264, step time: 1.0347
Batch 111/248, train_loss: 0.1606, step time: 1.0314
Batch 112/248, train_loss: 0.2408, step time: 1.0296
Batch 113/248, train_loss: 0.9980, step time: 1.0244
Batch 114/248, train_loss: 0.2259, step time: 1.0314
Batch 115/248, train_loss: 0.3565, step time: 1.0315
Batch 116/248, train_loss: 0.1443, step time: 1.0284
Batch 117/248, train_loss: 0.9729, step time: 1.0299
Batch 118/248, train_loss: 0.9874, step time: 1.0251
Batch 119/248, train_loss: 0.5154, step time: 1.0288
Batch 120/248, train_loss: 0.4213, step time: 1.0307
Batch 121/248, train_loss: 0.6546, step time: 1.0333
Batch 122/248, train_loss: 0.9499, step time: 1.0280
Batch 123/248, train_loss: 0.1509, step time: 1.0336
Batch 124/248, train_loss: 0.8457, step time: 1.0350
Batch 125/248, train_loss: 0.9961, step time: 1.0253
Batch 126/248, train_loss: 0.3295, step time: 1.0297
Batch 127/248, train_loss: 0.2756, step time: 1.0341
Batch 128/248, train_loss: 0.6457, step time: 1.0315
Batch 129/248, train_loss: 0.1328, step time: 1.0334
Batch 130/248, train_loss: 0.1703, step time: 1.0275
Batch 131/248, train_loss: 0.8896, step time: 1.0285
Batch 132/248, train_loss: 0.8814, step time: 1.0302
Batch 133/248, train_loss: 0.2424, step time: 1.0295
Batch 134/248, train_loss: 0.9991, step time: 1.0211
Batch 135/248, train_loss: 0.9847, step time: 1.0287
Batch 136/248, train_loss: 0.3528, step time: 1.0309
Batch 137/248, train_loss: 0.1993, step time: 1.0305
Batch 138/248, train_loss: 0.1165, step time: 1.0275
Batch 139/248, train_loss: 0.2881, step time: 1.0319
Batch 140/248, train_loss: 0.4021, step time: 1.0328
Batch 141/248, train_loss: 0.2832, step time: 1.0331
Batch 142/248, train_loss: 0.9859, step time: 1.0295
Batch 143/248, train_loss: 0.5577, step time: 1.0340
Batch 144/248, train_loss: 0.1587, step time: 1.0316
Batch 145/248, train_loss: 0.0739, step time: 1.0250
Batch 146/248, train_loss: 0.9942, step time: 1.0262
Batch 147/248, train_loss: 0.0594, step time: 1.0251
Batch 148/248, train_loss: 0.9652, step time: 1.0266
Batch 149/248, train_loss: 0.2611, step time: 1.0335
Batch 150/248, train_loss: 0.7436, step time: 1.0271
Batch 151/248, train_loss: 0.9540, step time: 1.0280
Batch 152/248, train_loss: 0.0620, step time: 1.0256
Batch 153/248, train_loss: 0.6433, step time: 1.0363
Batch 154/248, train_loss: 0.9561, step time: 1.0313
Batch 155/248, train_loss: 0.3140, step time: 1.0336
Batch 156/248, train_loss: 0.3712, step time: 1.0316
Batch 157/248, train_loss: 0.4189, step time: 1.0294
Batch 158/248, train_loss: 0.9982, step time: 1.0253
Batch 159/248, train_loss: 0.9918, step time: 1.0282
Batch 160/248, train_loss: 0.1332, step time: 1.0318
Batch 161/248, train_loss: 0.2176, step time: 1.0334
Batch 162/248, train_loss: 0.1145, step time: 1.0300

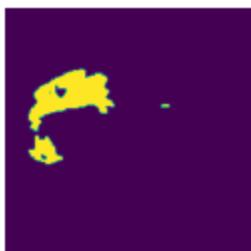
Batch 163/248, train_loss: 0.6660, step time: 1.0207

```
Batch 163/248, train_loss: 0.6660, step time: 1.040/
Batch 164/248, train_loss: 0.3672, step time: 1.0289
Batch 165/248, train_loss: 0.9975, step time: 1.0221
Batch 166/248, train_loss: 0.4535, step time: 1.0289
Batch 167/248, train_loss: 0.3789, step time: 1.0278
Batch 168/248, train_loss: 0.3126, step time: 1.0314
Batch 169/248, train_loss: 0.1844, step time: 1.0312
Batch 170/248, train_loss: 0.9598, step time: 1.0289
Batch 171/248, train_loss: 0.1071, step time: 1.0276
Batch 172/248, train_loss: 0.9967, step time: 1.0253
Batch 173/248, train_loss: 0.1418, step time: 1.0275
Batch 174/248, train_loss: 0.9301, step time: 1.0296
Batch 175/248, train_loss: 0.2136, step time: 1.0320
Batch 176/248, train_loss: 0.5382, step time: 1.0285
Batch 177/248, train_loss: 0.9152, step time: 1.0338
Batch 178/248, train_loss: 0.3146, step time: 1.0299
Batch 179/248, train_loss: 0.1175, step time: 1.0311
Batch 180/248, train_loss: 0.4634, step time: 1.0315
Batch 181/248, train_loss: 0.1515, step time: 1.0311
Batch 182/248, train_loss: 0.9520, step time: 1.0308
Batch 183/248, train_loss: 0.5347, step time: 1.0320
Batch 184/248, train_loss: 0.8070, step time: 1.0275
Batch 185/248, train_loss: 0.2823, step time: 1.0310
Batch 186/248, train_loss: 0.2216, step time: 1.0306
Batch 187/248, train_loss: 0.2987, step time: 1.0325
Batch 188/248, train_loss: 0.3556, step time: 1.0289
Batch 189/248, train_loss: 0.9972, step time: 1.0245
Batch 190/248, train_loss: 0.2248, step time: 1.0285
Batch 191/248, train_loss: 0.9809, step time: 1.0307
Batch 192/248, train_loss: 0.4189, step time: 1.0307
Batch 193/248, train_loss: 0.6373, step time: 1.0296
Batch 194/248, train_loss: 0.2752, step time: 1.0377
Batch 195/248, train_loss: 0.9905, step time: 1.0296
Batch 196/248, train_loss: 0.9997, step time: 1.0217
Batch 197/248, train_loss: 0.4881, step time: 1.0334
Batch 198/248, train_loss: 0.9994, step time: 1.0225
Batch 199/248, train_loss: 0.3745, step time: 1.0320
Batch 200/248, train_loss: 0.2735, step time: 1.0294
Batch 201/248, train_loss: 0.1963, step time: 1.0300
Batch 202/248, train_loss: 0.6535, step time: 1.0295
Batch 203/248, train_loss: 0.9367, step time: 1.0276
Batch 204/248, train_loss: 0.0972, step time: 1.0279
Batch 205/248, train_loss: 0.6781, step time: 1.0286
Batch 206/248, train_loss: 0.9377, step time: 1.0299
Batch 207/248, train_loss: 0.1832, step time: 1.0296
Batch 208/248, train_loss: 0.3830, step time: 1.0303
Batch 209/248, train_loss: 0.2409, step time: 1.0299
Batch 210/248, train_loss: 0.1100, step time: 1.0297
Batch 211/248, train_loss: 0.1112, step time: 1.0268
Batch 212/248, train_loss: 0.5625, step time: 1.0312
Batch 213/248, train_loss: 0.4159, step time: 1.0297
Batch 214/248, train_loss: 0.1531, step time: 1.0305
Batch 215/248, train_loss: 0.4258, step time: 1.0339
Batch 216/248, train_loss: 0.2777, step time: 1.0306
Batch 217/248, train_loss: 0.8039, step time: 1.0353
Batch 218/248, train_loss: 0.9836, step time: 1.0287
Batch 219/248, train_loss: 0.1590, step time: 1.0305
```

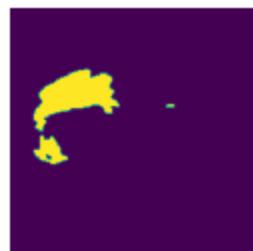
```
Batch 220/248, train_loss: 0.4700, step time: 1.0348
Batch 221/248, train_loss: 0.4873, step time: 1.0314
Batch 222/248, train_loss: 0.2600, step time: 1.0313
Batch 223/248, train_loss: 0.0768, step time: 1.0314
Batch 224/248, train_loss: 0.1347, step time: 1.0307
Batch 225/248, train_loss: 0.9821, step time: 1.0261
Batch 226/248, train_loss: 0.8561, step time: 1.0299
Batch 227/248, train_loss: 0.1737, step time: 1.0288
Batch 228/248, train_loss: 0.4542, step time: 1.0321
Batch 229/248, train_loss: 0.2059, step time: 1.0309
Batch 230/248, train_loss: 0.1618, step time: 1.0286
Batch 231/248, train_loss: 0.9935, step time: 1.0261
Batch 232/248, train_loss: 0.1517, step time: 1.0302
Batch 233/248, train_loss: 0.9993, step time: 1.0212
Batch 234/248, train_loss: 0.9298, step time: 1.0332
Batch 235/248, train_loss: 0.9317, step time: 1.0281
Batch 236/248, train_loss: 0.9938, step time: 1.0284
Batch 237/248, train_loss: 0.1792, step time: 1.0333
Batch 238/248, train_loss: 0.1632, step time: 1.0286
Batch 239/248, train_loss: 0.1062, step time: 1.0277
Batch 240/248, train_loss: 0.4566, step time: 1.0322
Batch 241/248, train_loss: 0.9968, step time: 1.0240
Batch 242/248, train_loss: 0.5626, step time: 1.0295
Batch 243/248, train_loss: 0.9678, step time: 1.0275
Batch 244/248, train_loss: 0.9368, step time: 1.0314
Batch 245/248, train_loss: 0.1235, step time: 1.0290
Batch 246/248, train_loss: 0.8871, step time: 1.0326
Batch 247/248, train_loss: 0.1150, step time: 1.0281
Batch 248/248, train_loss: 1.0000, step time: 1.0219
```

Labels

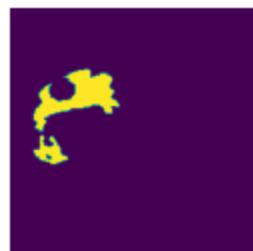
TC



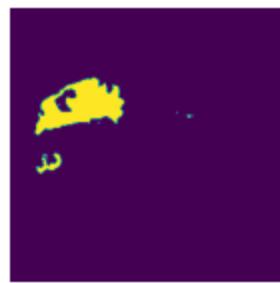
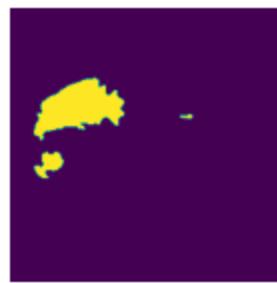
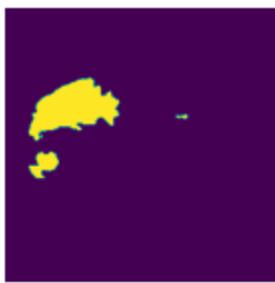
WT



ET



Predictions

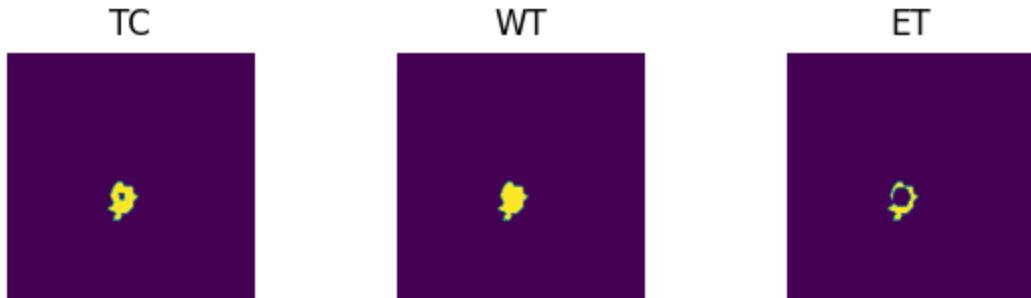


VAL

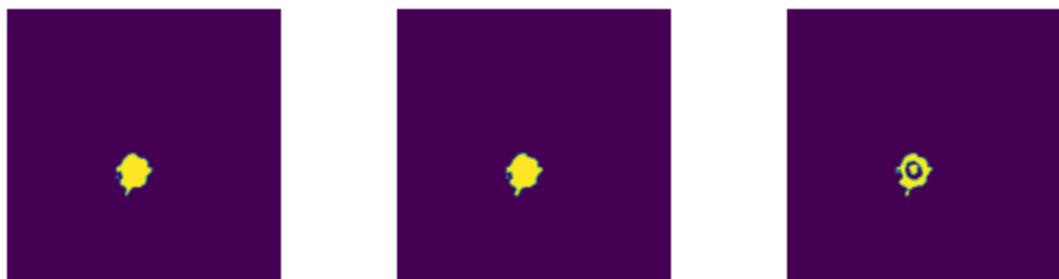
```
Batch 1/31, val_loss: 0.9094
Batch 2/31, val_loss: 0.9993
Batch 3/31, val_loss: 0.9920
```

```
Batch 4/31, val_loss: 0.9586
Batch 5/31, val_loss: 0.9993
Batch 6/31, val_loss: 0.7043
Batch 7/31, val_loss: 0.8524
Batch 8/31, val_loss: 0.9707
Batch 9/31, val_loss: 0.7010
Batch 10/31, val_loss: 0.9327
Batch 11/31, val_loss: 0.8544
Batch 12/31, val_loss: 0.9897
Batch 13/31, val_loss: 0.9942
Batch 14/31, val_loss: 0.9736
Batch 15/31, val_loss: 0.9957
Batch 16/31, val_loss: 0.9910
Batch 17/31, val_loss: 0.9957
Batch 18/31, val_loss: 0.9640
Batch 19/31, val_loss: 0.7867
Batch 20/31, val_loss: 0.9266
Batch 21/31, val_loss: 0.8966
Batch 22/31, val_loss: 0.9951
Batch 23/31, val_loss: 0.9963
Batch 24/31, val_loss: 0.7483
Batch 25/31, val_loss: 0.8153
Batch 26/31, val_loss: 0.9315
Batch 27/31, val_loss: 0.9963
Batch 28/31, val_loss: 0.7682
Batch 29/31, val_loss: 0.9974
Batch 30/31, val_loss: 0.9821
Batch 31/31, val_loss: 0.9816
```

Labels



Predictions



epoch 16

```
average train loss: 0.5191
average validation loss: 0.9226
saved as best model: True
current mean dice: 0.3499
current TC dice: 0.3639
```

current WT dice: 0.3607
current ET dice: 0.3597
Best Mean Metric: 0.3499
time consuming of epoch 16 is: 1545.3897

epoch 17/100
TRAIN
Batch 1/248, train_loss: 0.0986, step time: 1.0298
Batch 2/248, train_loss: 0.9845, step time: 1.0290
Batch 3/248, train_loss: 0.8362, step time: 1.0288
Batch 4/248, train_loss: 0.9976, step time: 1.0223
Batch 5/248, train_loss: 0.4827, step time: 1.0303
Batch 6/248, train_loss: 0.7798, step time: 1.0289
Batch 7/248, train_loss: 0.0895, step time: 1.0276
Batch 8/248, train_loss: 0.7415, step time: 1.0247
Batch 9/248, train_loss: 0.0670, step time: 1.0305
Batch 10/248, train_loss: 0.5483, step time: 1.0362
Batch 11/248, train_loss: 0.4651, step time: 1.0349
Batch 12/248, train_loss: 0.9530, step time: 1.0326
Batch 13/248, train_loss: 0.8857, step time: 1.0342
Batch 14/248, train_loss: 0.0700, step time: 1.0287
Batch 15/248, train_loss: 0.5416, step time: 1.0296
Batch 16/248, train_loss: 0.3195, step time: 1.0296
Batch 17/248, train_loss: 0.9632, step time: 1.0308
Batch 18/248, train_loss: 0.9496, step time: 1.0320
Batch 19/248, train_loss: 0.1158, step time: 1.0325
Batch 20/248, train_loss: 0.4790, step time: 1.0297
Batch 21/248, train_loss: 0.1247, step time: 1.0330
Batch 22/248, train_loss: 0.9987, step time: 1.0260
Batch 23/248, train_loss: 0.9979, step time: 1.0256
Batch 24/248, train_loss: 0.1405, step time: 1.0340
Batch 25/248, train_loss: 0.1055, step time: 1.0311
Batch 26/248, train_loss: 0.9470, step time: 1.0304
Batch 27/248, train_loss: 0.0957, step time: 1.0286
Batch 28/248, train_loss: 0.3274, step time: 1.0316
Batch 29/248, train_loss: 0.8966, step time: 1.0299
Batch 30/248, train_loss: 0.7146, step time: 1.0339
Batch 31/248, train_loss: 0.5825, step time: 1.0304
Batch 32/248, train_loss: 0.1661, step time: 1.0294
Batch 33/248, train_loss: 0.1008, step time: 1.0311
Batch 34/248, train_loss: 0.0865, step time: 1.0275
Batch 35/248, train_loss: 0.1200, step time: 1.0279
Batch 36/248, train_loss: 0.9929, step time: 1.0242
Batch 37/248, train_loss: 0.2616, step time: 1.0282
Batch 38/248, train_loss: 0.5401, step time: 1.0303
Batch 39/248, train_loss: 0.2803, step time: 1.0302
Batch 40/248, train_loss: 0.9985, step time: 1.0234
Batch 41/248, train_loss: 0.2223, step time: 1.0275
Batch 42/248, train_loss: 0.1094, step time: 1.0286
Batch 43/248, train_loss: 0.0977, step time: 1.0299
Batch 44/248, train_loss: 0.5255, step time: 1.0322
Batch 45/248, train_loss: 0.7968, step time: 1.0309
Batch 46/248, train_loss: 0.3192, step time: 1.0337
Batch 47/248, train_loss: 0.2186, step time: 1.0324
Batch 48/248, train_loss: 0.3424, step time: 1.0306
Batch 49/248, train_loss: 0.8664, step time: 1.0325

Batch 50/248, train_loss: 0.3351, step time: 1.0326
Batch 51/248, train_loss: 0.3105, step time: 1.0328
Batch 52/248, train_loss: 0.2890, step time: 1.0318
Batch 53/248, train_loss: 0.6757, step time: 1.0301
Batch 54/248, train_loss: 0.3560, step time: 1.0347
Batch 55/248, train_loss: 0.7242, step time: 1.0304
Batch 56/248, train_loss: 0.4239, step time: 1.0318
Batch 57/248, train_loss: 0.4136, step time: 1.0302
Batch 58/248, train_loss: 0.1490, step time: 1.0293
Batch 59/248, train_loss: 0.1607, step time: 1.0310
Batch 60/248, train_loss: 0.1077, step time: 1.0280
Batch 61/248, train_loss: 0.1669, step time: 1.0290
Batch 62/248, train_loss: 0.6064, step time: 1.0397
Batch 63/248, train_loss: 0.9801, step time: 1.0263
Batch 64/248, train_loss: 0.9321, step time: 1.0283
Batch 65/248, train_loss: 0.8818, step time: 1.0318
Batch 66/248, train_loss: 0.4174, step time: 1.0339
Batch 67/248, train_loss: 0.1115, step time: 1.0294
Batch 68/248, train_loss: 0.2504, step time: 1.0344
Batch 69/248, train_loss: 0.9854, step time: 1.0277
Batch 70/248, train_loss: 0.1991, step time: 1.0354
Batch 71/248, train_loss: 0.2400, step time: 1.0339
Batch 72/248, train_loss: 0.0987, step time: 1.0315
Batch 73/248, train_loss: 0.2467, step time: 1.0297
Batch 74/248, train_loss: 0.9993, step time: 1.0230
Batch 75/248, train_loss: 0.1921, step time: 1.0306
Batch 76/248, train_loss: 0.9619, step time: 1.0330
Batch 77/248, train_loss: 0.9974, step time: 1.0229
Batch 78/248, train_loss: 0.3017, step time: 1.0281
Batch 79/248, train_loss: 0.4075, step time: 1.0314
Batch 80/248, train_loss: 0.4837, step time: 1.0328
Batch 81/248, train_loss: 0.5826, step time: 1.0343
Batch 82/248, train_loss: 0.1247, step time: 1.0297
Batch 83/248, train_loss: 0.9628, step time: 1.0329
Batch 84/248, train_loss: 0.4456, step time: 1.0337
Batch 85/248, train_loss: 0.9702, step time: 1.0257
Batch 86/248, train_loss: 0.4720, step time: 1.0319
Batch 87/248, train_loss: 0.9041, step time: 1.0304
Batch 88/248, train_loss: 0.7822, step time: 1.0309
Batch 89/248, train_loss: 0.1927, step time: 1.0320
Batch 90/248, train_loss: 0.5583, step time: 1.0318
Batch 91/248, train_loss: 0.9419, step time: 1.0339
Batch 92/248, train_loss: 0.4837, step time: 1.0346
Batch 93/248, train_loss: 0.2275, step time: 1.0312
Batch 94/248, train_loss: 0.9183, step time: 1.0316
Batch 95/248, train_loss: 0.2437, step time: 1.0321
Batch 96/248, train_loss: 0.2467, step time: 1.0306
Batch 97/248, train_loss: 0.9991, step time: 1.0255
Batch 98/248, train_loss: 0.1637, step time: 1.0279
Batch 99/248, train_loss: 0.9312, step time: 1.0286
Batch 100/248, train_loss: 0.9788, step time: 1.0319
Batch 101/248, train_loss: 0.0644, step time: 1.0273
Batch 102/248, train_loss: 0.3041, step time: 1.0337
Batch 103/248, train_loss: 0.9737, step time: 1.0255
Batch 104/248, train_loss: 0.4148, step time: 1.0315
Batch 105/248, train_loss: 0.1231, step time: 1.0275
Batch 106/248, train_loss: 0.5135, step time: 1.0287

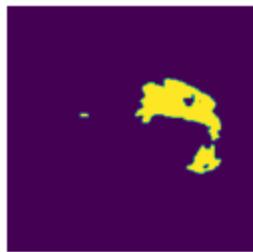
Batch 105/248, train_loss: 0.9155, step time: 1.0227
Batch 107/248, train_loss: 0.9166, step time: 1.0276
Batch 108/248, train_loss: 0.9176, step time: 1.0283
Batch 109/248, train_loss: 0.9913, step time: 1.0305
Batch 110/248, train_loss: 0.7814, step time: 1.0305
Batch 111/248, train_loss: 0.1266, step time: 1.0296
Batch 112/248, train_loss: 0.1594, step time: 1.0328
Batch 113/248, train_loss: 0.9984, step time: 1.0227
Batch 114/248, train_loss: 0.1618, step time: 1.0289
Batch 115/248, train_loss: 0.3133, step time: 1.0300
Batch 116/248, train_loss: 0.1252, step time: 1.0302
Batch 117/248, train_loss: 0.9685, step time: 1.0297
Batch 118/248, train_loss: 0.9767, step time: 1.0296
Batch 119/248, train_loss: 0.5018, step time: 1.0305
Batch 120/248, train_loss: 0.4186, step time: 1.0309
Batch 121/248, train_loss: 0.6379, step time: 1.0306
Batch 122/248, train_loss: 0.8835, step time: 1.0309
Batch 123/248, train_loss: 0.1108, step time: 1.0287
Batch 124/248, train_loss: 0.8674, step time: 1.0312
Batch 125/248, train_loss: 0.9934, step time: 1.0304
Batch 126/248, train_loss: 0.3566, step time: 1.0323
Batch 127/248, train_loss: 0.2232, step time: 1.0330
Batch 128/248, train_loss: 0.6358, step time: 1.0294
Batch 129/248, train_loss: 0.1277, step time: 1.0299
Batch 130/248, train_loss: 0.1579, step time: 1.0330
Batch 131/248, train_loss: 0.8790, step time: 1.0286
Batch 132/248, train_loss: 0.8776, step time: 1.0295
Batch 133/248, train_loss: 0.1955, step time: 1.0302
Batch 134/248, train_loss: 0.9991, step time: 1.0218
Batch 135/248, train_loss: 0.9763, step time: 1.0294
Batch 136/248, train_loss: 0.3063, step time: 1.0287
Batch 137/248, train_loss: 0.1926, step time: 1.0296
Batch 138/248, train_loss: 0.1067, step time: 1.0335
Batch 139/248, train_loss: 0.2863, step time: 1.0337
Batch 140/248, train_loss: 0.3678, step time: 1.0306
Batch 141/248, train_loss: 0.3009, step time: 1.0302
Batch 142/248, train_loss: 0.9839, step time: 1.0287
Batch 143/248, train_loss: 0.5418, step time: 1.0307
Batch 144/248, train_loss: 0.1473, step time: 1.0288
Batch 145/248, train_loss: 0.0815, step time: 1.0269
Batch 146/248, train_loss: 0.9974, step time: 1.0256
Batch 147/248, train_loss: 0.0555, step time: 1.0305
Batch 148/248, train_loss: 0.9579, step time: 1.0261
Batch 149/248, train_loss: 0.2198, step time: 1.0294
Batch 150/248, train_loss: 0.7378, step time: 1.0303
Batch 151/248, train_loss: 0.9633, step time: 1.0308
Batch 152/248, train_loss: 0.0643, step time: 1.0314
Batch 153/248, train_loss: 0.7156, step time: 1.0306
Batch 154/248, train_loss: 0.9493, step time: 1.0312
Batch 155/248, train_loss: 0.2985, step time: 1.0359
Batch 156/248, train_loss: 0.3210, step time: 1.0342
Batch 157/248, train_loss: 0.3999, step time: 1.0295
Batch 158/248, train_loss: 0.9985, step time: 1.0238
Batch 159/248, train_loss: 0.9834, step time: 1.0283
Batch 160/248, train_loss: 0.1153, step time: 1.0376
Batch 161/248, train_loss: 0.1762, step time: 1.0292
Batch 162/248, train_loss: 0.1373, step time: 1.0306

Batch 163/248, train_loss: 0.6587, step time: 1.0303
Batch 164/248, train_loss: 0.2921, step time: 1.0295
Batch 165/248, train_loss: 0.9974, step time: 1.0229
Batch 166/248, train_loss: 0.4020, step time: 1.0283
Batch 167/248, train_loss: 0.3981, step time: 1.0290
Batch 168/248, train_loss: 0.2824, step time: 1.0315
Batch 169/248, train_loss: 0.1422, step time: 1.0332
Batch 170/248, train_loss: 0.9604, step time: 1.0274
Batch 171/248, train_loss: 0.1042, step time: 1.0287
Batch 172/248, train_loss: 0.9953, step time: 1.0264
Batch 173/248, train_loss: 0.1587, step time: 1.0323
Batch 174/248, train_loss: 0.9674, step time: 1.0268
Batch 175/248, train_loss: 0.1968, step time: 1.0319
Batch 176/248, train_loss: 0.5047, step time: 1.0326
Batch 177/248, train_loss: 0.9083, step time: 1.0340
Batch 178/248, train_loss: 0.2630, step time: 1.0306
Batch 179/248, train_loss: 0.1133, step time: 1.0281
Batch 180/248, train_loss: 0.4294, step time: 1.0292
Batch 181/248, train_loss: 0.1451, step time: 1.0275
Batch 182/248, train_loss: 0.9445, step time: 1.0266
Batch 183/248, train_loss: 0.4690, step time: 1.0315
Batch 184/248, train_loss: 0.7919, step time: 1.0288
Batch 185/248, train_loss: 0.2205, step time: 1.0316
Batch 186/248, train_loss: 0.1717, step time: 1.0285
Batch 187/248, train_loss: 0.2890, step time: 1.0312
Batch 188/248, train_loss: 0.3512, step time: 1.0346
Batch 189/248, train_loss: 0.9932, step time: 1.0298
Batch 190/248, train_loss: 0.2004, step time: 1.0291
Batch 191/248, train_loss: 0.9711, step time: 1.0329
Batch 192/248, train_loss: 0.4200, step time: 1.0289
Batch 193/248, train_loss: 0.5063, step time: 1.0284
Batch 194/248, train_loss: 0.2344, step time: 1.0346
Batch 195/248, train_loss: 0.9776, step time: 1.0299
Batch 196/248, train_loss: 0.9997, step time: 1.0210
Batch 197/248, train_loss: 0.4715, step time: 1.0342
Batch 198/248, train_loss: 0.9991, step time: 1.0255
Batch 199/248, train_loss: 0.2569, step time: 1.0308
Batch 200/248, train_loss: 0.2177, step time: 1.0309
Batch 201/248, train_loss: 0.1734, step time: 1.0276
Batch 202/248, train_loss: 0.5104, step time: 1.0317
Batch 203/248, train_loss: 0.9213, step time: 1.0320
Batch 204/248, train_loss: 0.1131, step time: 1.0278
Batch 205/248, train_loss: 0.5873, step time: 1.0305
Batch 206/248, train_loss: 0.9336, step time: 1.0293
Batch 207/248, train_loss: 0.1355, step time: 1.0291
Batch 208/248, train_loss: 0.2644, step time: 1.0306
Batch 209/248, train_loss: 0.2321, step time: 1.0291
Batch 210/248, train_loss: 0.0979, step time: 1.0299
Batch 211/248, train_loss: 0.1023, step time: 1.0267
Batch 212/248, train_loss: 0.7929, step time: 1.0326
Batch 213/248, train_loss: 0.3650, step time: 1.0318
Batch 214/248, train_loss: 0.1348, step time: 1.0277
Batch 215/248, train_loss: 0.4224, step time: 1.0315
Batch 216/248, train_loss: 0.2923, step time: 1.0330
Batch 217/248, train_loss: 0.8365, step time: 1.0362
Batch 218/248, train_loss: 0.9784, step time: 1.0350
Batch 219/248, train_loss: 0.1437, step time: 1.0349

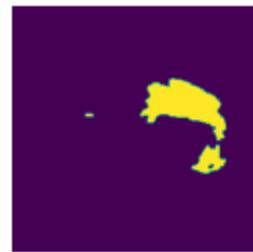
```
-- --, --, --_-- --, -- -- --  
Batch 220/248, train_loss: 0.4479, step time: 1.0335  
Batch 221/248, train_loss: 0.4680, step time: 1.0318  
Batch 222/248, train_loss: 0.2371, step time: 1.0308  
Batch 223/248, train_loss: 0.0658, step time: 1.0277  
Batch 224/248, train_loss: 0.1113, step time: 1.0272  
Batch 225/248, train_loss: 0.9693, step time: 1.0273  
Batch 226/248, train_loss: 0.8148, step time: 1.0299  
Batch 227/248, train_loss: 0.1561, step time: 1.0288  
Batch 228/248, train_loss: 0.4269, step time: 1.0313  
Batch 229/248, train_loss: 0.1794, step time: 1.0268  
Batch 230/248, train_loss: 0.1385, step time: 1.0272  
Batch 231/248, train_loss: 0.9858, step time: 1.0268  
Batch 232/248, train_loss: 0.1348, step time: 1.0295  
Batch 233/248, train_loss: 0.9990, step time: 1.0224  
Batch 234/248, train_loss: 0.9326, step time: 1.0324  
Batch 235/248, train_loss: 0.9261, step time: 1.0320  
Batch 236/248, train_loss: 0.9917, step time: 1.0270  
Batch 237/248, train_loss: 0.1799, step time: 1.0312  
Batch 238/248, train_loss: 0.1470, step time: 1.0338  
Batch 239/248, train_loss: 0.1242, step time: 1.0314  
Batch 240/248, train_loss: 0.5821, step time: 1.0364  
Batch 241/248, train_loss: 0.9943, step time: 1.0275  
Batch 242/248, train_loss: 0.4670, step time: 1.0310  
Batch 243/248, train_loss: 0.9532, step time: 1.0308  
Batch 244/248, train_loss: 0.8385, step time: 1.0315  
Batch 245/248, train_loss: 0.1076, step time: 1.0310  
Batch 246/248, train_loss: 0.8513, step time: 1.0315  
Batch 247/248, train_loss: 0.1038, step time: 1.0275  
Batch 248/248, train_loss: 1.0000, step time: 1.0168
```

Labels

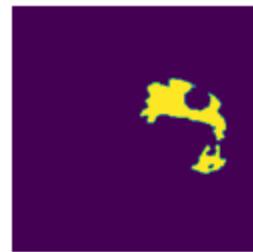
TC



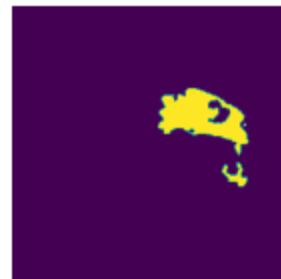
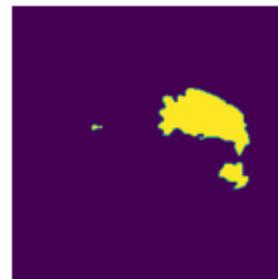
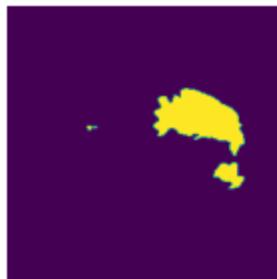
WT



ET



Predictions

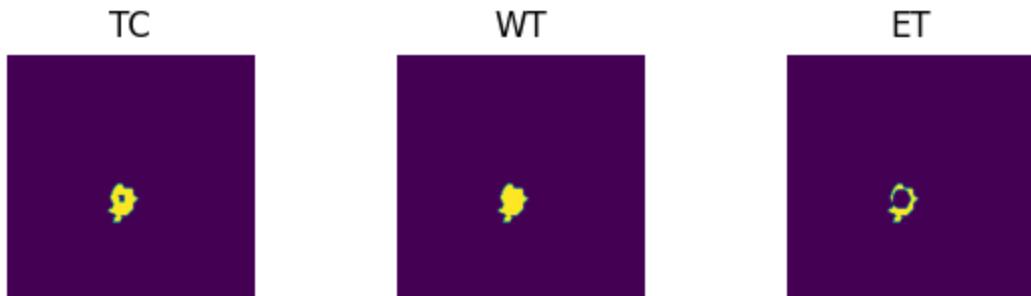


VAL

```
Batch 1/31, val_loss: 0.9032  
Batch 2/31, val_loss: 0.9994  
Batch 3/31, val_loss: 0.9894
```

```
Batch 4/31, val_loss: 0.9609
Batch 5/31, val_loss: 0.9993
Batch 6/31, val_loss: 0.7057
Batch 7/31, val_loss: 0.8540
Batch 8/31, val_loss: 0.9719
Batch 9/31, val_loss: 0.7003
Batch 10/31, val_loss: 0.9289
Batch 11/31, val_loss: 0.8536
Batch 12/31, val_loss: 0.9892
Batch 13/31, val_loss: 0.9932
Batch 14/31, val_loss: 0.9742
Batch 15/31, val_loss: 0.9959
Batch 16/31, val_loss: 0.9924
Batch 17/31, val_loss: 0.9955
Batch 18/31, val_loss: 0.9603
Batch 19/31, val_loss: 0.7841
Batch 20/31, val_loss: 0.9252
Batch 21/31, val_loss: 0.8946
Batch 22/31, val_loss: 0.9951
Batch 23/31, val_loss: 0.9968
Batch 24/31, val_loss: 0.7452
Batch 25/31, val_loss: 0.8162
Batch 26/31, val_loss: 0.9303
Batch 27/31, val_loss: 0.9947
Batch 28/31, val_loss: 0.7641
Batch 29/31, val_loss: 0.9973
Batch 30/31, val_loss: 0.9748
Batch 31/31, val_loss: 0.9825
```

Labels



Predictions



epoch 17

```
average train loss: 0.5070
average validation loss: 0.9216
saved as best model: False
current mean dice: 0.3473
-----
```

```
current IC dice: 0.3680
current WT dice: 0.3623
current ET dice: 0.3446
Best Mean Metric: 0.3499
time consuming of epoch 17 is: 1537.8520
-----
epoch 18/100
TRAIN
Batch 1/248, train_loss: 0.0999, step time: 1.0315
Batch 2/248, train_loss: 0.9750, step time: 1.0312
Batch 3/248, train_loss: 0.7851, step time: 1.0286
Batch 4/248, train_loss: 0.9971, step time: 1.0221
Batch 5/248, train_loss: 0.3690, step time: 1.0295
Batch 6/248, train_loss: 0.8091, step time: 1.0305
Batch 7/248, train_loss: 0.0818, step time: 1.0317
Batch 8/248, train_loss: 0.7494, step time: 1.0269
Batch 9/248, train_loss: 0.0607, step time: 1.0277
Batch 10/248, train_loss: 0.5011, step time: 1.0320
Batch 11/248, train_loss: 0.4293, step time: 1.0294
Batch 12/248, train_loss: 0.9420, step time: 1.0306
Batch 13/248, train_loss: 0.8318, step time: 1.0315
Batch 14/248, train_loss: 0.0688, step time: 1.0295
Batch 15/248, train_loss: 0.5122, step time: 1.0293
Batch 16/248, train_loss: 0.2951, step time: 1.0295
Batch 17/248, train_loss: 0.9529, step time: 1.0330
Batch 18/248, train_loss: 0.9275, step time: 1.0267
Batch 19/248, train_loss: 0.1259, step time: 1.0290
Batch 20/248, train_loss: 0.3274, step time: 1.0318
Batch 21/248, train_loss: 0.1066, step time: 1.0259
Batch 22/248, train_loss: 0.9985, step time: 1.0262
Batch 23/248, train_loss: 0.9977, step time: 1.0305
Batch 24/248, train_loss: 0.1308, step time: 1.0299
Batch 25/248, train_loss: 0.1008, step time: 1.0297
Batch 26/248, train_loss: 0.9472, step time: 1.0302
Batch 27/248, train_loss: 0.0840, step time: 1.0320
Batch 28/248, train_loss: 0.2706, step time: 1.0315
Batch 29/248, train_loss: 0.8914, step time: 1.0319
Batch 30/248, train_loss: 0.8437, step time: 1.0320
Batch 31/248, train_loss: 0.5445, step time: 1.0337
Batch 32/248, train_loss: 0.1473, step time: 1.0340
Batch 33/248, train_loss: 0.0900, step time: 1.0308
Batch 34/248, train_loss: 0.0769, step time: 1.0296
Batch 35/248, train_loss: 0.1045, step time: 1.0275
Batch 36/248, train_loss: 0.9841, step time: 1.0281
Batch 37/248, train_loss: 0.2317, step time: 1.0255
Batch 38/248, train_loss: 0.4985, step time: 1.0297
Batch 39/248, train_loss: 0.4914, step time: 1.0297
Batch 40/248, train_loss: 0.9980, step time: 1.0232
Batch 41/248, train_loss: 0.2464, step time: 1.0312
Batch 42/248, train_loss: 0.0975, step time: 1.0268
Batch 43/248, train_loss: 0.0934, step time: 1.0259
Batch 44/248, train_loss: 0.2836, step time: 1.0308
Batch 45/248, train_loss: 0.7437, step time: 1.0302
Batch 46/248, train_loss: 0.3074, step time: 1.0347
Batch 47/248, train_loss: 0.1977, step time: 1.0350
Batch 48/248, train_loss: 0.3215, step time: 1.0297
Batch 49/248, train_loss: 0.8278, step time: 1.0329
```

Batch 50/248, train_loss: 0.3066, step time: 1.0311
Batch 51/248, train_loss: 0.2793, step time: 1.0319
Batch 52/248, train_loss: 0.2122, step time: 1.0304
Batch 53/248, train_loss: 0.6619, step time: 1.0454
Batch 54/248, train_loss: 0.3339, step time: 1.0317
Batch 55/248, train_loss: 0.6664, step time: 1.0298
Batch 56/248, train_loss: 0.3281, step time: 1.0325
Batch 57/248, train_loss: 0.3850, step time: 1.0284
Batch 58/248, train_loss: 0.1583, step time: 1.0302
Batch 59/248, train_loss: 0.1561, step time: 1.0295
Batch 60/248, train_loss: 0.1014, step time: 1.0285
Batch 61/248, train_loss: 0.1506, step time: 1.0290
Batch 62/248, train_loss: 0.5099, step time: 1.0291
Batch 63/248, train_loss: 0.9609, step time: 1.0279
Batch 64/248, train_loss: 0.8871, step time: 1.0296
Batch 65/248, train_loss: 0.6858, step time: 1.0333
Batch 66/248, train_loss: 0.3747, step time: 1.0344
Batch 67/248, train_loss: 0.0997, step time: 1.0275
Batch 68/248, train_loss: 0.2087, step time: 1.0332
Batch 69/248, train_loss: 0.9810, step time: 1.0329
Batch 70/248, train_loss: 0.1802, step time: 1.0347
Batch 71/248, train_loss: 0.1743, step time: 1.0303
Batch 72/248, train_loss: 0.0916, step time: 1.0298
Batch 73/248, train_loss: 0.2645, step time: 1.0307
Batch 74/248, train_loss: 0.9994, step time: 1.0200
Batch 75/248, train_loss: 0.1852, step time: 1.0286
Batch 76/248, train_loss: 0.9515, step time: 1.0326
Batch 77/248, train_loss: 0.9981, step time: 1.0293
Batch 78/248, train_loss: 0.2553, step time: 1.0299
Batch 79/248, train_loss: 0.2931, step time: 1.0309
Batch 80/248, train_loss: 0.4676, step time: 1.0346
Batch 81/248, train_loss: 0.5889, step time: 1.0353
Batch 82/248, train_loss: 0.1111, step time: 1.0334
Batch 83/248, train_loss: 0.9445, step time: 1.0316
Batch 84/248, train_loss: 0.3721, step time: 1.0316
Batch 85/248, train_loss: 0.9857, step time: 1.0272
Batch 86/248, train_loss: 0.4279, step time: 1.0280
Batch 87/248, train_loss: 0.8255, step time: 1.0289
Batch 88/248, train_loss: 0.8286, step time: 1.0329
Batch 89/248, train_loss: 0.1858, step time: 1.0315
Batch 90/248, train_loss: 0.6442, step time: 1.0325
Batch 91/248, train_loss: 0.9347, step time: 1.0306
Batch 92/248, train_loss: 0.4912, step time: 1.0348
Batch 93/248, train_loss: 0.2323, step time: 1.0287
Batch 94/248, train_loss: 0.8842, step time: 1.0277
Batch 95/248, train_loss: 0.2427, step time: 1.0316
Batch 96/248, train_loss: 0.3073, step time: 1.0321
Batch 97/248, train_loss: 0.9979, step time: 1.0272
Batch 98/248, train_loss: 0.1770, step time: 1.0313
Batch 99/248, train_loss: 0.8293, step time: 1.0330
Batch 100/248, train_loss: 0.9579, step time: 1.0311
Batch 101/248, train_loss: 0.0586, step time: 1.0266
Batch 102/248, train_loss: 0.3130, step time: 1.0335
Batch 103/248, train_loss: 0.9611, step time: 1.0269
Batch 104/248, train_loss: 0.4264, step time: 1.0293
Batch 105/248, train_loss: 0.1082, step time: 1.0260

Batch 106/248, train_loss: 0.481, step time: 1.050
Batch 107/248, train_loss: 0.9073, step time: 1.0267
Batch 108/248, train_loss: 0.9226, step time: 1.0311
Batch 109/248, train_loss: 0.9931, step time: 1.0282
Batch 110/248, train_loss: 0.6341, step time: 1.0307
Batch 111/248, train_loss: 0.1188, step time: 1.0318
Batch 112/248, train_loss: 0.1223, step time: 1.0331
Batch 113/248, train_loss: 0.9967, step time: 1.0284
Batch 114/248, train_loss: 0.1933, step time: 1.0307
Batch 115/248, train_loss: 0.2975, step time: 1.0290
Batch 116/248, train_loss: 0.1102, step time: 1.0305
Batch 117/248, train_loss: 0.9314, step time: 1.0282
Batch 118/248, train_loss: 0.9717, step time: 1.0282
Batch 119/248, train_loss: 0.4817, step time: 1.0311
Batch 120/248, train_loss: 0.4006, step time: 1.0321
Batch 121/248, train_loss: 0.5329, step time: 1.0310
Batch 122/248, train_loss: 0.8027, step time: 1.0334
Batch 123/248, train_loss: 0.0905, step time: 1.0310
Batch 124/248, train_loss: 0.7029, step time: 1.0319
Batch 125/248, train_loss: 0.9762, step time: 1.0305
Batch 126/248, train_loss: 0.3338, step time: 1.0331
Batch 127/248, train_loss: 0.1954, step time: 1.0331
Batch 128/248, train_loss: 0.5890, step time: 1.0335
Batch 129/248, train_loss: 0.1259, step time: 1.0309
Batch 130/248, train_loss: 0.1476, step time: 1.0329
Batch 131/248, train_loss: 0.8381, step time: 1.0289
Batch 132/248, train_loss: 0.7757, step time: 1.0309
Batch 133/248, train_loss: 0.1995, step time: 1.0278
Batch 134/248, train_loss: 0.9981, step time: 1.0258
Batch 135/248, train_loss: 0.9342, step time: 1.0300
Batch 136/248, train_loss: 0.2450, step time: 1.0295
Batch 137/248, train_loss: 0.1677, step time: 1.0283
Batch 138/248, train_loss: 0.0956, step time: 1.0266
Batch 139/248, train_loss: 0.2241, step time: 1.0289
Batch 140/248, train_loss: 0.4270, step time: 1.0306
Batch 141/248, train_loss: 0.3005, step time: 1.0322
Batch 142/248, train_loss: 0.9692, step time: 1.0278
Batch 143/248, train_loss: 0.5377, step time: 1.0298
Batch 144/248, train_loss: 0.1382, step time: 1.0258
Batch 145/248, train_loss: 0.0536, step time: 1.0296
Batch 146/248, train_loss: 0.9965, step time: 1.0244
Batch 147/248, train_loss: 0.0507, step time: 1.0280
Batch 148/248, train_loss: 0.9598, step time: 1.0261
Batch 149/248, train_loss: 0.2128, step time: 1.0432
Batch 150/248, train_loss: 0.7324, step time: 1.0277
Batch 151/248, train_loss: 0.9463, step time: 1.0279
Batch 152/248, train_loss: 0.0630, step time: 1.0288
Batch 153/248, train_loss: 0.7745, step time: 1.0322
Batch 154/248, train_loss: 0.9660, step time: 1.0293
Batch 155/248, train_loss: 0.3153, step time: 1.0325
Batch 156/248, train_loss: 0.3394, step time: 1.0352
Batch 157/248, train_loss: 0.3898, step time: 1.0308
Batch 158/248, train_loss: 0.9988, step time: 1.0230
Batch 159/248, train_loss: 0.9864, step time: 1.0272
Batch 160/248, train_loss: 0.1085, step time: 1.0327
Batch 161/248, train_loss: 0.1678, step time: 1.0336
Batch 162/248, train_loss: 0.1150, step time: 1.0320

Batch 163/248, train_loss: 0.6402, step time: 1.0300
Batch 164/248, train_loss: 0.2438, step time: 1.0355
Batch 165/248, train_loss: 0.9971, step time: 1.0227
Batch 166/248, train_loss: 0.3806, step time: 1.0310
Batch 167/248, train_loss: 0.3526, step time: 1.0331
Batch 168/248, train_loss: 0.2780, step time: 1.0320
Batch 169/248, train_loss: 0.1232, step time: 1.0291
Batch 170/248, train_loss: 0.9543, step time: 1.0314
Batch 171/248, train_loss: 0.1116, step time: 1.0295
Batch 172/248, train_loss: 0.9933, step time: 1.0284
Batch 173/248, train_loss: 0.1344, step time: 1.0281
Batch 174/248, train_loss: 0.9984, step time: 1.0227
Batch 175/248, train_loss: 0.2207, step time: 1.0281
Batch 176/248, train_loss: 0.4986, step time: 1.0290
Batch 177/248, train_loss: 0.8996, step time: 1.0321
Batch 178/248, train_loss: 0.2779, step time: 1.0322
Batch 179/248, train_loss: 0.1171, step time: 1.0278
Batch 180/248, train_loss: 0.4014, step time: 1.0311
Batch 181/248, train_loss: 0.1495, step time: 1.0318
Batch 182/248, train_loss: 0.9358, step time: 1.0262
Batch 183/248, train_loss: 0.4461, step time: 1.0307
Batch 184/248, train_loss: 0.8318, step time: 1.0292
Batch 185/248, train_loss: 0.2225, step time: 1.0306
Batch 186/248, train_loss: 0.1723, step time: 1.0271
Batch 187/248, train_loss: 0.2731, step time: 1.0330
Batch 188/248, train_loss: 0.2767, step time: 1.0324
Batch 189/248, train_loss: 0.9896, step time: 1.0285
Batch 190/248, train_loss: 0.2029, step time: 1.0293
Batch 191/248, train_loss: 0.9610, step time: 1.0299
Batch 192/248, train_loss: 0.3422, step time: 1.0285
Batch 193/248, train_loss: 0.5187, step time: 1.0301
Batch 194/248, train_loss: 0.1967, step time: 1.0337
Batch 195/248, train_loss: 0.9761, step time: 1.0300
Batch 196/248, train_loss: 0.9995, step time: 1.0227
Batch 197/248, train_loss: 0.4410, step time: 1.0289
Batch 198/248, train_loss: 0.9990, step time: 1.0258
Batch 199/248, train_loss: 0.2326, step time: 1.0330
Batch 200/248, train_loss: 0.2038, step time: 1.0320
Batch 201/248, train_loss: 0.1648, step time: 1.0273
Batch 202/248, train_loss: 0.5773, step time: 1.0297
Batch 203/248, train_loss: 0.9138, step time: 1.0272
Batch 204/248, train_loss: 0.1015, step time: 1.0242
Batch 205/248, train_loss: 0.5199, step time: 1.0312
Batch 206/248, train_loss: 0.9257, step time: 1.0319
Batch 207/248, train_loss: 0.1216, step time: 1.0275
Batch 208/248, train_loss: 0.2914, step time: 1.0300
Batch 209/248, train_loss: 0.1978, step time: 1.0288
Batch 210/248, train_loss: 0.0962, step time: 1.0271
Batch 211/248, train_loss: 0.0931, step time: 1.0268
Batch 212/248, train_loss: 0.4881, step time: 1.0332
Batch 213/248, train_loss: 0.3544, step time: 1.0330
Batch 214/248, train_loss: 0.1163, step time: 1.0294
Batch 215/248, train_loss: 0.3822, step time: 1.0309
Batch 216/248, train_loss: 0.1914, step time: 1.0321
Batch 217/248, train_loss: 0.5521, step time: 1.0345
Batch 218/248, train_loss: 0.9843, step time: 1.0284
Batch 219/248, train_loss: 0.1168, step time: 1.0211

Batch 219/248, train_loss: 0.1100, step time: 1.0541
Batch 220/248, train_loss: 0.4002, step time: 1.0353
Batch 221/248, train_loss: 0.4915, step time: 1.0336
Batch 222/248, train_loss: 0.2227, step time: 1.0279
Batch 223/248, train_loss: 0.0598, step time: 1.0301
Batch 224/248, train_loss: 0.1153, step time: 1.0271
Batch 225/248, train_loss: 0.9835, step time: 1.0260
Batch 226/248, train_loss: 0.7445, step time: 1.0287
Batch 227/248, train_loss: 0.1475, step time: 1.0260
Batch 228/248, train_loss: 0.3744, step time: 1.0290
Batch 229/248, train_loss: 0.1649, step time: 1.0283
Batch 230/248, train_loss: 0.1202, step time: 1.0272
Batch 231/248, train_loss: 0.9977, step time: 1.0250
Batch 232/248, train_loss: 0.1180, step time: 1.0299
Batch 233/248, train_loss: 0.9994, step time: 1.0231
Batch 234/248, train_loss: 0.9158, step time: 1.0333
Batch 235/248, train_loss: 0.9084, step time: 1.0318
Batch 236/248, train_loss: 0.9947, step time: 1.0297
Batch 237/248, train_loss: 0.1599, step time: 1.0329
Batch 238/248, train_loss: 0.1398, step time: 1.0309
Batch 239/248, train_loss: 0.1031, step time: 1.0285
Batch 240/248, train_loss: 0.4241, step time: 1.0324
Batch 241/248, train_loss: 0.9926, step time: 1.0247
Batch 242/248, train_loss: 0.4582, step time: 1.0323
Batch 243/248, train_loss: 0.9319, step time: 1.0324
Batch 244/248, train_loss: 0.8577, step time: 1.0341
Batch 245/248, train_loss: 0.1015, step time: 1.0317
Batch 246/248, train_loss: 0.8186, step time: 1.0292
Batch 247/248, train_loss: 0.0980, step time: 1.0244
Batch 248/248, train_loss: 0.9999, step time: 1.0183

Labels

TC



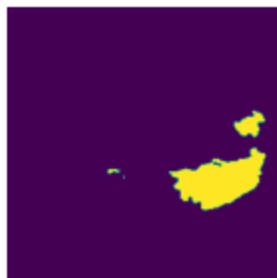
WT



ET



Predictions



VAL

Batch 1/31, val_loss: 0.9156
Batch 2/31, val_loss: 0.9993
Batch 3/31, val loss: 0.9874

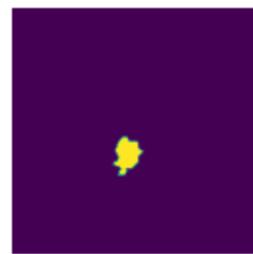
```
Batch 4/31, val_loss: 0.9556
Batch 5/31, val_loss: 0.9991
Batch 6/31, val_loss: 0.7075
Batch 7/31, val_loss: 0.8407
Batch 8/31, val_loss: 0.9701
Batch 9/31, val_loss: 0.7012
Batch 10/31, val_loss: 0.9252
Batch 11/31, val_loss: 0.8493
Batch 12/31, val_loss: 0.9881
Batch 13/31, val_loss: 0.9944
Batch 14/31, val_loss: 0.9742
Batch 15/31, val_loss: 0.9957
Batch 16/31, val_loss: 0.9848
Batch 17/31, val_loss: 0.9928
Batch 18/31, val_loss: 0.9530
Batch 19/31, val_loss: 0.7853
Batch 20/31, val_loss: 0.9054
Batch 21/31, val_loss: 0.8922
Batch 22/31, val_loss: 0.9939
Batch 23/31, val_loss: 0.9947
Batch 24/31, val_loss: 0.7522
Batch 25/31, val_loss: 0.8144
Batch 26/31, val_loss: 0.9289
Batch 27/31, val_loss: 0.9937
Batch 28/31, val_loss: 0.7584
Batch 29/31, val_loss: 0.9958
Batch 30/31, val_loss: 0.9714
Batch 31/31, val_loss: 0.9791
```

Labels

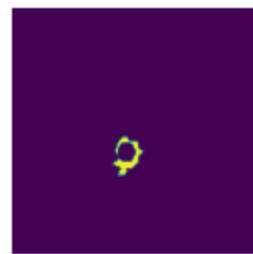
TC



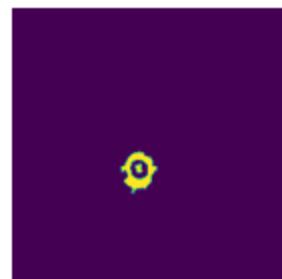
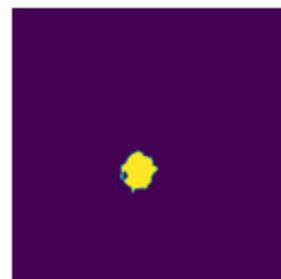
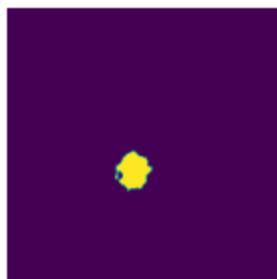
WT



ET



Predictions



epoch 18

```
average train loss: 0.4869
average validation loss: 0.9193
saved as best model: True
current mean dice: 0.3817
```

```
current TC dice: 0.3992
current WT dice: 0.3940
current ET dice: 0.3892
Best Mean Metric: 0.3817
time consuming of epoch 18 is: 1546.4021
-----
epoch 19/100
TRAIN
    Batch 1/248, train_loss: 0.0971, step time: 1.0330
    Batch 2/248, train_loss: 0.9699, step time: 1.0312
    Batch 3/248, train_loss: 0.7040, step time: 1.0300
    Batch 4/248, train_loss: 0.9948, step time: 1.0266
    Batch 5/248, train_loss: 0.3568, step time: 1.0287
    Batch 6/248, train_loss: 0.7596, step time: 1.0285
    Batch 7/248, train_loss: 0.0723, step time: 1.0287
    Batch 8/248, train_loss: 0.7445, step time: 1.0340
    Batch 9/248, train_loss: 0.0606, step time: 1.0297
    Batch 10/248, train_loss: 0.4466, step time: 1.0322
    Batch 11/248, train_loss: 0.4042, step time: 1.0320
    Batch 12/248, train_loss: 0.9325, step time: 1.0304
    Batch 13/248, train_loss: 0.7814, step time: 1.0331
    Batch 14/248, train_loss: 0.0620, step time: 1.0275
    Batch 15/248, train_loss: 0.4876, step time: 1.0294
    Batch 16/248, train_loss: 0.2589, step time: 1.0315
    Batch 17/248, train_loss: 0.9526, step time: 1.0292
    Batch 18/248, train_loss: 0.9297, step time: 1.0310
    Batch 19/248, train_loss: 0.1218, step time: 1.0285
    Batch 20/248, train_loss: 0.3076, step time: 1.0305
    Batch 21/248, train_loss: 0.0993, step time: 1.0263
    Batch 22/248, train_loss: 0.9974, step time: 1.0217
    Batch 23/248, train_loss: 0.9980, step time: 1.0259
    Batch 24/248, train_loss: 0.1120, step time: 1.0313
    Batch 25/248, train_loss: 0.0947, step time: 1.0283
    Batch 26/248, train_loss: 0.9544, step time: 1.0302
    Batch 27/248, train_loss: 0.0844, step time: 1.0295
    Batch 28/248, train_loss: 0.2662, step time: 1.0322
    Batch 29/248, train_loss: 0.8913, step time: 1.0336
    Batch 30/248, train_loss: 0.6097, step time: 1.0360
    Batch 31/248, train_loss: 0.4611, step time: 1.0310
    Batch 32/248, train_loss: 0.1242, step time: 1.0316
    Batch 33/248, train_loss: 0.0973, step time: 1.0287
    Batch 34/248, train_loss: 0.0663, step time: 1.0297
    Batch 35/248, train_loss: 0.0864, step time: 1.0265
    Batch 36/248, train_loss: 0.9870, step time: 1.0260
    Batch 37/248, train_loss: 0.2152, step time: 1.0284
    Batch 38/248, train_loss: 0.4559, step time: 1.0291
    Batch 39/248, train_loss: 0.2380, step time: 1.0263
    Batch 40/248, train_loss: 0.9965, step time: 1.0276
    Batch 41/248, train_loss: 0.2539, step time: 1.0346
    Batch 42/248, train_loss: 0.0992, step time: 1.0320
    Batch 43/248, train_loss: 0.0877, step time: 1.0270
    Batch 44/248, train_loss: 0.5335, step time: 1.0280
    Batch 45/248, train_loss: 0.6246, step time: 1.0388
    Batch 46/248, train_loss: 0.2530, step time: 1.0321
    Batch 47/248, train_loss: 0.1749, step time: 1.0345
    Batch 48/248, train_loss: 0.3777, step time: 1.0341
    Batch 49/248, train_loss: 0.8065, step time: 1.0320
```

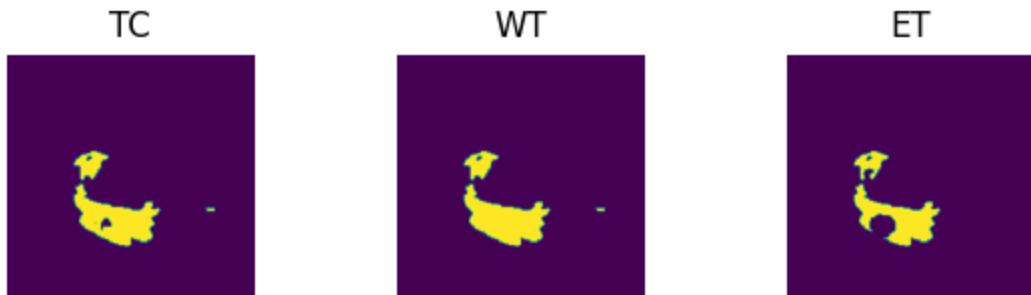
```
Batch 49/248, train_loss: 0.0000, step time: 1.0322
Batch 50/248, train_loss: 0.2820, step time: 1.0306
Batch 51/248, train_loss: 0.2656, step time: 1.0332
Batch 52/248, train_loss: 0.2257, step time: 1.0295
Batch 53/248, train_loss: 0.6427, step time: 1.0308
Batch 54/248, train_loss: 0.3228, step time: 1.0306
Batch 55/248, train_loss: 0.5932, step time: 1.0369
Batch 56/248, train_loss: 0.2780, step time: 1.0305
Batch 57/248, train_loss: 0.3515, step time: 1.0319
Batch 58/248, train_loss: 0.1290, step time: 1.0271
Batch 59/248, train_loss: 0.1297, step time: 1.0259
Batch 60/248, train_loss: 0.0892, step time: 1.0300
Batch 61/248, train_loss: 0.1362, step time: 1.0273
Batch 62/248, train_loss: 0.4476, step time: 1.0336
Batch 63/248, train_loss: 0.9720, step time: 1.0299
Batch 64/248, train_loss: 0.8919, step time: 1.0306
Batch 65/248, train_loss: 0.6216, step time: 1.0305
Batch 66/248, train_loss: 0.3087, step time: 1.0301
Batch 67/248, train_loss: 0.0951, step time: 1.0272
Batch 68/248, train_loss: 0.1866, step time: 1.0315
Batch 69/248, train_loss: 0.9830, step time: 1.0313
Batch 70/248, train_loss: 0.1634, step time: 1.0310
Batch 71/248, train_loss: 0.2213, step time: 1.0294
Batch 72/248, train_loss: 0.0843, step time: 1.0307
Batch 73/248, train_loss: 0.2717, step time: 1.0290
Batch 74/248, train_loss: 0.9992, step time: 1.0250
Batch 75/248, train_loss: 0.1725, step time: 1.0329
Batch 76/248, train_loss: 0.9042, step time: 1.0321
Batch 77/248, train_loss: 0.9978, step time: 1.0258
Batch 78/248, train_loss: 0.2567, step time: 1.0304
Batch 79/248, train_loss: 0.2498, step time: 1.0312
Batch 80/248, train_loss: 0.3752, step time: 1.0295
Batch 81/248, train_loss: 0.4431, step time: 1.0302
Batch 82/248, train_loss: 0.1046, step time: 1.0266
Batch 83/248, train_loss: 0.9490, step time: 1.0303
Batch 84/248, train_loss: 0.3385, step time: 1.0345
Batch 85/248, train_loss: 0.9349, step time: 1.0283
Batch 86/248, train_loss: 0.4808, step time: 1.0332
Batch 87/248, train_loss: 0.8306, step time: 1.0297
Batch 88/248, train_loss: 0.7608, step time: 1.0304
Batch 89/248, train_loss: 0.1987, step time: 1.0315
Batch 90/248, train_loss: 0.6333, step time: 1.0364
Batch 91/248, train_loss: 0.9140, step time: 1.0292
Batch 92/248, train_loss: 0.7457, step time: 1.0329
Batch 93/248, train_loss: 0.2439, step time: 1.0323
Batch 94/248, train_loss: 0.8899, step time: 1.0345
Batch 95/248, train_loss: 0.2113, step time: 1.0303
Batch 96/248, train_loss: 0.2796, step time: 1.0331
Batch 97/248, train_loss: 0.9985, step time: 1.0249
Batch 98/248, train_loss: 0.1406, step time: 1.0280
Batch 99/248, train_loss: 0.9287, step time: 1.0301
Batch 100/248, train_loss: 0.9910, step time: 1.0277
Batch 101/248, train_loss: 0.0590, step time: 1.0269
Batch 102/248, train_loss: 0.2824, step time: 1.0299
Batch 103/248, train_loss: 0.9627, step time: 1.0326
Batch 104/248, train_loss: 0.4178, step time: 1.0328
Batch 105/248, train_loss: 0.1195, step time: 1.0324
```

Batch 106/248, train_loss: 0.4912, step time: 1.0299
Batch 107/248, train_loss: 0.9258, step time: 1.0295
Batch 108/248, train_loss: 0.9212, step time: 1.0324
Batch 109/248, train_loss: 0.9917, step time: 1.0293
Batch 110/248, train_loss: 0.7270, step time: 1.0308
Batch 111/248, train_loss: 0.1161, step time: 1.0288
Batch 112/248, train_loss: 0.1616, step time: 1.0328
Batch 113/248, train_loss: 0.9977, step time: 1.0290
Batch 114/248, train_loss: 0.2078, step time: 1.0280
Batch 115/248, train_loss: 0.2679, step time: 1.0321
Batch 116/248, train_loss: 0.1155, step time: 1.0287
Batch 117/248, train_loss: 0.9343, step time: 1.0299
Batch 118/248, train_loss: 0.9656, step time: 1.0289
Batch 119/248, train_loss: 0.4472, step time: 1.0296
Batch 120/248, train_loss: 0.3609, step time: 1.0294
Batch 121/248, train_loss: 0.5100, step time: 1.0318
Batch 122/248, train_loss: 0.8476, step time: 1.0297
Batch 123/248, train_loss: 0.0855, step time: 1.0289
Batch 124/248, train_loss: 0.6275, step time: 1.0314
Batch 125/248, train_loss: 0.9909, step time: 1.0294
Batch 126/248, train_loss: 0.2661, step time: 1.0288
Batch 127/248, train_loss: 0.1766, step time: 1.0340
Batch 128/248, train_loss: 0.5446, step time: 1.0350
Batch 129/248, train_loss: 0.1569, step time: 1.0298
Batch 130/248, train_loss: 0.1593, step time: 1.0327
Batch 131/248, train_loss: 0.8343, step time: 1.0314
Batch 132/248, train_loss: 0.8183, step time: 1.0340
Batch 133/248, train_loss: 0.2025, step time: 1.0296
Batch 134/248, train_loss: 0.9962, step time: 1.0278
Batch 135/248, train_loss: 0.9885, step time: 1.0276
Batch 136/248, train_loss: 0.2094, step time: 1.0310
Batch 137/248, train_loss: 0.1446, step time: 1.0304
Batch 138/248, train_loss: 0.0873, step time: 1.0295
Batch 139/248, train_loss: 0.2209, step time: 1.0270
Batch 140/248, train_loss: 0.3172, step time: 1.0333
Batch 141/248, train_loss: 0.2701, step time: 1.0317
Batch 142/248, train_loss: 0.9709, step time: 1.0273
Batch 143/248, train_loss: 0.4744, step time: 1.0353
Batch 144/248, train_loss: 0.1451, step time: 1.0286
Batch 145/248, train_loss: 0.0610, step time: 1.0282
Batch 146/248, train_loss: 0.9926, step time: 1.0295
Batch 147/248, train_loss: 0.0606, step time: 1.0258
Batch 148/248, train_loss: 0.9546, step time: 1.0288
Batch 149/248, train_loss: 0.1904, step time: 1.0320
Batch 150/248, train_loss: 0.7130, step time: 1.0320
Batch 151/248, train_loss: 0.9088, step time: 1.0292
Batch 152/248, train_loss: 0.0578, step time: 1.0270
Batch 153/248, train_loss: 0.6864, step time: 1.0326
Batch 154/248, train_loss: 0.9392, step time: 1.0288
Batch 155/248, train_loss: 0.2758, step time: 1.0324
Batch 156/248, train_loss: 0.3032, step time: 1.0298
Batch 157/248, train_loss: 0.3834, step time: 1.0284
Batch 158/248, train_loss: 0.9976, step time: 1.0257
Batch 159/248, train_loss: 0.9863, step time: 1.0264
Batch 160/248, train_loss: 0.1067, step time: 1.0303
Batch 161/248, train_loss: 0.1379, step time: 1.0318
Batch 162/248, train_loss: 0.1177, step time: 1.0301

```
----, ----, -----, ----, ----, ----  
Batch 163/248, train_loss: 0.5475, step time: 1.0286  
Batch 164/248, train_loss: 0.2518, step time: 1.0318  
Batch 165/248, train_loss: 0.9973, step time: 1.0318  
Batch 166/248, train_loss: 0.3539, step time: 1.0327  
Batch 167/248, train_loss: 0.3939, step time: 1.0308  
Batch 168/248, train_loss: 0.2649, step time: 1.0309  
Batch 169/248, train_loss: 0.1050, step time: 1.0292  
Batch 170/248, train_loss: 0.9269, step time: 1.0277  
Batch 171/248, train_loss: 0.1051, step time: 1.0255  
Batch 172/248, train_loss: 0.9937, step time: 1.0268  
Batch 173/248, train_loss: 0.1119, step time: 1.0281  
Batch 174/248, train_loss: 0.9076, step time: 1.0294  
Batch 175/248, train_loss: 0.1962, step time: 1.0309  
Batch 176/248, train_loss: 0.4698, step time: 1.0318  
Batch 177/248, train_loss: 0.8751, step time: 1.0287  
Batch 178/248, train_loss: 0.2539, step time: 1.0300  
Batch 179/248, train_loss: 0.1071, step time: 1.0283  
Batch 180/248, train_loss: 0.3786, step time: 1.0303  
Batch 181/248, train_loss: 0.1286, step time: 1.0282  
Batch 182/248, train_loss: 0.9608, step time: 1.0267  
Batch 183/248, train_loss: 0.3710, step time: 1.0339  
Batch 184/248, train_loss: 0.8543, step time: 1.0327  
Batch 185/248, train_loss: 0.2138, step time: 1.0307  
Batch 186/248, train_loss: 0.1596, step time: 1.0356  
Batch 187/248, train_loss: 0.2753, step time: 1.0282  
Batch 188/248, train_loss: 0.3446, step time: 1.0306  
Batch 189/248, train_loss: 0.9767, step time: 1.0291  
Batch 190/248, train_loss: 0.1908, step time: 1.0310  
Batch 191/248, train_loss: 0.9652, step time: 1.0301  
Batch 192/248, train_loss: 0.3169, step time: 1.0295  
Batch 193/248, train_loss: 0.5281, step time: 1.0346  
Batch 194/248, train_loss: 0.1823, step time: 1.0328  
Batch 195/248, train_loss: 0.9626, step time: 1.0286  
Batch 196/248, train_loss: 0.9997, step time: 1.0226  
Batch 197/248, train_loss: 0.3899, step time: 1.0314  
Batch 198/248, train_loss: 0.9983, step time: 1.0268  
Batch 199/248, train_loss: 0.3336, step time: 1.0315  
Batch 200/248, train_loss: 0.2003, step time: 1.0330  
Batch 201/248, train_loss: 0.1681, step time: 1.0316  
Batch 202/248, train_loss: 0.4948, step time: 1.0303  
Batch 203/248, train_loss: 0.8971, step time: 1.0279  
Batch 204/248, train_loss: 0.0897, step time: 1.0269  
Batch 205/248, train_loss: 0.5480, step time: 1.0293  
Batch 206/248, train_loss: 0.8786, step time: 1.0340  
Batch 207/248, train_loss: 0.1429, step time: 1.0279  
Batch 208/248, train_loss: 0.2732, step time: 1.0319  
Batch 209/248, train_loss: 0.1977, step time: 1.0306  
Batch 210/248, train_loss: 0.0908, step time: 1.0305  
Batch 211/248, train_loss: 0.0825, step time: 1.0292  
Batch 212/248, train_loss: 0.4475, step time: 1.0318  
Batch 213/248, train_loss: 0.3014, step time: 1.0297  
Batch 214/248, train_loss: 0.1172, step time: 1.0329  
Batch 215/248, train_loss: 0.3591, step time: 1.0308  
Batch 216/248, train_loss: 0.1867, step time: 1.0290  
Batch 217/248, train_loss: 0.4995, step time: 1.0302  
Batch 218/248, train_loss: 0.9799, step time: 1.0292
```

```
Batch 219/248, train_loss: 0.1337, step time: 1.0320
Batch 220/248, train_loss: 0.3653, step time: 1.0309
Batch 221/248, train_loss: 0.4347, step time: 1.0308
Batch 222/248, train_loss: 0.2127, step time: 1.0292
Batch 223/248, train_loss: 0.0562, step time: 1.0248
Batch 224/248, train_loss: 0.0985, step time: 1.0276
Batch 225/248, train_loss: 0.9695, step time: 1.0281
Batch 226/248, train_loss: 0.5857, step time: 1.0293
Batch 227/248, train_loss: 0.1359, step time: 1.0289
Batch 228/248, train_loss: 0.3310, step time: 1.0280
Batch 229/248, train_loss: 0.1734, step time: 1.0292
Batch 230/248, train_loss: 0.1268, step time: 1.0295
Batch 231/248, train_loss: 0.9964, step time: 1.0257
Batch 232/248, train_loss: 0.1080, step time: 1.0343
Batch 233/248, train_loss: 0.9983, step time: 1.0236
Batch 234/248, train_loss: 0.8733, step time: 1.0322
Batch 235/248, train_loss: 0.8783, step time: 1.0343
Batch 236/248, train_loss: 0.9899, step time: 1.0291
Batch 237/248, train_loss: 0.1492, step time: 1.0378
Batch 238/248, train_loss: 0.1498, step time: 1.0301
Batch 239/248, train_loss: 0.0843, step time: 1.0279
Batch 240/248, train_loss: 0.4167, step time: 1.0301
Batch 241/248, train_loss: 0.9931, step time: 1.0254
Batch 242/248, train_loss: 0.4274, step time: 1.0390
Batch 243/248, train_loss: 0.9272, step time: 1.0314
Batch 244/248, train_loss: 0.7992, step time: 1.0307
Batch 245/248, train_loss: 0.0936, step time: 1.0319
Batch 246/248, train_loss: 0.8765, step time: 1.0301
Batch 247/248, train_loss: 0.0999, step time: 1.0265
Batch 248/248, train_loss: 1.0000, step time: 1.0146
```

Labels



Predictions



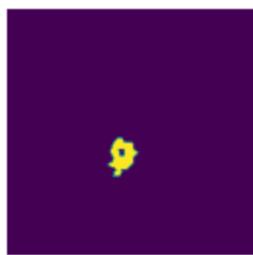
VAL

```
Batch 1/31, val_loss: 0.9087
Batch 2/31, val_loss: 0.9990
Batch 3/31, val_loss: 0.9860
```

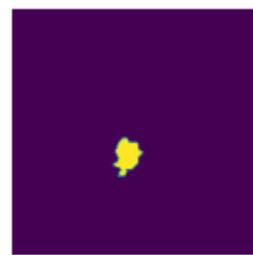
```
Batch 1/31, val_loss: 0.9809
Batch 4/31, val_loss: 0.9573
Batch 5/31, val_loss: 0.9991
Batch 6/31, val_loss: 0.6987
Batch 7/31, val_loss: 0.8523
Batch 8/31, val_loss: 0.9690
Batch 9/31, val_loss: 0.6995
Batch 10/31, val_loss: 0.9226
Batch 11/31, val_loss: 0.8484
Batch 12/31, val_loss: 0.9834
Batch 13/31, val_loss: 0.9930
Batch 14/31, val_loss: 0.9672
Batch 15/31, val_loss: 0.9951
Batch 16/31, val_loss: 0.9873
Batch 17/31, val_loss: 0.9923
Batch 18/31, val_loss: 0.9539
Batch 19/31, val_loss: 0.7767
Batch 20/31, val_loss: 0.9233
Batch 21/31, val_loss: 0.8898
Batch 22/31, val_loss: 0.9915
Batch 23/31, val_loss: 0.9957
Batch 24/31, val_loss: 0.7469
Batch 25/31, val_loss: 0.8139
Batch 26/31, val_loss: 0.9276
Batch 27/31, val_loss: 0.9947
Batch 28/31, val_loss: 0.7628
Batch 29/31, val_loss: 0.9965
Batch 30/31, val_loss: 0.9754
Batch 31/31, val_loss: 0.9786
```

Labels

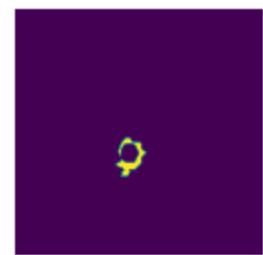
TC



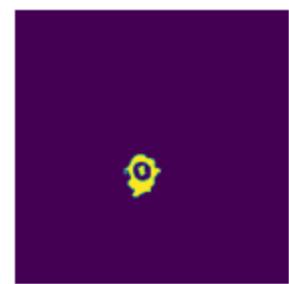
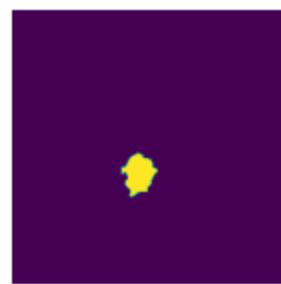
WT



ET



Predictions



epoch 19

```
average train loss: 0.4733
average validation loss: 0.9189
saved as best model: False
current mean dice: 0.3689
```

```
current TC dice: 0.3857
current WT dice: 0.3813
current ET dice: 0.3757
Best Mean Metric: 0.3817
time consuming of epoch 19 is: 1546.9885
-----
epoch 20/100
TRAIN
    Batch 1/248, train_loss: 0.0931, step time: 1.0308
    Batch 2/248, train_loss: 0.9597, step time: 1.0309
    Batch 3/248, train_loss: 0.6667, step time: 1.0327
    Batch 4/248, train_loss: 0.9960, step time: 1.0242
    Batch 5/248, train_loss: 0.3054, step time: 1.0316
    Batch 6/248, train_loss: 0.7964, step time: 1.0293
    Batch 7/248, train_loss: 0.0723, step time: 1.0318
    Batch 8/248, train_loss: 0.7367, step time: 1.0268
    Batch 9/248, train_loss: 0.0512, step time: 1.0258
    Batch 10/248, train_loss: 0.4146, step time: 1.0295
    Batch 11/248, train_loss: 0.3630, step time: 1.0329
    Batch 12/248, train_loss: 0.9012, step time: 1.0309
    Batch 13/248, train_loss: 0.7457, step time: 1.0318
    Batch 14/248, train_loss: 0.0596, step time: 1.0268
    Batch 15/248, train_loss: 0.4458, step time: 1.0318
    Batch 16/248, train_loss: 0.2298, step time: 1.0330
    Batch 17/248, train_loss: 0.8890, step time: 1.0291
    Batch 18/248, train_loss: 0.9044, step time: 1.0313
    Batch 19/248, train_loss: 0.1190, step time: 1.0323
    Batch 20/248, train_loss: 0.2145, step time: 1.0331
    Batch 21/248, train_loss: 0.0934, step time: 1.0297
    Batch 22/248, train_loss: 0.9975, step time: 1.0283
    Batch 23/248, train_loss: 0.9971, step time: 1.0240
    Batch 24/248, train_loss: 0.1221, step time: 1.0307
    Batch 25/248, train_loss: 0.1007, step time: 1.0349
    Batch 26/248, train_loss: 0.9189, step time: 1.0351
    Batch 27/248, train_loss: 0.0876, step time: 1.0289
    Batch 28/248, train_loss: 0.2411, step time: 1.0349
    Batch 29/248, train_loss: 0.8675, step time: 1.0322
    Batch 30/248, train_loss: 0.3164, step time: 1.0315
    Batch 31/248, train_loss: 0.4594, step time: 1.0340
    Batch 32/248, train_loss: 0.1043, step time: 1.0267
    Batch 33/248, train_loss: 0.0900, step time: 1.0280
    Batch 34/248, train_loss: 0.0646, step time: 1.0331
    Batch 35/248, train_loss: 0.0752, step time: 1.0265
    Batch 36/248, train_loss: 0.9763, step time: 1.0302
    Batch 37/248, train_loss: 0.2056, step time: 1.0285
    Batch 38/248, train_loss: 0.4366, step time: 1.0325
    Batch 39/248, train_loss: 0.2480, step time: 1.0308
    Batch 40/248, train_loss: 0.9942, step time: 1.0238
    Batch 41/248, train_loss: 0.2120, step time: 1.0298
    Batch 42/248, train_loss: 0.0934, step time: 1.0270
    Batch 43/248, train_loss: 0.0827, step time: 1.0285
    Batch 44/248, train_loss: 0.5327, step time: 1.0309
    Batch 45/248, train_loss: 0.5949, step time: 1.0347
    Batch 46/248, train_loss: 0.2321, step time: 1.0314
    Batch 47/248, train_loss: 0.1538, step time: 1.0340
    Batch 48/248, train_loss: 0.3586, step time: 1.0302
Batch 49/248, train_loss: 0.7602, step time: 1.0307
```

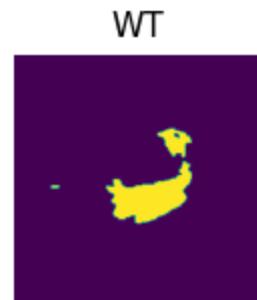
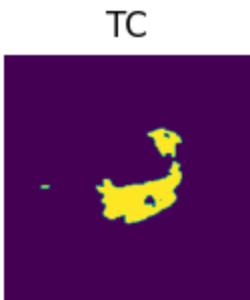
Batch 49/248, train_loss: 0.7692, step time: 1.0291
Batch 50/248, train_loss: 0.2369, step time: 1.0266
Batch 51/248, train_loss: 0.2824, step time: 1.0287
Batch 52/248, train_loss: 0.2005, step time: 1.0303
Batch 53/248, train_loss: 0.6399, step time: 1.0323
Batch 54/248, train_loss: 0.2879, step time: 1.0320
Batch 55/248, train_loss: 0.7160, step time: 1.0312
Batch 56/248, train_loss: 0.2760, step time: 1.0281
Batch 57/248, train_loss: 0.3968, step time: 1.0310
Batch 58/248, train_loss: 0.1121, step time: 1.0287
Batch 59/248, train_loss: 0.1300, step time: 1.0318
Batch 60/248, train_loss: 0.0833, step time: 1.0273
Batch 61/248, train_loss: 0.1313, step time: 1.0297
Batch 62/248, train_loss: 0.4468, step time: 1.0356
Batch 63/248, train_loss: 0.9368, step time: 1.0311
Batch 64/248, train_loss: 0.8128, step time: 1.0337
Batch 65/248, train_loss: 0.6895, step time: 1.0313
Batch 66/248, train_loss: 0.2649, step time: 1.0298
Batch 67/248, train_loss: 0.0878, step time: 1.0292
Batch 68/248, train_loss: 0.1727, step time: 1.0301
Batch 69/248, train_loss: 0.9678, step time: 1.0318
Batch 70/248, train_loss: 0.1562, step time: 1.0323
Batch 71/248, train_loss: 0.2053, step time: 1.0278
Batch 72/248, train_loss: 0.0906, step time: 1.0325
Batch 73/248, train_loss: 0.2501, step time: 1.0301
Batch 74/248, train_loss: 0.9989, step time: 1.0235
Batch 75/248, train_loss: 0.1600, step time: 1.0333
Batch 76/248, train_loss: 0.9155, step time: 1.0343
Batch 77/248, train_loss: 0.9965, step time: 1.0220
Batch 78/248, train_loss: 0.2188, step time: 1.0316
Batch 79/248, train_loss: 0.2087, step time: 1.0295
Batch 80/248, train_loss: 0.3597, step time: 1.0343
Batch 81/248, train_loss: 0.3922, step time: 1.0330
Batch 82/248, train_loss: 0.0981, step time: 1.0278
Batch 83/248, train_loss: 0.9270, step time: 1.0296
Batch 84/248, train_loss: 0.3224, step time: 1.0328
Batch 85/248, train_loss: 0.9574, step time: 1.0317
Batch 86/248, train_loss: 0.4909, step time: 1.0310
Batch 87/248, train_loss: 0.8226, step time: 1.0295
Batch 88/248, train_loss: 0.8205, step time: 1.0293
Batch 89/248, train_loss: 0.1648, step time: 1.0311
Batch 90/248, train_loss: 0.4559, step time: 1.0310
Batch 91/248, train_loss: 0.9199, step time: 1.0281
Batch 92/248, train_loss: 0.4545, step time: 1.0294
Batch 93/248, train_loss: 0.2239, step time: 1.0308
Batch 94/248, train_loss: 0.8023, step time: 1.0333
Batch 95/248, train_loss: 0.2206, step time: 1.0308
Batch 96/248, train_loss: 0.2398, step time: 1.0305
Batch 97/248, train_loss: 0.9944, step time: 1.0270
Batch 98/248, train_loss: 0.1503, step time: 1.0339
Batch 99/248, train_loss: 0.7029, step time: 1.0308
Batch 100/248, train_loss: 0.8556, step time: 1.0297
Batch 101/248, train_loss: 0.0552, step time: 1.0266
Batch 102/248, train_loss: 0.1856, step time: 1.0297
Batch 103/248, train_loss: 0.9304, step time: 1.0307
Batch 104/248, train_loss: 0.4448, step time: 1.0339
Batch 105/248, train_loss: 0.1091, step time: 1.0272

Batch 106/248, train_loss: 0.3135, step time: 1.0315
Batch 107/248, train_loss: 0.9023, step time: 1.0284
Batch 108/248, train_loss: 0.8716, step time: 1.0344
Batch 109/248, train_loss: 0.9932, step time: 1.0253
Batch 110/248, train_loss: 0.5152, step time: 1.0299
Batch 111/248, train_loss: 0.1253, step time: 1.0328
Batch 112/248, train_loss: 0.1489, step time: 1.0290
Batch 113/248, train_loss: 0.9954, step time: 1.0294
Batch 114/248, train_loss: 0.1770, step time: 1.0282
Batch 115/248, train_loss: 0.2698, step time: 1.0296
Batch 116/248, train_loss: 0.1054, step time: 1.0245
Batch 117/248, train_loss: 0.8790, step time: 1.0302
Batch 118/248, train_loss: 0.9477, step time: 1.0302
Batch 119/248, train_loss: 0.5216, step time: 1.0307
Batch 120/248, train_loss: 0.3788, step time: 1.0318
Batch 121/248, train_loss: 0.4104, step time: 1.0314
Batch 122/248, train_loss: 0.8101, step time: 1.0299
Batch 123/248, train_loss: 0.0863, step time: 1.0281
Batch 124/248, train_loss: 0.7292, step time: 1.0336
Batch 125/248, train_loss: 0.9657, step time: 1.0295
Batch 126/248, train_loss: 0.3227, step time: 1.0340
Batch 127/248, train_loss: 0.1591, step time: 1.0288
Batch 128/248, train_loss: 0.6158, step time: 1.0336
Batch 129/248, train_loss: 0.1081, step time: 1.0278
Batch 130/248, train_loss: 0.1389, step time: 1.0305
Batch 131/248, train_loss: 0.8487, step time: 1.0312
Batch 132/248, train_loss: 0.8063, step time: 1.0323
Batch 133/248, train_loss: 0.2061, step time: 1.0294
Batch 134/248, train_loss: 0.9971, step time: 1.0261
Batch 135/248, train_loss: 0.9424, step time: 1.0306
Batch 136/248, train_loss: 0.2331, step time: 1.0294
Batch 137/248, train_loss: 0.1326, step time: 1.0296
Batch 138/248, train_loss: 0.0951, step time: 1.0261
Batch 139/248, train_loss: 0.2285, step time: 1.0308
Batch 140/248, train_loss: 0.3061, step time: 1.0311
Batch 141/248, train_loss: 0.2936, step time: 1.0286
Batch 142/248, train_loss: 0.9461, step time: 1.0295
Batch 143/248, train_loss: 0.4493, step time: 1.0317
Batch 144/248, train_loss: 0.1271, step time: 1.0272
Batch 145/248, train_loss: 0.0679, step time: 1.0258
Batch 146/248, train_loss: 0.9971, step time: 1.0258
Batch 147/248, train_loss: 0.0501, step time: 1.0258
Batch 148/248, train_loss: 0.9435, step time: 1.0294
Batch 149/248, train_loss: 0.1825, step time: 1.0327
Batch 150/248, train_loss: 0.7223, step time: 1.0299
Batch 151/248, train_loss: 0.9038, step time: 1.0320
Batch 152/248, train_loss: 0.0664, step time: 1.0304
Batch 153/248, train_loss: 0.6115, step time: 1.0329
Batch 154/248, train_loss: 0.9439, step time: 1.0280
Batch 155/248, train_loss: 0.2680, step time: 1.0340
Batch 156/248, train_loss: 0.3077, step time: 1.0288
Batch 157/248, train_loss: 0.3788, step time: 1.0259
Batch 158/248, train_loss: 0.9971, step time: 1.0244
Batch 159/248, train_loss: 0.9410, step time: 1.0286
Batch 160/248, train_loss: 0.0960, step time: 1.0290
Batch 161/248, train_loss: 0.1261, step time: 1.0305

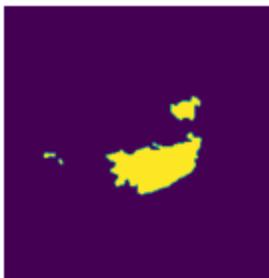
```
Batch 162/248, train_loss: 0.1518, step time: 1.0275
Batch 163/248, train_loss: 0.4761, step time: 1.0339
Batch 164/248, train_loss: 0.2197, step time: 1.0300
Batch 165/248, train_loss: 0.9970, step time: 1.0218
Batch 166/248, train_loss: 0.2742, step time: 1.0340
Batch 167/248, train_loss: 0.2992, step time: 1.0355
Batch 168/248, train_loss: 0.2693, step time: 1.0285
Batch 169/248, train_loss: 0.1074, step time: 1.0284
Batch 170/248, train_loss: 0.9692, step time: 1.0308
Batch 171/248, train_loss: 0.1031, step time: 1.0300
Batch 172/248, train_loss: 0.9833, step time: 1.0290
Batch 173/248, train_loss: 0.1252, step time: 1.0280
Batch 174/248, train_loss: 0.9065, step time: 1.0289
Batch 175/248, train_loss: 0.1786, step time: 1.0272
Batch 176/248, train_loss: 0.4592, step time: 1.0318
Batch 177/248, train_loss: 0.9063, step time: 1.0323
Batch 178/248, train_loss: 0.2401, step time: 1.0319
Batch 179/248, train_loss: 0.0916, step time: 1.0300
Batch 180/248, train_loss: 0.3973, step time: 1.0324
Batch 181/248, train_loss: 0.1292, step time: 1.0270
Batch 182/248, train_loss: 0.9648, step time: 1.0265
Batch 183/248, train_loss: 0.3035, step time: 1.0323
Batch 184/248, train_loss: 0.6946, step time: 1.0300
Batch 185/248, train_loss: 0.1968, step time: 1.0319
Batch 186/248, train_loss: 0.1448, step time: 1.0270
Batch 187/248, train_loss: 0.2457, step time: 1.0286
Batch 188/248, train_loss: 0.5483, step time: 1.0302
Batch 189/248, train_loss: 0.9755, step time: 1.0281
Batch 190/248, train_loss: 0.1701, step time: 1.0319
Batch 191/248, train_loss: 0.9421, step time: 1.0299
Batch 192/248, train_loss: 0.3602, step time: 1.0308
Batch 193/248, train_loss: 0.5054, step time: 1.0308
Batch 194/248, train_loss: 0.1554, step time: 1.0309
Batch 195/248, train_loss: 0.9608, step time: 1.0298
Batch 196/248, train_loss: 0.9997, step time: 1.0220
Batch 197/248, train_loss: 0.3319, step time: 1.0338
Batch 198/248, train_loss: 0.9984, step time: 1.0250
Batch 199/248, train_loss: 0.2081, step time: 1.0306
Batch 200/248, train_loss: 0.1759, step time: 1.0320
Batch 201/248, train_loss: 0.1570, step time: 1.0300
Batch 202/248, train_loss: 0.5033, step time: 1.0328
Batch 203/248, train_loss: 0.9173, step time: 1.0287
Batch 204/248, train_loss: 0.0927, step time: 1.0261
Batch 205/248, train_loss: 0.4839, step time: 1.0294
Batch 206/248, train_loss: 0.8771, step time: 1.0325
Batch 207/248, train_loss: 0.1119, step time: 1.0303
Batch 208/248, train_loss: 0.2322, step time: 1.0298
Batch 209/248, train_loss: 0.1971, step time: 1.0313
Batch 210/248, train_loss: 0.0813, step time: 1.0357
Batch 211/248, train_loss: 0.0802, step time: 1.0274
Batch 212/248, train_loss: 0.4525, step time: 1.0286
Batch 213/248, train_loss: 0.2757, step time: 1.0317
Batch 214/248, train_loss: 0.1041, step time: 1.0314
Batch 215/248, train_loss: 0.3267, step time: 1.0394
Batch 216/248, train_loss: 0.2333, step time: 1.0304
Batch 217/248, train_loss: 0.6391, step time: 1.0353
Batch 218/248, train_loss: 0.9592, step time: 1.0310
```

```
Batch 219/248, train_loss: 0.1389, step time: 1.0297
Batch 220/248, train_loss: 0.3292, step time: 1.0300
Batch 221/248, train_loss: 0.4045, step time: 1.0299
Batch 222/248, train_loss: 0.2630, step time: 1.0294
Batch 223/248, train_loss: 0.0575, step time: 1.0266
Batch 224/248, train_loss: 0.0971, step time: 1.0278
Batch 225/248, train_loss: 0.9508, step time: 1.0311
Batch 226/248, train_loss: 0.7964, step time: 1.0307
Batch 227/248, train_loss: 0.1342, step time: 1.0294
Batch 228/248, train_loss: 0.2880, step time: 1.0291
Batch 229/248, train_loss: 0.1690, step time: 1.0260
Batch 230/248, train_loss: 0.1104, step time: 1.0268
Batch 231/248, train_loss: 0.9944, step time: 1.0233
Batch 232/248, train_loss: 0.1120, step time: 1.0299
Batch 233/248, train_loss: 0.9973, step time: 1.0235
Batch 234/248, train_loss: 0.8243, step time: 1.0284
Batch 235/248, train_loss: 0.8153, step time: 1.0312
Batch 236/248, train_loss: 0.9885, step time: 1.0301
Batch 237/248, train_loss: 0.1583, step time: 1.0324
Batch 238/248, train_loss: 0.1320, step time: 1.0289
Batch 239/248, train_loss: 0.1192, step time: 1.0313
Batch 240/248, train_loss: 0.3583, step time: 1.0330
Batch 241/248, train_loss: 0.9949, step time: 1.0288
Batch 242/248, train_loss: 0.3781, step time: 1.0348
Batch 243/248, train_loss: 0.9394, step time: 1.0318
Batch 244/248, train_loss: 0.8094, step time: 1.0325
Batch 245/248, train_loss: 0.0987, step time: 1.0273
Batch 246/248, train_loss: 0.8257, step time: 1.0284
Batch 247/248, train_loss: 0.1016, step time: 1.0302
Batch 248/248, train_loss: 0.9999, step time: 1.0198
```

Labels



Predictions

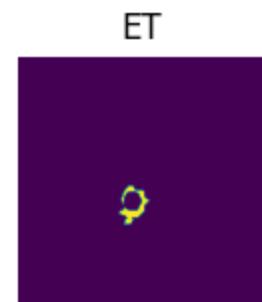
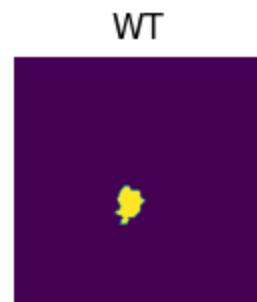
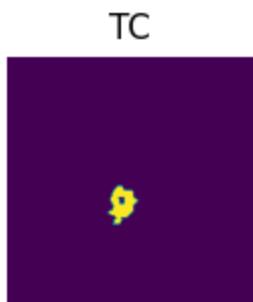


VAL

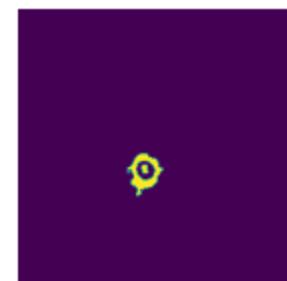
```
Batch 1/31, val_loss: 0.9450
Batch 2/31, val_loss: 0.9986
```

```
Batch 3/31, val_loss: 0.9841
Batch 4/31, val_loss: 0.9572
Batch 5/31, val_loss: 0.9981
Batch 6/31, val_loss: 0.7116
Batch 7/31, val_loss: 0.8435
Batch 8/31, val_loss: 0.9650
Batch 9/31, val_loss: 0.7081
Batch 10/31, val_loss: 0.9219
Batch 11/31, val_loss: 0.8399
Batch 12/31, val_loss: 0.9852
Batch 13/31, val_loss: 0.9931
Batch 14/31, val_loss: 0.9598
Batch 15/31, val_loss: 0.9943
Batch 16/31, val_loss: 0.9880
Batch 17/31, val_loss: 0.9914
Batch 18/31, val_loss: 0.9535
Batch 19/31, val_loss: 0.7708
Batch 20/31, val_loss: 0.9195
Batch 21/31, val_loss: 0.8864
Batch 22/31, val_loss: 0.9895
Batch 23/31, val_loss: 0.9909
Batch 24/31, val_loss: 0.7527
Batch 25/31, val_loss: 0.8103
Batch 26/31, val_loss: 0.9242
Batch 27/31, val_loss: 0.9913
Batch 28/31, val_loss: 0.7507
Batch 29/31, val_loss: 0.9965
Batch 30/31, val_loss: 0.9719
Batch 31/31, val_loss: 0.9786
```

Labels



Predictions



epoch 20

```
average train loss: 0.4578
average validation loss: 0.9184
saved as best model: False
current mean dice: 0.3741
```

current mean dice: 0.3817
current TC dice: 0.3915
current WT dice: 0.3885
current ET dice: 0.3786
Best Mean Metric: 0.3817
time consuming of epoch 20 is: 1548.5264

epoch 21/100
TRAIN

Batch 1/248, train_loss: 0.0844, step time: 1.0288
Batch 2/248, train_loss: 0.9577, step time: 1.0387
Batch 3/248, train_loss: 0.6446, step time: 1.0323
Batch 4/248, train_loss: 0.9948, step time: 1.0275
Batch 5/248, train_loss: 0.2951, step time: 1.0329
Batch 6/248, train_loss: 0.7743, step time: 1.0322
Batch 7/248, train_loss: 0.0773, step time: 1.0278
Batch 8/248, train_loss: 0.7324, step time: 1.0259
Batch 9/248, train_loss: 0.0517, step time: 1.0281
Batch 10/248, train_loss: 0.4049, step time: 1.0340
Batch 11/248, train_loss: 0.3227, step time: 1.0330
Batch 12/248, train_loss: 0.8917, step time: 1.0311
Batch 13/248, train_loss: 0.7175, step time: 1.0310
Batch 14/248, train_loss: 0.0646, step time: 1.0258
Batch 15/248, train_loss: 0.4627, step time: 1.0316
Batch 16/248, train_loss: 0.2319, step time: 1.0308
Batch 17/248, train_loss: 0.8938, step time: 1.0322
Batch 18/248, train_loss: 0.8371, step time: 1.0324
Batch 19/248, train_loss: 0.1046, step time: 1.0287
Batch 20/248, train_loss: 0.2206, step time: 1.0295
Batch 21/248, train_loss: 0.0827, step time: 1.0252
Batch 22/248, train_loss: 0.9972, step time: 1.0253
Batch 23/248, train_loss: 0.9969, step time: 1.0270
Batch 24/248, train_loss: 0.1027, step time: 1.0291
Batch 25/248, train_loss: 0.0908, step time: 1.0288
Batch 26/248, train_loss: 0.9315, step time: 1.0337
Batch 27/248, train_loss: 0.0864, step time: 1.0275
Batch 28/248, train_loss: 0.2120, step time: 1.0310
Batch 29/248, train_loss: 0.8223, step time: 1.0317
Batch 30/248, train_loss: 0.3293, step time: 1.0296
Batch 31/248, train_loss: 0.4307, step time: 1.0291
Batch 32/248, train_loss: 0.1069, step time: 1.0282
Batch 33/248, train_loss: 0.1010, step time: 1.0300
Batch 34/248, train_loss: 0.0555, step time: 1.0260
Batch 35/248, train_loss: 0.0655, step time: 1.0308
Batch 36/248, train_loss: 0.9797, step time: 1.0305
Batch 37/248, train_loss: 0.2037, step time: 1.0307
Batch 38/248, train_loss: 0.4128, step time: 1.0289
Batch 39/248, train_loss: 0.1812, step time: 1.0291
Batch 40/248, train_loss: 0.9898, step time: 1.0275
Batch 41/248, train_loss: 0.2321, step time: 1.0308
Batch 42/248, train_loss: 0.0827, step time: 1.0307
Batch 43/248, train_loss: 0.0855, step time: 1.0277
Batch 44/248, train_loss: 0.4865, step time: 1.0305
Batch 45/248, train_loss: 0.5367, step time: 1.0332
Batch 46/248, train_loss: 0.2420, step time: 1.0309
Batch 47/248, train_loss: 0.1360, step time: 1.0320
Batch 48/248, train_loss: 0.3334, step time: 1.0307

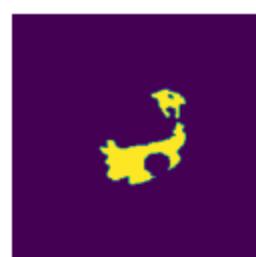
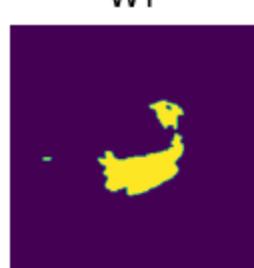
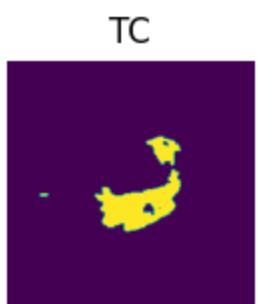
Batch 49/248, train_loss: 0.7323, step time: 1.0320
Batch 50/248, train_loss: 0.2279, step time: 1.0318
Batch 51/248, train_loss: 0.2057, step time: 1.0310
Batch 52/248, train_loss: 0.1884, step time: 1.0308
Batch 53/248, train_loss: 0.5730, step time: 1.0347
Batch 54/248, train_loss: 0.2798, step time: 1.0324
Batch 55/248, train_loss: 0.5150, step time: 1.0309
Batch 56/248, train_loss: 0.2667, step time: 1.0352
Batch 57/248, train_loss: 0.3215, step time: 1.0283
Batch 58/248, train_loss: 0.1019, step time: 1.0281
Batch 59/248, train_loss: 0.1138, step time: 1.0302
Batch 60/248, train_loss: 0.0817, step time: 1.0274
Batch 61/248, train_loss: 0.1286, step time: 1.0280
Batch 62/248, train_loss: 0.4164, step time: 1.0333
Batch 63/248, train_loss: 0.9500, step time: 1.0300
Batch 64/248, train_loss: 0.8353, step time: 1.0274
Batch 65/248, train_loss: 0.8421, step time: 1.0301
Batch 66/248, train_loss: 0.3070, step time: 1.0301
Batch 67/248, train_loss: 0.0912, step time: 1.0262
Batch 68/248, train_loss: 0.1866, step time: 1.0332
Batch 69/248, train_loss: 0.9423, step time: 1.0338
Batch 70/248, train_loss: 0.1430, step time: 1.0321
Batch 71/248, train_loss: 0.2006, step time: 1.0298
Batch 72/248, train_loss: 0.0774, step time: 1.0267
Batch 73/248, train_loss: 0.2743, step time: 1.0311
Batch 74/248, train_loss: 0.9994, step time: 1.0215
Batch 75/248, train_loss: 0.1644, step time: 1.0301
Batch 76/248, train_loss: 0.9067, step time: 1.0335
Batch 77/248, train_loss: 0.9929, step time: 1.0267
Batch 78/248, train_loss: 0.2308, step time: 1.0274
Batch 79/248, train_loss: 0.1976, step time: 1.0303
Batch 80/248, train_loss: 0.2867, step time: 1.0342
Batch 81/248, train_loss: 0.3411, step time: 1.0317
Batch 82/248, train_loss: 0.0958, step time: 1.0297
Batch 83/248, train_loss: 0.9115, step time: 1.0290
Batch 84/248, train_loss: 0.3280, step time: 1.0332
Batch 85/248, train_loss: 0.9489, step time: 1.0290
Batch 86/248, train_loss: 0.4456, step time: 1.0323
Batch 87/248, train_loss: 0.7242, step time: 1.0324
Batch 88/248, train_loss: 0.6475, step time: 1.0326
Batch 89/248, train_loss: 0.1359, step time: 1.0284
Batch 90/248, train_loss: 0.5089, step time: 1.0285
Batch 91/248, train_loss: 0.9143, step time: 1.0313
Batch 92/248, train_loss: 0.4822, step time: 1.0325
Batch 93/248, train_loss: 0.2080, step time: 1.0319
Batch 94/248, train_loss: 0.8144, step time: 1.0316
Batch 95/248, train_loss: 0.2080, step time: 1.0287
Batch 96/248, train_loss: 0.2154, step time: 1.0308
Batch 97/248, train_loss: 0.9827, step time: 1.0286
Batch 98/248, train_loss: 0.1384, step time: 1.0323
Batch 99/248, train_loss: 0.7502, step time: 1.0361
Batch 100/248, train_loss: 0.8664, step time: 1.0329
Batch 101/248, train_loss: 0.0589, step time: 1.0297
Batch 102/248, train_loss: 0.1979, step time: 1.0314
Batch 103/248, train_loss: 0.8945, step time: 1.0282
Batch 104/248, train_loss: 0.4366, step time: 1.0292
Batch 105/248, train_loss: 0.1101, step time: 1.0283

```
-----  
Batch 106/248, train_loss: 0.3416, step time: 1.0301  
Batch 107/248, train_loss: 0.9208, step time: 1.0301  
Batch 108/248, train_loss: 0.9007, step time: 1.0311  
Batch 109/248, train_loss: 0.9925, step time: 1.0277  
Batch 110/248, train_loss: 0.6856, step time: 1.0329  
Batch 111/248, train_loss: 0.1286, step time: 1.0305  
Batch 112/248, train_loss: 0.1265, step time: 1.0270  
Batch 113/248, train_loss: 0.9956, step time: 1.0305  
Batch 114/248, train_loss: 0.1709, step time: 1.0261  
Batch 115/248, train_loss: 0.3296, step time: 1.0296  
Batch 116/248, train_loss: 0.1079, step time: 1.0291  
Batch 117/248, train_loss: 0.9522, step time: 1.0292  
Batch 118/248, train_loss: 0.9682, step time: 1.0257  
Batch 119/248, train_loss: 0.4111, step time: 1.0283  
Batch 120/248, train_loss: 0.2998, step time: 1.0288  
Batch 121/248, train_loss: 0.4680, step time: 1.0328  
Batch 122/248, train_loss: 0.7171, step time: 1.0314  
Batch 123/248, train_loss: 0.0858, step time: 1.0303  
Batch 124/248, train_loss: 0.7703, step time: 1.0325  
Batch 125/248, train_loss: 0.9569, step time: 1.0311  
Batch 126/248, train_loss: 0.2536, step time: 1.0324  
Batch 127/248, train_loss: 0.1488, step time: 1.0340  
Batch 128/248, train_loss: 0.4989, step time: 0.9929  
Batch 129/248, train_loss: 0.1229, step time: 1.0301  
Batch 130/248, train_loss: 0.1397, step time: 1.0308  
Batch 131/248, train_loss: 0.8575, step time: 1.0296  
Batch 132/248, train_loss: 0.7942, step time: 1.0339  
Batch 133/248, train_loss: 0.1793, step time: 1.0283  
Batch 134/248, train_loss: 0.9960, step time: 1.0294  
Batch 135/248, train_loss: 0.9351, step time: 1.0274  
Batch 136/248, train_loss: 0.2109, step time: 1.0296  
Batch 137/248, train_loss: 0.1418, step time: 1.0262  
Batch 138/248, train_loss: 0.0903, step time: 1.0300  
Batch 139/248, train_loss: 0.2164, step time: 1.0290  
Batch 140/248, train_loss: 0.2721, step time: 1.0283  
Batch 141/248, train_loss: 0.2562, step time: 1.0319  
Batch 142/248, train_loss: 0.9114, step time: 1.0306  
Batch 143/248, train_loss: 0.4810, step time: 1.0308  
Batch 144/248, train_loss: 0.1327, step time: 1.0309  
Batch 145/248, train_loss: 0.0750, step time: 1.0264  
Batch 146/248, train_loss: 0.9910, step time: 1.0265  
Batch 147/248, train_loss: 0.0486, step time: 1.0256  
Batch 148/248, train_loss: 0.9381, step time: 1.0300  
Batch 149/248, train_loss: 0.1574, step time: 1.0319  
Batch 150/248, train_loss: 0.7183, step time: 1.0323  
Batch 151/248, train_loss: 0.9311, step time: 1.0290  
Batch 152/248, train_loss: 0.0520, step time: 1.0287  
Batch 153/248, train_loss: 0.5075, step time: 1.0334  
Batch 154/248, train_loss: 0.9209, step time: 1.0351  
Batch 155/248, train_loss: 0.2193, step time: 1.0309  
Batch 156/248, train_loss: 0.3674, step time: 1.0315  
Batch 157/248, train_loss: 0.3670, step time: 1.0265  
Batch 158/248, train_loss: 0.9969, step time: 1.0275  
Batch 159/248, train_loss: 0.8778, step time: 1.0342  
Batch 160/248, train_loss: 0.0982, step time: 1.0342  
Batch 161/248, train_loss: 0.1232, step time: 1.0339
```

Batch 162/248, train_loss: 0.1368, step time: 1.0297
Batch 163/248, train_loss: 0.4221, step time: 1.0324
Batch 164/248, train_loss: 0.2395, step time: 1.0278
Batch 165/248, train_loss: 0.9970, step time: 1.0230
Batch 166/248, train_loss: 0.3122, step time: 1.0302
Batch 167/248, train_loss: 0.3000, step time: 1.0317
Batch 168/248, train_loss: 0.2412, step time: 1.0306
Batch 169/248, train_loss: 0.1010, step time: 1.0349
Batch 170/248, train_loss: 0.8703, step time: 1.0323
Batch 171/248, train_loss: 0.0960, step time: 1.0299
Batch 172/248, train_loss: 0.9830, step time: 1.0280
Batch 173/248, train_loss: 0.1331, step time: 1.0288
Batch 174/248, train_loss: 0.8384, step time: 1.0309
Batch 175/248, train_loss: 0.1766, step time: 1.0306
Batch 176/248, train_loss: 0.4638, step time: 1.0298
Batch 177/248, train_loss: 0.7747, step time: 1.0322
Batch 178/248, train_loss: 0.5538, step time: 1.0324
Batch 179/248, train_loss: 0.0938, step time: 1.0309
Batch 180/248, train_loss: 0.4177, step time: 1.0307
Batch 181/248, train_loss: 0.1215, step time: 1.0269
Batch 182/248, train_loss: 0.9325, step time: 1.0268
Batch 183/248, train_loss: 0.5182, step time: 1.0338
Batch 184/248, train_loss: 0.7807, step time: 1.0327
Batch 185/248, train_loss: 0.1859, step time: 1.0313
Batch 186/248, train_loss: 0.1796, step time: 1.0285
Batch 187/248, train_loss: 0.2539, step time: 1.0300
Batch 188/248, train_loss: 0.2810, step time: 1.0341
Batch 189/248, train_loss: 0.9647, step time: 1.0289
Batch 190/248, train_loss: 0.1819, step time: 1.0310
Batch 191/248, train_loss: 0.9270, step time: 1.0295
Batch 192/248, train_loss: 0.3189, step time: 1.0298
Batch 193/248, train_loss: 0.4581, step time: 1.0334
Batch 194/248, train_loss: 0.1397, step time: 1.0300
Batch 195/248, train_loss: 0.9495, step time: 1.0312
Batch 196/248, train_loss: 0.9995, step time: 1.0228
Batch 197/248, train_loss: 0.3369, step time: 1.0327
Batch 198/248, train_loss: 0.9972, step time: 1.0285
Batch 199/248, train_loss: 0.2164, step time: 1.0303
Batch 200/248, train_loss: 0.1547, step time: 1.0288
Batch 201/248, train_loss: 0.1529, step time: 1.0317
Batch 202/248, train_loss: 0.4410, step time: 1.0357
Batch 203/248, train_loss: 0.8555, step time: 1.0406
Batch 204/248, train_loss: 0.1004, step time: 1.0297
Batch 205/248, train_loss: 0.4366, step time: 1.0280
Batch 206/248, train_loss: 0.8430, step time: 1.0328
Batch 207/248, train_loss: 0.0946, step time: 1.0272
Batch 208/248, train_loss: 0.2446, step time: 1.0294
Batch 209/248, train_loss: 0.1631, step time: 1.0315
Batch 210/248, train_loss: 0.0847, step time: 1.0297
Batch 211/248, train_loss: 0.0825, step time: 1.0305
Batch 212/248, train_loss: 0.4586, step time: 1.0333
Batch 213/248, train_loss: 0.3053, step time: 1.0320
Batch 214/248, train_loss: 0.0950, step time: 1.0298
Batch 215/248, train_loss: 0.3245, step time: 1.0332
Batch 216/248, train_loss: 0.2193, step time: 1.0314
Batch 217/248, train_loss: 0.4666, step time: 1.0330
Batch 218/248, train_loss: 0.9641, step time: 1.0303

Batch 219/248, train_loss: 0.0899, step time: 1.0304
Batch 220/248, train_loss: 0.3287, step time: 1.0337
Batch 221/248, train_loss: 0.3962, step time: 1.0317
Batch 222/248, train_loss: 0.2448, step time: 1.0326
Batch 223/248, train_loss: 0.0510, step time: 1.0257
Batch 224/248, train_loss: 0.0956, step time: 1.0293
Batch 225/248, train_loss: 0.9536, step time: 1.0264
Batch 226/248, train_loss: 0.4731, step time: 1.0318
Batch 227/248, train_loss: 0.1220, step time: 1.0332
Batch 228/248, train_loss: 0.2933, step time: 1.0329
Batch 229/248, train_loss: 0.2362, step time: 1.0269
Batch 230/248, train_loss: 0.1057, step time: 1.0332
Batch 231/248, train_loss: 0.9781, step time: 1.0302
Batch 232/248, train_loss: 0.1047, step time: 1.0303
Batch 233/248, train_loss: 0.9985, step time: 1.0258
Batch 234/248, train_loss: 0.8364, step time: 1.0302
Batch 235/248, train_loss: 0.8115, step time: 1.0340
Batch 236/248, train_loss: 0.9816, step time: 1.0289
Batch 237/248, train_loss: 0.1352, step time: 1.0301
Batch 238/248, train_loss: 0.1384, step time: 1.0287
Batch 239/248, train_loss: 0.1216, step time: 1.0290
Batch 240/248, train_loss: 0.3955, step time: 1.0301
Batch 241/248, train_loss: 0.9870, step time: 1.0277
Batch 242/248, train_loss: 0.4253, step time: 1.0344
Batch 243/248, train_loss: 0.9116, step time: 1.0317
Batch 244/248, train_loss: 0.7610, step time: 1.0294
Batch 245/248, train_loss: 0.0873, step time: 1.0286
Batch 246/248, train_loss: 0.7561, step time: 1.0300
Batch 247/248, train_loss: 0.1204, step time: 1.0285
Batch 248/248, train loss: 1.0000, step time: 1.0180

Labels



Predictions



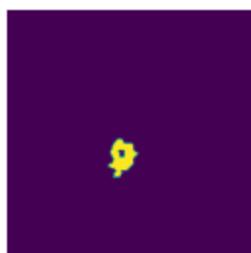
VAL

```
Batch 1/31, val_loss: 0.9307  
Batch 2/31, val_loss: 0.9986
```

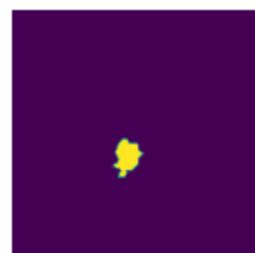
```
Batch 3/31, val_loss: 0.9851
Batch 4/31, val_loss: 0.9552
Batch 5/31, val_loss: 0.9989
Batch 6/31, val_loss: 0.7131
Batch 7/31, val_loss: 0.8395
Batch 8/31, val_loss: 0.9648
Batch 9/31, val_loss: 0.7039
Batch 10/31, val_loss: 0.9176
Batch 11/31, val_loss: 0.8396
Batch 12/31, val_loss: 0.9841
Batch 13/31, val_loss: 0.9943
Batch 14/31, val_loss: 0.9602
Batch 15/31, val_loss: 0.9933
Batch 16/31, val_loss: 0.9830
Batch 17/31, val_loss: 0.9900
Batch 18/31, val_loss: 0.9437
Batch 19/31, val_loss: 0.7721
Batch 20/31, val_loss: 0.9037
Batch 21/31, val_loss: 0.8881
Batch 22/31, val_loss: 0.9899
Batch 23/31, val_loss: 0.9923
Batch 24/31, val_loss: 0.7586
Batch 25/31, val_loss: 0.8103
Batch 26/31, val_loss: 0.9239
Batch 27/31, val_loss: 0.9923
Batch 28/31, val_loss: 0.7521
Batch 29/31, val_loss: 0.9932
Batch 30/31, val_loss: 0.9748
Batch 31/31, val_loss: 0.9777
```

Labels

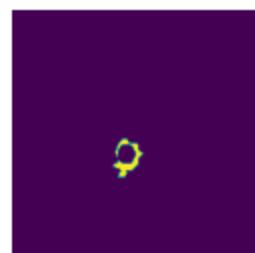
TC



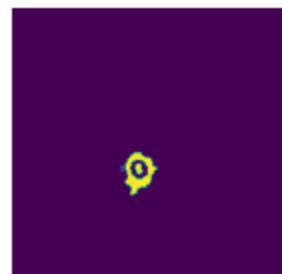
WT



ET



Predictions



epoch 21

```
average train loss: 0.4472
average validation loss: 0.9169
saved as best model: True
```

```
current mean dice: 0.4039
current TC dice: 0.4285
current WT dice: 0.4246
current ET dice: 0.3962
Best Mean Metric: 0.4039
time consuming of epoch 21 is: 1551.1151
-----
epoch 22/100
TRAIN
    Batch 1/248, train_loss: 0.0983, step time: 1.0288
    Batch 2/248, train_loss: 0.9400, step time: 1.0324
    Batch 3/248, train_loss: 0.6365, step time: 1.0324
    Batch 4/248, train_loss: 0.9951, step time: 1.0258
    Batch 5/248, train_loss: 0.2837, step time: 1.0318
    Batch 6/248, train_loss: 0.7884, step time: 1.0279
    Batch 7/248, train_loss: 0.0755, step time: 1.0274
    Batch 8/248, train_loss: 0.7382, step time: 1.0336
    Batch 9/248, train_loss: 0.0499, step time: 1.0316
    Batch 10/248, train_loss: 0.3779, step time: 1.0338
    Batch 11/248, train_loss: 0.3383, step time: 1.0335
    Batch 12/248, train_loss: 0.9117, step time: 1.0337
    Batch 13/248, train_loss: 0.6926, step time: 1.0335
    Batch 14/248, train_loss: 0.0586, step time: 1.0281
    Batch 15/248, train_loss: 0.3940, step time: 1.0337
    Batch 16/248, train_loss: 0.1962, step time: 1.0314
    Batch 17/248, train_loss: 0.8845, step time: 1.0310
    Batch 18/248, train_loss: 0.8331, step time: 1.0277
    Batch 19/248, train_loss: 0.1294, step time: 1.0274
    Batch 20/248, train_loss: 0.2575, step time: 1.0299
    Batch 21/248, train_loss: 0.0832, step time: 1.0273
    Batch 22/248, train_loss: 0.9956, step time: 1.0277
    Batch 23/248, train_loss: 0.9961, step time: 1.0251
    Batch 24/248, train_loss: 0.1289, step time: 1.0364
    Batch 25/248, train_loss: 0.1119, step time: 1.0320
    Batch 26/248, train_loss: 0.9364, step time: 1.0333
    Batch 27/248, train_loss: 0.0906, step time: 1.0288
    Batch 28/248, train_loss: 0.2083, step time: 1.0311
    Batch 29/248, train_loss: 0.8561, step time: 1.0332
    Batch 30/248, train_loss: 0.3492, step time: 1.0334
    Batch 31/248, train_loss: 0.4630, step time: 1.0336
    Batch 32/248, train_loss: 0.0973, step time: 1.0317
    Batch 33/248, train_loss: 0.0856, step time: 1.0313
    Batch 34/248, train_loss: 0.0600, step time: 1.0294
    Batch 35/248, train_loss: 0.0721, step time: 1.0281
    Batch 36/248, train_loss: 0.9883, step time: 1.0279
    Batch 37/248, train_loss: 0.1870, step time: 1.0269
    Batch 38/248, train_loss: 0.4011, step time: 1.0288
    Batch 39/248, train_loss: 0.2138, step time: 1.0272
    Batch 40/248, train_loss: 0.9973, step time: 1.0226
    Batch 41/248, train_loss: 0.1757, step time: 1.0263
    Batch 42/248, train_loss: 0.0893, step time: 1.0284
    Batch 43/248, train_loss: 0.0757, step time: 1.0257
    Batch 44/248, train_loss: 0.5988, step time: 1.0306
    Batch 45/248, train_loss: 0.4971, step time: 1.0363
    Batch 46/248, train_loss: 0.2409, step time: 1.0337
    Batch 47/248, train_loss: 0.1284, step time: 1.0312
    Batch 48/248, train_loss: 0.3031, step time: 1.0334
```

Batch 49/248, train_loss: 0.7404, step time: 1.0309
Batch 50/248, train_loss: 0.2122, step time: 1.0313
Batch 51/248, train_loss: 0.2225, step time: 1.0326
Batch 52/248, train_loss: 0.1805, step time: 1.0341
Batch 53/248, train_loss: 0.5333, step time: 1.0364
Batch 54/248, train_loss: 0.2637, step time: 1.0321
Batch 55/248, train_loss: 0.5874, step time: 1.0330
Batch 56/248, train_loss: 0.3430, step time: 1.0295
Batch 57/248, train_loss: 0.3077, step time: 1.0310
Batch 58/248, train_loss: 0.1018, step time: 1.0269
Batch 59/248, train_loss: 0.1161, step time: 1.0260
Batch 60/248, train_loss: 0.0715, step time: 1.0300
Batch 61/248, train_loss: 0.1205, step time: 1.0262
Batch 62/248, train_loss: 0.3910, step time: 1.0328
Batch 63/248, train_loss: 0.9509, step time: 1.0298
Batch 64/248, train_loss: 0.7504, step time: 1.0305
Batch 65/248, train_loss: 0.6927, step time: 1.0307
Batch 66/248, train_loss: 0.2387, step time: 1.0292
Batch 67/248, train_loss: 0.0860, step time: 1.0303
Batch 68/248, train_loss: 0.1799, step time: 1.0303
Batch 69/248, train_loss: 0.8975, step time: 1.0355
Batch 70/248, train_loss: 0.1487, step time: 1.0316
Batch 71/248, train_loss: 0.2015, step time: 1.0324
Batch 72/248, train_loss: 0.0750, step time: 1.0291
Batch 73/248, train_loss: 0.2572, step time: 1.0270
Batch 74/248, train_loss: 0.9989, step time: 1.0246
Batch 75/248, train_loss: 0.1566, step time: 1.0306
Batch 76/248, train_loss: 0.8693, step time: 1.0327
Batch 77/248, train_loss: 0.9902, step time: 1.0273
Batch 78/248, train_loss: 0.1961, step time: 1.0312
Batch 79/248, train_loss: 0.1544, step time: 1.0308
Batch 80/248, train_loss: 0.2805, step time: 1.0337
Batch 81/248, train_loss: 0.3200, step time: 1.0319
Batch 82/248, train_loss: 0.0904, step time: 1.0313
Batch 83/248, train_loss: 0.9331, step time: 1.0327
Batch 84/248, train_loss: 0.3364, step time: 1.0357
Batch 85/248, train_loss: 0.9287, step time: 1.0272
Batch 86/248, train_loss: 0.3708, step time: 1.0290
Batch 87/248, train_loss: 0.7602, step time: 1.0345
Batch 88/248, train_loss: 0.6890, step time: 1.0312
Batch 89/248, train_loss: 0.1193, step time: 1.0305
Batch 90/248, train_loss: 0.4649, step time: 1.0326
Batch 91/248, train_loss: 0.8950, step time: 1.0282
Batch 92/248, train_loss: 0.6671, step time: 0.9911
Batch 93/248, train_loss: 0.1996, step time: 1.0274
Batch 94/248, train_loss: 0.7907, step time: 1.0381
Batch 95/248, train_loss: 0.1999, step time: 1.0272
Batch 96/248, train_loss: 0.4106, step time: 1.0293
Batch 97/248, train_loss: 0.9831, step time: 1.0313
Batch 98/248, train_loss: 0.1567, step time: 1.0327
Batch 99/248, train_loss: 0.6071, step time: 1.0291
Batch 100/248, train_loss: 0.8153, step time: 1.0344
Batch 101/248, train_loss: 0.0545, step time: 1.0261
Batch 102/248, train_loss: 0.1779, step time: 1.0298
Batch 103/248, train_loss: 0.9068, step time: 1.0308
Batch 104/248, train_loss: 0.3556, step time: 1.0287

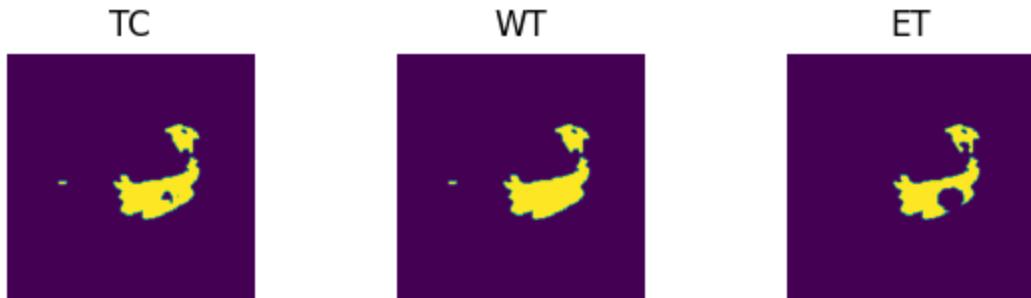
Batch 105/248, train_loss: 0.0000, step time: 1.0202

```
Batch 105/248, train_loss: 0.0989, step time: 1.0302
Batch 106/248, train_loss: 0.2611, step time: 1.0282
Batch 107/248, train_loss: 0.8408, step time: 1.0263
Batch 108/248, train_loss: 0.8763, step time: 1.0292
Batch 109/248, train_loss: 0.9907, step time: 1.0238
Batch 110/248, train_loss: 0.5281, step time: 1.0294
Batch 111/248, train_loss: 0.1201, step time: 1.0284
Batch 112/248, train_loss: 0.1534, step time: 1.0309
Batch 113/248, train_loss: 0.9939, step time: 1.0270
Batch 114/248, train_loss: 0.1681, step time: 1.0300
Batch 115/248, train_loss: 0.2491, step time: 1.0314
Batch 116/248, train_loss: 0.0960, step time: 1.0299
Batch 117/248, train_loss: 0.9175, step time: 1.0331
Batch 118/248, train_loss: 0.9395, step time: 1.0272
Batch 119/248, train_loss: 0.3909, step time: 1.0316
Batch 120/248, train_loss: 0.2848, step time: 1.0314
Batch 121/248, train_loss: 0.4113, step time: 1.0345
Batch 122/248, train_loss: 0.6993, step time: 1.0317
Batch 123/248, train_loss: 0.0921, step time: 1.0289
Batch 124/248, train_loss: 0.6458, step time: 1.0323
Batch 125/248, train_loss: 0.9516, step time: 1.0303
Batch 126/248, train_loss: 0.3504, step time: 1.0322
Batch 127/248, train_loss: 0.1287, step time: 1.0303
Batch 128/248, train_loss: 0.5824, step time: 1.0363
Batch 129/248, train_loss: 0.1211, step time: 1.0278
Batch 130/248, train_loss: 0.1495, step time: 1.0278
Batch 131/248, train_loss: 0.7846, step time: 1.0289
Batch 132/248, train_loss: 0.7709, step time: 1.0316
Batch 133/248, train_loss: 0.1944, step time: 1.0297
Batch 134/248, train_loss: 0.9881, step time: 1.0279
Batch 135/248, train_loss: 0.8159, step time: 1.0323
Batch 136/248, train_loss: 0.1823, step time: 1.0270
Batch 137/248, train_loss: 0.1641, step time: 1.0284
Batch 138/248, train_loss: 0.0853, step time: 1.0288
Batch 139/248, train_loss: 0.2980, step time: 1.0328
Batch 140/248, train_loss: 0.2564, step time: 1.0315
Batch 141/248, train_loss: 0.3005, step time: 1.0296
Batch 142/248, train_loss: 0.8601, step time: 1.0297
Batch 143/248, train_loss: 0.4368, step time: 1.0331
Batch 144/248, train_loss: 0.1311, step time: 1.0273
Batch 145/248, train_loss: 0.0545, step time: 1.0246
Batch 146/248, train_loss: 0.9919, step time: 1.0270
Batch 147/248, train_loss: 0.0540, step time: 1.0284
Batch 148/248, train_loss: 0.9374, step time: 1.0278
Batch 149/248, train_loss: 0.1905, step time: 1.0313
Batch 150/248, train_loss: 0.7428, step time: 1.0298
Batch 151/248, train_loss: 0.9452, step time: 1.0243
Batch 152/248, train_loss: 0.0617, step time: 1.0295
Batch 153/248, train_loss: 0.6093, step time: 1.0307
Batch 154/248, train_loss: 0.9499, step time: 1.0273
Batch 155/248, train_loss: 0.2952, step time: 1.0324
Batch 156/248, train_loss: 0.2614, step time: 1.0313
Batch 157/248, train_loss: 0.3635, step time: 1.0273
Batch 158/248, train_loss: 0.9983, step time: 1.0259
Batch 159/248, train_loss: 0.9612, step time: 1.0420
Batch 160/248, train_loss: 0.1028, step time: 1.0311
Batch 161/248, train_loss: 0.1175, step time: 1.0264
```

Batch 162/248, train_loss: 0.1114, step time: 1.0299
Batch 163/248, train_loss: 0.4121, step time: 1.0331
Batch 164/248, train_loss: 0.2414, step time: 1.0289
Batch 165/248, train_loss: 0.9963, step time: 1.0240
Batch 166/248, train_loss: 0.2182, step time: 1.0290
Batch 167/248, train_loss: 0.2906, step time: 1.0285
Batch 168/248, train_loss: 0.2452, step time: 1.0309
Batch 169/248, train_loss: 0.0953, step time: 1.0256
Batch 170/248, train_loss: 0.9238, step time: 1.0296
Batch 171/248, train_loss: 0.1006, step time: 1.0267
Batch 172/248, train_loss: 0.9872, step time: 1.0278
Batch 173/248, train_loss: 0.1160, step time: 1.0274
Batch 174/248, train_loss: 0.8060, step time: 1.0320
Batch 175/248, train_loss: 0.1992, step time: 1.0276
Batch 176/248, train_loss: 0.4527, step time: 1.0314
Batch 177/248, train_loss: 0.7321, step time: 1.0324
Batch 178/248, train_loss: 0.3116, step time: 1.0320
Batch 179/248, train_loss: 0.0976, step time: 1.0312
Batch 180/248, train_loss: 0.3756, step time: 1.0304
Batch 181/248, train_loss: 0.1259, step time: 1.0292
Batch 182/248, train_loss: 0.9358, step time: 1.0263
Batch 183/248, train_loss: 0.2593, step time: 1.0314
Batch 184/248, train_loss: 0.8285, step time: 1.0282
Batch 185/248, train_loss: 0.1664, step time: 1.0279
Batch 186/248, train_loss: 0.1495, step time: 1.0257
Batch 187/248, train_loss: 0.2687, step time: 1.0281
Batch 188/248, train_loss: 0.2928, step time: 1.0315
Batch 189/248, train_loss: 0.9670, step time: 1.0290
Batch 190/248, train_loss: 0.1657, step time: 1.0268
Batch 191/248, train_loss: 0.8788, step time: 1.0289
Batch 192/248, train_loss: 0.3442, step time: 1.0286
Batch 193/248, train_loss: 0.4042, step time: 1.0324
Batch 194/248, train_loss: 0.1382, step time: 1.0292
Batch 195/248, train_loss: 0.9807, step time: 1.0309
Batch 196/248, train_loss: 0.9990, step time: 1.0226
Batch 197/248, train_loss: 0.2925, step time: 1.0312
Batch 198/248, train_loss: 0.9958, step time: 1.0264
Batch 199/248, train_loss: 0.2177, step time: 1.0306
Batch 200/248, train_loss: 0.1688, step time: 1.0287
Batch 201/248, train_loss: 0.1426, step time: 1.0236
Batch 202/248, train_loss: 0.4137, step time: 1.0281
Batch 203/248, train_loss: 0.8487, step time: 1.0301
Batch 204/248, train_loss: 0.0880, step time: 1.0260
Batch 205/248, train_loss: 0.4332, step time: 1.0306
Batch 206/248, train_loss: 0.8448, step time: 1.0320
Batch 207/248, train_loss: 0.1083, step time: 1.0271
Batch 208/248, train_loss: 0.1998, step time: 1.0305
Batch 209/248, train_loss: 0.2055, step time: 1.0273
Batch 210/248, train_loss: 0.0751, step time: 1.0294
Batch 211/248, train_loss: 0.0765, step time: 1.0258
Batch 212/248, train_loss: 0.5936, step time: 1.0282
Batch 213/248, train_loss: 0.2530, step time: 1.0269
Batch 214/248, train_loss: 0.0891, step time: 1.0289
Batch 215/248, train_loss: 0.2798, step time: 1.0294
Batch 216/248, train_loss: 0.2047, step time: 1.0272
Batch 217/248, train_loss: 0.4773, step time: 1.0334
Batch 218/248, train_loss: 0.0017, step time: 1.0222

Batch 210/248, train_loss: 0.9917, step time: 1.0329
Batch 219/248, train_loss: 0.1335, step time: 1.0329
Batch 220/248, train_loss: 0.2974, step time: 1.0336
Batch 221/248, train_loss: 0.3699, step time: 1.0305
Batch 222/248, train_loss: 0.3245, step time: 1.0315
Batch 223/248, train_loss: 0.0517, step time: 1.0302
Batch 224/248, train_loss: 0.0918, step time: 1.0235
Batch 225/248, train_loss: 0.9313, step time: 1.0287
Batch 226/248, train_loss: 0.7436, step time: 1.0312
Batch 227/248, train_loss: 0.1115, step time: 1.0252
Batch 228/248, train_loss: 0.2343, step time: 1.0275
Batch 229/248, train_loss: 0.1552, step time: 1.0291
Batch 230/248, train_loss: 0.1129, step time: 1.0284
Batch 231/248, train_loss: 0.9909, step time: 1.0279
Batch 232/248, train_loss: 0.1093, step time: 1.0266
Batch 233/248, train_loss: 0.9961, step time: 1.0235
Batch 234/248, train_loss: 0.7822, step time: 1.0298
Batch 235/248, train_loss: 0.7906, step time: 1.0323
Batch 236/248, train_loss: 0.9825, step time: 1.0309
Batch 237/248, train_loss: 0.1525, step time: 1.0277
Batch 238/248, train_loss: 0.1148, step time: 1.0299
Batch 239/248, train_loss: 0.1353, step time: 1.0281
Batch 240/248, train_loss: 0.3955, step time: 1.0296
Batch 241/248, train_loss: 0.9914, step time: 1.0311
Batch 242/248, train_loss: 0.3948, step time: 1.0306
Batch 243/248, train_loss: 0.9090, step time: 1.0294
Batch 244/248, train_loss: 0.8124, step time: 1.0319
Batch 245/248, train_loss: 0.0872, step time: 1.0292
Batch 246/248, train_loss: 0.7150, step time: 1.0288
Batch 247/248, train_loss: 0.1207, step time: 1.0287
Batch 248/248, train_loss: 0.9999, step time: 1.0187

Labels



Predictions



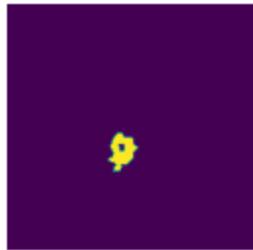
VAL

Batch 1/31, val_loss: 0.9480
Batch 2/31, val loss: 0.9961

```
Batch 3/31, val_loss: 0.9792
Batch 4/31, val_loss: 0.9502
Batch 5/31, val_loss: 0.9960
Batch 6/31, val_loss: 0.7123
Batch 7/31, val_loss: 0.8398
Batch 8/31, val_loss: 0.9572
Batch 9/31, val_loss: 0.7067
Batch 10/31, val_loss: 0.9183
Batch 11/31, val_loss: 0.8364
Batch 12/31, val_loss: 0.9824
Batch 13/31, val_loss: 0.9904
Batch 14/31, val_loss: 0.9525
Batch 15/31, val_loss: 0.9913
Batch 16/31, val_loss: 0.9789
Batch 17/31, val_loss: 0.9845
Batch 18/31, val_loss: 0.9501
Batch 19/31, val_loss: 0.7637
Batch 20/31, val_loss: 0.8896
Batch 21/31, val_loss: 0.8819
Batch 22/31, val_loss: 0.9890
Batch 23/31, val_loss: 0.9866
Batch 24/31, val_loss: 0.7531
Batch 25/31, val_loss: 0.8083
Batch 26/31, val_loss: 0.9225
Batch 27/31, val_loss: 0.9859
Batch 28/31, val_loss: 0.7561
Batch 29/31, val_loss: 0.9949
Batch 30/31, val_loss: 0.9670
Batch 31/31, val_loss: 0.9821
```

Labels

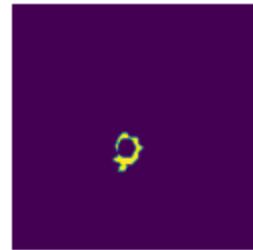
TC



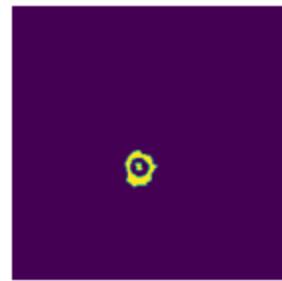
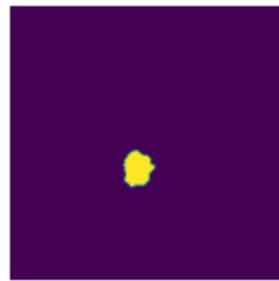
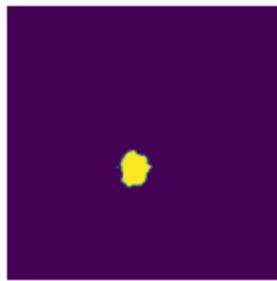
WT



ET



Predictions



epoch 22

```
average train loss: 0.4402
average validation loss: 0.9146
saved as best model: True
```

```
current mean dice: 0.4178
current TC dice: 0.4353
current WT dice: 0.4339
current ET dice: 0.4245
Best Mean Metric: 0.4178
time consuming of epoch 22 is: 1551.7630
-----
epoch 23/100
TRAIN
    Batch 1/248, train_loss: 0.1056, step time: 1.0291
    Batch 2/248, train_loss: 0.9236, step time: 1.0315
    Batch 3/248, train_loss: 0.5375, step time: 1.0295
    Batch 4/248, train_loss: 0.9944, step time: 1.0274
    Batch 5/248, train_loss: 0.2658, step time: 1.0280
    Batch 6/248, train_loss: 0.7927, step time: 1.0269
    Batch 7/248, train_loss: 0.0684, step time: 1.0289
    Batch 8/248, train_loss: 0.7288, step time: 1.0262
    Batch 9/248, train_loss: 0.0503, step time: 1.0278
    Batch 10/248, train_loss: 0.3717, step time: 1.0318
    Batch 11/248, train_loss: 0.3114, step time: 1.0302
    Batch 12/248, train_loss: 0.8246, step time: 1.0338
    Batch 13/248, train_loss: 0.6398, step time: 1.0313
    Batch 14/248, train_loss: 0.0553, step time: 1.0281
    Batch 15/248, train_loss: 0.4031, step time: 1.0284
    Batch 16/248, train_loss: 0.2010, step time: 1.0305
    Batch 17/248, train_loss: 0.8693, step time: 1.0258
    Batch 18/248, train_loss: 0.7970, step time: 1.0300
    Batch 19/248, train_loss: 0.1070, step time: 1.0260
    Batch 20/248, train_loss: 0.2114, step time: 1.0321
    Batch 21/248, train_loss: 0.0719, step time: 1.0246
    Batch 22/248, train_loss: 0.9970, step time: 1.0253
    Batch 23/248, train_loss: 0.9966, step time: 1.0252
    Batch 24/248, train_loss: 0.0938, step time: 1.0296
    Batch 25/248, train_loss: 0.1011, step time: 1.0269
    Batch 26/248, train_loss: 0.9435, step time: 1.0323
    Batch 27/248, train_loss: 0.0869, step time: 1.0272
    Batch 28/248, train_loss: 0.2182, step time: 1.0303
    Batch 29/248, train_loss: 0.7497, step time: 1.0328
    Batch 30/248, train_loss: 0.7509, step time: 1.0322
    Batch 31/248, train_loss: 0.5005, step time: 1.0331
    Batch 32/248, train_loss: 0.0956, step time: 1.0282
    Batch 33/248, train_loss: 0.0875, step time: 1.0275
    Batch 34/248, train_loss: 0.0609, step time: 1.0250
    Batch 35/248, train_loss: 0.0740, step time: 1.0367
    Batch 36/248, train_loss: 0.9317, step time: 1.0271
    Batch 37/248, train_loss: 0.2031, step time: 1.0285
    Batch 38/248, train_loss: 0.3841, step time: 1.0324
    Batch 39/248, train_loss: 0.2184, step time: 1.0246
    Batch 40/248, train_loss: 0.9981, step time: 1.0231
    Batch 41/248, train_loss: 0.2209, step time: 1.0253
    Batch 42/248, train_loss: 0.0935, step time: 1.0298
    Batch 43/248, train_loss: 0.0821, step time: 1.0258
    Batch 44/248, train_loss: 0.4908, step time: 1.0301
    Batch 45/248, train_loss: 0.4692, step time: 1.0323
    Batch 46/248, train_loss: 0.2384, step time: 1.0290
    Batch 47/248, train_loss: 0.1386, step time: 1.0309
    Batch 48/248, train_loss: 0.2450, step time: 1.0355
```

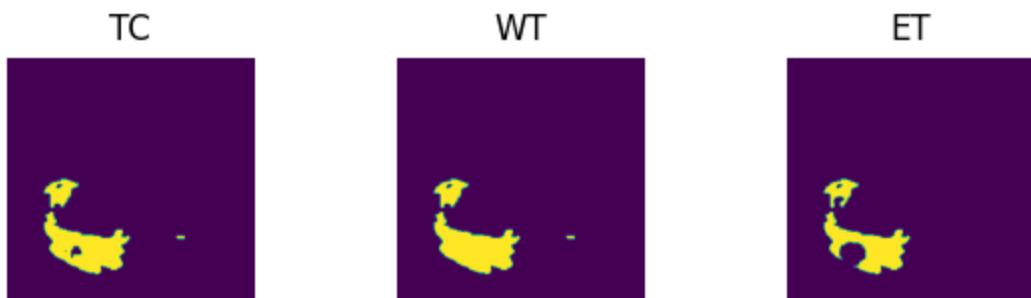
Batch 48/248, train_loss: 0.1000, step time: 1.0000
Batch 49/248, train_loss: 0.6959, step time: 1.0343
Batch 50/248, train_loss: 0.1941, step time: 1.0302
Batch 51/248, train_loss: 0.2005, step time: 1.0278
Batch 52/248, train_loss: 0.1351, step time: 1.0333
Batch 53/248, train_loss: 0.5031, step time: 1.0305
Batch 54/248, train_loss: 0.2403, step time: 1.0292
Batch 55/248, train_loss: 0.6245, step time: 1.0318
Batch 56/248, train_loss: 0.2496, step time: 1.0298
Batch 57/248, train_loss: 0.3180, step time: 1.0262
Batch 58/248, train_loss: 0.1165, step time: 1.0297
Batch 59/248, train_loss: 0.1020, step time: 1.0284
Batch 60/248, train_loss: 0.0700, step time: 1.0260
Batch 61/248, train_loss: 0.1198, step time: 1.0260
Batch 62/248, train_loss: 0.3216, step time: 1.0317
Batch 63/248, train_loss: 0.9429, step time: 1.0283
Batch 64/248, train_loss: 0.6956, step time: 1.0286
Batch 65/248, train_loss: 0.8288, step time: 1.0313
Batch 66/248, train_loss: 0.2192, step time: 1.0313
Batch 67/248, train_loss: 0.0898, step time: 1.0293
Batch 68/248, train_loss: 0.1253, step time: 1.0270
Batch 69/248, train_loss: 0.9756, step time: 1.0279
Batch 70/248, train_loss: 0.1315, step time: 1.0297
Batch 71/248, train_loss: 0.1827, step time: 1.0300
Batch 72/248, train_loss: 0.0757, step time: 1.0263
Batch 73/248, train_loss: 0.2814, step time: 1.0300
Batch 74/248, train_loss: 0.9990, step time: 1.0230
Batch 75/248, train_loss: 0.1423, step time: 1.0271
Batch 76/248, train_loss: 0.8266, step time: 1.0301
Batch 77/248, train_loss: 0.9872, step time: 1.0249
Batch 78/248, train_loss: 0.1870, step time: 1.0273
Batch 79/248, train_loss: 0.1553, step time: 1.0293
Batch 80/248, train_loss: 0.2526, step time: 1.0291
Batch 81/248, train_loss: 0.3644, step time: 1.0337
Batch 82/248, train_loss: 0.0949, step time: 1.0306
Batch 83/248, train_loss: 0.9264, step time: 1.0290
Batch 84/248, train_loss: 0.3240, step time: 1.0302
Batch 85/248, train_loss: 0.9346, step time: 1.0290
Batch 86/248, train_loss: 0.5315, step time: 1.0279
Batch 87/248, train_loss: 0.5697, step time: 1.0322
Batch 88/248, train_loss: 0.6080, step time: 1.0318
Batch 89/248, train_loss: 0.1217, step time: 1.0307
Batch 90/248, train_loss: 0.5662, step time: 1.0293
Batch 91/248, train_loss: 0.9015, step time: 1.0288
Batch 92/248, train_loss: 0.7190, step time: 1.0305
Batch 93/248, train_loss: 0.1957, step time: 1.0271
Batch 94/248, train_loss: 0.7101, step time: 1.0334
Batch 95/248, train_loss: 0.2141, step time: 1.0261
Batch 96/248, train_loss: 0.2863, step time: 1.0272
Batch 97/248, train_loss: 0.9805, step time: 1.0257
Batch 98/248, train_loss: 0.1442, step time: 1.0284
Batch 99/248, train_loss: 0.6839, step time: 1.0303
Batch 100/248, train_loss: 0.8442, step time: 1.0288
Batch 101/248, train_loss: 0.0572, step time: 1.0258
Batch 102/248, train_loss: 0.1418, step time: 1.0273
Batch 103/248, train_loss: 0.8986, step time: 1.0301
Batch 104/248, train_loss: 0.3459, step time: 1.0278

Batch 105/248, train_loss: 0.0880, step time: 1.0301
Batch 106/248, train_loss: 0.2493, step time: 1.0287
Batch 107/248, train_loss: 0.8731, step time: 1.0312
Batch 108/248, train_loss: 0.8413, step time: 1.0295
Batch 109/248, train_loss: 0.9954, step time: 1.0265
Batch 110/248, train_loss: 0.5050, step time: 1.0304
Batch 111/248, train_loss: 0.1127, step time: 1.0295
Batch 112/248, train_loss: 0.1652, step time: 1.0289
Batch 113/248, train_loss: 0.9892, step time: 1.0237
Batch 114/248, train_loss: 0.1654, step time: 1.0291
Batch 115/248, train_loss: 0.2532, step time: 1.0295
Batch 116/248, train_loss: 0.0970, step time: 1.0248
Batch 117/248, train_loss: 0.8617, step time: 1.0283
Batch 118/248, train_loss: 0.8836, step time: 1.0309
Batch 119/248, train_loss: 0.3654, step time: 1.0275
Batch 120/248, train_loss: 0.2863, step time: 1.0300
Batch 121/248, train_loss: 0.4403, step time: 1.0320
Batch 122/248, train_loss: 0.7672, step time: 1.0320
Batch 123/248, train_loss: 0.0925, step time: 1.0285
Batch 124/248, train_loss: 0.6237, step time: 1.0311
Batch 125/248, train_loss: 0.9275, step time: 1.0336
Batch 126/248, train_loss: 0.3018, step time: 1.0307
Batch 127/248, train_loss: 0.1319, step time: 1.0300
Batch 128/248, train_loss: 0.5390, step time: 1.0331
Batch 129/248, train_loss: 0.1105, step time: 1.0308
Batch 130/248, train_loss: 0.1581, step time: 1.0285
Batch 131/248, train_loss: 0.7001, step time: 1.0286
Batch 132/248, train_loss: 0.7368, step time: 1.0310
Batch 133/248, train_loss: 0.2084, step time: 1.0245
Batch 134/248, train_loss: 0.9690, step time: 1.0263
Batch 135/248, train_loss: 0.8862, step time: 1.0327
Batch 136/248, train_loss: 0.1665, step time: 1.0281
Batch 137/248, train_loss: 0.1625, step time: 1.0265
Batch 138/248, train_loss: 0.0756, step time: 1.0293
Batch 139/248, train_loss: 0.2735, step time: 1.0295
Batch 140/248, train_loss: 0.2701, step time: 1.0315
Batch 141/248, train_loss: 0.2194, step time: 1.0289
Batch 142/248, train_loss: 0.8601, step time: 1.0289
Batch 143/248, train_loss: 0.4593, step time: 1.0319
Batch 144/248, train_loss: 0.1310, step time: 1.0273
Batch 145/248, train_loss: 0.0587, step time: 1.0253
Batch 146/248, train_loss: 0.9902, step time: 1.0259
Batch 147/248, train_loss: 0.0513, step time: 1.0293
Batch 148/248, train_loss: 0.9369, step time: 1.0295
Batch 149/248, train_loss: 0.1570, step time: 1.0262
Batch 150/248, train_loss: 0.7174, step time: 1.0288
Batch 151/248, train_loss: 0.9072, step time: 1.0245
Batch 152/248, train_loss: 0.0556, step time: 1.0310
Batch 153/248, train_loss: 0.5584, step time: 1.0293
Batch 154/248, train_loss: 0.9386, step time: 1.0321
Batch 155/248, train_loss: 0.2451, step time: 1.0332
Batch 156/248, train_loss: 0.2863, step time: 1.0322
Batch 157/248, train_loss: 0.3530, step time: 1.0295
Batch 158/248, train_loss: 0.9975, step time: 1.0223
Batch 159/248, train_loss: 0.8833, step time: 1.0295
Batch 160/248, train_loss: 0.1020, step time: 1.0258
Batch 161/248, train_loss: 0.1213, step time: 1.0318

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-----  
Batch 162/248, train_loss: 0.1095, step time: 1.0307  
Batch 163/248, train_loss: 0.3449, step time: 1.0365  
Batch 164/248, train_loss: 0.3106, step time: 1.0290  
Batch 165/248, train_loss: 0.9954, step time: 1.0246  
Batch 166/248, train_loss: 0.1952, step time: 1.0294  
Batch 167/248, train_loss: 0.2455, step time: 1.0354  
Batch 168/248, train_loss: 0.2265, step time: 1.0289  
Batch 169/248, train_loss: 0.0943, step time: 1.0261  
Batch 170/248, train_loss: 0.9303, step time: 1.0305  
Batch 171/248, train_loss: 0.1007, step time: 1.0254  
Batch 172/248, train_loss: 0.9810, step time: 1.0290  
Batch 173/248, train_loss: 0.1233, step time: 1.0269  
Batch 174/248, train_loss: 0.9881, step time: 1.0235  
Batch 175/248, train_loss: 0.1929, step time: 1.0293  
Batch 176/248, train_loss: 0.4256, step time: 1.0267  
Batch 177/248, train_loss: 0.7904, step time: 1.0314  
Batch 178/248, train_loss: 0.2542, step time: 1.0312  
Batch 179/248, train_loss: 0.0889, step time: 1.0326  
Batch 180/248, train_loss: 0.4084, step time: 1.0312  
Batch 181/248, train_loss: 0.1235, step time: 1.0271  
Batch 182/248, train_loss: 0.9487, step time: 1.0269  
Batch 183/248, train_loss: 0.3385, step time: 1.0313  
Batch 184/248, train_loss: 0.6479, step time: 1.0302  
Batch 185/248, train_loss: 0.1554, step time: 1.0309  
Batch 186/248, train_loss: 0.1326, step time: 1.0305  
Batch 187/248, train_loss: 0.2190, step time: 1.0282  
Batch 188/248, train_loss: 0.2821, step time: 1.0316  
Batch 189/248, train_loss: 0.9429, step time: 1.0303  
Batch 190/248, train_loss: 0.1696, step time: 1.0307  
Batch 191/248, train_loss: 0.8552, step time: 1.0334  
Batch 192/248, train_loss: 0.3664, step time: 1.0263  
Batch 193/248, train_loss: 0.4220, step time: 1.0290  
Batch 194/248, train_loss: 0.1196, step time: 1.0278  
Batch 195/248, train_loss: 0.9750, step time: 1.0313  
Batch 196/248, train_loss: 0.9979, step time: 1.0220  
Batch 197/248, train_loss: 0.2695, step time: 1.0285  
Batch 198/248, train_loss: 0.9876, step time: 1.0275  
Batch 199/248, train_loss: 0.1667, step time: 1.0291  
Batch 200/248, train_loss: 0.1406, step time: 1.0291  
Batch 201/248, train_loss: 0.1434, step time: 1.0260  
Batch 202/248, train_loss: 0.3940, step time: 1.0307  
Batch 203/248, train_loss: 0.8351, step time: 1.0310  
Batch 204/248, train_loss: 0.0900, step time: 1.0273  
Batch 205/248, train_loss: 0.4041, step time: 1.0293  
Batch 206/248, train_loss: 0.7745, step time: 1.0328  
Batch 207/248, train_loss: 0.1061, step time: 1.0317  
Batch 208/248, train_loss: 0.2047, step time: 1.0273  
Batch 209/248, train_loss: 0.1907, step time: 1.0309  
Batch 210/248, train_loss: 0.0725, step time: 1.0294  
Batch 211/248, train_loss: 0.0712, step time: 1.0298  
Batch 212/248, train_loss: 0.6569, step time: 1.0315  
Batch 213/248, train_loss: 0.2456, step time: 1.0292  
Batch 214/248, train_loss: 0.0829, step time: 1.0282  
Batch 215/248, train_loss: 0.2724, step time: 1.0309  
Batch 216/248, train_loss: 0.2159, step time: 1.0275  
Batch 217/248, train_loss: 0.6369, step time: 1.0329
```

```
Batch 218/248, train_loss: 0.9100, step time: 1.0304
Batch 219/248, train_loss: 0.1114, step time: 1.0299
Batch 220/248, train_loss: 0.2934, step time: 1.0329
Batch 221/248, train_loss: 0.3733, step time: 1.0335
Batch 222/248, train_loss: 0.2997, step time: 1.0272
Batch 223/248, train_loss: 0.0531, step time: 1.0264
Batch 224/248, train_loss: 0.0978, step time: 1.0257
Batch 225/248, train_loss: 0.9380, step time: 1.0240
Batch 226/248, train_loss: 0.7620, step time: 1.0282
Batch 227/248, train_loss: 0.1096, step time: 1.0271
Batch 228/248, train_loss: 0.3576, step time: 1.0287
Batch 229/248, train_loss: 0.1371, step time: 1.0283
Batch 230/248, train_loss: 0.1045, step time: 1.0273
Batch 231/248, train_loss: 0.9915, step time: 1.0266
Batch 232/248, train_loss: 0.1126, step time: 1.0248
Batch 233/248, train_loss: 0.9951, step time: 1.0237
Batch 234/248, train_loss: 0.8291, step time: 1.0309
Batch 235/248, train_loss: 0.8471, step time: 1.0282
Batch 236/248, train_loss: 0.9772, step time: 1.0251
Batch 237/248, train_loss: 0.1564, step time: 1.0289
Batch 238/248, train_loss: 0.1022, step time: 1.0276
Batch 239/248, train_loss: 0.1388, step time: 1.0316
Batch 240/248, train_loss: 0.4211, step time: 1.0308
Batch 241/248, train_loss: 0.9857, step time: 1.0260
Batch 242/248, train_loss: 0.4717, step time: 1.0313
Batch 243/248, train_loss: 0.9113, step time: 1.0292
Batch 244/248, train_loss: 0.7802, step time: 1.0328
Batch 245/248, train_loss: 0.1010, step time: 1.0268
Batch 246/248, train_loss: 0.7203, step time: 1.0309
Batch 247/248, train_loss: 0.1405, step time: 1.0295
Batch 248/248, train_loss: 0.9999, step time: 1.0197
```

Labels



Predictions



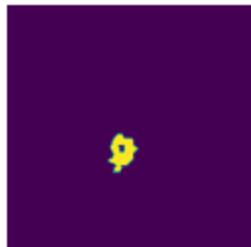
VAL

```
Batch 1/31, val_loss: 0.9548
Batch 2/31, val_loss: 0.9950
```

```
Batch 2/31, val_loss: 0.9999  
Batch 3/31, val_loss: 0.9774  
Batch 4/31, val_loss: 0.9522  
Batch 5/31, val_loss: 0.9950  
Batch 6/31, val_loss: 0.7212  
Batch 7/31, val_loss: 0.8386  
Batch 8/31, val_loss: 0.9588  
Batch 9/31, val_loss: 0.7078  
Batch 10/31, val_loss: 0.9150  
Batch 11/31, val_loss: 0.8306  
Batch 12/31, val_loss: 0.9827  
Batch 13/31, val_loss: 0.9902  
Batch 14/31, val_loss: 0.9548  
Batch 15/31, val_loss: 0.9918  
Batch 16/31, val_loss: 0.9772  
Batch 17/31, val_loss: 0.9825  
Batch 18/31, val_loss: 0.9454  
Batch 19/31, val_loss: 0.7629  
Batch 20/31, val_loss: 0.8992  
Batch 21/31, val_loss: 0.8838  
Batch 22/31, val_loss: 0.9887  
Batch 23/31, val_loss: 0.9853  
Batch 24/31, val_loss: 0.7570  
Batch 25/31, val_loss: 0.8087  
Batch 26/31, val_loss: 0.9206  
Batch 27/31, val_loss: 0.9845  
Batch 28/31, val_loss: 0.7541  
Batch 29/31, val_loss: 0.9948  
Batch 30/31, val_loss: 0.9658  
Batch 31/31, val_loss: 0.9806
```

Labels

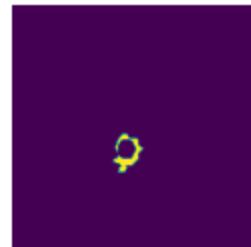
TC



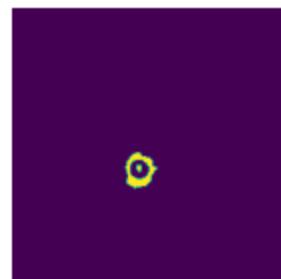
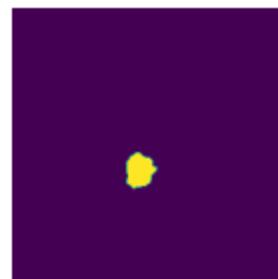
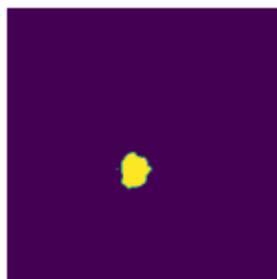
WT



ET



Predictions



epoch 23

```
average train loss: 0.4357  
average validation loss: 0.9148  
saved as best model: False
```

```
current mean dice: 0.4063
current TC dice: 0.4285
current WT dice: 0.4265
current ET dice: 0.4017
Best Mean Metric: 0.4178
time consuming of epoch 23 is: 1553.5113
-----
epoch 24/100
TRAIN
Batch 1/248, train_loss: 0.1467, step time: 1.0378
Batch 2/248, train_loss: 0.9475, step time: 1.0305
Batch 3/248, train_loss: 0.5163, step time: 1.0278
Batch 4/248, train_loss: 0.9872, step time: 1.0242
Batch 5/248, train_loss: 0.2696, step time: 1.0289
Batch 6/248, train_loss: 0.7704, step time: 1.0278
Batch 7/248, train_loss: 0.0765, step time: 1.0276
Batch 8/248, train_loss: 0.7237, step time: 1.0241
Batch 9/248, train_loss: 0.0553, step time: 1.0258
Batch 10/248, train_loss: 0.3296, step time: 1.0292
Batch 11/248, train_loss: 0.3393, step time: 1.0299
Batch 12/248, train_loss: 0.8502, step time: 1.0334
Batch 13/248, train_loss: 0.6970, step time: 1.0320
Batch 14/248, train_loss: 0.0550, step time: 1.0237
Batch 15/248, train_loss: 0.3929, step time: 1.0281
Batch 16/248, train_loss: 0.1881, step time: 1.0282
Batch 17/248, train_loss: 0.9159, step time: 1.0302
Batch 18/248, train_loss: 0.8236, step time: 1.0300
Batch 19/248, train_loss: 0.1051, step time: 1.0266
Batch 20/248, train_loss: 0.3341, step time: 1.0274
Batch 21/248, train_loss: 0.0744, step time: 1.0248
Batch 22/248, train_loss: 0.9962, step time: 1.0231
Batch 23/248, train_loss: 0.9949, step time: 1.0272
Batch 24/248, train_loss: 0.0947, step time: 1.0287
Batch 25/248, train_loss: 0.0907, step time: 1.0270
Batch 26/248, train_loss: 0.9197, step time: 1.0317
Batch 27/248, train_loss: 0.0851, step time: 1.0288
Batch 28/248, train_loss: 0.2417, step time: 1.0371
Batch 29/248, train_loss: 0.7576, step time: 1.0334
Batch 30/248, train_loss: 0.2867, step time: 1.0311
Batch 31/248, train_loss: 0.5098, step time: 1.0313
Batch 32/248, train_loss: 0.0987, step time: 1.0270
Batch 33/248, train_loss: 0.0934, step time: 1.0268
Batch 34/248, train_loss: 0.0513, step time: 1.0245
Batch 35/248, train_loss: 0.0597, step time: 1.0276
Batch 36/248, train_loss: 0.9128, step time: 1.0289
Batch 37/248, train_loss: 0.1794, step time: 1.0270
Batch 38/248, train_loss: 0.3521, step time: 1.0278
Batch 39/248, train_loss: 0.2299, step time: 1.0291
Batch 40/248, train_loss: 0.9937, step time: 1.0251
Batch 41/248, train_loss: 0.2083, step time: 1.0289
Batch 42/248, train_loss: 0.0914, step time: 1.0288
Batch 43/248, train_loss: 0.0777, step time: 1.0250
Batch 44/248, train_loss: 0.4190, step time: 1.0330
Batch 45/248, train_loss: 0.6737, step time: 1.0294
Batch 46/248, train_loss: 0.2011, step time: 1.0308
Batch 47/248, train_loss: 0.1225, step time: 1.0291
Batch 48/248, train_loss: 0.2500, step time: 1.0294
```

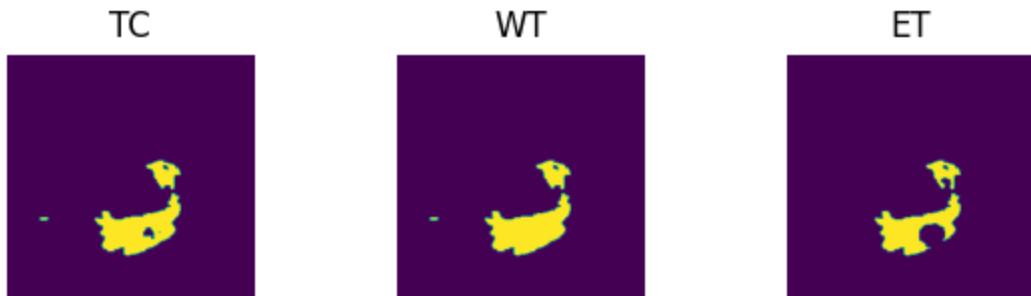
Batch 48/248, train_loss: 0.2589, step time: 1.0284
Batch 49/248, train_loss: 0.6854, step time: 1.0285
Batch 50/248, train_loss: 0.1879, step time: 1.0300
Batch 51/248, train_loss: 0.2041, step time: 1.0285
Batch 52/248, train_loss: 0.1341, step time: 1.0277
Batch 53/248, train_loss: 0.4927, step time: 1.0297
Batch 54/248, train_loss: 0.2525, step time: 1.0306
Batch 55/248, train_loss: 0.5904, step time: 1.0316
Batch 56/248, train_loss: 0.3074, step time: 1.0308
Batch 57/248, train_loss: 0.3123, step time: 1.0316
Batch 58/248, train_loss: 0.0941, step time: 1.0265
Batch 59/248, train_loss: 0.1041, step time: 1.0265
Batch 60/248, train_loss: 0.0685, step time: 1.0283
Batch 61/248, train_loss: 0.1116, step time: 1.0257
Batch 62/248, train_loss: 0.3768, step time: 1.0289
Batch 63/248, train_loss: 0.9282, step time: 1.0282
Batch 64/248, train_loss: 0.6672, step time: 1.0309
Batch 65/248, train_loss: 0.7141, step time: 1.0297
Batch 66/248, train_loss: 0.2616, step time: 1.0309
Batch 67/248, train_loss: 0.0815, step time: 1.0254
Batch 68/248, train_loss: 0.1247, step time: 1.0276
Batch 69/248, train_loss: 0.9549, step time: 1.0295
Batch 70/248, train_loss: 0.1427, step time: 1.0300
Batch 71/248, train_loss: 0.1766, step time: 1.0310
Batch 72/248, train_loss: 0.0712, step time: 1.0284
Batch 73/248, train_loss: 0.3609, step time: 1.0275
Batch 74/248, train_loss: 0.9983, step time: 1.0238
Batch 75/248, train_loss: 0.1493, step time: 1.0264
Batch 76/248, train_loss: 0.8350, step time: 1.0339
Batch 77/248, train_loss: 0.9870, step time: 1.0268
Batch 78/248, train_loss: 0.2362, step time: 1.0313
Batch 79/248, train_loss: 0.1386, step time: 1.0253
Batch 80/248, train_loss: 0.2697, step time: 1.0307
Batch 81/248, train_loss: 0.3073, step time: 1.0316
Batch 82/248, train_loss: 0.0964, step time: 1.0303
Batch 83/248, train_loss: 0.9523, step time: 1.0288
Batch 84/248, train_loss: 0.3345, step time: 1.0306
Batch 85/248, train_loss: 0.9231, step time: 1.0287
Batch 86/248, train_loss: 0.4930, step time: 1.0306
Batch 87/248, train_loss: 0.7712, step time: 1.0323
Batch 88/248, train_loss: 0.5651, step time: 1.0315
Batch 89/248, train_loss: 0.1166, step time: 1.0282
Batch 90/248, train_loss: 0.4083, step time: 1.0307
Batch 91/248, train_loss: 0.9033, step time: 1.0263
Batch 92/248, train_loss: 0.4885, step time: 1.0274
Batch 93/248, train_loss: 0.1792, step time: 1.0307
Batch 94/248, train_loss: 0.7446, step time: 1.0307
Batch 95/248, train_loss: 0.1917, step time: 1.0294
Batch 96/248, train_loss: 0.2185, step time: 1.0322
Batch 97/248, train_loss: 0.9611, step time: 1.0321
Batch 98/248, train_loss: 0.1087, step time: 1.0284
Batch 99/248, train_loss: 0.5901, step time: 1.0331
Batch 100/248, train_loss: 0.7775, step time: 1.0320
Batch 101/248, train_loss: 0.0508, step time: 1.0248
Batch 102/248, train_loss: 0.1409, step time: 1.0314
Batch 103/248, train_loss: 0.9250, step time: 1.0263
Batch 104/248, train_loss: 0.3376, step time: 1.0310

Batch 105/248, train_loss: 0.0966, step time: 1.0245
Batch 106/248, train_loss: 0.1929, step time: 1.0308
Batch 107/248, train_loss: 0.8904, step time: 1.0261
Batch 108/248, train_loss: 0.9171, step time: 1.0323
Batch 109/248, train_loss: 0.9903, step time: 1.0269
Batch 110/248, train_loss: 0.3842, step time: 1.0313
Batch 111/248, train_loss: 0.1085, step time: 1.0276
Batch 112/248, train_loss: 0.1045, step time: 1.0267
Batch 113/248, train_loss: 0.9892, step time: 1.0303
Batch 114/248, train_loss: 0.1500, step time: 1.0244
Batch 115/248, train_loss: 0.2455, step time: 1.0315
Batch 116/248, train_loss: 0.0897, step time: 1.0275
Batch 117/248, train_loss: 0.8267, step time: 1.0312
Batch 118/248, train_loss: 0.8816, step time: 1.0279
Batch 119/248, train_loss: 0.5194, step time: 1.0294
Batch 120/248, train_loss: 0.2847, step time: 1.0284
Batch 121/248, train_loss: 0.3484, step time: 1.0313
Batch 122/248, train_loss: 0.6659, step time: 1.0303
Batch 123/248, train_loss: 0.0855, step time: 1.0300
Batch 124/248, train_loss: 0.5662, step time: 1.0305
Batch 125/248, train_loss: 0.9170, step time: 1.0310
Batch 126/248, train_loss: 0.3055, step time: 1.0306
Batch 127/248, train_loss: 0.1299, step time: 1.0329
Batch 128/248, train_loss: 0.4924, step time: 1.0331
Batch 129/248, train_loss: 0.1276, step time: 1.0310
Batch 130/248, train_loss: 0.1311, step time: 1.0293
Batch 131/248, train_loss: 0.7979, step time: 1.0297
Batch 132/248, train_loss: 0.7070, step time: 1.0307
Batch 133/248, train_loss: 0.1941, step time: 1.0276
Batch 134/248, train_loss: 0.9744, step time: 1.0276
Batch 135/248, train_loss: 0.6936, step time: 1.0294
Batch 136/248, train_loss: 0.1485, step time: 1.0297
Batch 137/248, train_loss: 0.1580, step time: 1.0252
Batch 138/248, train_loss: 0.0820, step time: 1.0246
Batch 139/248, train_loss: 0.1621, step time: 1.0303
Batch 140/248, train_loss: 0.2272, step time: 1.0324
Batch 141/248, train_loss: 0.2911, step time: 1.0300
Batch 142/248, train_loss: 0.8368, step time: 1.0320
Batch 143/248, train_loss: 0.4194, step time: 1.0313
Batch 144/248, train_loss: 0.1229, step time: 1.0284
Batch 145/248, train_loss: 0.0852, step time: 1.0245
Batch 146/248, train_loss: 0.9869, step time: 1.0241
Batch 147/248, train_loss: 0.0452, step time: 1.0250
Batch 148/248, train_loss: 0.9026, step time: 1.0293
Batch 149/248, train_loss: 0.1400, step time: 1.0291
Batch 150/248, train_loss: 0.7153, step time: 1.0269
Batch 151/248, train_loss: 0.8615, step time: 1.0307
Batch 152/248, train_loss: 0.0515, step time: 1.0280
Batch 153/248, train_loss: 0.4153, step time: 1.0296
Batch 154/248, train_loss: 0.9089, step time: 1.0288
Batch 155/248, train_loss: 0.2061, step time: 1.0314
Batch 156/248, train_loss: 0.2206, step time: 1.0324
Batch 157/248, train_loss: 0.3630, step time: 1.0318
Batch 158/248, train_loss: 0.9962, step time: 1.0269
Batch 159/248, train_loss: 0.7904, step time: 1.0320
Batch 160/248, train_loss: 0.0845, step time: 1.0273
Batch 161/248, train_loss: 0.0071, step time: 1.0271

Batch 101/248, train_loss: 0.0974, step time: 1.0271
Batch 162/248, train_loss: 0.1135, step time: 1.0272
Batch 163/248, train_loss: 0.3449, step time: 1.0328
Batch 164/248, train_loss: 0.2446, step time: 1.0297
Batch 165/248, train_loss: 0.9956, step time: 1.0265
Batch 166/248, train_loss: 0.1902, step time: 1.0287
Batch 167/248, train_loss: 0.2423, step time: 1.0292
Batch 168/248, train_loss: 0.1937, step time: 1.0317
Batch 169/248, train_loss: 0.0944, step time: 1.0332
Batch 170/248, train_loss: 0.8716, step time: 1.0284
Batch 171/248, train_loss: 0.0964, step time: 1.0265
Batch 172/248, train_loss: 0.9332, step time: 1.0366
Batch 173/248, train_loss: 0.1251, step time: 1.0291
Batch 174/248, train_loss: 0.9947, step time: 1.0286
Batch 175/248, train_loss: 0.1473, step time: 1.0264
Batch 176/248, train_loss: 0.4503, step time: 1.0285
Batch 177/248, train_loss: 0.7459, step time: 1.0317
Batch 178/248, train_loss: 0.2123, step time: 1.0271
Batch 179/248, train_loss: 0.0916, step time: 1.0283
Batch 180/248, train_loss: 0.3664, step time: 1.0262
Batch 181/248, train_loss: 0.1233, step time: 1.0301
Batch 182/248, train_loss: 0.9251, step time: 1.0269
Batch 183/248, train_loss: 0.4376, step time: 1.0276
Batch 184/248, train_loss: 0.6873, step time: 1.0309
Batch 185/248, train_loss: 0.1243, step time: 1.0273
Batch 186/248, train_loss: 0.1201, step time: 1.0287
Batch 187/248, train_loss: 0.2205, step time: 1.0320
Batch 188/248, train_loss: 0.2802, step time: 1.0310
Batch 189/248, train_loss: 0.9134, step time: 1.0285
Batch 190/248, train_loss: 0.1569, step time: 1.0296
Batch 191/248, train_loss: 0.8464, step time: 1.0348
Batch 192/248, train_loss: 0.3599, step time: 1.0297
Batch 193/248, train_loss: 0.4217, step time: 1.0271
Batch 194/248, train_loss: 0.1171, step time: 1.0303
Batch 195/248, train_loss: 0.9108, step time: 1.0315
Batch 196/248, train_loss: 0.9970, step time: 1.0240
Batch 197/248, train_loss: 0.2835, step time: 1.0282
Batch 198/248, train_loss: 0.9883, step time: 1.0268
Batch 199/248, train_loss: 0.1672, step time: 1.0291
Batch 200/248, train_loss: 0.1455, step time: 1.0276
Batch 201/248, train_loss: 0.1434, step time: 1.0271
Batch 202/248, train_loss: 0.3928, step time: 1.0310
Batch 203/248, train_loss: 0.8356, step time: 1.0310
Batch 204/248, train_loss: 0.0841, step time: 1.0311
Batch 205/248, train_loss: 0.3695, step time: 1.0305
Batch 206/248, train_loss: 0.8457, step time: 1.0314
Batch 207/248, train_loss: 0.0976, step time: 1.0271
Batch 208/248, train_loss: 0.1937, step time: 1.0263
Batch 209/248, train_loss: 0.2037, step time: 1.0304
Batch 210/248, train_loss: 0.0731, step time: 1.0283
Batch 211/248, train_loss: 0.0766, step time: 1.0243
Batch 212/248, train_loss: 0.6565, step time: 1.0324
Batch 213/248, train_loss: 0.2222, step time: 1.0278
Batch 214/248, train_loss: 0.0806, step time: 1.0287
Batch 215/248, train_loss: 0.2449, step time: 1.0312
Batch 216/248, train_loss: 0.1934, step time: 1.0291
Batch 217/248, train_loss: 0.3678, step time: 1.0342

```
Batch 218/248, train_loss: 0.8861, step time: 1.0330
Batch 219/248, train_loss: 0.0994, step time: 1.0285
Batch 220/248, train_loss: 0.2887, step time: 1.0306
Batch 221/248, train_loss: 0.3285, step time: 1.0299
Batch 222/248, train_loss: 0.2388, step time: 1.0298
Batch 223/248, train_loss: 0.0471, step time: 1.0257
Batch 224/248, train_loss: 0.0900, step time: 1.0254
Batch 225/248, train_loss: 0.9436, step time: 1.0285
Batch 226/248, train_loss: 0.5171, step time: 1.0312
Batch 227/248, train_loss: 0.1037, step time: 1.0259
Batch 228/248, train_loss: 0.2311, step time: 1.0315
Batch 229/248, train_loss: 0.1901, step time: 1.0289
Batch 230/248, train_loss: 0.1111, step time: 1.0296
Batch 231/248, train_loss: 0.9769, step time: 1.0319
Batch 232/248, train_loss: 0.1015, step time: 1.0271
Batch 233/248, train_loss: 0.9921, step time: 1.0275
Batch 234/248, train_loss: 0.7452, step time: 1.0311
Batch 235/248, train_loss: 0.8026, step time: 1.0315
Batch 236/248, train_loss: 0.9430, step time: 1.0286
Batch 237/248, train_loss: 0.1391, step time: 1.0293
Batch 238/248, train_loss: 0.1165, step time: 1.0296
Batch 239/248, train_loss: 0.1532, step time: 1.0312
Batch 240/248, train_loss: 0.3693, step time: 1.0315
Batch 241/248, train_loss: 0.9674, step time: 1.0318
Batch 242/248, train_loss: 0.4901, step time: 1.0309
Batch 243/248, train_loss: 0.8612, step time: 1.0319
Batch 244/248, train_loss: 0.7403, step time: 1.0303
Batch 245/248, train_loss: 0.0997, step time: 1.0247
Batch 246/248, train_loss: 0.7308, step time: 1.0326
Batch 247/248, train_loss: 0.0948, step time: 1.0273
Batch 248/248, train_loss: 0.9999, step time: 1.0174
```

Labels



Predictions

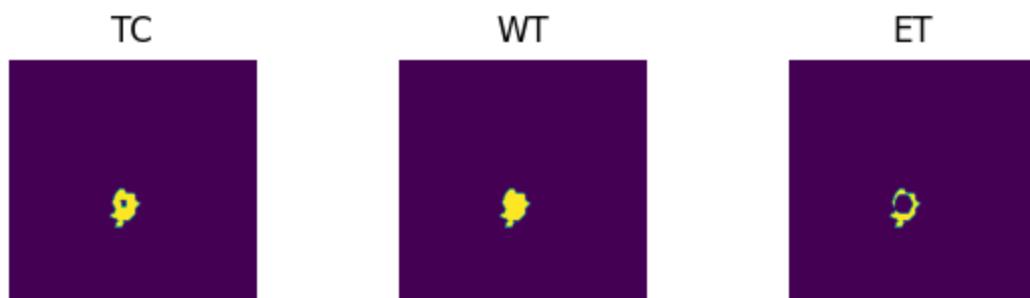


VAL

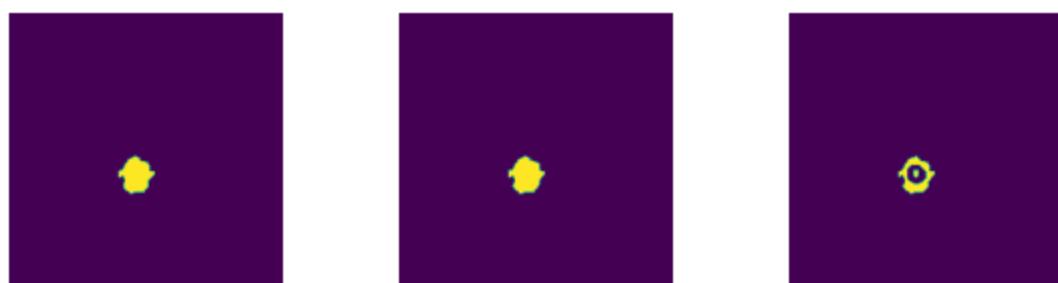
```
Batch 1/31, val_loss: 0.9556
```

```
Batch 2/31, val_loss: 0.9949
Batch 3/31, val_loss: 0.9740
Batch 4/31, val_loss: 0.9527
Batch 5/31, val_loss: 0.9952
Batch 6/31, val_loss: 0.7085
Batch 7/31, val_loss: 0.8375
Batch 8/31, val_loss: 0.9525
Batch 9/31, val_loss: 0.6998
Batch 10/31, val_loss: 0.9157
Batch 11/31, val_loss: 0.8381
Batch 12/31, val_loss: 0.9819
Batch 13/31, val_loss: 0.9928
Batch 14/31, val_loss: 0.9500
Batch 15/31, val_loss: 0.9914
Batch 16/31, val_loss: 0.9784
Batch 17/31, val_loss: 0.9827
Batch 18/31, val_loss: 0.9421
Batch 19/31, val_loss: 0.7639
Batch 20/31, val_loss: 0.8847
Batch 21/31, val_loss: 0.8806
Batch 22/31, val_loss: 0.9882
Batch 23/31, val_loss: 0.9854
Batch 24/31, val_loss: 0.7520
Batch 25/31, val_loss: 0.8111
Batch 26/31, val_loss: 0.9226
Batch 27/31, val_loss: 0.9833
Batch 28/31, val_loss: 0.7545
Batch 29/31, val_loss: 0.9949
Batch 30/31, val_loss: 0.9637
Batch 31/31, val_loss: 0.9785
```

Labels



Predictions



epoch 24

```
average train loss: 0.4213
average validation loss: 0.9131
saved as best model. True
```

```
saved as best model. ....
current mean dice: 0.4233
current TC dice: 0.4446
current WT dice: 0.4409
current ET dice: 0.4245
Best Mean Metric: 0.4233
time consuming of epoch 24 is: 1561.4746
-----
epoch 25/100
TRAIN
    Batch 1/248, train_loss: 0.0993, step time: 1.0267
    Batch 2/248, train_loss: 0.9086, step time: 1.0330
    Batch 3/248, train_loss: 0.5719, step time: 1.0300
    Batch 4/248, train_loss: 0.9921, step time: 1.0244
    Batch 5/248, train_loss: 0.2369, step time: 1.0279
    Batch 6/248, train_loss: 0.7481, step time: 1.0305
    Batch 7/248, train_loss: 0.0725, step time: 1.0280
    Batch 8/248, train_loss: 0.7277, step time: 1.0286
    Batch 9/248, train_loss: 0.0562, step time: 1.0295
    Batch 10/248, train_loss: 0.3108, step time: 1.0338
    Batch 11/248, train_loss: 0.2678, step time: 1.0328
    Batch 12/248, train_loss: 0.8066, step time: 1.0296
    Batch 13/248, train_loss: 0.5786, step time: 1.0302
    Batch 14/248, train_loss: 0.0548, step time: 1.0254
    Batch 15/248, train_loss: 0.4270, step time: 1.0277
    Batch 16/248, train_loss: 0.1767, step time: 1.0305
    Batch 17/248, train_loss: 0.7696, step time: 1.0312
    Batch 18/248, train_loss: 0.6658, step time: 1.0311
    Batch 19/248, train_loss: 0.1500, step time: 1.0292
    Batch 20/248, train_loss: 0.2332, step time: 1.0288
    Batch 21/248, train_loss: 0.0814, step time: 1.0271
    Batch 22/248, train_loss: 0.9942, step time: 1.0270
    Batch 23/248, train_loss: 0.9962, step time: 1.0266
    Batch 24/248, train_loss: 0.1121, step time: 1.0311
    Batch 25/248, train_loss: 0.0891, step time: 1.0312
    Batch 26/248, train_loss: 0.9304, step time: 1.0301
    Batch 27/248, train_loss: 0.0725, step time: 1.0307
    Batch 28/248, train_loss: 0.1921, step time: 1.0325
    Batch 29/248, train_loss: 0.7612, step time: 1.0330
    Batch 30/248, train_loss: 0.3012, step time: 1.0302
    Batch 31/248, train_loss: 0.3491, step time: 1.0301
    Batch 32/248, train_loss: 0.0894, step time: 1.0264
    Batch 33/248, train_loss: 0.0784, step time: 1.0249
    Batch 34/248, train_loss: 0.0508, step time: 1.0269
    Batch 35/248, train_loss: 0.0563, step time: 1.0243
    Batch 36/248, train_loss: 0.9620, step time: 1.0282
    Batch 37/248, train_loss: 0.1860, step time: 1.0264
    Batch 38/248, train_loss: 0.3437, step time: 1.0303
    Batch 39/248, train_loss: 0.2382, step time: 1.0251
    Batch 40/248, train_loss: 0.9909, step time: 1.0265
    Batch 41/248, train_loss: 0.2120, step time: 1.0265
    Batch 42/248, train_loss: 0.0816, step time: 1.0263
    Batch 43/248, train_loss: 0.0750, step time: 1.0311
    Batch 44/248, train_loss: 0.3258, step time: 1.0300
    Batch 45/248, train_loss: 0.6241, step time: 1.0301
    Batch 46/248, train_loss: 0.2002, step time: 1.0308
    Batch 47/248, train_loss: 0.0949, step time: 1.0306
```

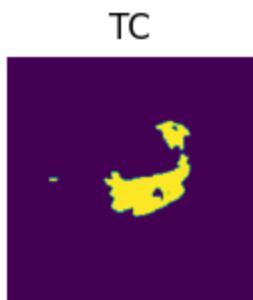
Batch 48/248, train_loss: 0.2735, step time: 1.0267
Batch 49/248, train_loss: 0.7089, step time: 1.0344
Batch 50/248, train_loss: 0.1848, step time: 1.0323
Batch 51/248, train_loss: 0.2040, step time: 1.0351
Batch 52/248, train_loss: 0.1297, step time: 1.0276
Batch 53/248, train_loss: 0.4913, step time: 1.0320
Batch 54/248, train_loss: 0.2600, step time: 1.0299
Batch 55/248, train_loss: 0.5819, step time: 1.0305
Batch 56/248, train_loss: 0.2975, step time: 1.0322
Batch 57/248, train_loss: 0.3194, step time: 1.0265
Batch 58/248, train_loss: 0.1079, step time: 1.0275
Batch 59/248, train_loss: 0.0965, step time: 1.0245
Batch 60/248, train_loss: 0.0693, step time: 1.0265
Batch 61/248, train_loss: 0.1191, step time: 1.0260
Batch 62/248, train_loss: 0.2938, step time: 1.0301
Batch 63/248, train_loss: 0.9234, step time: 1.0289
Batch 64/248, train_loss: 0.7471, step time: 1.0295
Batch 65/248, train_loss: 0.7639, step time: 1.0288
Batch 66/248, train_loss: 0.2727, step time: 1.0314
Batch 67/248, train_loss: 0.0842, step time: 1.0276
Batch 68/248, train_loss: 0.1293, step time: 1.0297
Batch 69/248, train_loss: 0.8584, step time: 1.0330
Batch 70/248, train_loss: 0.1332, step time: 1.0302
Batch 71/248, train_loss: 0.1543, step time: 1.0263
Batch 72/248, train_loss: 0.0726, step time: 1.0304
Batch 73/248, train_loss: 0.1892, step time: 1.0290
Batch 74/248, train_loss: 0.9969, step time: 1.0265
Batch 75/248, train_loss: 0.1420, step time: 1.0273
Batch 76/248, train_loss: 0.8321, step time: 1.0319
Batch 77/248, train_loss: 0.9847, step time: 1.0242
Batch 78/248, train_loss: 0.1760, step time: 1.0288
Batch 79/248, train_loss: 0.1433, step time: 1.0329
Batch 80/248, train_loss: 0.2221, step time: 1.0283
Batch 81/248, train_loss: 0.3049, step time: 1.0297
Batch 82/248, train_loss: 0.0975, step time: 1.0299
Batch 83/248, train_loss: 0.8316, step time: 1.0298
Batch 84/248, train_loss: 0.2748, step time: 1.0312
Batch 85/248, train_loss: 0.8200, step time: 1.0272
Batch 86/248, train_loss: 0.3496, step time: 1.0262
Batch 87/248, train_loss: 0.6623, step time: 1.0311
Batch 88/248, train_loss: 0.5459, step time: 1.0270
Batch 89/248, train_loss: 0.1084, step time: 1.0295
Batch 90/248, train_loss: 0.4887, step time: 1.0290
Batch 91/248, train_loss: 0.8867, step time: 1.0253
Batch 92/248, train_loss: 0.4287, step time: 1.0281
Batch 93/248, train_loss: 0.1721, step time: 1.0261
Batch 94/248, train_loss: 0.7722, step time: 1.0289
Batch 95/248, train_loss: 0.1872, step time: 1.0273
Batch 96/248, train_loss: 0.2579, step time: 1.0261
Batch 97/248, train_loss: 0.9668, step time: 1.0313
Batch 98/248, train_loss: 0.1390, step time: 1.0313
Batch 99/248, train_loss: 0.4789, step time: 1.0340
Batch 100/248, train_loss: 0.7132, step time: 1.0314
Batch 101/248, train_loss: 0.0530, step time: 1.0229
Batch 102/248, train_loss: 0.1499, step time: 1.0312
Batch 103/248, train_loss: 0.9211, step time: 1.0261
Batch 104/248, train_loss: 0.3565, step time: 1.0290

Batch 105/248, train_loss: 0.1070, step time: 1.0270
Batch 106/248, train_loss: 0.2289, step time: 1.0301
Batch 107/248, train_loss: 0.8767, step time: 1.0277
Batch 108/248, train_loss: 0.8324, step time: 1.0290
Batch 109/248, train_loss: 0.9873, step time: 1.0285
Batch 110/248, train_loss: 0.3016, step time: 1.0331
Batch 111/248, train_loss: 0.1026, step time: 1.0273
Batch 112/248, train_loss: 0.1188, step time: 1.0320
Batch 113/248, train_loss: 0.9881, step time: 1.0305
Batch 114/248, train_loss: 0.1433, step time: 1.0255
Batch 115/248, train_loss: 0.2210, step time: 1.0284
Batch 116/248, train_loss: 0.0958, step time: 1.0284
Batch 117/248, train_loss: 0.9206, step time: 1.0348
Batch 118/248, train_loss: 0.9248, step time: 1.0380
Batch 119/248, train_loss: 0.3505, step time: 1.0293
Batch 120/248, train_loss: 0.3071, step time: 1.0265
Batch 121/248, train_loss: 0.3505, step time: 1.0307
Batch 122/248, train_loss: 0.5757, step time: 1.0322
Batch 123/248, train_loss: 0.0819, step time: 1.0276
Batch 124/248, train_loss: 0.3832, step time: 1.0289
Batch 125/248, train_loss: 0.9175, step time: 1.0292
Batch 126/248, train_loss: 0.3094, step time: 1.0295
Batch 127/248, train_loss: 0.1270, step time: 1.0327
Batch 128/248, train_loss: 0.5319, step time: 1.0319
Batch 129/248, train_loss: 0.1053, step time: 1.0291
Batch 130/248, train_loss: 0.1130, step time: 1.0278
Batch 131/248, train_loss: 0.7793, step time: 1.0286
Batch 132/248, train_loss: 0.7120, step time: 1.0290
Batch 133/248, train_loss: 0.1669, step time: 1.0296
Batch 134/248, train_loss: 0.9878, step time: 1.0292
Batch 135/248, train_loss: 0.4626, step time: 1.0294
Batch 136/248, train_loss: 0.1512, step time: 1.0273
Batch 137/248, train_loss: 0.1295, step time: 1.0244
Batch 138/248, train_loss: 0.0791, step time: 1.0267
Batch 139/248, train_loss: 0.1517, step time: 1.0310
Batch 140/248, train_loss: 0.2047, step time: 1.0291
Batch 141/248, train_loss: 0.2750, step time: 1.0319
Batch 142/248, train_loss: 0.8540, step time: 1.0322
Batch 143/248, train_loss: 0.3990, step time: 1.0282
Batch 144/248, train_loss: 0.1227, step time: 1.0259
Batch 145/248, train_loss: 0.0647, step time: 1.0242
Batch 146/248, train_loss: 0.9483, step time: 1.0276
Batch 147/248, train_loss: 0.0488, step time: 1.0280
Batch 148/248, train_loss: 0.8996, step time: 1.0295
Batch 149/248, train_loss: 0.1390, step time: 1.0295
Batch 150/248, train_loss: 0.6865, step time: 1.0260
Batch 151/248, train_loss: 0.7081, step time: 1.0338
Batch 152/248, train_loss: 0.0490, step time: 1.0241
Batch 153/248, train_loss: 0.3893, step time: 1.0296
Batch 154/248, train_loss: 0.9069, step time: 1.0325
Batch 155/248, train_loss: 0.1597, step time: 1.0308
Batch 156/248, train_loss: 0.3540, step time: 1.0338
Batch 157/248, train_loss: 0.3712, step time: 1.0279
Batch 158/248, train_loss: 0.9947, step time: 1.0256
Batch 159/248, train_loss: 0.7049, step time: 1.0306
Batch 160/248, train_loss: 0.0849, step time: 1.0305

Batch 161/248, train_loss: 0.0903, step time: 1.0280
Batch 162/248, train_loss: 0.1206, step time: 1.0288
Batch 163/248, train_loss: 0.3172, step time: 1.0286
Batch 164/248, train_loss: 0.2954, step time: 1.0260
Batch 165/248, train_loss: 0.9951, step time: 1.0235
Batch 166/248, train_loss: 0.1705, step time: 1.0297
Batch 167/248, train_loss: 0.2244, step time: 1.0284
Batch 168/248, train_loss: 0.2125, step time: 1.0274
Batch 169/248, train_loss: 0.0891, step time: 1.0269
Batch 170/248, train_loss: 0.9069, step time: 1.0276
Batch 171/248, train_loss: 0.0962, step time: 1.0279
Batch 172/248, train_loss: 0.9329, step time: 1.0366
Batch 173/248, train_loss: 0.1281, step time: 1.0275
Batch 174/248, train_loss: 0.8387, step time: 1.0317
Batch 175/248, train_loss: 0.1744, step time: 1.0304
Batch 176/248, train_loss: 0.4267, step time: 1.0284
Batch 177/248, train_loss: 0.7246, step time: 1.0309
Batch 178/248, train_loss: 0.2261, step time: 1.0313
Batch 179/248, train_loss: 0.0880, step time: 1.0280
Batch 180/248, train_loss: 0.3825, step time: 1.0263
Batch 181/248, train_loss: 0.1229, step time: 1.0290
Batch 182/248, train_loss: 0.9435, step time: 1.0333
Batch 183/248, train_loss: 0.3142, step time: 1.0331
Batch 184/248, train_loss: 0.8650, step time: 1.0278
Batch 185/248, train_loss: 0.1334, step time: 1.0273
Batch 186/248, train_loss: 0.1126, step time: 1.0276
Batch 187/248, train_loss: 0.2133, step time: 1.0287
Batch 188/248, train_loss: 0.2446, step time: 1.0295
Batch 189/248, train_loss: 0.9051, step time: 1.0333
Batch 190/248, train_loss: 0.1725, step time: 1.0288
Batch 191/248, train_loss: 0.7883, step time: 1.0298
Batch 192/248, train_loss: 0.3414, step time: 1.0291
Batch 193/248, train_loss: 0.3790, step time: 1.0292
Batch 194/248, train_loss: 0.1163, step time: 1.0315
Batch 195/248, train_loss: 0.9600, step time: 1.0267
Batch 196/248, train_loss: 0.9995, step time: 1.0197
Batch 197/248, train_loss: 0.2705, step time: 1.0311
Batch 198/248, train_loss: 0.9885, step time: 1.0265
Batch 199/248, train_loss: 0.1800, step time: 1.0299
Batch 200/248, train_loss: 0.1432, step time: 1.0272
Batch 201/248, train_loss: 0.1402, step time: 1.0247
Batch 202/248, train_loss: 0.4009, step time: 1.0308
Batch 203/248, train_loss: 0.8545, step time: 1.0317
Batch 204/248, train_loss: 0.0825, step time: 1.0266
Batch 205/248, train_loss: 0.3590, step time: 1.0303
Batch 206/248, train_loss: 0.7816, step time: 1.0326
Batch 207/248, train_loss: 0.1140, step time: 1.0277
Batch 208/248, train_loss: 0.2224, step time: 1.0298
Batch 209/248, train_loss: 0.2139, step time: 1.0283
Batch 210/248, train_loss: 0.0664, step time: 1.0256
Batch 211/248, train_loss: 0.0718, step time: 1.0288
Batch 212/248, train_loss: 0.3388, step time: 1.0304
Batch 213/248, train_loss: 0.2071, step time: 1.0302
Batch 214/248, train_loss: 0.0803, step time: 1.0264
Batch 215/248, train_loss: 0.2441, step time: 1.0318
Batch 216/248, train_loss: 0.1624, step time: 1.0321
Batch 217/248, train_loss: 0.3602, step time: 1.0315

```
-----  
Batch 218/248, train_loss: 0.9255, step time: 1.0310  
Batch 219/248, train_loss: 0.0853, step time: 1.0318  
Batch 220/248, train_loss: 0.2719, step time: 1.0311  
Batch 221/248, train_loss: 0.3393, step time: 1.0319  
Batch 222/248, train_loss: 0.1933, step time: 1.0282  
Batch 223/248, train_loss: 0.0489, step time: 1.0261  
Batch 224/248, train_loss: 0.0843, step time: 1.0261  
Batch 225/248, train_loss: 0.9247, step time: 1.0330  
Batch 226/248, train_loss: 0.3972, step time: 1.0275  
Batch 227/248, train_loss: 0.0983, step time: 1.0255  
Batch 228/248, train_loss: 0.2221, step time: 1.0258  
Batch 229/248, train_loss: 0.1498, step time: 1.0257  
Batch 230/248, train_loss: 0.0901, step time: 1.0270  
Batch 231/248, train_loss: 0.9535, step time: 1.0276  
Batch 232/248, train_loss: 0.0985, step time: 1.0296  
Batch 233/248, train_loss: 0.9904, step time: 1.0296  
Batch 234/248, train_loss: 0.7086, step time: 1.0342  
Batch 235/248, train_loss: 0.6667, step time: 1.0299  
Batch 236/248, train_loss: 0.9328, step time: 1.0341  
Batch 237/248, train_loss: 0.1303, step time: 1.0316  
Batch 238/248, train_loss: 0.1113, step time: 1.0288  
Batch 239/248, train_loss: 0.1337, step time: 1.0283  
Batch 240/248, train_loss: 0.5860, step time: 1.0326  
Batch 241/248, train_loss: 0.9745, step time: 1.0312  
Batch 242/248, train_loss: 0.4313, step time: 1.0273  
Batch 243/248, train_loss: 0.8569, step time: 1.0292  
Batch 244/248, train_loss: 0.6527, step time: 1.0287  
Batch 245/248, train_loss: 0.0751, step time: 1.0243  
Batch 246/248, train_loss: 0.6611, step time: 1.0303  
Batch 247/248, train_loss: 0.0908, step time: 1.0257  
Batch 248/248, train_loss: 0.9998, step time: 1.0183
```

Labels



Predictions



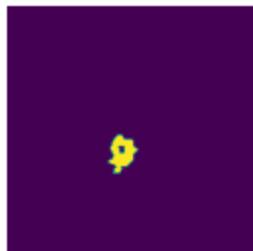
VAL

```
Batch 1/31, val_loss: 0.9515
```

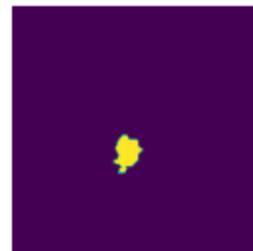
```
Batch 2/31, val_loss: 0.9955
Batch 3/31, val_loss: 0.9736
Batch 4/31, val_loss: 0.9509
Batch 5/31, val_loss: 0.9950
Batch 6/31, val_loss: 0.7040
Batch 7/31, val_loss: 0.8312
Batch 8/31, val_loss: 0.9536
Batch 9/31, val_loss: 0.6957
Batch 10/31, val_loss: 0.9123
Batch 11/31, val_loss: 0.8324
Batch 12/31, val_loss: 0.9803
Batch 13/31, val_loss: 0.9916
Batch 14/31, val_loss: 0.9498
Batch 15/31, val_loss: 0.9913
Batch 16/31, val_loss: 0.9822
Batch 17/31, val_loss: 0.9802
Batch 18/31, val_loss: 0.9410
Batch 19/31, val_loss: 0.7585
Batch 20/31, val_loss: 0.8920
Batch 21/31, val_loss: 0.8770
Batch 22/31, val_loss: 0.9872
Batch 23/31, val_loss: 0.9843
Batch 24/31, val_loss: 0.7500
Batch 25/31, val_loss: 0.8062
Batch 26/31, val_loss: 0.9214
Batch 27/31, val_loss: 0.9839
Batch 28/31, val_loss: 0.7477
Batch 29/31, val_loss: 0.9929
Batch 30/31, val_loss: 0.9651
Batch 31/31, val_loss: 0.9793
```

Labels

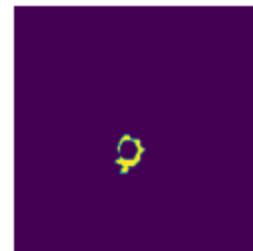
TC



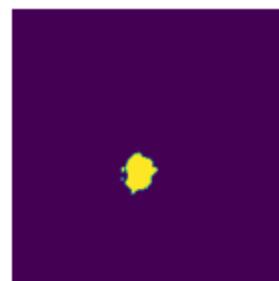
WT



ET



Predictions



epoch 25

```
average train loss: 0.4052
average validation loss: 0.9115
-----
```

```
saved as best model: true
current mean dice: 0.4276
current TC dice: 0.4549
current WT dice: 0.4516
current ET dice: 0.4155
Best Mean Metric: 0.4276
time consuming of epoch 25 is: 1553.1725
-----
epoch 26/100
TRAIN
    Batch 1/248, train_loss: 0.0867, step time: 1.0287
    Batch 2/248, train_loss: 0.9108, step time: 1.0367
    Batch 3/248, train_loss: 0.4388, step time: 1.0317
    Batch 4/248, train_loss: 0.9916, step time: 1.0282
    Batch 5/248, train_loss: 0.3018, step time: 1.0329
    Batch 6/248, train_loss: 0.7372, step time: 1.0291
    Batch 7/248, train_loss: 0.0639, step time: 1.0248
    Batch 8/248, train_loss: 0.7428, step time: 1.0260
    Batch 9/248, train_loss: 0.0524, step time: 1.0272
    Batch 10/248, train_loss: 0.2988, step time: 1.0338
    Batch 11/248, train_loss: 0.2703, step time: 1.0335
    Batch 12/248, train_loss: 0.7887, step time: 1.0310
    Batch 13/248, train_loss: 0.5064, step time: 1.0336
    Batch 14/248, train_loss: 0.0525, step time: 1.0233
    Batch 15/248, train_loss: 0.3458, step time: 1.0268
    Batch 16/248, train_loss: 0.1627, step time: 1.0284
    Batch 17/248, train_loss: 0.7184, step time: 1.0282
    Batch 18/248, train_loss: 0.7244, step time: 1.0282
    Batch 19/248, train_loss: 0.1384, step time: 1.0270
    Batch 20/248, train_loss: 0.1800, step time: 1.0299
    Batch 21/248, train_loss: 0.0730, step time: 1.0276
    Batch 22/248, train_loss: 0.9931, step time: 1.0255
    Batch 23/248, train_loss: 0.9953, step time: 1.0244
    Batch 24/248, train_loss: 0.0931, step time: 1.0275
    Batch 25/248, train_loss: 0.0808, step time: 1.0263
    Batch 26/248, train_loss: 0.9370, step time: 1.0303
    Batch 27/248, train_loss: 0.0764, step time: 1.0282
    Batch 28/248, train_loss: 0.1921, step time: 1.0310
    Batch 29/248, train_loss: 0.7370, step time: 1.0326
    Batch 30/248, train_loss: 0.3009, step time: 1.0348
    Batch 31/248, train_loss: 0.3512, step time: 1.0343
    Batch 32/248, train_loss: 0.0906, step time: 1.0288
    Batch 33/248, train_loss: 0.0827, step time: 1.0278
    Batch 34/248, train_loss: 0.0504, step time: 1.0248
    Batch 35/248, train_loss: 0.0514, step time: 1.0295
    Batch 36/248, train_loss: 0.9024, step time: 1.0308
    Batch 37/248, train_loss: 0.1836, step time: 1.0266
    Batch 38/248, train_loss: 0.3241, step time: 1.0302
    Batch 39/248, train_loss: 0.2078, step time: 1.0278
    Batch 40/248, train_loss: 0.9906, step time: 1.0286
    Batch 41/248, train_loss: 0.2613, step time: 1.0331
    Batch 42/248, train_loss: 0.0868, step time: 1.0266
    Batch 43/248, train_loss: 0.0688, step time: 1.0266
    Batch 44/248, train_loss: 0.2416, step time: 1.0319
    Batch 45/248, train_loss: 0.5886, step time: 1.0325
    Batch 46/248, train_loss: 0.2023, step time: 1.0329
    Batch 47/248, train_loss: 0.0905, step time: 1.0308
```

Batch 48/248, train_loss: 0.2534, step time: 1.0294
Batch 49/248, train_loss: 0.6428, step time: 1.0325
Batch 50/248, train_loss: 0.1768, step time: 1.0278
Batch 51/248, train_loss: 0.1767, step time: 1.0359
Batch 52/248, train_loss: 0.1526, step time: 1.0327
Batch 53/248, train_loss: 0.5118, step time: 1.0338
Batch 54/248, train_loss: 0.2507, step time: 1.0288
Batch 55/248, train_loss: 0.4338, step time: 1.0302
Batch 56/248, train_loss: 0.2531, step time: 1.0278
Batch 57/248, train_loss: 0.3765, step time: 1.0292
Batch 58/248, train_loss: 0.0891, step time: 1.0294
Batch 59/248, train_loss: 0.0954, step time: 1.0274
Batch 60/248, train_loss: 0.0707, step time: 1.0281
Batch 61/248, train_loss: 0.1282, step time: 1.0297
Batch 62/248, train_loss: 0.5689, step time: 1.0328
Batch 63/248, train_loss: 0.9245, step time: 1.0269
Batch 64/248, train_loss: 0.6304, step time: 1.0292
Batch 65/248, train_loss: 0.8514, step time: 1.0332
Batch 66/248, train_loss: 0.2638, step time: 1.0291
Batch 67/248, train_loss: 0.0931, step time: 1.0251
Batch 68/248, train_loss: 0.2200, step time: 1.0323
Batch 69/248, train_loss: 0.9584, step time: 1.0330
Batch 70/248, train_loss: 0.1277, step time: 1.0306
Batch 71/248, train_loss: 0.1692, step time: 1.0298
Batch 72/248, train_loss: 0.0747, step time: 1.0286
Batch 73/248, train_loss: 0.2286, step time: 1.0313
Batch 74/248, train_loss: 0.9985, step time: 1.0238
Batch 75/248, train_loss: 0.1634, step time: 1.0303
Batch 76/248, train_loss: 0.7542, step time: 1.0295
Batch 77/248, train_loss: 0.9828, step time: 1.0277
Batch 78/248, train_loss: 0.2020, step time: 1.0263
Batch 79/248, train_loss: 0.1489, step time: 1.0269
Batch 80/248, train_loss: 0.2262, step time: 1.0299
Batch 81/248, train_loss: 0.2843, step time: 1.0304
Batch 82/248, train_loss: 0.1106, step time: 1.0338
Batch 83/248, train_loss: 0.8663, step time: 1.0293
Batch 84/248, train_loss: 0.4360, step time: 1.0292
Batch 85/248, train_loss: 0.7963, step time: 1.0289
Batch 86/248, train_loss: 0.3640, step time: 1.0297
Batch 87/248, train_loss: 0.7002, step time: 1.0343
Batch 88/248, train_loss: 0.5196, step time: 1.0302
Batch 89/248, train_loss: 0.1002, step time: 1.0293
Batch 90/248, train_loss: 0.4756, step time: 1.0325
Batch 91/248, train_loss: 0.8934, step time: 1.0275
Batch 92/248, train_loss: 0.4694, step time: 1.0306
Batch 93/248, train_loss: 0.1697, step time: 1.0297
Batch 94/248, train_loss: 0.8000, step time: 1.0329
Batch 95/248, train_loss: 0.1905, step time: 1.0273
Batch 96/248, train_loss: 0.2135, step time: 1.0285
Batch 97/248, train_loss: 0.9784, step time: 1.0252
Batch 98/248, train_loss: 0.1416, step time: 1.0321
Batch 99/248, train_loss: 0.6418, step time: 1.0329
Batch 100/248, train_loss: 0.8103, step time: 1.0311
Batch 101/248, train_loss: 0.0491, step time: 1.0279
Batch 102/248, train_loss: 0.1550, step time: 1.0323
Batch 103/248, train_loss: 0.8745, step time: 1.0306

Batch 104/248, train_loss: 0.2750, step time: 1.0200

```
Batch 104/248, train_loss: 0.5750, step time: 1.0500
Batch 105/248, train_loss: 0.0832, step time: 1.0261
Batch 106/248, train_loss: 0.1722, step time: 1.0347
Batch 107/248, train_loss: 0.6821, step time: 1.0299
Batch 108/248, train_loss: 0.7278, step time: 1.0302
Batch 109/248, train_loss: 0.9769, step time: 1.0269
Batch 110/248, train_loss: 0.2950, step time: 1.0311
Batch 111/248, train_loss: 0.1383, step time: 1.0270
Batch 112/248, train_loss: 0.1873, step time: 1.0309
Batch 113/248, train_loss: 0.9893, step time: 1.0256
Batch 114/248, train_loss: 0.1561, step time: 1.0278
Batch 115/248, train_loss: 0.1961, step time: 1.0308
Batch 116/248, train_loss: 0.0973, step time: 1.0266
Batch 117/248, train_loss: 0.9133, step time: 1.0306
Batch 118/248, train_loss: 0.9251, step time: 1.0306
Batch 119/248, train_loss: 0.5243, step time: 1.0301
Batch 120/248, train_loss: 0.2655, step time: 1.0274
Batch 121/248, train_loss: 0.3550, step time: 1.0293
Batch 122/248, train_loss: 0.5789, step time: 1.0305
Batch 123/248, train_loss: 0.0900, step time: 1.0281
Batch 124/248, train_loss: 0.5084, step time: 1.0304
Batch 125/248, train_loss: 0.9020, step time: 1.0377
Batch 126/248, train_loss: 0.3168, step time: 1.0336
Batch 127/248, train_loss: 0.1256, step time: 1.0298
Batch 128/248, train_loss: 0.5694, step time: 1.0341
Batch 129/248, train_loss: 0.1159, step time: 1.0322
Batch 130/248, train_loss: 0.1103, step time: 1.0270
Batch 131/248, train_loss: 0.7781, step time: 1.0294
Batch 132/248, train_loss: 0.7130, step time: 1.0276
Batch 133/248, train_loss: 0.1743, step time: 1.0287
Batch 134/248, train_loss: 0.9723, step time: 1.0273
Batch 135/248, train_loss: 0.5863, step time: 1.0304
Batch 136/248, train_loss: 0.1483, step time: 1.0292
Batch 137/248, train_loss: 0.1274, step time: 1.0249
Batch 138/248, train_loss: 0.0715, step time: 1.0247
Batch 139/248, train_loss: 0.2061, step time: 1.0293
Batch 140/248, train_loss: 0.2345, step time: 1.0335
Batch 141/248, train_loss: 0.2148, step time: 1.0316
Batch 142/248, train_loss: 0.8101, step time: 1.0306
Batch 143/248, train_loss: 0.3728, step time: 1.0288
Batch 144/248, train_loss: 0.1183, step time: 1.0287
Batch 145/248, train_loss: 0.0996, step time: 1.0293
Batch 146/248, train_loss: 0.9632, step time: 1.0303
Batch 147/248, train_loss: 0.0526, step time: 1.0264
Batch 148/248, train_loss: 0.8964, step time: 1.0273
Batch 149/248, train_loss: 0.1308, step time: 1.0301
Batch 150/248, train_loss: 0.6859, step time: 1.0272
Batch 151/248, train_loss: 0.8198, step time: 1.0319
Batch 152/248, train_loss: 0.0457, step time: 1.0283
Batch 153/248, train_loss: 0.4686, step time: 1.0305
Batch 154/248, train_loss: 0.9010, step time: 1.0306
Batch 155/248, train_loss: 0.1795, step time: 1.0291
Batch 156/248, train_loss: 0.3566, step time: 1.0320
Batch 157/248, train_loss: 0.3451, step time: 1.0287
Batch 158/248, train_loss: 0.9932, step time: 1.0273
Batch 159/248, train_loss: 0.8531, step time: 1.0340
Batch 160/248, train_loss: 0.0943, step time: 1.0320
```

Batch 161/248, train_loss: 0.1130, step time: 1.0327
Batch 162/248, train_loss: 0.1050, step time: 1.0294
Batch 163/248, train_loss: 0.2804, step time: 1.0335
Batch 164/248, train_loss: 0.2759, step time: 1.0293
Batch 165/248, train_loss: 0.9941, step time: 1.0247
Batch 166/248, train_loss: 0.1413, step time: 1.0308
Batch 167/248, train_loss: 0.2191, step time: 1.0307
Batch 168/248, train_loss: 0.1932, step time: 1.0308
Batch 169/248, train_loss: 0.0972, step time: 1.0296
Batch 170/248, train_loss: 0.8374, step time: 1.0289
Batch 171/248, train_loss: 0.0994, step time: 1.0275
Batch 172/248, train_loss: 0.9833, step time: 1.0256
Batch 173/248, train_loss: 0.1216, step time: 1.0264
Batch 174/248, train_loss: 0.8164, step time: 1.0304
Batch 175/248, train_loss: 0.1472, step time: 1.0286
Batch 176/248, train_loss: 0.4352, step time: 1.0312
Batch 177/248, train_loss: 0.5949, step time: 1.0330
Batch 178/248, train_loss: 0.2473, step time: 1.0318
Batch 179/248, train_loss: 0.0884, step time: 1.0289
Batch 180/248, train_loss: 0.3900, step time: 1.0302
Batch 181/248, train_loss: 0.1245, step time: 1.0283
Batch 182/248, train_loss: 0.9425, step time: 1.0274
Batch 183/248, train_loss: 0.2697, step time: 1.0276
Batch 184/248, train_loss: 0.6536, step time: 1.0315
Batch 185/248, train_loss: 0.1376, step time: 1.0300
Batch 186/248, train_loss: 0.1378, step time: 1.0279
Batch 187/248, train_loss: 0.2206, step time: 1.0270
Batch 188/248, train_loss: 0.2634, step time: 1.0305
Batch 189/248, train_loss: 0.8701, step time: 1.0321
Batch 190/248, train_loss: 0.1563, step time: 1.0280
Batch 191/248, train_loss: 0.7519, step time: 1.0301
Batch 192/248, train_loss: 0.3466, step time: 1.0310
Batch 193/248, train_loss: 0.4083, step time: 1.0285
Batch 194/248, train_loss: 0.1046, step time: 1.0306
Batch 195/248, train_loss: 0.9161, step time: 1.0295
Batch 196/248, train_loss: 0.9974, step time: 1.0252
Batch 197/248, train_loss: 0.2390, step time: 1.0317
Batch 198/248, train_loss: 0.9960, step time: 1.0277
Batch 199/248, train_loss: 0.1569, step time: 1.0335
Batch 200/248, train_loss: 0.1312, step time: 1.0282
Batch 201/248, train_loss: 0.1334, step time: 1.0279
Batch 202/248, train_loss: 0.4094, step time: 1.0318
Batch 203/248, train_loss: 0.8299, step time: 1.0308
Batch 204/248, train_loss: 0.0887, step time: 1.0298
Batch 205/248, train_loss: 0.3383, step time: 1.0305
Batch 206/248, train_loss: 0.7091, step time: 1.0329
Batch 207/248, train_loss: 0.0956, step time: 1.0307
Batch 208/248, train_loss: 0.1849, step time: 1.0308
Batch 209/248, train_loss: 0.2049, step time: 1.0297
Batch 210/248, train_loss: 0.0696, step time: 1.0251
Batch 211/248, train_loss: 0.0698, step time: 1.0263
Batch 212/248, train_loss: 0.6444, step time: 1.0329
Batch 213/248, train_loss: 0.2207, step time: 1.0345
Batch 214/248, train_loss: 0.0746, step time: 1.0272
Batch 215/248, train_loss: 0.2381, step time: 1.0327
Batch 216/248, train_loss: 0.1709, step time: 1.0327
Batch 217/248, train_loss: 0.4582, step time: 1.0270

Batch 217/248, train_loss: 0.4505, step time: 1.0250
Batch 218/248, train_loss: 0.8946, step time: 1.0304
Batch 219/248, train_loss: 0.1065, step time: 1.0286
Batch 220/248, train_loss: 0.2650, step time: 1.0310
Batch 221/248, train_loss: 0.3446, step time: 1.0344
Batch 222/248, train_loss: 0.2710, step time: 1.0313
Batch 223/248, train_loss: 0.0482, step time: 1.0259
Batch 224/248, train_loss: 0.0883, step time: 1.0258
Batch 225/248, train_loss: 0.9159, step time: 1.0321
Batch 226/248, train_loss: 0.5967, step time: 1.0292
Batch 227/248, train_loss: 0.0966, step time: 1.0280
Batch 228/248, train_loss: 0.1771, step time: 1.0285
Batch 229/248, train_loss: 0.1682, step time: 1.0268
Batch 230/248, train_loss: 0.0858, step time: 1.0286
Batch 231/248, train_loss: 0.9201, step time: 1.0296
Batch 232/248, train_loss: 0.0976, step time: 1.0298
Batch 233/248, train_loss: 0.9922, step time: 1.0283
Batch 234/248, train_loss: 0.6964, step time: 1.0289
Batch 235/248, train_loss: 0.6591, step time: 1.0305
Batch 236/248, train_loss: 0.9370, step time: 1.0317
Batch 237/248, train_loss: 0.1296, step time: 1.0314
Batch 238/248, train_loss: 0.1142, step time: 1.0316
Batch 239/248, train_loss: 0.1350, step time: 1.0289
Batch 240/248, train_loss: 0.4428, step time: 1.0321
Batch 241/248, train_loss: 0.9664, step time: 1.0307
Batch 242/248, train_loss: 0.3658, step time: 1.0311
Batch 243/248, train_loss: 0.8023, step time: 1.0324
Batch 244/248, train_loss: 0.7179, step time: 1.0323
Batch 245/248, train_loss: 0.0740, step time: 1.0277
Batch 246/248, train_loss: 0.7022, step time: 1.0281
Batch 247/248, train_loss: 0.1224, step time: 1.0272
Batch 248/248, train_loss: 0.9995, step time: 1.0276

Labels

TC



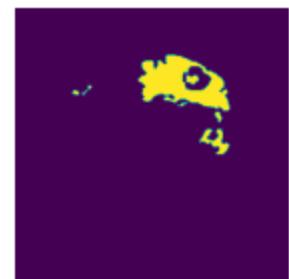
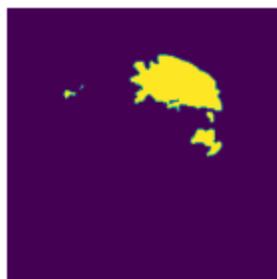
WT



ET



Predictions



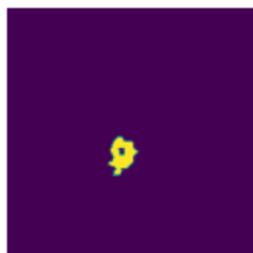
VAL

Batch 1/31, val loss: 0.9476

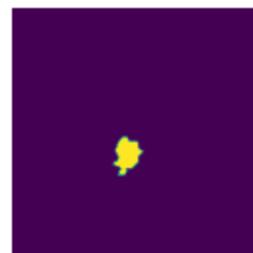
```
Batch 2/31, val_loss: 0.9943
Batch 3/31, val_loss: 0.9733
Batch 4/31, val_loss: 0.9486
Batch 5/31, val_loss: 0.9934
Batch 6/31, val_loss: 0.7013
Batch 7/31, val_loss: 0.8394
Batch 8/31, val_loss: 0.9554
Batch 9/31, val_loss: 0.6973
Batch 10/31, val_loss: 0.9168
Batch 11/31, val_loss: 0.8327
Batch 12/31, val_loss: 0.9795
Batch 13/31, val_loss: 0.9897
Batch 14/31, val_loss: 0.9427
Batch 15/31, val_loss: 0.9907
Batch 16/31, val_loss: 0.9773
Batch 17/31, val_loss: 0.9815
Batch 18/31, val_loss: 0.9393
Batch 19/31, val_loss: 0.7595
Batch 20/31, val_loss: 0.8805
Batch 21/31, val_loss: 0.8772
Batch 22/31, val_loss: 0.9846
Batch 23/31, val_loss: 0.9822
Batch 24/31, val_loss: 0.7517
Batch 25/31, val_loss: 0.8124
Batch 26/31, val_loss: 0.9217
Batch 27/31, val_loss: 0.9813
Batch 28/31, val_loss: 0.7686
Batch 29/31, val_loss: 0.9952
Batch 30/31, val_loss: 0.9680
Batch 31/31, val_loss: 0.9793
```

Labels

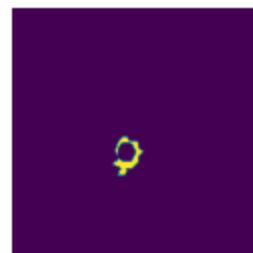
TC



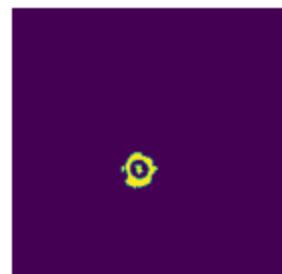
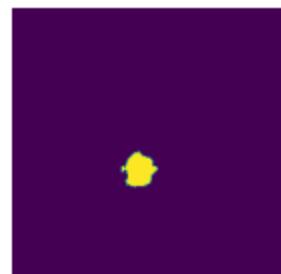
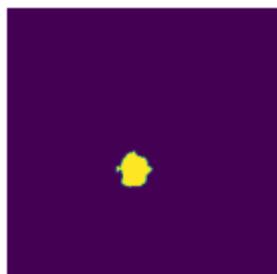
WT



ET



Predictions



epoch 26

```
average train loss: 0.4059
average validation loss: 0.9117
```

```
saved as best model: False
current mean dice: 0.4109
current TC dice: 0.4301
current WT dice: 0.4308
current ET dice: 0.4100
Best Mean Metric: 0.4276
time consuming of epoch 26 is: 1558.7116
-----
epoch 27/100
TRAIN
Batch 1/248, train_loss: 0.1049, step time: 1.0311
Batch 2/248, train_loss: 0.9256, step time: 1.0338
Batch 3/248, train_loss: 0.4684, step time: 1.0337
Batch 4/248, train_loss: 0.9847, step time: 1.0311
Batch 5/248, train_loss: 0.2563, step time: 1.0348
Batch 6/248, train_loss: 0.6871, step time: 1.0314
Batch 7/248, train_loss: 0.0684, step time: 1.0284
Batch 8/248, train_loss: 0.7264, step time: 1.0250
Batch 9/248, train_loss: 0.0551, step time: 1.0249
Batch 10/248, train_loss: 0.2842, step time: 1.0320
Batch 11/248, train_loss: 0.2919, step time: 1.0324
Batch 12/248, train_loss: 0.7292, step time: 1.0320
Batch 13/248, train_loss: 0.6322, step time: 1.0282
Batch 14/248, train_loss: 0.0525, step time: 1.0257
Batch 15/248, train_loss: 0.3565, step time: 1.0263
Batch 16/248, train_loss: 0.1751, step time: 1.0297
Batch 17/248, train_loss: 0.7177, step time: 1.0348
Batch 18/248, train_loss: 0.7386, step time: 1.0338
Batch 19/248, train_loss: 0.0928, step time: 1.0277
Batch 20/248, train_loss: 0.1731, step time: 1.0296
Batch 21/248, train_loss: 0.0650, step time: 1.0260
Batch 22/248, train_loss: 0.9936, step time: 1.0275
Batch 23/248, train_loss: 0.9956, step time: 1.0261
Batch 24/248, train_loss: 0.0894, step time: 1.0291
Batch 25/248, train_loss: 0.0846, step time: 1.0397
Batch 26/248, train_loss: 0.8964, step time: 1.0312
Batch 27/248, train_loss: 0.0747, step time: 1.0293
Batch 28/248, train_loss: 0.1817, step time: 1.0298
Batch 29/248, train_loss: 0.7301, step time: 1.0350
Batch 30/248, train_loss: 0.2606, step time: 1.0328
Batch 31/248, train_loss: 0.3536, step time: 1.0304
Batch 32/248, train_loss: 0.0898, step time: 1.0289
Batch 33/248, train_loss: 0.0818, step time: 1.0309
Batch 34/248, train_loss: 0.0477, step time: 1.0270
Batch 35/248, train_loss: 0.0511, step time: 1.0243
Batch 36/248, train_loss: 0.9299, step time: 1.0292
Batch 37/248, train_loss: 0.1614, step time: 1.0277
Batch 38/248, train_loss: 0.3256, step time: 1.0294
Batch 39/248, train_loss: 0.2100, step time: 1.0269
Batch 40/248, train_loss: 0.9927, step time: 1.0279
Batch 41/248, train_loss: 0.2674, step time: 1.0294
Batch 42/248, train_loss: 0.0819, step time: 1.0295
Batch 43/248, train_loss: 0.0688, step time: 1.0275
Batch 44/248, train_loss: 0.2893, step time: 1.0292
Batch 45/248, train_loss: 0.5638, step time: 1.0327
Batch 46/248, train_loss: 0.1854, step time: 1.0311
Batch 47/248, train_loss: 0.0955, step time: 1.0306
```

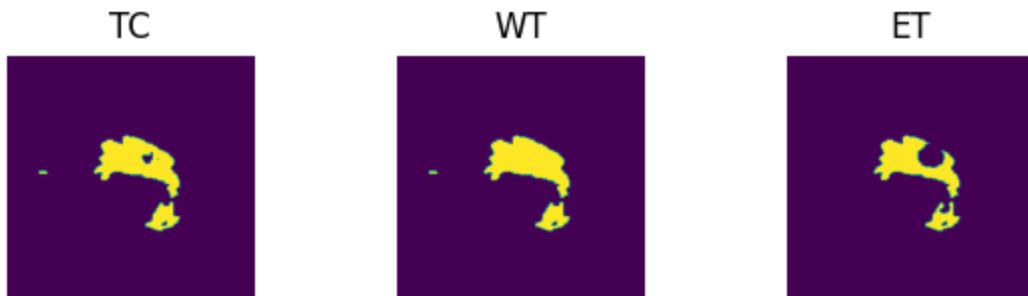
Batch 48/248, train_loss: 0.2452, step time: 1.0285
Batch 49/248, train_loss: 0.6278, step time: 1.0313
Batch 50/248, train_loss: 0.1646, step time: 1.0286
Batch 51/248, train_loss: 0.3124, step time: 1.0314
Batch 52/248, train_loss: 0.1418, step time: 1.0320
Batch 53/248, train_loss: 0.4501, step time: 1.0302
Batch 54/248, train_loss: 0.2580, step time: 1.0348
Batch 55/248, train_loss: 0.6138, step time: 1.0333
Batch 56/248, train_loss: 0.2307, step time: 1.0336
Batch 57/248, train_loss: 0.3291, step time: 1.0298
Batch 58/248, train_loss: 0.0945, step time: 1.0286
Batch 59/248, train_loss: 0.0876, step time: 1.0272
Batch 60/248, train_loss: 0.0722, step time: 1.0261
Batch 61/248, train_loss: 0.1183, step time: 1.0280
Batch 62/248, train_loss: 0.3095, step time: 1.0334
Batch 63/248, train_loss: 0.8832, step time: 1.0271
Batch 64/248, train_loss: 0.6774, step time: 1.0294
Batch 65/248, train_loss: 0.7263, step time: 1.0311
Batch 66/248, train_loss: 0.2415, step time: 1.0346
Batch 67/248, train_loss: 0.0814, step time: 1.0276
Batch 68/248, train_loss: 0.1186, step time: 1.0301
Batch 69/248, train_loss: 0.8772, step time: 1.0307
Batch 70/248, train_loss: 0.1264, step time: 1.0273
Batch 71/248, train_loss: 0.1565, step time: 1.0318
Batch 72/248, train_loss: 0.0788, step time: 1.0285
Batch 73/248, train_loss: 0.2155, step time: 1.0291
Batch 74/248, train_loss: 0.9975, step time: 1.0248
Batch 75/248, train_loss: 0.1578, step time: 1.0302
Batch 76/248, train_loss: 0.7629, step time: 1.0307
Batch 77/248, train_loss: 0.9742, step time: 1.0279
Batch 78/248, train_loss: 0.1609, step time: 1.0303
Batch 79/248, train_loss: 0.1462, step time: 1.0302
Batch 80/248, train_loss: 0.2316, step time: 1.0317
Batch 81/248, train_loss: 0.2566, step time: 1.0330
Batch 82/248, train_loss: 0.0849, step time: 1.0281
Batch 83/248, train_loss: 0.7967, step time: 1.0310
Batch 84/248, train_loss: 0.2886, step time: 1.0313
Batch 85/248, train_loss: 0.8659, step time: 1.0326
Batch 86/248, train_loss: 0.2950, step time: 1.0303
Batch 87/248, train_loss: 0.6558, step time: 1.0333
Batch 88/248, train_loss: 0.4871, step time: 1.0328
Batch 89/248, train_loss: 0.1180, step time: 1.0305
Batch 90/248, train_loss: 0.4296, step time: 1.0290
Batch 91/248, train_loss: 0.8182, step time: 1.0292
Batch 92/248, train_loss: 0.5384, step time: 1.0287
Batch 93/248, train_loss: 0.2057, step time: 1.0274
Batch 94/248, train_loss: 0.7196, step time: 1.0325
Batch 95/248, train_loss: 0.1936, step time: 1.0321
Batch 96/248, train_loss: 0.2762, step time: 1.0293
Batch 97/248, train_loss: 0.9663, step time: 1.0277
Batch 98/248, train_loss: 0.1932, step time: 1.0287
Batch 99/248, train_loss: 0.6402, step time: 1.0318
Batch 100/248, train_loss: 0.7852, step time: 0.9947
Batch 101/248, train_loss: 0.0499, step time: 1.0235
Batch 102/248, train_loss: 0.1597, step time: 1.0285
Batch 103/248, train_loss: 0.8496, step time: 1.0277

Batch 104/248, train_loss: 0.3556, step time: 1.0269
Batch 105/248, train_loss: 0.1055, step time: 1.0264
Batch 106/248, train_loss: 0.2211, step time: 1.0302
Batch 107/248, train_loss: 0.7732, step time: 1.0310
Batch 108/248, train_loss: 0.7456, step time: 1.0291
Batch 109/248, train_loss: 0.9907, step time: 1.0262
Batch 110/248, train_loss: 0.3952, step time: 1.0298
Batch 111/248, train_loss: 0.1283, step time: 1.0330
Batch 112/248, train_loss: 0.1616, step time: 1.0283
Batch 113/248, train_loss: 0.9838, step time: 1.0309
Batch 114/248, train_loss: 0.1557, step time: 1.0303
Batch 115/248, train_loss: 0.2171, step time: 1.0288
Batch 116/248, train_loss: 0.0855, step time: 1.0286
Batch 117/248, train_loss: 0.8957, step time: 1.0290
Batch 118/248, train_loss: 0.9008, step time: 1.0277
Batch 119/248, train_loss: 0.4543, step time: 1.0303
Batch 120/248, train_loss: 0.2631, step time: 1.0279
Batch 121/248, train_loss: 0.3513, step time: 1.0308
Batch 122/248, train_loss: 0.6186, step time: 1.0322
Batch 123/248, train_loss: 0.0784, step time: 1.0282
Batch 124/248, train_loss: 0.4859, step time: 1.0313
Batch 125/248, train_loss: 0.8796, step time: 1.0326
Batch 126/248, train_loss: 0.2737, step time: 1.0294
Batch 127/248, train_loss: 0.1144, step time: 1.0309
Batch 128/248, train_loss: 0.5010, step time: 1.0330
Batch 129/248, train_loss: 0.1109, step time: 1.0282
Batch 130/248, train_loss: 0.1139, step time: 1.0261
Batch 131/248, train_loss: 0.7568, step time: 1.0322
Batch 132/248, train_loss: 0.6863, step time: 1.0315
Batch 133/248, train_loss: 0.1515, step time: 1.0303
Batch 134/248, train_loss: 0.9382, step time: 1.0282
Batch 135/248, train_loss: 0.4515, step time: 1.0329
Batch 136/248, train_loss: 0.1403, step time: 1.0308
Batch 137/248, train_loss: 0.1521, step time: 1.0286
Batch 138/248, train_loss: 0.0686, step time: 1.0232
Batch 139/248, train_loss: 0.2037, step time: 1.0294
Batch 140/248, train_loss: 0.2532, step time: 1.0293
Batch 141/248, train_loss: 0.2941, step time: 1.0301
Batch 142/248, train_loss: 0.7733, step time: 1.0311
Batch 143/248, train_loss: 0.3876, step time: 1.0293
Batch 144/248, train_loss: 0.1250, step time: 1.0265
Batch 145/248, train_loss: 0.0522, step time: 1.0241
Batch 146/248, train_loss: 0.9953, step time: 1.0263
Batch 147/248, train_loss: 0.0515, step time: 1.0287
Batch 148/248, train_loss: 0.9293, step time: 1.0288
Batch 149/248, train_loss: 0.1437, step time: 1.0264
Batch 150/248, train_loss: 0.6870, step time: 1.0289
Batch 151/248, train_loss: 0.9250, step time: 1.0308
Batch 152/248, train_loss: 0.0506, step time: 1.0263
Batch 153/248, train_loss: 0.4652, step time: 1.0331
Batch 154/248, train_loss: 0.9379, step time: 1.0284
Batch 155/248, train_loss: 0.2415, step time: 1.0278
Batch 156/248, train_loss: 0.2287, step time: 1.0295
Batch 157/248, train_loss: 0.3517, step time: 1.0265
Batch 158/248, train_loss: 0.9976, step time: 1.0212
Batch 159/248, train_loss: 0.7865, step time: 1.0290
Batch 160/248, train_loss: 0.0813, step time: 1.0301

Batch 161/248, train_loss: 0.0984, step time: 1.0298
Batch 162/248, train_loss: 0.1170, step time: 1.0281
Batch 163/248, train_loss: 0.2552, step time: 1.0315
Batch 164/248, train_loss: 0.2907, step time: 1.0282
Batch 165/248, train_loss: 0.9913, step time: 1.0267
Batch 166/248, train_loss: 0.2070, step time: 1.0281
Batch 167/248, train_loss: 0.2118, step time: 1.0318
Batch 168/248, train_loss: 0.2140, step time: 1.0273
Batch 169/248, train_loss: 0.0934, step time: 1.0298
Batch 170/248, train_loss: 0.8718, step time: 1.0269
Batch 171/248, train_loss: 0.0945, step time: 1.0248
Batch 172/248, train_loss: 0.9727, step time: 1.0278
Batch 173/248, train_loss: 0.0979, step time: 1.0248
Batch 174/248, train_loss: 0.7930, step time: 1.0283
Batch 175/248, train_loss: 0.1576, step time: 1.0245
Batch 176/248, train_loss: 0.4058, step time: 1.0260
Batch 177/248, train_loss: 0.5721, step time: 1.0300
Batch 178/248, train_loss: 0.2698, step time: 1.0315
Batch 179/248, train_loss: 0.0908, step time: 1.0241
Batch 180/248, train_loss: 0.3871, step time: 1.0261
Batch 181/248, train_loss: 0.1139, step time: 1.0247
Batch 182/248, train_loss: 0.9891, step time: 1.0251
Batch 183/248, train_loss: 0.2099, step time: 1.0323
Batch 184/248, train_loss: 0.5193, step time: 1.0329
Batch 185/248, train_loss: 0.1313, step time: 1.0287
Batch 186/248, train_loss: 0.1304, step time: 1.0280
Batch 187/248, train_loss: 0.2162, step time: 1.0289
Batch 188/248, train_loss: 0.3105, step time: 1.0295
Batch 189/248, train_loss: 0.8941, step time: 1.0282
Batch 190/248, train_loss: 0.1474, step time: 1.0361
Batch 191/248, train_loss: 0.7839, step time: 1.0291
Batch 192/248, train_loss: 0.3686, step time: 1.0262
Batch 193/248, train_loss: 0.3950, step time: 1.0296
Batch 194/248, train_loss: 0.1047, step time: 1.0279
Batch 195/248, train_loss: 0.9181, step time: 1.0312
Batch 196/248, train_loss: 0.9964, step time: 1.0240
Batch 197/248, train_loss: 0.2344, step time: 1.0306
Batch 198/248, train_loss: 0.9903, step time: 1.0279
Batch 199/248, train_loss: 0.1488, step time: 1.0303
Batch 200/248, train_loss: 0.1366, step time: 1.0286
Batch 201/248, train_loss: 0.1299, step time: 1.0275
Batch 202/248, train_loss: 0.4278, step time: 1.0306
Batch 203/248, train_loss: 0.8437, step time: 1.0305
Batch 204/248, train_loss: 0.0867, step time: 1.0338
Batch 205/248, train_loss: 0.3426, step time: 1.0299
Batch 206/248, train_loss: 0.7887, step time: 1.0310
Batch 207/248, train_loss: 0.1040, step time: 1.0297
Batch 208/248, train_loss: 0.2102, step time: 1.0266
Batch 209/248, train_loss: 0.1644, step time: 1.0262
Batch 210/248, train_loss: 0.0642, step time: 1.0258
Batch 211/248, train_loss: 0.0682, step time: 1.0225
Batch 212/248, train_loss: 0.2740, step time: 1.0285
Batch 213/248, train_loss: 0.2013, step time: 1.0301
Batch 214/248, train_loss: 0.0866, step time: 1.0273
Batch 215/248, train_loss: 0.2638, step time: 1.0303
Batch 216/248, train_loss: 0.2011, step time: 1.0279

```
Batch 217/248, train_loss: 0.4019, step time: 1.0289
Batch 218/248, train_loss: 0.9172, step time: 1.0306
Batch 219/248, train_loss: 0.0736, step time: 1.0278
Batch 220/248, train_loss: 0.2647, step time: 1.0314
Batch 221/248, train_loss: 0.3286, step time: 1.0325
Batch 222/248, train_loss: 0.1985, step time: 1.0297
Batch 223/248, train_loss: 0.0451, step time: 1.0248
Batch 224/248, train_loss: 0.0843, step time: 1.0237
Batch 225/248, train_loss: 0.6965, step time: 1.0316
Batch 226/248, train_loss: 0.2600, step time: 1.0320
Batch 227/248, train_loss: 0.1023, step time: 1.0261
Batch 228/248, train_loss: 0.2637, step time: 1.0271
Batch 229/248, train_loss: 0.1349, step time: 1.0283
Batch 230/248, train_loss: 0.0960, step time: 1.0271
Batch 231/248, train_loss: 0.9339, step time: 1.0263
Batch 232/248, train_loss: 0.0881, step time: 1.0279
Batch 233/248, train_loss: 0.9863, step time: 1.0277
Batch 234/248, train_loss: 0.6216, step time: 1.0322
Batch 235/248, train_loss: 0.6878, step time: 1.0321
Batch 236/248, train_loss: 0.9088, step time: 1.0285
Batch 237/248, train_loss: 0.1202, step time: 1.0275
Batch 238/248, train_loss: 0.1280, step time: 1.0269
Batch 239/248, train_loss: 0.0831, step time: 1.0260
Batch 240/248, train_loss: 0.5116, step time: 1.0351
Batch 241/248, train_loss: 0.9594, step time: 1.0305
Batch 242/248, train_loss: 0.2588, step time: 1.0289
Batch 243/248, train_loss: 0.7982, step time: 1.0301
Batch 244/248, train_loss: 0.6734, step time: 1.0274
Batch 245/248, train_loss: 0.0716, step time: 1.0265
Batch 246/248, train_loss: 0.6876, step time: 1.0291
Batch 247/248, train_loss: 0.0866, step time: 1.0230
Batch 248/248, train_loss: 0.9999, step time: 1.0181
```

Labels



Predictions



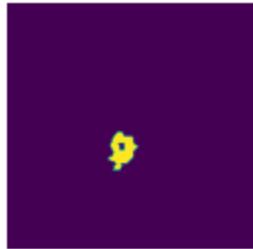
VAL

Batch 1/21 val loss: 0.9286

```
Batch 1/31, val_loss: 0.9280
Batch 2/31, val_loss: 0.9941
Batch 3/31, val_loss: 0.9729
Batch 4/31, val_loss: 0.9484
Batch 5/31, val_loss: 0.9935
Batch 6/31, val_loss: 0.6976
Batch 7/31, val_loss: 0.8269
Batch 8/31, val_loss: 0.9590
Batch 9/31, val_loss: 0.6963
Batch 10/31, val_loss: 0.9121
Batch 11/31, val_loss: 0.8304
Batch 12/31, val_loss: 0.9778
Batch 13/31, val_loss: 0.9900
Batch 14/31, val_loss: 0.9413
Batch 15/31, val_loss: 0.9888
Batch 16/31, val_loss: 0.9844
Batch 17/31, val_loss: 0.9794
Batch 18/31, val_loss: 0.9382
Batch 19/31, val_loss: 0.7526
Batch 20/31, val_loss: 0.8833
Batch 21/31, val_loss: 0.8746
Batch 22/31, val_loss: 0.9832
Batch 23/31, val_loss: 0.9823
Batch 24/31, val_loss: 0.7518
Batch 25/31, val_loss: 0.8055
Batch 26/31, val_loss: 0.9225
Batch 27/31, val_loss: 0.9808
Batch 28/31, val_loss: 0.7495
Batch 29/31, val_loss: 0.9950
Batch 30/31, val_loss: 0.9658
Batch 31/31, val_loss: 0.9781
```

Labels

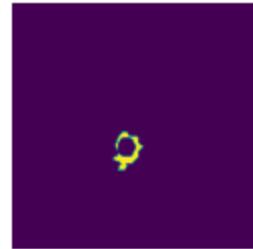
TC



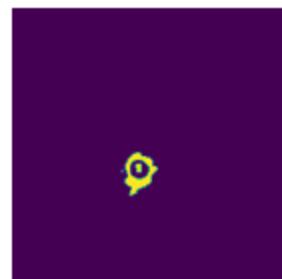
WT



ET



Predictions



epoch 27

average train loss: 0.3966
average validation loss: 0.9092

```
saved as best model: True
current mean dice: 0.4454
current TC dice: 0.4685
current WT dice: 0.4690
current ET dice: 0.4399
Best Mean Metric: 0.4454
time consuming of epoch 27 is: 1555.5529
-----
epoch 28/100
TRAIN
Batch 1/248, train_loss: 0.0806, step time: 1.0334
Batch 2/248, train_loss: 0.8519, step time: 1.0295
Batch 3/248, train_loss: 0.5201, step time: 1.0294
Batch 4/248, train_loss: 0.9918, step time: 1.0260
Batch 5/248, train_loss: 0.2382, step time: 1.0298
Batch 6/248, train_loss: 0.6864, step time: 1.0292
Batch 7/248, train_loss: 0.0669, step time: 1.0257
Batch 8/248, train_loss: 0.7201, step time: 1.0265
Batch 9/248, train_loss: 0.0406, step time: 1.0245
Batch 10/248, train_loss: 0.2975, step time: 1.0318
Batch 11/248, train_loss: 0.2482, step time: 1.0311
Batch 12/248, train_loss: 0.7487, step time: 1.0304
Batch 13/248, train_loss: 0.4888, step time: 1.0284
Batch 14/248, train_loss: 0.0579, step time: 1.0286
Batch 15/248, train_loss: 0.3624, step time: 1.0271
Batch 16/248, train_loss: 0.1644, step time: 1.0270
Batch 17/248, train_loss: 0.6239, step time: 1.0297
Batch 18/248, train_loss: 0.6886, step time: 1.0272
Batch 19/248, train_loss: 0.1032, step time: 1.0268
Batch 20/248, train_loss: 0.1626, step time: 1.0281
Batch 21/248, train_loss: 0.0740, step time: 1.0281
Batch 22/248, train_loss: 0.9913, step time: 1.0277
Batch 23/248, train_loss: 0.9933, step time: 1.0249
Batch 24/248, train_loss: 0.0819, step time: 1.0276
Batch 25/248, train_loss: 0.0843, step time: 1.0318
Batch 26/248, train_loss: 0.8668, step time: 1.0345
Batch 27/248, train_loss: 0.0760, step time: 1.0279
Batch 28/248, train_loss: 0.1703, step time: 1.0321
Batch 29/248, train_loss: 0.6343, step time: 1.0305
Batch 30/248, train_loss: 0.2728, step time: 1.0269
Batch 31/248, train_loss: 0.3697, step time: 1.0281
Batch 32/248, train_loss: 0.0837, step time: 1.0317
Batch 33/248, train_loss: 0.0901, step time: 1.0276
Batch 34/248, train_loss: 0.0457, step time: 1.0240
Batch 35/248, train_loss: 0.0506, step time: 1.0254
Batch 36/248, train_loss: 0.8339, step time: 1.0298
Batch 37/248, train_loss: 0.1746, step time: 1.0267
Batch 38/248, train_loss: 0.3160, step time: 1.0278
Batch 39/248, train_loss: 0.2103, step time: 1.0296
Batch 40/248, train_loss: 0.9731, step time: 1.0296
Batch 41/248, train_loss: 0.2221, step time: 1.0307
Batch 42/248, train_loss: 0.0695, step time: 1.0310
Batch 43/248, train_loss: 0.0645, step time: 1.0273
Batch 44/248, train_loss: 0.5173, step time: 1.0296
Batch 45/248, train_loss: 0.5138, step time: 1.0324
Batch 46/248, train_loss: 0.1978, step time: 1.0274
Batch 47/248, train_loss: 0.0000, step time: 1.0272
```

Batch 47/248, train_loss: 0.0882, step time: 1.0273
Batch 48/248, train_loss: 0.2608, step time: 1.0288
Batch 49/248, train_loss: 0.5983, step time: 1.0286
Batch 50/248, train_loss: 0.1666, step time: 1.0293
Batch 51/248, train_loss: 0.1813, step time: 1.0300
Batch 52/248, train_loss: 0.1206, step time: 1.0294
Batch 53/248, train_loss: 0.4565, step time: 1.0312
Batch 54/248, train_loss: 0.2445, step time: 1.0286
Batch 55/248, train_loss: 0.4684, step time: 1.0286
Batch 56/248, train_loss: 0.2426, step time: 1.0292
Batch 57/248, train_loss: 0.3072, step time: 1.0298
Batch 58/248, train_loss: 0.0846, step time: 1.0264
Batch 59/248, train_loss: 0.0918, step time: 1.0260
Batch 60/248, train_loss: 0.0669, step time: 1.0285
Batch 61/248, train_loss: 0.1151, step time: 1.0248
Batch 62/248, train_loss: 0.2729, step time: 1.0312
Batch 63/248, train_loss: 0.8281, step time: 1.0309
Batch 64/248, train_loss: 0.7119, step time: 1.0310
Batch 65/248, train_loss: 0.7122, step time: 1.0314
Batch 66/248, train_loss: 0.2091, step time: 1.0318
Batch 67/248, train_loss: 0.0764, step time: 1.0256
Batch 68/248, train_loss: 0.1572, step time: 1.0295
Batch 69/248, train_loss: 0.9060, step time: 1.0300
Batch 70/248, train_loss: 0.1299, step time: 1.0307
Batch 71/248, train_loss: 0.1999, step time: 1.0319
Batch 72/248, train_loss: 0.0683, step time: 1.0269
Batch 73/248, train_loss: 0.2024, step time: 1.0270
Batch 74/248, train_loss: 0.9960, step time: 1.0240
Batch 75/248, train_loss: 0.1349, step time: 1.0271
Batch 76/248, train_loss: 0.7708, step time: 1.0303
Batch 77/248, train_loss: 0.9849, step time: 1.0285
Batch 78/248, train_loss: 0.1821, step time: 1.0273
Batch 79/248, train_loss: 0.1551, step time: 1.0313
Batch 80/248, train_loss: 0.2139, step time: 1.0270
Batch 81/248, train_loss: 0.3619, step time: 1.0316
Batch 82/248, train_loss: 0.0929, step time: 1.0277
Batch 83/248, train_loss: 0.7281, step time: 1.0307
Batch 84/248, train_loss: 0.3560, step time: 1.0355
Batch 85/248, train_loss: 0.9490, step time: 1.0290
Batch 86/248, train_loss: 0.3140, step time: 1.0264
Batch 87/248, train_loss: 0.5615, step time: 1.0309
Batch 88/248, train_loss: 0.4553, step time: 1.0292
Batch 89/248, train_loss: 0.0983, step time: 1.0310
Batch 90/248, train_loss: 0.4171, step time: 1.0287
Batch 91/248, train_loss: 0.8490, step time: 1.0323
Batch 92/248, train_loss: 0.3668, step time: 1.0284
Batch 93/248, train_loss: 0.1805, step time: 1.0293
Batch 94/248, train_loss: 0.5405, step time: 1.0311
Batch 95/248, train_loss: 0.1796, step time: 1.0311
Batch 96/248, train_loss: 0.2348, step time: 1.0302
Batch 97/248, train_loss: 0.9517, step time: 1.0283
Batch 98/248, train_loss: 0.1739, step time: 1.0307
Batch 99/248, train_loss: 0.5299, step time: 1.0294
Batch 100/248, train_loss: 0.6095, step time: 1.0324
Batch 101/248, train_loss: 0.0538, step time: 1.0269
Batch 102/248, train_loss: 0.1401, step time: 1.0275
Batch 103/248, train_loss: 0.8043, step time: 1.0299

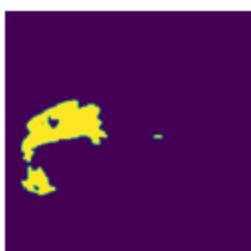
Batch 104/248, train_loss: 0.4088, step time: 1.0317
Batch 105/248, train_loss: 0.0896, step time: 1.0246
Batch 106/248, train_loss: 0.2368, step time: 1.0296
Batch 107/248, train_loss: 0.8859, step time: 1.0282
Batch 108/248, train_loss: 0.7297, step time: 1.0320
Batch 109/248, train_loss: 0.9918, step time: 1.0234
Batch 110/248, train_loss: 0.4392, step time: 1.0304
Batch 111/248, train_loss: 0.1062, step time: 1.0265
Batch 112/248, train_loss: 0.1726, step time: 1.0262
Batch 113/248, train_loss: 0.9715, step time: 1.0269
Batch 114/248, train_loss: 0.1512, step time: 1.0262
Batch 115/248, train_loss: 0.2228, step time: 1.0269
Batch 116/248, train_loss: 0.0951, step time: 1.0260
Batch 117/248, train_loss: 0.8830, step time: 1.0308
Batch 118/248, train_loss: 0.8011, step time: 1.0310
Batch 119/248, train_loss: 0.4295, step time: 1.0273
Batch 120/248, train_loss: 0.2366, step time: 1.0278
Batch 121/248, train_loss: 0.3911, step time: 1.0287
Batch 122/248, train_loss: 0.4947, step time: 1.0380
Batch 123/248, train_loss: 0.0948, step time: 1.0277
Batch 124/248, train_loss: 0.4314, step time: 1.0277
Batch 125/248, train_loss: 0.8379, step time: 1.0316
Batch 126/248, train_loss: 0.2804, step time: 1.0319
Batch 127/248, train_loss: 0.1174, step time: 1.0285
Batch 128/248, train_loss: 0.4303, step time: 1.0300
Batch 129/248, train_loss: 0.1327, step time: 1.0250
Batch 130/248, train_loss: 0.1292, step time: 1.0239
Batch 131/248, train_loss: 0.6997, step time: 1.0266
Batch 132/248, train_loss: 0.7021, step time: 1.0306
Batch 133/248, train_loss: 0.1950, step time: 1.0301
Batch 134/248, train_loss: 0.9184, step time: 1.0301
Batch 135/248, train_loss: 0.4367, step time: 1.0297
Batch 136/248, train_loss: 0.1201, step time: 1.0280
Batch 137/248, train_loss: 0.1506, step time: 1.0268
Batch 138/248, train_loss: 0.0690, step time: 1.0253
Batch 139/248, train_loss: 0.2161, step time: 1.0271
Batch 140/248, train_loss: 0.2239, step time: 1.0285
Batch 141/248, train_loss: 0.2391, step time: 1.0298
Batch 142/248, train_loss: 0.7709, step time: 1.0280
Batch 143/248, train_loss: 0.4066, step time: 1.0311
Batch 144/248, train_loss: 0.1239, step time: 1.0283
Batch 145/248, train_loss: 0.0545, step time: 1.0270
Batch 146/248, train_loss: 0.9411, step time: 1.0289
Batch 147/248, train_loss: 0.0423, step time: 1.0244
Batch 148/248, train_loss: 0.9142, step time: 1.0276
Batch 149/248, train_loss: 0.1268, step time: 1.0309
Batch 150/248, train_loss: 0.7013, step time: 1.0250
Batch 151/248, train_loss: 0.9440, step time: 1.0307
Batch 152/248, train_loss: 0.0510, step time: 1.0263
Batch 153/248, train_loss: 0.4200, step time: 1.0285
Batch 154/248, train_loss: 0.8929, step time: 1.0279
Batch 155/248, train_loss: 0.2323, step time: 1.0274
Batch 156/248, train_loss: 0.2043, step time: 1.0316
Batch 157/248, train_loss: 0.3426, step time: 1.0257
Batch 158/248, train_loss: 0.9963, step time: 1.0239
Batch 159/248, train_loss: 0.7003, step time: 1.0326
Batch 160/248, train_loss: 0.0001, step time: 1.0262

Batch 108/248, train_loss: 0.0961, step time: 1.0203
Batch 109/248, train_loss: 0.1088, step time: 1.0292
Batch 110/248, train_loss: 0.1033, step time: 1.0263
Batch 111/248, train_loss: 0.2238, step time: 1.0316
Batch 112/248, train_loss: 0.2418, step time: 1.0264
Batch 113/248, train_loss: 0.9910, step time: 1.0246
Batch 114/248, train_loss: 0.1336, step time: 1.0277
Batch 115/248, train_loss: 0.2332, step time: 1.0291
Batch 116/248, train_loss: 0.1923, step time: 1.0289
Batch 117/248, train_loss: 0.0851, step time: 1.0279
Batch 118/248, train_loss: 0.9102, step time: 1.0301
Batch 119/248, train_loss: 0.0974, step time: 1.0265
Batch 120/248, train_loss: 0.9628, step time: 1.0267
Batch 121/248, train_loss: 0.1231, step time: 1.0279
Batch 122/248, train_loss: 0.8442, step time: 1.0295
Batch 123/248, train_loss: 0.1675, step time: 1.0261
Batch 124/248, train_loss: 0.3972, step time: 1.0278
Batch 125/248, train_loss: 0.5787, step time: 1.0328
Batch 126/248, train_loss: 0.3794, step time: 1.0316
Batch 127/248, train_loss: 0.0927, step time: 1.0286
Batch 128/248, train_loss: 0.3649, step time: 1.0310
Batch 129/248, train_loss: 0.1158, step time: 1.0273
Batch 130/248, train_loss: 0.9811, step time: 1.0291
Batch 131/248, train_loss: 0.2817, step time: 1.0310
Batch 132/248, train_loss: 0.6779, step time: 1.0284
Batch 133/248, train_loss: 0.1376, step time: 1.0288
Batch 134/248, train_loss: 0.1553, step time: 1.0290
Batch 135/248, train_loss: 0.2322, step time: 1.0292
Batch 136/248, train_loss: 0.2258, step time: 1.0267
Batch 137/248, train_loss: 0.8292, step time: 1.0288
Batch 138/248, train_loss: 0.1522, step time: 1.0287
Batch 139/248, train_loss: 0.7273, step time: 1.0322
Batch 140/248, train_loss: 0.3020, step time: 1.0345
Batch 141/248, train_loss: 0.3465, step time: 1.0282
Batch 142/248, train_loss: 0.0930, step time: 1.0314
Batch 143/248, train_loss: 0.9220, step time: 1.0298
Batch 144/248, train_loss: 0.9992, step time: 1.0224
Batch 145/248, train_loss: 0.2671, step time: 1.0326
Batch 146/248, train_loss: 0.9895, step time: 1.0287
Batch 147/248, train_loss: 0.1464, step time: 1.0274
Batch 148/248, train_loss: 0.1278, step time: 1.0341
Batch 149/248, train_loss: 0.1331, step time: 1.0269
Batch 150/248, train_loss: 0.3716, step time: 1.0290
Batch 151/248, train_loss: 0.7127, step time: 1.0298
Batch 152/248, train_loss: 0.0918, step time: 1.0304
Batch 153/248, train_loss: 0.3065, step time: 1.0284
Batch 154/248, train_loss: 0.7124, step time: 1.0293
Batch 155/248, train_loss: 0.1039, step time: 1.0263
Batch 156/248, train_loss: 0.2278, step time: 1.0269
Batch 157/248, train_loss: 0.1640, step time: 1.0272
Batch 158/248, train_loss: 0.0691, step time: 1.0264
Batch 159/248, train_loss: 0.0640, step time: 1.0306
Batch 160/248, train_loss: 0.4845, step time: 1.0287
Batch 161/248, train_loss: 0.2359, step time: 1.0273
Batch 162/248, train_loss: 0.0777, step time: 1.0321
Batch 163/248, train_loss: 0.2229, step time: 1.0285
Batch 164/248, train_loss: 0.2081, step time: 1.0319

```
Batch 217/248, train_loss: 0.3207, step time: 1.0360
Batch 218/248, train_loss: 0.8844, step time: 1.0311
Batch 219/248, train_loss: 0.0836, step time: 1.0309
Batch 220/248, train_loss: 0.2562, step time: 1.0277
Batch 221/248, train_loss: 0.3169, step time: 1.0286
Batch 222/248, train_loss: 0.2171, step time: 1.0274
Batch 223/248, train_loss: 0.0429, step time: 1.0250
Batch 224/248, train_loss: 0.0881, step time: 1.0297
Batch 225/248, train_loss: 0.8785, step time: 1.0290
Batch 226/248, train_loss: 0.3515, step time: 1.0297
Batch 227/248, train_loss: 0.1088, step time: 1.0261
Batch 228/248, train_loss: 0.1943, step time: 1.0288
Batch 229/248, train_loss: 0.1303, step time: 1.0260
Batch 230/248, train_loss: 0.1081, step time: 1.0300
Batch 231/248, train_loss: 0.8281, step time: 1.0300
Batch 232/248, train_loss: 0.0919, step time: 1.0294
Batch 233/248, train_loss: 0.9823, step time: 1.0272
Batch 234/248, train_loss: 0.6163, step time: 1.0288
Batch 235/248, train_loss: 0.6044, step time: 1.0325
Batch 236/248, train_loss: 0.8753, step time: 1.0316
Batch 237/248, train_loss: 0.1235, step time: 1.0302
Batch 238/248, train_loss: 0.1136, step time: 1.0278
Batch 239/248, train_loss: 0.1396, step time: 1.0309
Batch 240/248, train_loss: 0.3887, step time: 1.0301
Batch 241/248, train_loss: 0.9497, step time: 1.0285
Batch 242/248, train_loss: 0.3240, step time: 1.0286
Batch 243/248, train_loss: 0.7635, step time: 1.0266
Batch 244/248, train_loss: 0.6690, step time: 1.0269
Batch 245/248, train_loss: 0.0795, step time: 1.0273
Batch 246/248, train_loss: 0.6405, step time: 1.0303
Batch 247/248, train_loss: 0.1062, step time: 1.0261
Batch 248/248, train_loss: 0.9999, step time: 1.0198
```

Labels

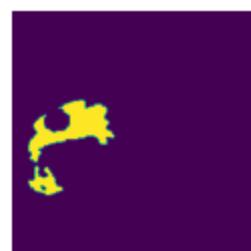
TC



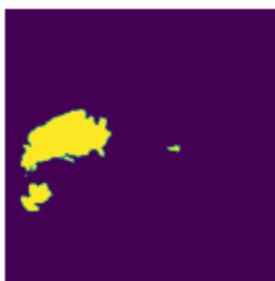
WT



ET



Predictions

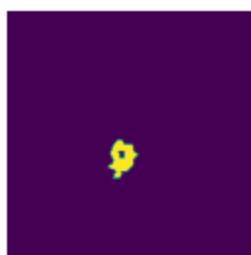


VAL

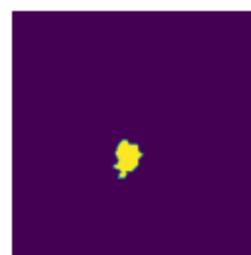
```
Batch 1/31, val_loss: 0.9501
Batch 2/31, val_loss: 0.9939
Batch 3/31, val_loss: 0.9718
Batch 4/31, val_loss: 0.9477
Batch 5/31, val_loss: 0.9936
Batch 6/31, val_loss: 0.7092
Batch 7/31, val_loss: 0.8348
Batch 8/31, val_loss: 0.9597
Batch 9/31, val_loss: 0.6999
Batch 10/31, val_loss: 0.9114
Batch 11/31, val_loss: 0.8305
Batch 12/31, val_loss: 0.9767
Batch 13/31, val_loss: 0.9841
Batch 14/31, val_loss: 0.9430
Batch 15/31, val_loss: 0.9925
Batch 16/31, val_loss: 0.9756
Batch 17/31, val_loss: 0.9799
Batch 18/31, val_loss: 0.9361
Batch 19/31, val_loss: 0.7572
Batch 20/31, val_loss: 0.8931
Batch 21/31, val_loss: 0.8776
Batch 22/31, val_loss: 0.9831
Batch 23/31, val_loss: 0.9811
Batch 24/31, val_loss: 0.7551
Batch 25/31, val_loss: 0.8072
Batch 26/31, val_loss: 0.9195
Batch 27/31, val_loss: 0.9790
Batch 28/31, val_loss: 0.7553
Batch 29/31, val_loss: 0.9916
Batch 30/31, val_loss: 0.9634
Batch 31/31, val_loss: 0.9800
```

Labels

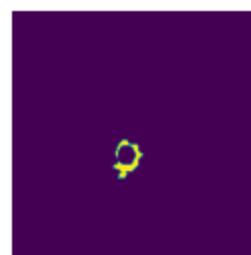
TC



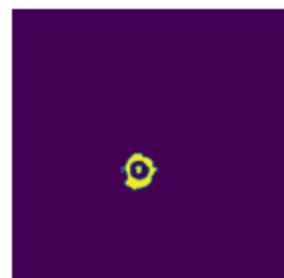
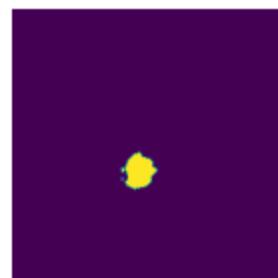
WT



ET



Predictions



epoch 28

```
average train loss: 0.3871
average validation loss: 0.9108
```

```
-----  
saved as best model: True  
current mean dice: 0.4512  
current TC dice: 0.4805  
current WT dice: 0.4772  
current ET dice: 0.4360  
Best Mean Metric: 0.4512  
time consuming of epoch 28 is: 1561.1312  
-----  
epoch 29/100  
TRAIN  
Batch 1/248, train_loss: 0.1098, step time: 1.0262  
Batch 2/248, train_loss: 0.8801, step time: 1.0281  
Batch 3/248, train_loss: 0.3974, step time: 1.0286  
Batch 4/248, train_loss: 0.9878, step time: 1.0250  
Batch 5/248, train_loss: 0.2749, step time: 1.0264  
Batch 6/248, train_loss: 0.7069, step time: 1.0292  
Batch 7/248, train_loss: 0.0699, step time: 1.0288  
Batch 8/248, train_loss: 0.7157, step time: 1.0243  
Batch 9/248, train_loss: 0.0548, step time: 1.0271  
Batch 10/248, train_loss: 0.2821, step time: 1.0323  
Batch 11/248, train_loss: 0.2672, step time: 1.0295  
Batch 12/248, train_loss: 0.7773, step time: 1.0309  
Batch 13/248, train_loss: 0.4886, step time: 1.0314  
Batch 14/248, train_loss: 0.0521, step time: 1.0228  
Batch 15/248, train_loss: 0.3542, step time: 1.0297  
Batch 16/248, train_loss: 0.1535, step time: 1.0262  
Batch 17/248, train_loss: 0.6371, step time: 1.0280  
Batch 18/248, train_loss: 0.7048, step time: 1.0294  
Batch 19/248, train_loss: 0.1269, step time: 1.0255  
Batch 20/248, train_loss: 0.1397, step time: 1.0290  
Batch 21/248, train_loss: 0.0580, step time: 1.0237  
Batch 22/248, train_loss: 0.9719, step time: 1.0292  
Batch 23/248, train_loss: 0.9957, step time: 1.0253  
Batch 24/248, train_loss: 0.0916, step time: 1.0300  
Batch 25/248, train_loss: 0.0877, step time: 1.0287  
Batch 26/248, train_loss: 0.8702, step time: 1.0324  
Batch 27/248, train_loss: 0.0763, step time: 1.0284  
Batch 28/248, train_loss: 0.1676, step time: 1.0288  
Batch 29/248, train_loss: 0.6457, step time: 1.0358  
Batch 30/248, train_loss: 0.5630, step time: 1.0339  
Batch 31/248, train_loss: 0.3662, step time: 1.0329  
Batch 32/248, train_loss: 0.0822, step time: 1.0259  
Batch 33/248, train_loss: 0.0819, step time: 1.0290  
Batch 34/248, train_loss: 0.0454, step time: 1.0241  
Batch 35/248, train_loss: 0.0525, step time: 1.0247  
Batch 36/248, train_loss: 0.9361, step time: 1.0263  
Batch 37/248, train_loss: 0.1730, step time: 1.0252  
Batch 38/248, train_loss: 0.3202, step time: 1.0318  
Batch 39/248, train_loss: 0.1918, step time: 1.0268  
Batch 40/248, train_loss: 0.9936, step time: 1.0281  
Batch 41/248, train_loss: 0.2035, step time: 1.0274  
Batch 42/248, train_loss: 0.0719, step time: 1.0263  
Batch 43/248, train_loss: 0.0668, step time: 1.0305  
Batch 44/248, train_loss: 0.4670, step time: 1.0315  
Batch 45/248, train_loss: 0.5121, step time: 1.0299  
Batch 46/248, train_loss: 0.2121, step time: 1.0273
```

Batch 47/248, train_loss: 0.0823, step time: 1.0299
Batch 48/248, train_loss: 0.2924, step time: 1.0318
Batch 49/248, train_loss: 0.5658, step time: 1.0317
Batch 50/248, train_loss: 0.1672, step time: 1.0267
Batch 51/248, train_loss: 0.1753, step time: 1.0317
Batch 52/248, train_loss: 0.1494, step time: 1.0294
Batch 53/248, train_loss: 0.4577, step time: 1.0317
Batch 54/248, train_loss: 0.2296, step time: 1.0299
Batch 55/248, train_loss: 0.5328, step time: 1.0303
Batch 56/248, train_loss: 0.2362, step time: 1.0315
Batch 57/248, train_loss: 0.2383, step time: 1.0297
Batch 58/248, train_loss: 0.0875, step time: 1.0261
Batch 59/248, train_loss: 0.0896, step time: 1.0270
Batch 60/248, train_loss: 0.0594, step time: 1.0251
Batch 61/248, train_loss: 0.1062, step time: 1.0247
Batch 62/248, train_loss: 0.2469, step time: 1.0282
Batch 63/248, train_loss: 0.8147, step time: 1.0314
Batch 64/248, train_loss: 0.6011, step time: 1.0330
Batch 65/248, train_loss: 0.4446, step time: 1.0372
Batch 66/248, train_loss: 0.1728, step time: 1.0281
Batch 67/248, train_loss: 0.0806, step time: 1.0249
Batch 68/248, train_loss: 0.1277, step time: 1.0255
Batch 69/248, train_loss: 0.8897, step time: 1.0310
Batch 70/248, train_loss: 0.1184, step time: 1.0269
Batch 71/248, train_loss: 0.1835, step time: 1.0290
Batch 72/248, train_loss: 0.0679, step time: 1.0297
Batch 73/248, train_loss: 0.3126, step time: 1.0291
Batch 74/248, train_loss: 0.9971, step time: 1.0238
Batch 75/248, train_loss: 0.1345, step time: 1.0298
Batch 76/248, train_loss: 0.7697, step time: 1.0280
Batch 77/248, train_loss: 0.9866, step time: 1.0250
Batch 78/248, train_loss: 0.1919, step time: 1.0270
Batch 79/248, train_loss: 0.1500, step time: 1.0258
Batch 80/248, train_loss: 0.2109, step time: 1.0284
Batch 81/248, train_loss: 0.2469, step time: 1.0294
Batch 82/248, train_loss: 0.0894, step time: 1.0270
Batch 83/248, train_loss: 0.7979, step time: 1.0325
Batch 84/248, train_loss: 0.2803, step time: 1.0321
Batch 85/248, train_loss: 0.5459, step time: 1.0285
Batch 86/248, train_loss: 0.3839, step time: 1.0274
Batch 87/248, train_loss: 0.8026, step time: 1.0304
Batch 88/248, train_loss: 0.4534, step time: 1.0324
Batch 89/248, train_loss: 0.1029, step time: 1.0243
Batch 90/248, train_loss: 0.4449, step time: 1.0336
Batch 91/248, train_loss: 0.7824, step time: 1.0323
Batch 92/248, train_loss: 0.4436, step time: 1.0312
Batch 93/248, train_loss: 0.1741, step time: 1.0287
Batch 94/248, train_loss: 0.6358, step time: 1.0314
Batch 95/248, train_loss: 0.1816, step time: 1.0257
Batch 96/248, train_loss: 0.2436, step time: 1.0300
Batch 97/248, train_loss: 0.9256, step time: 1.0287
Batch 98/248, train_loss: 0.1624, step time: 1.0300
Batch 99/248, train_loss: 0.4179, step time: 1.0312
Batch 100/248, train_loss: 0.6363, step time: 1.0339
Batch 101/248, train_loss: 0.0521, step time: 1.0231
Batch 102/248, train_loss: 0.1274, step time: 1.0251
Batch 103/248, train_loss: 0.8100, step time: 1.0276

Batch 104/248, train_loss: 0.3697, step time: 1.0288
Batch 105/248, train_loss: 0.0929, step time: 1.0278
Batch 106/248, train_loss: 0.1871, step time: 1.0263
Batch 107/248, train_loss: 0.7188, step time: 1.0329
Batch 108/248, train_loss: 0.5799, step time: 1.0331
Batch 109/248, train_loss: 0.9840, step time: 1.0253
Batch 110/248, train_loss: 0.3353, step time: 1.0334
Batch 111/248, train_loss: 0.1344, step time: 1.0280
Batch 112/248, train_loss: 0.2100, step time: 1.0309
Batch 113/248, train_loss: 0.9834, step time: 1.0309
Batch 114/248, train_loss: 0.1492, step time: 1.0252
Batch 115/248, train_loss: 0.1965, step time: 1.0318
Batch 116/248, train_loss: 0.1010, step time: 1.0262
Batch 117/248, train_loss: 0.8164, step time: 1.0303
Batch 118/248, train_loss: 0.8516, step time: 1.0280
Batch 119/248, train_loss: 0.4242, step time: 1.0302
Batch 120/248, train_loss: 0.2673, step time: 1.0258
Batch 121/248, train_loss: 0.3714, step time: 1.0294
Batch 122/248, train_loss: 0.4991, step time: 1.0291
Batch 123/248, train_loss: 0.1029, step time: 1.0263
Batch 124/248, train_loss: 0.3087, step time: 1.0277
Batch 125/248, train_loss: 0.8687, step time: 1.0330
Batch 126/248, train_loss: 0.2928, step time: 1.0297
Batch 127/248, train_loss: 0.1230, step time: 1.0320
Batch 128/248, train_loss: 0.4018, step time: 1.0310
Batch 129/248, train_loss: 0.1266, step time: 1.0274
Batch 130/248, train_loss: 0.1089, step time: 1.0265
Batch 131/248, train_loss: 0.6649, step time: 1.0281
Batch 132/248, train_loss: 0.6976, step time: 1.0300
Batch 133/248, train_loss: 0.1971, step time: 1.0269
Batch 134/248, train_loss: 0.8964, step time: 1.0317
Batch 135/248, train_loss: 0.5204, step time: 1.0315
Batch 136/248, train_loss: 0.1270, step time: 1.0284
Batch 137/248, train_loss: 0.1806, step time: 1.0254
Batch 138/248, train_loss: 0.0782, step time: 1.0258
Batch 139/248, train_loss: 0.2152, step time: 1.0275
Batch 140/248, train_loss: 0.2763, step time: 1.0308
Batch 141/248, train_loss: 0.2537, step time: 1.0284
Batch 142/248, train_loss: 0.7426, step time: 1.0269
Batch 143/248, train_loss: 0.3737, step time: 1.0284
Batch 144/248, train_loss: 0.1200, step time: 1.0338
Batch 145/248, train_loss: 0.0743, step time: 1.0242
Batch 146/248, train_loss: 0.9984, step time: 1.0222
Batch 147/248, train_loss: 0.0483, step time: 1.0243
Batch 148/248, train_loss: 0.9175, step time: 1.0259
Batch 149/248, train_loss: 0.1347, step time: 1.0291
Batch 150/248, train_loss: 0.6815, step time: 1.0288
Batch 151/248, train_loss: 0.8998, step time: 1.0286
Batch 152/248, train_loss: 0.0460, step time: 1.0273
Batch 153/248, train_loss: 0.4745, step time: 1.0306
Batch 154/248, train_loss: 0.9183, step time: 1.0318
Batch 155/248, train_loss: 0.2132, step time: 1.0289
Batch 156/248, train_loss: 0.2087, step time: 1.0320
Batch 157/248, train_loss: 0.3309, step time: 1.0303
Batch 158/248, train_loss: 0.9976, step time: 1.0240
Batch 159/248, train_loss: 0.7657, step time: 1.0325

Batch 160/248, train_loss: 0.0962, step time: 1.0269
Batch 161/248, train_loss: 0.0956, step time: 1.0292
Batch 162/248, train_loss: 0.1041, step time: 1.0264
Batch 163/248, train_loss: 0.2729, step time: 1.0328
Batch 164/248, train_loss: 0.2234, step time: 1.0275
Batch 165/248, train_loss: 0.9886, step time: 1.0244
Batch 166/248, train_loss: 0.1136, step time: 1.0268
Batch 167/248, train_loss: 0.1903, step time: 1.0244
Batch 168/248, train_loss: 0.1806, step time: 1.0303
Batch 169/248, train_loss: 0.0908, step time: 1.0266
Batch 170/248, train_loss: 0.8118, step time: 1.0280
Batch 171/248, train_loss: 0.0986, step time: 1.0275
Batch 172/248, train_loss: 0.9168, step time: 1.0316
Batch 173/248, train_loss: 0.1088, step time: 1.0261
Batch 174/248, train_loss: 0.9614, step time: 1.0290
Batch 175/248, train_loss: 0.1626, step time: 1.0377
Batch 176/248, train_loss: 0.4269, step time: 1.0260
Batch 177/248, train_loss: 0.5104, step time: 1.0322
Batch 178/248, train_loss: 0.2100, step time: 1.0272
Batch 179/248, train_loss: 0.0901, step time: 1.0266
Batch 180/248, train_loss: 0.3567, step time: 1.0261
Batch 181/248, train_loss: 0.1076, step time: 1.0244
Batch 182/248, train_loss: 0.9275, step time: 1.0270
Batch 183/248, train_loss: 0.2154, step time: 1.0273
Batch 184/248, train_loss: 0.6125, step time: 1.0250
Batch 185/248, train_loss: 0.1195, step time: 1.0257
Batch 186/248, train_loss: 0.1255, step time: 1.0291
Batch 187/248, train_loss: 0.1835, step time: 1.0276
Batch 188/248, train_loss: 0.2615, step time: 1.0301
Batch 189/248, train_loss: 0.7764, step time: 1.0292
Batch 190/248, train_loss: 0.1425, step time: 1.0328
Batch 191/248, train_loss: 0.6986, step time: 1.0312
Batch 192/248, train_loss: 0.3235, step time: 1.0264
Batch 193/248, train_loss: 0.3120, step time: 1.0298
Batch 194/248, train_loss: 0.1024, step time: 1.0287
Batch 195/248, train_loss: 0.8537, step time: 1.0306
Batch 196/248, train_loss: 0.9949, step time: 1.0269
Batch 197/248, train_loss: 0.2377, step time: 1.0280
Batch 198/248, train_loss: 0.9636, step time: 1.0270
Batch 199/248, train_loss: 0.1504, step time: 1.0253
Batch 200/248, train_loss: 0.1269, step time: 1.0280
Batch 201/248, train_loss: 0.1280, step time: 1.0280
Batch 202/248, train_loss: 0.3929, step time: 1.0288
Batch 203/248, train_loss: 0.8283, step time: 1.0282
Batch 204/248, train_loss: 0.0909, step time: 1.0231
Batch 205/248, train_loss: 0.2840, step time: 1.0271
Batch 206/248, train_loss: 0.7271, step time: 1.0304
Batch 207/248, train_loss: 0.0896, step time: 1.0268
Batch 208/248, train_loss: 0.1821, step time: 1.0277
Batch 209/248, train_loss: 0.1956, step time: 1.0299
Batch 210/248, train_loss: 0.0654, step time: 1.0283
Batch 211/248, train_loss: 0.0633, step time: 1.0244
Batch 212/248, train_loss: 0.3202, step time: 1.0299
Batch 213/248, train_loss: 0.2070, step time: 1.0272
Batch 214/248, train_loss: 0.0830, step time: 1.0273
Batch 215/248, train_loss: 0.2177, step time: 1.0316
Batch 216/248, train_loss: 0.2189, step time: 1.0282

```
--, --, --, --, --, --, --, --  
Batch 217/248, train_loss: 0.2959, step time: 1.0316  
Batch 218/248, train_loss: 0.8930, step time: 1.0306  
Batch 219/248, train_loss: 0.0683, step time: 1.0289  
Batch 220/248, train_loss: 0.2579, step time: 1.0287  
Batch 221/248, train_loss: 0.3298, step time: 1.0312  
Batch 222/248, train_loss: 0.1953, step time: 1.0258  
Batch 223/248, train_loss: 0.0436, step time: 1.0238  
Batch 224/248, train_loss: 0.0829, step time: 1.0281  
Batch 225/248, train_loss: 0.5323, step time: 1.0289  
Batch 226/248, train_loss: 0.2811, step time: 1.0275  
Batch 227/248, train_loss: 0.0995, step time: 1.0227  
Batch 228/248, train_loss: 0.1951, step time: 1.0271  
Batch 229/248, train_loss: 0.1455, step time: 1.0275  
Batch 230/248, train_loss: 0.0777, step time: 1.0256  
Batch 231/248, train_loss: 0.8977, step time: 1.0279  
Batch 232/248, train_loss: 0.0866, step time: 1.0255  
Batch 233/248, train_loss: 0.9879, step time: 1.0257  
Batch 234/248, train_loss: 0.5839, step time: 1.0315  
Batch 235/248, train_loss: 0.5768, step time: 1.0302  
Batch 236/248, train_loss: 0.9066, step time: 1.0269  
Batch 237/248, train_loss: 0.1226, step time: 1.0294  
Batch 238/248, train_loss: 0.1201, step time: 1.0306  
Batch 239/248, train_loss: 0.0887, step time: 1.0262  
Batch 240/248, train_loss: 0.3592, step time: 1.0293  
Batch 241/248, train_loss: 0.9329, step time: 1.0280  
Batch 242/248, train_loss: 0.2540, step time: 1.0307  
Batch 243/248, train_loss: 0.7936, step time: 1.0310  
Batch 244/248, train_loss: 0.6551, step time: 1.0281  
Batch 245/248, train_loss: 0.0665, step time: 1.0264  
Batch 246/248, train_loss: 0.6579, step time: 1.0278  
Batch 247/248, train_loss: 0.0939, step time: 1.0274  
Batch 248/248, train_loss: 0.9994, step time: 1.0220
```

Labels

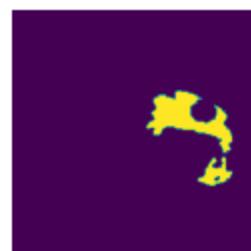
TC



WT



ET



Predictions

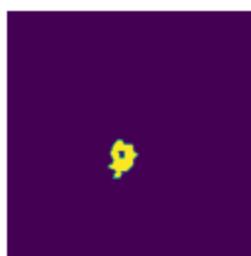


VAL

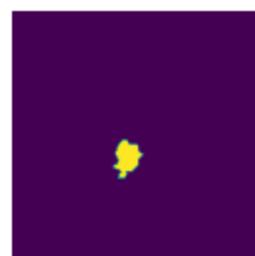
```
Batch 1/31, val_loss: 0.9545
Batch 2/31, val_loss: 0.9922
Batch 3/31, val_loss: 0.9699
Batch 4/31, val_loss: 0.9478
Batch 5/31, val_loss: 0.9926
Batch 6/31, val_loss: 0.7044
Batch 7/31, val_loss: 0.8333
Batch 8/31, val_loss: 0.9562
Batch 9/31, val_loss: 0.6955
Batch 10/31, val_loss: 0.9109
Batch 11/31, val_loss: 0.8299
Batch 12/31, val_loss: 0.9788
Batch 13/31, val_loss: 0.9855
Batch 14/31, val_loss: 0.9450
Batch 15/31, val_loss: 0.9899
Batch 16/31, val_loss: 0.9769
Batch 17/31, val_loss: 0.9754
Batch 18/31, val_loss: 0.9368
Batch 19/31, val_loss: 0.7522
Batch 20/31, val_loss: 0.8884
Batch 21/31, val_loss: 0.8711
Batch 22/31, val_loss: 0.9835
Batch 23/31, val_loss: 0.9798
Batch 24/31, val_loss: 0.7488
Batch 25/31, val_loss: 0.8092
Batch 26/31, val_loss: 0.9207
Batch 27/31, val_loss: 0.9775
Batch 28/31, val_loss: 0.7552
Batch 29/31, val_loss: 0.9930
Batch 30/31, val_loss: 0.9633
Batch 31/31, val_loss: 0.9827
```

Labels

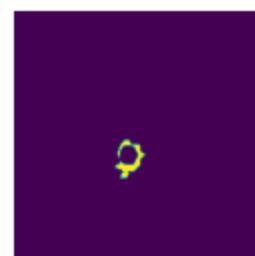
TC



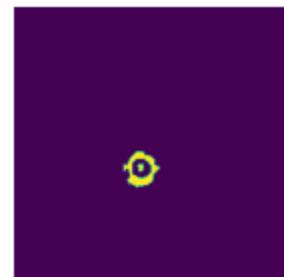
WT



ET



Predictions



epoch 29

average train loss: 0.3785

```
average validation loss: 0.909/
saved as best model: False
current mean dice: 0.4342
current TC dice: 0.4540
current WT dice: 0.4531
current ET dice: 0.4356
Best Mean Metric: 0.4512
time consuming of epoch 29 is: 1557.4631
-----
epoch 30/100
TRAIN
Batch 1/248, train_loss: 0.0957, step time: 1.0285
Batch 2/248, train_loss: 0.8539, step time: 1.0298
Batch 3/248, train_loss: 0.4108, step time: 1.0300
Batch 4/248, train_loss: 0.9849, step time: 1.0268
Batch 5/248, train_loss: 0.2290, step time: 1.0315
Batch 6/248, train_loss: 0.6416, step time: 1.0285
Batch 7/248, train_loss: 0.0595, step time: 1.0249
Batch 8/248, train_loss: 0.7238, step time: 1.0260
Batch 9/248, train_loss: 0.0529, step time: 1.0277
Batch 10/248, train_loss: 0.2806, step time: 1.0281
Batch 11/248, train_loss: 0.2531, step time: 1.0281
Batch 12/248, train_loss: 0.7256, step time: 1.0333
Batch 13/248, train_loss: 0.3951, step time: 1.0294
Batch 14/248, train_loss: 0.0522, step time: 1.0266
Batch 15/248, train_loss: 0.3383, step time: 1.0262
Batch 16/248, train_loss: 0.1497, step time: 1.0262
Batch 17/248, train_loss: 0.6868, step time: 1.0319
Batch 18/248, train_loss: 0.6238, step time: 1.0332
Batch 19/248, train_loss: 0.1296, step time: 1.0294
Batch 20/248, train_loss: 0.1465, step time: 1.0285
Batch 21/248, train_loss: 0.0719, step time: 1.0283
Batch 22/248, train_loss: 0.9432, step time: 1.0316
Batch 23/248, train_loss: 0.9939, step time: 1.0237
Batch 24/248, train_loss: 0.0812, step time: 1.0265
Batch 25/248, train_loss: 0.0768, step time: 1.0286
Batch 26/248, train_loss: 0.8389, step time: 1.0307
Batch 27/248, train_loss: 0.0775, step time: 1.0271
Batch 28/248, train_loss: 0.1764, step time: 1.0317
Batch 29/248, train_loss: 0.5825, step time: 1.0347
Batch 30/248, train_loss: 0.2825, step time: 1.0282
Batch 31/248, train_loss: 0.3193, step time: 1.0285
Batch 32/248, train_loss: 0.0838, step time: 1.0253
Batch 33/248, train_loss: 0.0814, step time: 1.0269
Batch 34/248, train_loss: 0.0448, step time: 1.0286
Batch 35/248, train_loss: 0.0499, step time: 1.0252
Batch 36/248, train_loss: 0.7748, step time: 1.0337
Batch 37/248, train_loss: 0.1667, step time: 1.0259
Batch 38/248, train_loss: 0.3021, step time: 1.0353
Batch 39/248, train_loss: 0.1938, step time: 1.0306
Batch 40/248, train_loss: 0.9903, step time: 1.0288
Batch 41/248, train_loss: 0.2679, step time: 1.0296
Batch 42/248, train_loss: 0.0676, step time: 1.0291
Batch 43/248, train_loss: 0.0613, step time: 1.0269
Batch 44/248, train_loss: 0.5392, step time: 1.0304
Batch 45/248, train_loss: 0.4155, step time: 1.0309
Batch 46/248, train_loss: 0.1909, step time: 1.0301
```

Batch 47/248, train_loss: 0.0843, step time: 1.0261
Batch 48/248, train_loss: 0.2735, step time: 1.0274
Batch 49/248, train_loss: 0.5306, step time: 1.0312
Batch 50/248, train_loss: 0.1630, step time: 1.0272
Batch 51/248, train_loss: 0.1793, step time: 1.0307
Batch 52/248, train_loss: 0.1293, step time: 1.0327
Batch 53/248, train_loss: 0.4591, step time: 1.0341
Batch 54/248, train_loss: 0.2649, step time: 1.0269
Batch 55/248, train_loss: 0.3251, step time: 1.0305
Batch 56/248, train_loss: 0.2332, step time: 1.0308
Batch 57/248, train_loss: 0.3231, step time: 1.0283
Batch 58/248, train_loss: 0.0814, step time: 1.0260
Batch 59/248, train_loss: 0.0858, step time: 1.0239
Batch 60/248, train_loss: 0.0640, step time: 1.0239
Batch 61/248, train_loss: 0.1050, step time: 1.0253
Batch 62/248, train_loss: 0.2499, step time: 1.0307
Batch 63/248, train_loss: 0.7789, step time: 1.0268
Batch 64/248, train_loss: 0.5387, step time: 1.0310
Batch 65/248, train_loss: 0.5932, step time: 1.0277
Batch 66/248, train_loss: 0.1800, step time: 1.0313
Batch 67/248, train_loss: 0.0752, step time: 1.0264
Batch 68/248, train_loss: 0.1264, step time: 1.0247
Batch 69/248, train_loss: 0.7024, step time: 1.0308
Batch 70/248, train_loss: 0.1208, step time: 1.0289
Batch 71/248, train_loss: 0.1479, step time: 1.0276
Batch 72/248, train_loss: 0.0634, step time: 1.0273
Batch 73/248, train_loss: 0.2418, step time: 1.0309
Batch 74/248, train_loss: 0.9969, step time: 1.0223
Batch 75/248, train_loss: 0.1226, step time: 1.0291
Batch 76/248, train_loss: 0.7925, step time: 1.0320
Batch 77/248, train_loss: 0.9623, step time: 1.0260
Batch 78/248, train_loss: 0.1684, step time: 1.0283
Batch 79/248, train_loss: 0.1331, step time: 1.0283
Batch 80/248, train_loss: 0.2314, step time: 1.0301
Batch 81/248, train_loss: 0.2733, step time: 1.0323
Batch 82/248, train_loss: 0.0865, step time: 1.0289
Batch 83/248, train_loss: 0.7688, step time: 1.0289
Batch 84/248, train_loss: 0.2838, step time: 1.0316
Batch 85/248, train_loss: 0.6461, step time: 1.0325
Batch 86/248, train_loss: 0.3483, step time: 1.0275
Batch 87/248, train_loss: 0.5047, step time: 1.0283
Batch 88/248, train_loss: 0.4695, step time: 1.0323
Batch 89/248, train_loss: 0.1104, step time: 1.0273
Batch 90/248, train_loss: 0.4841, step time: 1.0281
Batch 91/248, train_loss: 0.7316, step time: 1.0334
Batch 92/248, train_loss: 0.3897, step time: 1.0269
Batch 93/248, train_loss: 0.1792, step time: 1.0273
Batch 94/248, train_loss: 0.5863, step time: 1.0337
Batch 95/248, train_loss: 0.1819, step time: 1.0246
Batch 96/248, train_loss: 0.2923, step time: 1.0267
Batch 97/248, train_loss: 0.8934, step time: 1.0281
Batch 98/248, train_loss: 0.1874, step time: 1.0267
Batch 99/248, train_loss: 0.4187, step time: 1.0328
Batch 100/248, train_loss: 0.6476, step time: 1.0320
Batch 101/248, train_loss: 0.0495, step time: 1.0256
Batch 102/248, train_loss: 0.1381, step time: 1.0273
Batch 103/248, train_loss: 0.7021, step time: 1.0276

Batch 104/248, train_loss: 0.1901, step time: 1.0270
Batch 104/248, train_loss: 0.3958, step time: 1.0313
Batch 105/248, train_loss: 0.0928, step time: 1.0254
Batch 106/248, train_loss: 0.1564, step time: 1.0293
Batch 107/248, train_loss: 0.7172, step time: 1.0308
Batch 108/248, train_loss: 0.7641, step time: 1.0438
Batch 109/248, train_loss: 0.9844, step time: 1.0291
Batch 110/248, train_loss: 0.3354, step time: 1.0263
Batch 111/248, train_loss: 0.1040, step time: 1.0293
Batch 112/248, train_loss: 0.1111, step time: 1.0292
Batch 113/248, train_loss: 0.9856, step time: 1.0303
Batch 114/248, train_loss: 0.1410, step time: 1.0269
Batch 115/248, train_loss: 0.2091, step time: 1.0271
Batch 116/248, train_loss: 0.0917, step time: 1.0240
Batch 117/248, train_loss: 0.7541, step time: 1.0319
Batch 118/248, train_loss: 0.8271, step time: 1.0300
Batch 119/248, train_loss: 0.3928, step time: 1.0288
Batch 120/248, train_loss: 0.3033, step time: 1.0316
Batch 121/248, train_loss: 0.3232, step time: 1.0295
Batch 122/248, train_loss: 0.4284, step time: 1.0283
Batch 123/248, train_loss: 0.0701, step time: 1.0287
Batch 124/248, train_loss: 0.3919, step time: 1.0299
Batch 125/248, train_loss: 0.7821, step time: 1.0351
Batch 126/248, train_loss: 0.2376, step time: 1.0298
Batch 127/248, train_loss: 0.1140, step time: 1.0302
Batch 128/248, train_loss: 0.4767, step time: 1.0300
Batch 129/248, train_loss: 0.1105, step time: 1.0292
Batch 130/248, train_loss: 0.1158, step time: 1.0278
Batch 131/248, train_loss: 0.6510, step time: 1.0287
Batch 132/248, train_loss: 0.7533, step time: 1.0299
Batch 133/248, train_loss: 0.1507, step time: 1.0259
Batch 134/248, train_loss: 0.9320, step time: 1.0312
Batch 135/248, train_loss: 0.4392, step time: 1.0308
Batch 136/248, train_loss: 0.1259, step time: 1.0292
Batch 137/248, train_loss: 0.1315, step time: 1.0263
Batch 138/248, train_loss: 0.0688, step time: 1.0226
Batch 139/248, train_loss: 0.1575, step time: 1.0268
Batch 140/248, train_loss: 0.1855, step time: 1.0308
Batch 141/248, train_loss: 0.2499, step time: 1.0320
Batch 142/248, train_loss: 0.6656, step time: 1.0303
Batch 143/248, train_loss: 0.3361, step time: 1.0305
Batch 144/248, train_loss: 0.1181, step time: 1.0249
Batch 145/248, train_loss: 0.0498, step time: 1.0239
Batch 146/248, train_loss: 0.9862, step time: 1.0249
Batch 147/248, train_loss: 0.0387, step time: 1.0242
Batch 148/248, train_loss: 0.9161, step time: 1.0250
Batch 149/248, train_loss: 0.1235, step time: 1.0254
Batch 150/248, train_loss: 0.6898, step time: 1.0266
Batch 151/248, train_loss: 0.8036, step time: 1.0277
Batch 152/248, train_loss: 0.0426, step time: 1.0264
Batch 153/248, train_loss: 0.5133, step time: 1.0307
Batch 154/248, train_loss: 0.8057, step time: 1.0332
Batch 155/248, train_loss: 0.1699, step time: 1.0316
Batch 156/248, train_loss: 0.2327, step time: 1.0314
Batch 157/248, train_loss: 0.3530, step time: 1.0304
Batch 158/248, train_loss: 0.9914, step time: 1.0271
Batch 159/248, train_loss: 0.7319, step time: 1.0325

Batch 160/248, train_loss: 0.0911, step time: 1.0295
Batch 161/248, train_loss: 0.0906, step time: 1.0299
Batch 162/248, train_loss: 0.1025, step time: 1.0294
Batch 163/248, train_loss: 0.1969, step time: 1.0284
Batch 164/248, train_loss: 0.2126, step time: 1.0301
Batch 165/248, train_loss: 0.9878, step time: 1.0238
Batch 166/248, train_loss: 0.1168, step time: 1.0286
Batch 167/248, train_loss: 0.1921, step time: 1.0279
Batch 168/248, train_loss: 0.1635, step time: 1.0257
Batch 169/248, train_loss: 0.0855, step time: 1.0266
Batch 170/248, train_loss: 0.8520, step time: 1.0303
Batch 171/248, train_loss: 0.0916, step time: 1.0272
Batch 172/248, train_loss: 0.9705, step time: 1.0273
Batch 173/248, train_loss: 0.1046, step time: 1.0295
Batch 174/248, train_loss: 0.8768, step time: 1.0305
Batch 175/248, train_loss: 0.1493, step time: 1.0282
Batch 176/248, train_loss: 0.3864, step time: 1.0291
Batch 177/248, train_loss: 0.4574, step time: 1.0297
Batch 178/248, train_loss: 0.3553, step time: 1.0322
Batch 179/248, train_loss: 0.0895, step time: 1.0267
Batch 180/248, train_loss: 0.3776, step time: 1.0290
Batch 181/248, train_loss: 0.1143, step time: 1.0251
Batch 182/248, train_loss: 0.9378, step time: 1.0270
Batch 183/248, train_loss: 0.1997, step time: 1.0307
Batch 184/248, train_loss: 0.6611, step time: 1.0255
Batch 185/248, train_loss: 0.1240, step time: 1.0270
Batch 186/248, train_loss: 0.1316, step time: 1.0302
Batch 187/248, train_loss: 0.1985, step time: 1.0284
Batch 188/248, train_loss: 0.2308, step time: 1.0264
Batch 189/248, train_loss: 0.8612, step time: 1.0321
Batch 190/248, train_loss: 0.1590, step time: 1.0270
Batch 191/248, train_loss: 0.8668, step time: 1.0340
Batch 192/248, train_loss: 0.3144, step time: 1.0291
Batch 193/248, train_loss: 0.3587, step time: 1.0304
Batch 194/248, train_loss: 0.0850, step time: 1.0279
Batch 195/248, train_loss: 0.9056, step time: 1.0310
Batch 196/248, train_loss: 0.9983, step time: 1.0240
Batch 197/248, train_loss: 0.2194, step time: 1.0275
Batch 198/248, train_loss: 0.9816, step time: 1.0312
Batch 199/248, train_loss: 0.1461, step time: 1.0300
Batch 200/248, train_loss: 0.1422, step time: 1.0280
Batch 201/248, train_loss: 0.1282, step time: 1.0238
Batch 202/248, train_loss: 0.3657, step time: 1.0276
Batch 203/248, train_loss: 0.7199, step time: 1.0286
Batch 204/248, train_loss: 0.0901, step time: 1.0278
Batch 205/248, train_loss: 0.2999, step time: 1.0286
Batch 206/248, train_loss: 0.7172, step time: 1.0318
Batch 207/248, train_loss: 0.0955, step time: 1.0280
Batch 208/248, train_loss: 0.1990, step time: 1.0274
Batch 209/248, train_loss: 0.1908, step time: 1.0285
Batch 210/248, train_loss: 0.0637, step time: 1.0259
Batch 211/248, train_loss: 0.0631, step time: 1.0286
Batch 212/248, train_loss: 0.3152, step time: 1.0306
Batch 213/248, train_loss: 0.2036, step time: 1.0291
Batch 214/248, train_loss: 0.0758, step time: 1.0283
Batch 215/248, train_loss: 0.2049, step time: 1.0315
Batch 216/248, train_loss: 0.2211, step time: 1.0201

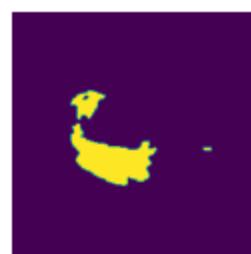
Batch 210/248, train_loss: 0.2211, step time: 1.0291
Batch 217/248, train_loss: 0.3788, step time: 1.0329
Batch 218/248, train_loss: 0.8778, step time: 1.0328
Batch 219/248, train_loss: 0.0765, step time: 1.0332
Batch 220/248, train_loss: 0.2511, step time: 1.0292
Batch 221/248, train_loss: 0.2999, step time: 1.0302
Batch 222/248, train_loss: 0.2002, step time: 1.0293
Batch 223/248, train_loss: 0.0427, step time: 1.0225
Batch 224/248, train_loss: 0.0871, step time: 1.0252
Batch 225/248, train_loss: 0.6493, step time: 1.0267
Batch 226/248, train_loss: 0.4220, step time: 1.0289
Batch 227/248, train_loss: 0.1039, step time: 1.0247
Batch 228/248, train_loss: 0.1499, step time: 1.0271
Batch 229/248, train_loss: 0.1287, step time: 1.0297
Batch 230/248, train_loss: 0.0939, step time: 1.0279
Batch 231/248, train_loss: 0.5853, step time: 1.0298
Batch 232/248, train_loss: 0.0876, step time: 1.0317
Batch 233/248, train_loss: 0.9583, step time: 1.0277
Batch 234/248, train_loss: 0.6964, step time: 1.0316
Batch 235/248, train_loss: 0.7456, step time: 1.0350
Batch 236/248, train_loss: 0.8292, step time: 1.0329
Batch 237/248, train_loss: 0.1222, step time: 1.0281
Batch 238/248, train_loss: 0.1230, step time: 1.0292
Batch 239/248, train_loss: 0.0829, step time: 1.0288
Batch 240/248, train_loss: 0.3991, step time: 1.0318
Batch 241/248, train_loss: 0.9100, step time: 1.0308
Batch 242/248, train_loss: 0.2736, step time: 1.0320
Batch 243/248, train_loss: 0.8041, step time: 1.0294
Batch 244/248, train_loss: 0.6717, step time: 1.0304
Batch 245/248, train_loss: 0.0777, step time: 1.0275
Batch 246/248, train_loss: 0.6401, step time: 1.0291
Batch 247/248, train_loss: 0.0987, step time: 1.0241
Batch 248/248, train_loss: 0.9999, step time: 1.0192

Labels

TC



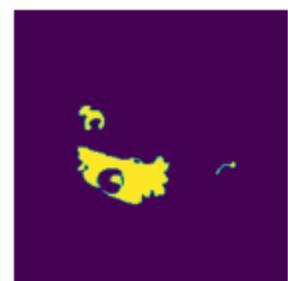
WT



ET



Predictions

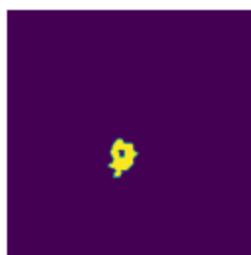


VAL

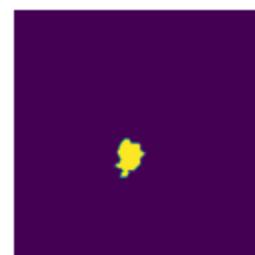
```
Batch 1/31, val_loss: 0.9529
Batch 2/31, val_loss: 0.9938
Batch 3/31, val_loss: 0.9709
Batch 4/31, val_loss: 0.9444
Batch 5/31, val_loss: 0.9946
Batch 6/31, val_loss: 0.7060
Batch 7/31, val_loss: 0.8339
Batch 8/31, val_loss: 0.9654
Batch 9/31, val_loss: 0.6968
Batch 10/31, val_loss: 0.9066
Batch 11/31, val_loss: 0.8293
Batch 12/31, val_loss: 0.9777
Batch 13/31, val_loss: 0.9890
Batch 14/31, val_loss: 0.9440
Batch 15/31, val_loss: 0.9925
Batch 16/31, val_loss: 0.9752
Batch 17/31, val_loss: 0.9772
Batch 18/31, val_loss: 0.9369
Batch 19/31, val_loss: 0.7539
Batch 20/31, val_loss: 0.8910
Batch 21/31, val_loss: 0.8739
Batch 22/31, val_loss: 0.9838
Batch 23/31, val_loss: 0.9821
Batch 24/31, val_loss: 0.7491
Batch 25/31, val_loss: 0.8038
Batch 26/31, val_loss: 0.9204
Batch 27/31, val_loss: 0.9813
Batch 28/31, val_loss: 0.7544
Batch 29/31, val_loss: 0.9906
Batch 30/31, val_loss: 0.9622
Batch 31/31, val_loss: 0.9802
```

Labels

TC



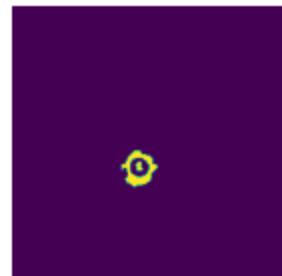
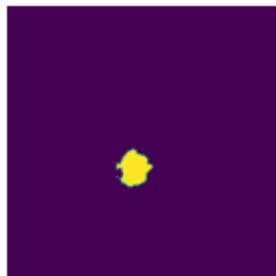
WT



ET



Predictions



epoch 30

average train loss: 0.3699

```
average validation loss: 0.9101
saved as best model: False
current mean dice: 0.4454
current TC dice: 0.4711
current WT dice: 0.4727
current ET dice: 0.4326
Best Mean Metric: 0.4512
time consuming of epoch 30 is: 1549.3870
-----
epoch 31/100
TRAIN
Batch 1/248, train_loss: 0.0850, step time: 1.0264
Batch 2/248, train_loss: 0.8497, step time: 1.0345
Batch 3/248, train_loss: 0.3488, step time: 1.0310
Batch 4/248, train_loss: 0.9919, step time: 1.0240
Batch 5/248, train_loss: 0.2594, step time: 1.0315
Batch 6/248, train_loss: 0.7131, step time: 1.0291
Batch 7/248, train_loss: 0.0624, step time: 1.0316
Batch 8/248, train_loss: 0.7305, step time: 1.0259
Batch 9/248, train_loss: 0.0485, step time: 1.0293
Batch 10/248, train_loss: 0.2562, step time: 1.0331
Batch 11/248, train_loss: 0.2434, step time: 1.0331
Batch 12/248, train_loss: 0.6969, step time: 1.0352
Batch 13/248, train_loss: 0.4441, step time: 1.0348
Batch 14/248, train_loss: 0.0495, step time: 1.0285
Batch 15/248, train_loss: 0.3329, step time: 1.0288
Batch 16/248, train_loss: 0.1480, step time: 1.0286
Batch 17/248, train_loss: 0.5622, step time: 1.0323
Batch 18/248, train_loss: 0.6412, step time: 1.0300
Batch 19/248, train_loss: 0.0928, step time: 1.0269
Batch 20/248, train_loss: 0.1339, step time: 1.0277
Batch 21/248, train_loss: 0.0607, step time: 1.0246
Batch 22/248, train_loss: 0.9911, step time: 1.0259
Batch 23/248, train_loss: 0.9964, step time: 1.0214
Batch 24/248, train_loss: 0.0881, step time: 1.0305
Batch 25/248, train_loss: 0.0792, step time: 1.0299
Batch 26/248, train_loss: 0.8439, step time: 1.0290
Batch 27/248, train_loss: 0.0737, step time: 1.0272
Batch 28/248, train_loss: 0.1706, step time: 1.0337
Batch 29/248, train_loss: 0.5486, step time: 1.0329
Batch 30/248, train_loss: 0.2571, step time: 1.0350
Batch 31/248, train_loss: 0.3220, step time: 1.0326
Batch 32/248, train_loss: 0.0828, step time: 1.0277
Batch 33/248, train_loss: 0.0834, step time: 1.0249
Batch 34/248, train_loss: 0.0431, step time: 1.0279
Batch 35/248, train_loss: 0.0459, step time: 1.0242
Batch 36/248, train_loss: 0.7539, step time: 1.0299
Batch 37/248, train_loss: 0.1784, step time: 1.0279
Batch 38/248, train_loss: 0.3105, step time: 1.0298
Batch 39/248, train_loss: 0.2363, step time: 1.0295
Batch 40/248, train_loss: 0.9875, step time: 1.0245
Batch 41/248, train_loss: 0.2372, step time: 1.0278
Batch 42/248, train_loss: 0.0706, step time: 1.0296
Batch 43/248, train_loss: 0.0610, step time: 1.0281
Batch 44/248, train_loss: 0.4057, step time: 1.0276
Batch 45/248, train_loss: 0.4960, step time: 1.0313
Batch 46/248, train_loss: 0.1606, step time: 1.0268
```

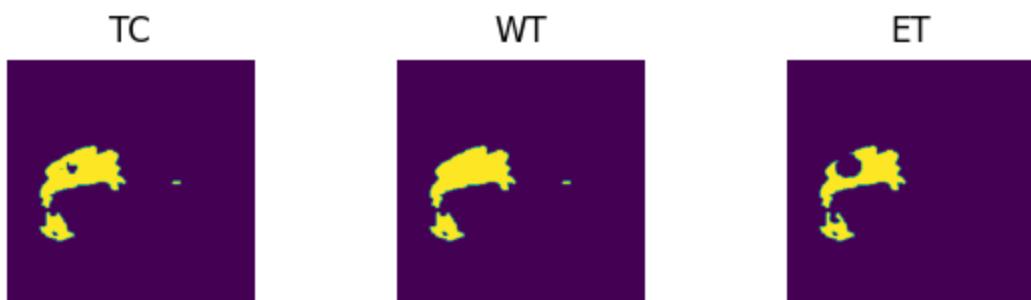
--, --, --, --, --, --, --, --
Batch 47/248, train_loss: 0.0821, step time: 1.0302
Batch 48/248, train_loss: 0.2818, step time: 1.0290
Batch 49/248, train_loss: 0.5842, step time: 1.0318
Batch 50/248, train_loss: 0.1514, step time: 1.0318
Batch 51/248, train_loss: 0.1731, step time: 1.0300
Batch 52/248, train_loss: 0.1188, step time: 1.0294
Batch 53/248, train_loss: 0.4555, step time: 1.0309
Batch 54/248, train_loss: 0.2605, step time: 1.0339
Batch 55/248, train_loss: 0.3153, step time: 1.0303
Batch 56/248, train_loss: 0.2129, step time: 1.0306
Batch 57/248, train_loss: 0.2889, step time: 1.0297
Batch 58/248, train_loss: 0.0949, step time: 1.0252
Batch 59/248, train_loss: 0.0859, step time: 1.0252
Batch 60/248, train_loss: 0.0719, step time: 1.0303
Batch 61/248, train_loss: 0.1129, step time: 1.0293
Batch 62/248, train_loss: 0.3152, step time: 1.0324
Batch 63/248, train_loss: 0.7552, step time: 1.0304
Batch 64/248, train_loss: 0.6113, step time: 1.0290
Batch 65/248, train_loss: 0.6561, step time: 1.0325
Batch 66/248, train_loss: 0.2005, step time: 1.0279
Batch 67/248, train_loss: 0.0756, step time: 1.0251
Batch 68/248, train_loss: 0.1305, step time: 1.0295
Batch 69/248, train_loss: 0.7871, step time: 1.0331
Batch 70/248, train_loss: 0.1185, step time: 1.0262
Batch 71/248, train_loss: 0.1501, step time: 1.0308
Batch 72/248, train_loss: 0.0683, step time: 1.0269
Batch 73/248, train_loss: 0.2364, step time: 1.0277
Batch 74/248, train_loss: 0.9946, step time: 1.0223
Batch 75/248, train_loss: 0.1396, step time: 1.0272
Batch 76/248, train_loss: 0.6642, step time: 1.0309
Batch 77/248, train_loss: 0.9397, step time: 1.0283
Batch 78/248, train_loss: 0.1795, step time: 1.0303
Batch 79/248, train_loss: 0.1333, step time: 1.0286
Batch 80/248, train_loss: 0.2312, step time: 1.0336
Batch 81/248, train_loss: 0.2573, step time: 1.0351
Batch 82/248, train_loss: 0.0960, step time: 1.0274
Batch 83/248, train_loss: 0.6668, step time: 1.0300
Batch 84/248, train_loss: 0.2662, step time: 1.0281
Batch 85/248, train_loss: 0.7303, step time: 1.0307
Batch 86/248, train_loss: 0.4085, step time: 1.0254
Batch 87/248, train_loss: 0.5034, step time: 1.0296
Batch 88/248, train_loss: 0.5027, step time: 1.0308
Batch 89/248, train_loss: 0.1005, step time: 1.0277
Batch 90/248, train_loss: 0.6082, step time: 1.0297
Batch 91/248, train_loss: 0.7271, step time: 1.0328
Batch 92/248, train_loss: 0.3531, step time: 1.0286
Batch 93/248, train_loss: 0.1736, step time: 1.0314
Batch 94/248, train_loss: 0.6266, step time: 1.0309
Batch 95/248, train_loss: 0.1836, step time: 1.0284
Batch 96/248, train_loss: 0.2150, step time: 1.0302
Batch 97/248, train_loss: 0.8979, step time: 1.0329
Batch 98/248, train_loss: 0.1454, step time: 1.0269
Batch 99/248, train_loss: 0.3571, step time: 1.0308
Batch 100/248, train_loss: 0.5933, step time: 1.0317
Batch 101/248, train_loss: 0.0508, step time: 1.0275
Batch 102/248, train_loss: 0.1837, step time: 1.0313

Batch 103/248, train_loss: 0.6916, step time: 1.0284
Batch 104/248, train_loss: 0.4187, step time: 1.0312
Batch 105/248, train_loss: 0.0910, step time: 1.0255
Batch 106/248, train_loss: 0.1903, step time: 1.0332
Batch 107/248, train_loss: 0.3624, step time: 1.0313
Batch 108/248, train_loss: 0.7980, step time: 1.0320
Batch 109/248, train_loss: 0.9314, step time: 1.0291
Batch 110/248, train_loss: 0.3576, step time: 1.0292
Batch 111/248, train_loss: 0.1659, step time: 1.0284
Batch 112/248, train_loss: 0.1839, step time: 1.0304
Batch 113/248, train_loss: 0.9805, step time: 1.0298
Batch 114/248, train_loss: 0.1454, step time: 1.0275
Batch 115/248, train_loss: 0.1870, step time: 1.0347
Batch 116/248, train_loss: 0.1035, step time: 1.0247
Batch 117/248, train_loss: 0.7918, step time: 1.0284
Batch 118/248, train_loss: 0.8711, step time: 1.0280
Batch 119/248, train_loss: 0.4090, step time: 1.0274
Batch 120/248, train_loss: 0.2989, step time: 1.0311
Batch 121/248, train_loss: 0.3376, step time: 1.0307
Batch 122/248, train_loss: 0.4894, step time: 1.0391
Batch 123/248, train_loss: 0.0947, step time: 1.0305
Batch 124/248, train_loss: 0.4907, step time: 1.0341
Batch 125/248, train_loss: 0.8775, step time: 1.0315
Batch 126/248, train_loss: 0.2876, step time: 1.0327
Batch 127/248, train_loss: 0.1207, step time: 1.0328
Batch 128/248, train_loss: 0.3224, step time: 1.0340
Batch 129/248, train_loss: 0.1239, step time: 1.0299
Batch 130/248, train_loss: 0.1149, step time: 1.0281
Batch 131/248, train_loss: 0.6564, step time: 1.0305
Batch 132/248, train_loss: 0.6743, step time: 1.0320
Batch 133/248, train_loss: 0.1580, step time: 1.0310
Batch 134/248, train_loss: 0.9360, step time: 1.0279
Batch 135/248, train_loss: 0.5556, step time: 1.0344
Batch 136/248, train_loss: 0.1432, step time: 1.0286
Batch 137/248, train_loss: 0.1435, step time: 1.0303
Batch 138/248, train_loss: 0.0721, step time: 1.0286
Batch 139/248, train_loss: 0.2090, step time: 1.0301
Batch 140/248, train_loss: 0.1968, step time: 1.0281
Batch 141/248, train_loss: 0.2892, step time: 1.0328
Batch 142/248, train_loss: 0.8007, step time: 1.0309
Batch 143/248, train_loss: 0.3009, step time: 1.0325
Batch 144/248, train_loss: 0.1282, step time: 1.0265
Batch 145/248, train_loss: 0.0544, step time: 1.0244
Batch 146/248, train_loss: 0.9983, step time: 1.0246
Batch 147/248, train_loss: 0.0405, step time: 1.0248
Batch 148/248, train_loss: 0.8433, step time: 1.0311
Batch 149/248, train_loss: 0.1570, step time: 1.0281
Batch 150/248, train_loss: 0.6865, step time: 1.0272
Batch 151/248, train_loss: 0.7894, step time: 1.0289
Batch 152/248, train_loss: 0.0456, step time: 1.0273
Batch 153/248, train_loss: 0.5977, step time: 1.0333
Batch 154/248, train_loss: 0.8795, step time: 1.0303
Batch 155/248, train_loss: 0.1784, step time: 1.0306
Batch 156/248, train_loss: 0.2789, step time: 1.0296
Batch 157/248, train_loss: 0.3568, step time: 1.0310
Batch 158/248, train_loss: 0.9904, step time: 1.0250
Batch 159/248, train_loss: 0.6438, step time: 1.0303

Batch 160/248, train_loss: 0.0752, step time: 1.0250
Batch 161/248, train_loss: 0.0850, step time: 1.0264
Batch 162/248, train_loss: 0.1433, step time: 1.0261
Batch 163/248, train_loss: 0.2099, step time: 1.0280
Batch 164/248, train_loss: 0.2705, step time: 1.0307
Batch 165/248, train_loss: 0.9671, step time: 1.0287
Batch 166/248, train_loss: 0.1410, step time: 1.0301
Batch 167/248, train_loss: 0.1723, step time: 1.0260
Batch 168/248, train_loss: 0.1763, step time: 1.0285
Batch 169/248, train_loss: 0.0872, step time: 1.0272
Batch 170/248, train_loss: 0.8539, step time: 1.0279
Batch 171/248, train_loss: 0.0886, step time: 1.0231
Batch 172/248, train_loss: 0.8377, step time: 1.0289
Batch 173/248, train_loss: 0.0971, step time: 1.0290
Batch 174/248, train_loss: 0.9678, step time: 1.0294
Batch 175/248, train_loss: 0.1574, step time: 1.0275
Batch 176/248, train_loss: 0.4122, step time: 1.0299
Batch 177/248, train_loss: 0.4839, step time: 1.0314
Batch 178/248, train_loss: 0.1956, step time: 1.0283
Batch 179/248, train_loss: 0.0796, step time: 1.0235
Batch 180/248, train_loss: 0.3719, step time: 1.0295
Batch 181/248, train_loss: 0.0992, step time: 1.0262
Batch 182/248, train_loss: 0.9404, step time: 1.0262
Batch 183/248, train_loss: 0.2508, step time: 1.0330
Batch 184/248, train_loss: 0.5602, step time: 1.0309
Batch 185/248, train_loss: 0.1250, step time: 1.0272
Batch 186/248, train_loss: 0.1238, step time: 1.0258
Batch 187/248, train_loss: 0.2115, step time: 1.0303
Batch 188/248, train_loss: 0.2463, step time: 1.0259
Batch 189/248, train_loss: 0.7870, step time: 1.0295
Batch 190/248, train_loss: 0.1378, step time: 1.0267
Batch 191/248, train_loss: 0.7077, step time: 1.0316
Batch 192/248, train_loss: 0.3225, step time: 1.0270
Batch 193/248, train_loss: 0.4588, step time: 1.0290
Batch 194/248, train_loss: 0.0891, step time: 1.0289
Batch 195/248, train_loss: 0.7894, step time: 1.0375
Batch 196/248, train_loss: 0.9994, step time: 1.0236
Batch 197/248, train_loss: 0.2129, step time: 1.0293
Batch 198/248, train_loss: 0.9885, step time: 1.0294
Batch 199/248, train_loss: 0.1404, step time: 1.0318
Batch 200/248, train_loss: 0.1267, step time: 1.0297
Batch 201/248, train_loss: 0.1248, step time: 1.0273
Batch 202/248, train_loss: 0.3727, step time: 1.0265
Batch 203/248, train_loss: 0.6967, step time: 1.0307
Batch 204/248, train_loss: 0.0923, step time: 1.0278
Batch 205/248, train_loss: 0.3139, step time: 1.0296
Batch 206/248, train_loss: 0.6958, step time: 1.0316
Batch 207/248, train_loss: 0.1102, step time: 1.0294
Batch 208/248, train_loss: 0.1830, step time: 1.0284
Batch 209/248, train_loss: 0.2207, step time: 1.0280
Batch 210/248, train_loss: 0.0589, step time: 1.0306
Batch 211/248, train_loss: 0.0663, step time: 1.0268
Batch 212/248, train_loss: 0.6840, step time: 1.0271
Batch 213/248, train_loss: 0.1881, step time: 1.0280
Batch 214/248, train_loss: 0.0707, step time: 1.0270
Batch 215/248, train_loss: 0.2542, step time: 1.0280

```
Batch 216/248, train_loss: 0.1540, step time: 1.0299
Batch 217/248, train_loss: 0.3397, step time: 1.0398
Batch 218/248, train_loss: 0.8334, step time: 1.0324
Batch 219/248, train_loss: 0.0973, step time: 1.0284
Batch 220/248, train_loss: 0.2518, step time: 1.0314
Batch 221/248, train_loss: 0.3468, step time: 1.0316
Batch 222/248, train_loss: 0.2769, step time: 1.0325
Batch 223/248, train_loss: 0.0479, step time: 1.0247
Batch 224/248, train_loss: 0.0846, step time: 1.0275
Batch 225/248, train_loss: 0.6084, step time: 1.0290
Batch 226/248, train_loss: 0.4306, step time: 1.0290
Batch 227/248, train_loss: 0.0960, step time: 1.0315
Batch 228/248, train_loss: 0.1820, step time: 1.0273
Batch 229/248, train_loss: 0.1150, step time: 1.0264
Batch 230/248, train_loss: 0.0784, step time: 1.0288
Batch 231/248, train_loss: 0.8883, step time: 1.0304
Batch 232/248, train_loss: 0.0844, step time: 1.0247
Batch 233/248, train_loss: 0.9826, step time: 1.0271
Batch 234/248, train_loss: 0.6559, step time: 1.0304
Batch 235/248, train_loss: 0.5895, step time: 1.0298
Batch 236/248, train_loss: 0.8583, step time: 1.0303
Batch 237/248, train_loss: 0.1396, step time: 1.0289
Batch 238/248, train_loss: 0.1103, step time: 1.0287
Batch 239/248, train_loss: 0.1279, step time: 1.0269
Batch 240/248, train_loss: 0.5482, step time: 1.0330
Batch 241/248, train_loss: 0.8556, step time: 1.0344
Batch 242/248, train_loss: 0.4068, step time: 1.0449
Batch 243/248, train_loss: 0.7258, step time: 1.0302
Batch 244/248, train_loss: 0.6416, step time: 1.0329
Batch 245/248, train_loss: 0.0807, step time: 1.0285
Batch 246/248, train_loss: 0.6181, step time: 1.0280
Batch 247/248, train_loss: 0.1232, step time: 1.0277
Batch 248/248, train_loss: 0.9997, step time: 1.0204
```

Labels

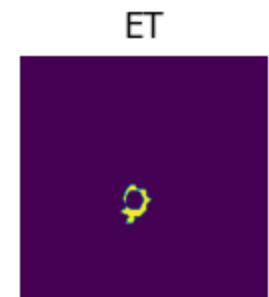
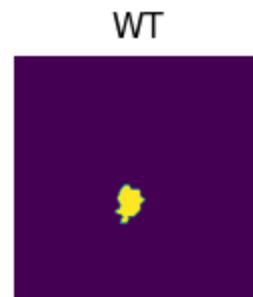
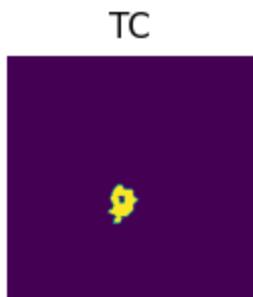


Predictions

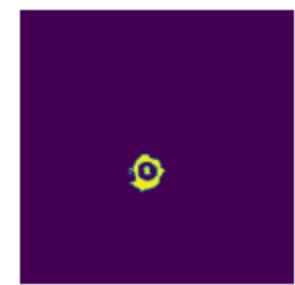
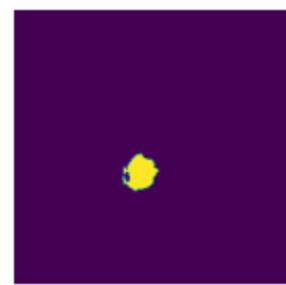
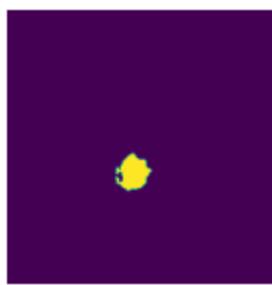


Batch 1/31, val_loss: 0.9645
Batch 2/31, val_loss: 0.9925
Batch 3/31, val_loss: 0.9687
Batch 4/31, val_loss: 0.9465
Batch 5/31, val_loss: 0.9922
Batch 6/31, val_loss: 0.7036
Batch 7/31, val_loss: 0.8319
Batch 8/31, val_loss: 0.9597
Batch 9/31, val_loss: 0.6983
Batch 10/31, val_loss: 0.9131
Batch 11/31, val_loss: 0.8256
Batch 12/31, val_loss: 0.9770
Batch 13/31, val_loss: 0.9851
Batch 14/31, val_loss: 0.9332
Batch 15/31, val_loss: 0.9933
Batch 16/31, val_loss: 0.9770
Batch 17/31, val_loss: 0.9753
Batch 18/31, val_loss: 0.9371
Batch 19/31, val_loss: 0.7507
Batch 20/31, val_loss: 0.8890
Batch 21/31, val_loss: 0.8711
Batch 22/31, val_loss: 0.9828
Batch 23/31, val_loss: 0.9818
Batch 24/31, val_loss: 0.7457
Batch 25/31, val_loss: 0.8049
Batch 26/31, val_loss: 0.9205
Batch 27/31, val_loss: 0.9754
Batch 28/31, val_loss: 0.7589
Batch 29/31, val_loss: 0.9929
Batch 30/31, val_loss: 0.9665
Batch 31/31, val_loss: 0.9822

Labels



Predictions



epoch 31

average train loss: 0.3724

```
average validation loss: 0.9096
saved as best model: False
current mean dice: 0.4301
current TC dice: 0.4476
current WT dice: 0.4516
current ET dice: 0.4300
Best Mean Metric: 0.4512
time consuming of epoch 31 is: 1559.0135
-----
epoch 32/100
TRAIN
    Batch 1/248, train_loss: 0.1102, step time: 1.0285
    Batch 2/248, train_loss: 0.8706, step time: 1.0321
    Batch 3/248, train_loss: 0.3933, step time: 1.0277
    Batch 4/248, train_loss: 0.9680, step time: 1.0257
    Batch 5/248, train_loss: 0.2696, step time: 1.0324
    Batch 6/248, train_loss: 0.6179, step time: 1.0269
    Batch 7/248, train_loss: 0.0572, step time: 1.0223
    Batch 8/248, train_loss: 0.7029, step time: 1.0279
    Batch 9/248, train_loss: 0.0487, step time: 1.0277
    Batch 10/248, train_loss: 0.2608, step time: 1.0299
    Batch 11/248, train_loss: 0.2343, step time: 1.0287
    Batch 12/248, train_loss: 0.6413, step time: 1.0327
    Batch 13/248, train_loss: 0.3762, step time: 1.0276
    Batch 14/248, train_loss: 0.0503, step time: 1.0266
    Batch 15/248, train_loss: 0.3397, step time: 1.0272
    Batch 16/248, train_loss: 0.1566, step time: 1.0273
    Batch 17/248, train_loss: 0.6538, step time: 1.0307
    Batch 18/248, train_loss: 0.5616, step time: 1.0334
    Batch 19/248, train_loss: 0.1744, step time: 1.0301
    Batch 20/248, train_loss: 0.2143, step time: 1.0331
    Batch 21/248, train_loss: 0.0579, step time: 1.0252
    Batch 22/248, train_loss: 0.9792, step time: 1.0275
    Batch 23/248, train_loss: 0.9948, step time: 1.0254
    Batch 24/248, train_loss: 0.1047, step time: 1.0293
    Batch 25/248, train_loss: 0.0913, step time: 1.0270
    Batch 26/248, train_loss: 0.7419, step time: 1.0318
    Batch 27/248, train_loss: 0.0735, step time: 1.0273
    Batch 28/248, train_loss: 0.1649, step time: 1.0290
    Batch 29/248, train_loss: 0.5527, step time: 1.0343
    Batch 30/248, train_loss: 0.7807, step time: 1.0329
    Batch 31/248, train_loss: 0.4071, step time: 1.0335
    Batch 32/248, train_loss: 0.0878, step time: 1.0232
    Batch 33/248, train_loss: 0.0804, step time: 1.0264
    Batch 34/248, train_loss: 0.0470, step time: 1.0264
    Batch 35/248, train_loss: 0.0503, step time: 1.0262
    Batch 36/248, train_loss: 0.8172, step time: 1.0294
    Batch 37/248, train_loss: 0.1866, step time: 1.0279
    Batch 38/248, train_loss: 0.3021, step time: 1.0265
    Batch 39/248, train_loss: 0.1522, step time: 1.0311
    Batch 40/248, train_loss: 0.9940, step time: 1.0233
    Batch 41/248, train_loss: 0.2513, step time: 1.0288
    Batch 42/248, train_loss: 0.0630, step time: 1.0273
    Batch 43/248, train_loss: 0.0595, step time: 1.0257
    Batch 44/248, train_loss: 0.2064, step time: 1.0333
    Batch 45/248, train_loss: 0.4507, step time: 1.0340
    Batch 46/248, train_loss: 0.2025, step time: 1.0201
```

Batch 40/248, train_loss: 0.2823, step time: 1.0294
Batch 47/248, train_loss: 0.0812, step time: 1.0308
Batch 48/248, train_loss: 0.2479, step time: 1.0322
Batch 49/248, train_loss: 0.5375, step time: 1.0270
Batch 50/248, train_loss: 0.1619, step time: 1.0317
Batch 51/248, train_loss: 0.1667, step time: 1.0298
Batch 52/248, train_loss: 0.1223, step time: 1.0269
Batch 53/248, train_loss: 0.4130, step time: 1.0317
Batch 54/248, train_loss: 0.2336, step time: 1.0282
Batch 55/248, train_loss: 0.3469, step time: 1.0304
Batch 56/248, train_loss: 0.2420, step time: 1.0283
Batch 57/248, train_loss: 0.2814, step time: 1.0276
Batch 58/248, train_loss: 0.0867, step time: 1.0269
Batch 59/248, train_loss: 0.0882, step time: 1.0268
Batch 60/248, train_loss: 0.0611, step time: 1.0267
Batch 61/248, train_loss: 0.1066, step time: 1.0264
Batch 62/248, train_loss: 0.2404, step time: 1.0291
Batch 63/248, train_loss: 0.7325, step time: 1.0305
Batch 64/248, train_loss: 0.5748, step time: 1.0303
Batch 65/248, train_loss: 0.6597, step time: 1.0303
Batch 66/248, train_loss: 0.1778, step time: 1.0298
Batch 67/248, train_loss: 0.0740, step time: 1.0271
Batch 68/248, train_loss: 0.1335, step time: 1.0315
Batch 69/248, train_loss: 0.8286, step time: 1.0344
Batch 70/248, train_loss: 0.1268, step time: 1.0264
Batch 71/248, train_loss: 0.1571, step time: 1.0310
Batch 72/248, train_loss: 0.0641, step time: 1.0271
Batch 73/248, train_loss: 0.4531, step time: 1.0280
Batch 74/248, train_loss: 0.9958, step time: 1.0240
Batch 75/248, train_loss: 0.1363, step time: 1.0313
Batch 76/248, train_loss: 0.8230, step time: 1.0294
Batch 77/248, train_loss: 0.9731, step time: 1.0281
Batch 78/248, train_loss: 0.1775, step time: 1.0284
Batch 79/248, train_loss: 0.1429, step time: 1.0294
Batch 80/248, train_loss: 0.2654, step time: 1.0305
Batch 81/248, train_loss: 0.2536, step time: 1.0337
Batch 82/248, train_loss: 0.0865, step time: 1.0320
Batch 83/248, train_loss: 0.7523, step time: 1.0297
Batch 84/248, train_loss: 0.2269, step time: 1.0350
Batch 85/248, train_loss: 0.4838, step time: 1.0310
Batch 86/248, train_loss: 0.4281, step time: 1.0283
Batch 87/248, train_loss: 0.5714, step time: 1.0291
Batch 88/248, train_loss: 0.4246, step time: 1.0281
Batch 89/248, train_loss: 0.1094, step time: 1.0302
Batch 90/248, train_loss: 0.6401, step time: 1.0326
Batch 91/248, train_loss: 0.6780, step time: 1.0322
Batch 92/248, train_loss: 0.4805, step time: 1.0298
Batch 93/248, train_loss: 0.1672, step time: 1.0279
Batch 94/248, train_loss: 0.5278, step time: 1.0298
Batch 95/248, train_loss: 0.1665, step time: 1.0283
Batch 96/248, train_loss: 0.2110, step time: 1.0285
Batch 97/248, train_loss: 0.8430, step time: 1.0345
Batch 98/248, train_loss: 0.1778, step time: 1.0312
Batch 99/248, train_loss: 0.3725, step time: 1.0297
Batch 100/248, train_loss: 0.5474, step time: 1.0303
Batch 101/248, train_loss: 0.0512, step time: 1.0245
Batch 102/248, train_loss: 0.1248, step time: 1.0329

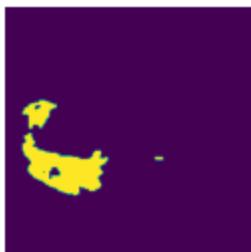
Batch 103/248, train_loss: 0.6807, step time: 1.0286
Batch 104/248, train_loss: 0.4594, step time: 1.0320
Batch 105/248, train_loss: 0.0943, step time: 1.0248
Batch 106/248, train_loss: 0.1869, step time: 1.0310
Batch 107/248, train_loss: 0.7031, step time: 1.0311
Batch 108/248, train_loss: 0.4828, step time: 1.0316
Batch 109/248, train_loss: 0.9739, step time: 1.0256
Batch 110/248, train_loss: 0.5555, step time: 1.0303
Batch 111/248, train_loss: 0.1432, step time: 1.0279
Batch 112/248, train_loss: 0.1690, step time: 1.0291
Batch 113/248, train_loss: 0.9793, step time: 1.0281
Batch 114/248, train_loss: 0.1479, step time: 1.0282
Batch 115/248, train_loss: 0.2362, step time: 1.0265
Batch 116/248, train_loss: 0.1020, step time: 1.0266
Batch 117/248, train_loss: 0.8746, step time: 1.0313
Batch 118/248, train_loss: 0.9373, step time: 1.0259
Batch 119/248, train_loss: 0.3090, step time: 1.0297
Batch 120/248, train_loss: 0.2712, step time: 1.0299
Batch 121/248, train_loss: 0.3810, step time: 1.0305
Batch 122/248, train_loss: 0.5262, step time: 1.0322
Batch 123/248, train_loss: 0.0898, step time: 1.0291
Batch 124/248, train_loss: 0.6661, step time: 1.0319
Batch 125/248, train_loss: 0.8821, step time: 1.0293
Batch 126/248, train_loss: 0.2458, step time: 1.0288
Batch 127/248, train_loss: 0.1162, step time: 1.0298
Batch 128/248, train_loss: 0.2877, step time: 1.0302
Batch 129/248, train_loss: 0.1247, step time: 1.0269
Batch 130/248, train_loss: 0.1136, step time: 1.0261
Batch 131/248, train_loss: 0.6595, step time: 1.0317
Batch 132/248, train_loss: 0.6827, step time: 1.0292
Batch 133/248, train_loss: 0.1952, step time: 1.0260
Batch 134/248, train_loss: 0.8547, step time: 1.0318
Batch 135/248, train_loss: 0.3681, step time: 1.0297
Batch 136/248, train_loss: 0.1282, step time: 1.0320
Batch 137/248, train_loss: 0.1562, step time: 1.0270
Batch 138/248, train_loss: 0.0824, step time: 1.0287
Batch 139/248, train_loss: 0.1766, step time: 1.0293
Batch 140/248, train_loss: 0.1685, step time: 1.0294
Batch 141/248, train_loss: 0.3136, step time: 1.0297
Batch 142/248, train_loss: 0.7170, step time: 1.0332
Batch 143/248, train_loss: 0.3512, step time: 1.0315
Batch 144/248, train_loss: 0.1264, step time: 1.0244
Batch 145/248, train_loss: 0.0609, step time: 1.0249
Batch 146/248, train_loss: 0.9885, step time: 1.0290
Batch 147/248, train_loss: 0.0468, step time: 1.0240
Batch 148/248, train_loss: 0.8812, step time: 1.0298
Batch 149/248, train_loss: 0.1184, step time: 1.0294
Batch 150/248, train_loss: 0.7039, step time: 1.0255
Batch 151/248, train_loss: 0.8197, step time: 1.0294
Batch 152/248, train_loss: 0.0518, step time: 1.0240
Batch 153/248, train_loss: 0.3698, step time: 1.0293
Batch 154/248, train_loss: 0.8700, step time: 1.0307
Batch 155/248, train_loss: 0.1972, step time: 1.0304
Batch 156/248, train_loss: 0.2456, step time: 1.0299
Batch 157/248, train_loss: 0.3236, step time: 1.0292
Batch 158/248, train_loss: 0.9940, step time: 1.0269
Batch 159/248, train_loss: 0.6010, step time: 1.0210

Batch 159/248, train_loss: 0.0948, step time: 1.0290
Batch 160/248, train_loss: 0.0930, step time: 1.0290
Batch 161/248, train_loss: 0.0965, step time: 1.0305
Batch 162/248, train_loss: 0.1059, step time: 1.0320
Batch 163/248, train_loss: 0.1664, step time: 1.0338
Batch 164/248, train_loss: 0.2937, step time: 1.0303
Batch 165/248, train_loss: 0.9880, step time: 1.0286
Batch 166/248, train_loss: 0.1097, step time: 1.0309
Batch 167/248, train_loss: 0.1917, step time: 1.0278
Batch 168/248, train_loss: 0.1731, step time: 1.0288
Batch 169/248, train_loss: 0.0852, step time: 1.0271
Batch 170/248, train_loss: 0.7868, step time: 1.0328
Batch 171/248, train_loss: 0.1030, step time: 1.0263
Batch 172/248, train_loss: 0.8698, step time: 1.0280
Batch 173/248, train_loss: 0.1092, step time: 1.0273
Batch 174/248, train_loss: 0.9728, step time: 1.0287
Batch 175/248, train_loss: 0.1777, step time: 1.0249
Batch 176/248, train_loss: 0.3881, step time: 1.0281
Batch 177/248, train_loss: 0.4264, step time: 1.0333
Batch 178/248, train_loss: 0.3256, step time: 1.0313
Batch 179/248, train_loss: 0.0902, step time: 1.0282
Batch 180/248, train_loss: 0.3785, step time: 1.0310
Batch 181/248, train_loss: 0.1104, step time: 1.0254
Batch 182/248, train_loss: 0.9824, step time: 1.0272
Batch 183/248, train_loss: 0.2597, step time: 1.0301
Batch 184/248, train_loss: 0.5689, step time: 1.0312
Batch 185/248, train_loss: 0.1177, step time: 1.0270
Batch 186/248, train_loss: 0.1329, step time: 1.0277
Batch 187/248, train_loss: 0.2168, step time: 1.0301
Batch 188/248, train_loss: 0.2111, step time: 1.0274
Batch 189/248, train_loss: 0.7127, step time: 1.0342
Batch 190/248, train_loss: 0.1575, step time: 1.0299
Batch 191/248, train_loss: 0.6780, step time: 1.0272
Batch 192/248, train_loss: 0.3137, step time: 1.0288
Batch 193/248, train_loss: 0.3035, step time: 1.0316
Batch 194/248, train_loss: 0.0921, step time: 1.0284
Batch 195/248, train_loss: 0.8548, step time: 1.0306
Batch 196/248, train_loss: 0.9990, step time: 1.0237
Batch 197/248, train_loss: 0.2274, step time: 1.0294
Batch 198/248, train_loss: 0.9935, step time: 1.0262
Batch 199/248, train_loss: 0.1468, step time: 1.0295
Batch 200/248, train_loss: 0.1284, step time: 1.0298
Batch 201/248, train_loss: 0.1240, step time: 1.0280
Batch 202/248, train_loss: 0.4201, step time: 1.0311
Batch 203/248, train_loss: 0.6610, step time: 1.0286
Batch 204/248, train_loss: 0.0955, step time: 1.0247
Batch 205/248, train_loss: 0.2859, step time: 1.0289
Batch 206/248, train_loss: 0.6197, step time: 1.0292
Batch 207/248, train_loss: 0.0873, step time: 1.0255
Batch 208/248, train_loss: 0.1405, step time: 1.0312
Batch 209/248, train_loss: 0.1885, step time: 1.0295
Batch 210/248, train_loss: 0.0643, step time: 1.0285
Batch 211/248, train_loss: 0.0627, step time: 1.0259
Batch 212/248, train_loss: 0.3128, step time: 1.0307
Batch 213/248, train_loss: 0.2063, step time: 1.0306
Batch 214/248, train_loss: 0.0737, step time: 1.0293
Batch 215/248, train_loss: 0.2241, step time: 1.0327

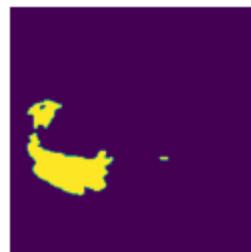
```
Batch 216/248, train_loss: 0.1812, step time: 1.0305
Batch 217/248, train_loss: 0.3192, step time: 1.0324
Batch 218/248, train_loss: 0.8364, step time: 1.0326
Batch 219/248, train_loss: 0.0823, step time: 1.0316
Batch 220/248, train_loss: 0.2443, step time: 1.0330
Batch 221/248, train_loss: 0.2770, step time: 1.0305
Batch 222/248, train_loss: 0.1843, step time: 1.0274
Batch 223/248, train_loss: 0.0443, step time: 1.0220
Batch 224/248, train_loss: 0.0810, step time: 1.0252
Batch 225/248, train_loss: 0.4076, step time: 1.0300
Batch 226/248, train_loss: 0.3359, step time: 1.0288
Batch 227/248, train_loss: 0.0919, step time: 1.0240
Batch 228/248, train_loss: 0.1671, step time: 1.0296
Batch 229/248, train_loss: 0.1224, step time: 1.0255
Batch 230/248, train_loss: 0.0950, step time: 1.0279
Batch 231/248, train_loss: 0.9446, step time: 1.0267
Batch 232/248, train_loss: 0.1023, step time: 1.0304
Batch 233/248, train_loss: 0.9801, step time: 1.0260
Batch 234/248, train_loss: 0.6169, step time: 1.0305
Batch 235/248, train_loss: 0.6111, step time: 1.0314
Batch 236/248, train_loss: 0.9009, step time: 1.0319
Batch 237/248, train_loss: 0.1284, step time: 1.0264
Batch 238/248, train_loss: 0.1066, step time: 1.0277
Batch 239/248, train_loss: 0.0796, step time: 1.0262
Batch 240/248, train_loss: 0.3370, step time: 1.0318
Batch 241/248, train_loss: 0.9238, step time: 1.0275
Batch 242/248, train_loss: 0.2470, step time: 1.0292
Batch 243/248, train_loss: 0.7465, step time: 1.0303
Batch 244/248, train_loss: 0.5987, step time: 1.0309
Batch 245/248, train_loss: 0.0641, step time: 1.0246
Batch 246/248, train_loss: 0.6671, step time: 1.0277
Batch 247/248, train_loss: 0.0823, step time: 1.0250
Batch 248/248, train_loss: 0.9999, step time: 1.0188
```

Labels

TC



WT



ET



Predictions



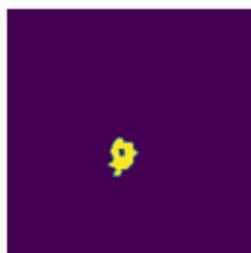
....

VAL

Batch 1/31, val_loss: 0.9150
Batch 2/31, val_loss: 0.9920
Batch 3/31, val_loss: 0.9672
Batch 4/31, val_loss: 0.9456
Batch 5/31, val_loss: 0.9922
Batch 6/31, val_loss: 0.6971
Batch 7/31, val_loss: 0.8325
Batch 8/31, val_loss: 0.9548
Batch 9/31, val_loss: 0.6917
Batch 10/31, val_loss: 0.9103
Batch 11/31, val_loss: 0.8286
Batch 12/31, val_loss: 0.9782
Batch 13/31, val_loss: 0.9909
Batch 14/31, val_loss: 0.9435
Batch 15/31, val_loss: 0.9906
Batch 16/31, val_loss: 0.9786
Batch 17/31, val_loss: 0.9732
Batch 18/31, val_loss: 0.9359
Batch 19/31, val_loss: 0.7529
Batch 20/31, val_loss: 0.8796
Batch 21/31, val_loss: 0.8687
Batch 22/31, val_loss: 0.9812
Batch 23/31, val_loss: 0.9824
Batch 24/31, val_loss: 0.7423
Batch 25/31, val_loss: 0.8060
Batch 26/31, val_loss: 0.9191
Batch 27/31, val_loss: 0.9741
Batch 28/31, val_loss: 0.7479
Batch 29/31, val_loss: 0.9922
Batch 30/31, val_loss: 0.9639
Batch 31/31, val_loss: 0.9798

Labels

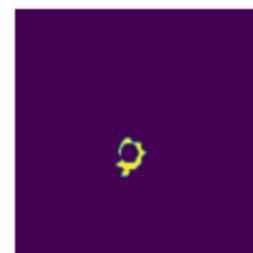
TC



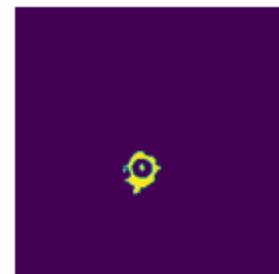
WT



ET



Predictions



epoch 32

average train loss: 0.3679

```
-----  
average validation loss: 0.9067  
saved as best model: False  
current mean dice: 0.4483  
current TC dice: 0.4675  
current WT dice: 0.4734  
current ET dice: 0.4445  
Best Mean Metric: 0.4512  
time consuming of epoch 32 is: 1571.5018  
-----  
epoch 33/100  
TRAIN  
Batch 1/248, train_loss: 0.0857, step time: 1.0287  
Batch 2/248, train_loss: 0.8276, step time: 1.0340  
Batch 3/248, train_loss: 0.3619, step time: 1.0306  
Batch 4/248, train_loss: 0.9626, step time: 1.0318  
Batch 5/248, train_loss: 0.2163, step time: 1.0287  
Batch 6/248, train_loss: 0.5763, step time: 1.0282  
Batch 7/248, train_loss: 0.0602, step time: 1.0255  
Batch 8/248, train_loss: 0.7271, step time: 1.0253  
Batch 9/248, train_loss: 0.0461, step time: 1.0242  
Batch 10/248, train_loss: 0.2484, step time: 1.0296  
Batch 11/248, train_loss: 0.2233, step time: 1.0264  
Batch 12/248, train_loss: 0.6937, step time: 1.0318  
Batch 13/248, train_loss: 0.4136, step time: 1.0317  
Batch 14/248, train_loss: 0.0538, step time: 1.0268  
Batch 15/248, train_loss: 0.3215, step time: 1.0307  
Batch 16/248, train_loss: 0.1391, step time: 1.0249  
Batch 17/248, train_loss: 0.4580, step time: 1.0271  
Batch 18/248, train_loss: 0.4694, step time: 1.0331  
Batch 19/248, train_loss: 0.0987, step time: 1.0288  
Batch 20/248, train_loss: 0.1929, step time: 1.0284  
Batch 21/248, train_loss: 0.0676, step time: 1.0246  
Batch 22/248, train_loss: 0.9928, step time: 1.0253  
Batch 23/248, train_loss: 0.9963, step time: 1.0232  
Batch 24/248, train_loss: 0.0850, step time: 1.0259  
Batch 25/248, train_loss: 0.0773, step time: 1.0295  
Batch 26/248, train_loss: 0.7525, step time: 1.0331  
Batch 27/248, train_loss: 0.0670, step time: 1.0285  
Batch 28/248, train_loss: 0.1542, step time: 1.0268  
Batch 29/248, train_loss: 0.5140, step time: 1.0316  
Batch 30/248, train_loss: 0.2781, step time: 1.0305  
Batch 31/248, train_loss: 0.3267, step time: 1.0288  
Batch 32/248, train_loss: 0.0843, step time: 1.0270  
Batch 33/248, train_loss: 0.0757, step time: 1.0266  
Batch 34/248, train_loss: 0.0422, step time: 1.0227  
Batch 35/248, train_loss: 0.0406, step time: 1.0228  
Batch 36/248, train_loss: 0.8165, step time: 1.0307  
Batch 37/248, train_loss: 0.1869, step time: 1.0235  
Batch 38/248, train_loss: 0.3015, step time: 1.0290  
Batch 39/248, train_loss: 0.1645, step time: 1.0259  
Batch 40/248, train_loss: 0.9892, step time: 1.0259  
Batch 41/248, train_loss: 0.2418, step time: 1.0284  
Batch 42/248, train_loss: 0.0601, step time: 1.0311  
Batch 43/248, train_loss: 0.0573, step time: 1.0279  
Batch 44/248, train_loss: 0.3118, step time: 1.0312  
Batch 45/248, train_loss: 0.4715, step time: 1.0313
```

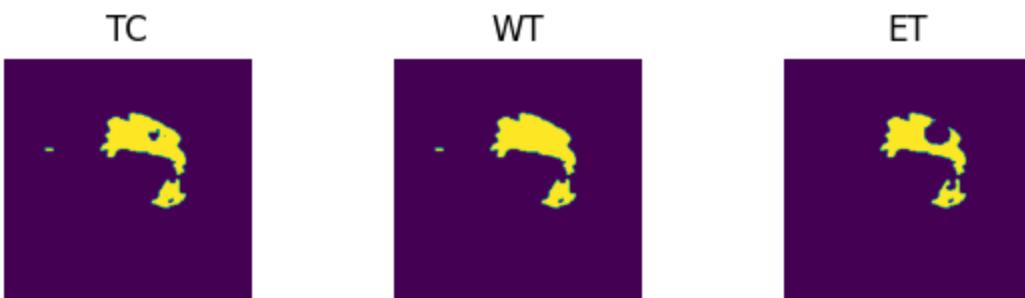
Batch 46/248, train_loss: 0.1957, step time: 1.0292
Batch 47/248, train_loss: 0.0728, step time: 1.0298
Batch 48/248, train_loss: 0.2877, step time: 1.0275
Batch 49/248, train_loss: 0.5263, step time: 1.0301
Batch 50/248, train_loss: 0.1471, step time: 1.0296
Batch 51/248, train_loss: 0.1717, step time: 1.0292
Batch 52/248, train_loss: 0.1163, step time: 1.0262
Batch 53/248, train_loss: 0.4157, step time: 1.0300
Batch 54/248, train_loss: 0.2700, step time: 1.0283
Batch 55/248, train_loss: 0.3209, step time: 1.0282
Batch 56/248, train_loss: 0.2170, step time: 1.0284
Batch 57/248, train_loss: 0.2989, step time: 1.0265
Batch 58/248, train_loss: 0.0931, step time: 1.0258
Batch 59/248, train_loss: 0.0868, step time: 1.0261
Batch 60/248, train_loss: 0.0600, step time: 1.0250
Batch 61/248, train_loss: 0.1135, step time: 1.0254
Batch 62/248, train_loss: 0.2477, step time: 1.0272
Batch 63/248, train_loss: 0.8179, step time: 1.0315
Batch 64/248, train_loss: 0.5447, step time: 1.0306
Batch 65/248, train_loss: 0.6474, step time: 1.0299
Batch 66/248, train_loss: 0.1755, step time: 1.0324
Batch 67/248, train_loss: 0.0716, step time: 1.0239
Batch 68/248, train_loss: 0.1309, step time: 1.0284
Batch 69/248, train_loss: 0.6557, step time: 1.0311
Batch 70/248, train_loss: 0.1262, step time: 1.0320
Batch 71/248, train_loss: 0.1398, step time: 1.0292
Batch 72/248, train_loss: 0.0642, step time: 1.0274
Batch 73/248, train_loss: 0.2050, step time: 1.0248
Batch 74/248, train_loss: 0.9975, step time: 1.0252
Batch 75/248, train_loss: 0.1265, step time: 1.0294
Batch 76/248, train_loss: 0.6655, step time: 1.0321
Batch 77/248, train_loss: 0.9824, step time: 1.0248
Batch 78/248, train_loss: 0.1332, step time: 1.0256
Batch 79/248, train_loss: 0.1521, step time: 1.0291
Batch 80/248, train_loss: 0.2001, step time: 1.0302
Batch 81/248, train_loss: 0.5224, step time: 1.0320
Batch 82/248, train_loss: 0.0895, step time: 1.0310
Batch 83/248, train_loss: 0.6059, step time: 1.0321
Batch 84/248, train_loss: 0.3034, step time: 1.0296
Batch 85/248, train_loss: 0.6292, step time: 1.0297
Batch 86/248, train_loss: 0.2837, step time: 1.0273
Batch 87/248, train_loss: 0.5690, step time: 1.0308
Batch 88/248, train_loss: 0.4030, step time: 1.0297
Batch 89/248, train_loss: 0.1091, step time: 1.0257
Batch 90/248, train_loss: 0.3193, step time: 1.0288
Batch 91/248, train_loss: 0.7069, step time: 1.0322
Batch 92/248, train_loss: 0.4137, step time: 1.0308
Batch 93/248, train_loss: 0.1820, step time: 1.0262
Batch 94/248, train_loss: 0.4602, step time: 1.0306
Batch 95/248, train_loss: 0.1778, step time: 1.0317
Batch 96/248, train_loss: 0.2302, step time: 1.0316
Batch 97/248, train_loss: 0.7668, step time: 1.0325
Batch 98/248, train_loss: 0.1459, step time: 1.0272
Batch 99/248, train_loss: 0.4261, step time: 1.0274
Batch 100/248, train_loss: 0.5235, step time: 1.0315
Batch 101/248, train_loss: 0.0566, step time: 1.0233
Batch 102/248, train_loss: 0.1100, step time: 1.0273

Batch 103/248, train_loss: 0.7505, step time: 1.0276
Batch 104/248, train_loss: 0.4398, step time: 1.0310
Batch 105/248, train_loss: 0.0824, step time: 1.0241
Batch 106/248, train_loss: 0.1641, step time: 1.0292
Batch 107/248, train_loss: 0.6518, step time: 1.0281
Batch 108/248, train_loss: 0.5701, step time: 1.0304
Batch 109/248, train_loss: 0.9877, step time: 1.0277
Batch 110/248, train_loss: 0.5007, step time: 1.0340
Batch 111/248, train_loss: 0.0957, step time: 1.0295
Batch 112/248, train_loss: 0.1524, step time: 1.0327
Batch 113/248, train_loss: 0.9815, step time: 1.0339
Batch 114/248, train_loss: 0.1480, step time: 1.0265
Batch 115/248, train_loss: 0.1812, step time: 1.0342
Batch 116/248, train_loss: 0.0939, step time: 1.0251
Batch 117/248, train_loss: 0.8063, step time: 1.0263
Batch 118/248, train_loss: 0.8071, step time: 1.0271
Batch 119/248, train_loss: 0.3423, step time: 1.0274
Batch 120/248, train_loss: 0.2634, step time: 1.0263
Batch 121/248, train_loss: 0.3476, step time: 1.0315
Batch 122/248, train_loss: 0.5038, step time: 1.0299
Batch 123/248, train_loss: 0.1087, step time: 1.0285
Batch 124/248, train_loss: 0.6989, step time: 1.0312
Batch 125/248, train_loss: 0.8238, step time: 1.0303
Batch 126/248, train_loss: 0.2566, step time: 1.0307
Batch 127/248, train_loss: 0.1267, step time: 1.0315
Batch 128/248, train_loss: 0.2837, step time: 1.0311
Batch 129/248, train_loss: 0.1215, step time: 1.0278
Batch 130/248, train_loss: 0.1046, step time: 1.0288
Batch 131/248, train_loss: 0.6948, step time: 1.0278
Batch 132/248, train_loss: 0.7155, step time: 1.0306
Batch 133/248, train_loss: 0.1837, step time: 1.0273
Batch 134/248, train_loss: 0.9139, step time: 1.0305
Batch 135/248, train_loss: 0.3356, step time: 1.0287
Batch 136/248, train_loss: 0.1035, step time: 1.0287
Batch 137/248, train_loss: 0.1765, step time: 1.0281
Batch 138/248, train_loss: 0.0768, step time: 1.0268
Batch 139/248, train_loss: 0.2136, step time: 1.0309
Batch 140/248, train_loss: 0.2372, step time: 1.0292
Batch 141/248, train_loss: 0.3665, step time: 1.0288
Batch 142/248, train_loss: 0.6806, step time: 1.0336
Batch 143/248, train_loss: 0.3339, step time: 1.0304
Batch 144/248, train_loss: 0.1184, step time: 1.0247
Batch 145/248, train_loss: 0.0616, step time: 1.0265
Batch 146/248, train_loss: 0.8725, step time: 1.0265
Batch 147/248, train_loss: 0.0417, step time: 1.0266
Batch 148/248, train_loss: 0.9029, step time: 1.0276
Batch 149/248, train_loss: 0.1168, step time: 1.0257
Batch 150/248, train_loss: 0.7015, step time: 1.0274
Batch 151/248, train_loss: 0.8526, step time: 1.0285
Batch 152/248, train_loss: 0.0446, step time: 1.0256
Batch 153/248, train_loss: 0.3880, step time: 1.0286
Batch 154/248, train_loss: 0.8747, step time: 1.0284
Batch 155/248, train_loss: 0.1943, step time: 1.0304
Batch 156/248, train_loss: 0.2087, step time: 1.0318
Batch 157/248, train_loss: 0.3198, step time: 1.0354
Batch 158/248, train_loss: 0.9911, step time: 1.0260

Batch 159/248, train_loss: 0.6469, step time: 1.0322
Batch 160/248, train_loss: 0.0899, step time: 1.0269
Batch 161/248, train_loss: 0.0989, step time: 1.0283
Batch 162/248, train_loss: 0.1015, step time: 1.0241
Batch 163/248, train_loss: 0.1854, step time: 1.0327
Batch 164/248, train_loss: 0.2213, step time: 1.0272
Batch 165/248, train_loss: 0.9877, step time: 1.0266
Batch 166/248, train_loss: 0.1084, step time: 1.0309
Batch 167/248, train_loss: 0.2073, step time: 1.0295
Batch 168/248, train_loss: 0.1928, step time: 1.0282
Batch 169/248, train_loss: 0.0989, step time: 1.0256
Batch 170/248, train_loss: 0.7896, step time: 1.0306
Batch 171/248, train_loss: 0.1013, step time: 1.0270
Batch 172/248, train_loss: 0.8832, step time: 1.0305
Batch 173/248, train_loss: 0.1037, step time: 1.0259
Batch 174/248, train_loss: 0.9086, step time: 1.0295
Batch 175/248, train_loss: 0.1537, step time: 1.0283
Batch 176/248, train_loss: 0.3781, step time: 1.0268
Batch 177/248, train_loss: 0.3823, step time: 1.0322
Batch 178/248, train_loss: 0.3269, step time: 1.0301
Batch 179/248, train_loss: 0.0909, step time: 1.0252
Batch 180/248, train_loss: 0.3772, step time: 1.0288
Batch 181/248, train_loss: 0.1076, step time: 1.0282
Batch 182/248, train_loss: 0.9447, step time: 1.0285
Batch 183/248, train_loss: 0.2243, step time: 1.0269
Batch 184/248, train_loss: 0.4865, step time: 1.0294
Batch 185/248, train_loss: 0.1236, step time: 1.0318
Batch 186/248, train_loss: 0.1255, step time: 1.0314
Batch 187/248, train_loss: 0.2429, step time: 1.0256
Batch 188/248, train_loss: 0.2345, step time: 1.0273
Batch 189/248, train_loss: 0.7122, step time: 1.0300
Batch 190/248, train_loss: 0.1494, step time: 1.0282
Batch 191/248, train_loss: 0.6709, step time: 1.0280
Batch 192/248, train_loss: 0.3137, step time: 1.0286
Batch 193/248, train_loss: 0.3623, step time: 1.0269
Batch 194/248, train_loss: 0.0885, step time: 1.0299
Batch 195/248, train_loss: 0.9220, step time: 1.0302
Batch 196/248, train_loss: 0.9989, step time: 1.0260
Batch 197/248, train_loss: 0.2239, step time: 1.0337
Batch 198/248, train_loss: 0.9870, step time: 1.0325
Batch 199/248, train_loss: 0.1425, step time: 1.0316
Batch 200/248, train_loss: 0.1356, step time: 1.0304
Batch 201/248, train_loss: 0.1350, step time: 1.0277
Batch 202/248, train_loss: 0.4010, step time: 1.0318
Batch 203/248, train_loss: 0.7036, step time: 1.0290
Batch 204/248, train_loss: 0.0844, step time: 1.0240
Batch 205/248, train_loss: 0.2672, step time: 1.0276
Batch 206/248, train_loss: 0.5220, step time: 1.0344
Batch 207/248, train_loss: 0.0952, step time: 1.0296
Batch 208/248, train_loss: 0.1855, step time: 1.0266
Batch 209/248, train_loss: 0.1619, step time: 1.0263
Batch 210/248, train_loss: 0.0588, step time: 1.0263
Batch 211/248, train_loss: 0.0616, step time: 1.0271
Batch 212/248, train_loss: 0.3831, step time: 1.0299
Batch 213/248, train_loss: 0.1739, step time: 1.0287
Batch 214/248, train_loss: 0.0697, step time: 1.0254
Batch 215/248. train loss: 0.2085. step time: 1.0291

```
Batch 216/248, train_loss: 0.1819, step time: 1.0292
Batch 217/248, train_loss: 0.2830, step time: 1.0333
Batch 218/248, train_loss: 0.8792, step time: 1.0295
Batch 219/248, train_loss: 0.0824, step time: 1.0297
Batch 220/248, train_loss: 0.2385, step time: 1.0298
Batch 221/248, train_loss: 0.3283, step time: 1.0320
Batch 222/248, train_loss: 0.1858, step time: 1.0289
Batch 223/248, train_loss: 0.0446, step time: 1.0253
Batch 224/248, train_loss: 0.0794, step time: 1.0253
Batch 225/248, train_loss: 0.4452, step time: 1.0303
Batch 226/248, train_loss: 0.3776, step time: 1.0271
Batch 227/248, train_loss: 0.1355, step time: 1.0221
Batch 228/248, train_loss: 0.2652, step time: 1.0274
Batch 229/248, train_loss: 0.1291, step time: 1.0258
Batch 230/248, train_loss: 0.0927, step time: 1.0270
Batch 231/248, train_loss: 0.6802, step time: 1.0289
Batch 232/248, train_loss: 0.0814, step time: 1.0260
Batch 233/248, train_loss: 0.9772, step time: 1.0267
Batch 234/248, train_loss: 0.5848, step time: 1.0296
Batch 235/248, train_loss: 0.5302, step time: 1.0312
Batch 236/248, train_loss: 0.8721, step time: 1.0322
Batch 237/248, train_loss: 0.1154, step time: 1.0277
Batch 238/248, train_loss: 0.1184, step time: 1.0296
Batch 239/248, train_loss: 0.1234, step time: 1.0284
Batch 240/248, train_loss: 0.5162, step time: 1.0329
Batch 241/248, train_loss: 0.8288, step time: 1.0322
Batch 242/248, train_loss: 0.4016, step time: 1.0293
Batch 243/248, train_loss: 0.7558, step time: 1.0266
Batch 244/248, train_loss: 0.5553, step time: 1.0324
Batch 245/248, train_loss: 0.1547, step time: 1.0284
Batch 246/248, train_loss: 0.6576, step time: 1.0276
Batch 247/248, train_loss: 0.1002, step time: 1.0251
Batch 248/248, train_loss: 0.9995, step time: 1.0222
```

Labels



Predictions

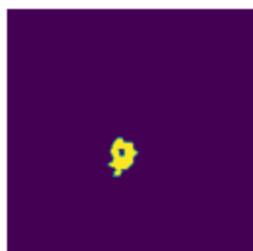


VAL

Batch 1/31, val_loss: 0.9457
Batch 2/31, val_loss: 0.9918
Batch 3/31, val_loss: 0.9645
Batch 4/31, val_loss: 0.9458
Batch 5/31, val_loss: 0.9924
Batch 6/31, val_loss: 0.7191
Batch 7/31, val_loss: 0.8438
Batch 8/31, val_loss: 0.9472
Batch 9/31, val_loss: 0.6986
Batch 10/31, val_loss: 0.9140
Batch 11/31, val_loss: 0.8296
Batch 12/31, val_loss: 0.9771
Batch 13/31, val_loss: 0.9860
Batch 14/31, val_loss: 0.9437
Batch 15/31, val_loss: 0.9889
Batch 16/31, val_loss: 0.9763
Batch 17/31, val_loss: 0.9735
Batch 18/31, val_loss: 0.9376
Batch 19/31, val_loss: 0.7507
Batch 20/31, val_loss: 0.8853
Batch 21/31, val_loss: 0.8709
Batch 22/31, val_loss: 0.9830
Batch 23/31, val_loss: 0.9783
Batch 24/31, val_loss: 0.7457
Batch 25/31, val_loss: 0.8111
Batch 26/31, val_loss: 0.9208
Batch 27/31, val_loss: 0.9724
Batch 28/31, val_loss: 0.7658
Batch 29/31, val_loss: 0.9908
Batch 30/31, val_loss: 0.9639
Batch 31/31, val_loss: 0.9792

Labels

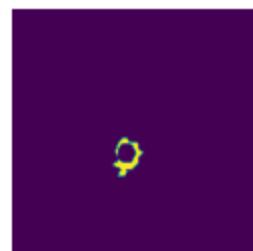
TC



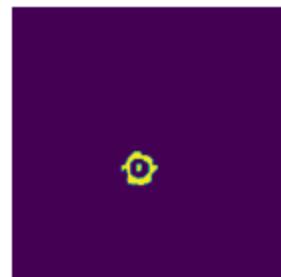
WT



ET



Predictions



epoch 33

----- 0.000000 0.000000 0.000000

```
average train loss: 0.3585
average validation loss: 0.9095
saved as best model: False
current mean dice: 0.4489
current TC dice: 0.4652
current WT dice: 0.4689
current ET dice: 0.4536
Best Mean Metric: 0.4512
time consuming of epoch 33 is: 1518.8421
-----
epoch 34/100
TRAIN
Batch 1/248, train_loss: 0.1074, step time: 1.0270
Batch 2/248, train_loss: 0.9019, step time: 1.0340
Batch 3/248, train_loss: 0.3912, step time: 1.0328
Batch 4/248, train_loss: 0.9678, step time: 1.0266
Batch 5/248, train_loss: 0.2349, step time: 1.0290
Batch 6/248, train_loss: 0.5630, step time: 1.0308
Batch 7/248, train_loss: 0.0690, step time: 1.0273
Batch 8/248, train_loss: 0.6929, step time: 1.0289
Batch 9/248, train_loss: 0.0573, step time: 1.0289
Batch 10/248, train_loss: 0.2773, step time: 1.0287
Batch 11/248, train_loss: 0.2386, step time: 1.0279
Batch 12/248, train_loss: 0.7023, step time: 1.0295
Batch 13/248, train_loss: 0.4125, step time: 1.0285
Batch 14/248, train_loss: 0.0547, step time: 1.0246
Batch 15/248, train_loss: 0.3481, step time: 1.0280
Batch 16/248, train_loss: 0.1570, step time: 1.0267
Batch 17/248, train_loss: 0.5026, step time: 1.0276
Batch 18/248, train_loss: 0.5047, step time: 1.0291
Batch 19/248, train_loss: 0.1110, step time: 1.0259
Batch 20/248, train_loss: 0.2453, step time: 1.0271
Batch 21/248, train_loss: 0.0615, step time: 1.0255
Batch 22/248, train_loss: 0.9930, step time: 1.0231
Batch 23/248, train_loss: 0.9968, step time: 1.0232
Batch 24/248, train_loss: 0.0750, step time: 1.0274
Batch 25/248, train_loss: 0.0720, step time: 1.0289
Batch 26/248, train_loss: 0.7627, step time: 1.0296
Batch 27/248, train_loss: 0.0695, step time: 1.0264
Batch 28/248, train_loss: 0.1614, step time: 1.0273
Batch 29/248, train_loss: 0.5328, step time: 1.0288
Batch 30/248, train_loss: 0.2570, step time: 1.0262
Batch 31/248, train_loss: 0.3201, step time: 1.0264
Batch 32/248, train_loss: 0.0900, step time: 1.0224
Batch 33/248, train_loss: 0.0799, step time: 1.0268
Batch 34/248, train_loss: 0.0449, step time: 1.0261
Batch 35/248, train_loss: 0.0442, step time: 1.0258
Batch 36/248, train_loss: 0.6266, step time: 1.0267
Batch 37/248, train_loss: 0.1853, step time: 1.0282
Batch 38/248, train_loss: 0.3040, step time: 1.0319
Batch 39/248, train_loss: 0.1878, step time: 1.0259
Batch 40/248, train_loss: 0.9943, step time: 1.0254
Batch 41/248, train_loss: 0.2499, step time: 1.0302
Batch 42/248, train_loss: 0.0674, step time: 1.0266
Batch 43/248, train_loss: 0.0603, step time: 1.0262
Batch 44/248, train_loss: 0.4514, step time: 1.0297
Batch 45/248, train_loss: 0.4091, step time: 1.0292
```

Batch 46/248, train_loss: 0.1814, step time: 1.0289
Batch 47/248, train_loss: 0.0838, step time: 1.0291
Batch 48/248, train_loss: 0.2496, step time: 1.0269
Batch 49/248, train_loss: 0.4987, step time: 1.0307
Batch 50/248, train_loss: 0.1412, step time: 1.0259
Batch 51/248, train_loss: 0.1443, step time: 1.0304
Batch 52/248, train_loss: 0.1105, step time: 1.0258
Batch 53/248, train_loss: 0.4722, step time: 1.0292
Batch 54/248, train_loss: 0.2525, step time: 1.0277
Batch 55/248, train_loss: 0.4943, step time: 1.0307
Batch 56/248, train_loss: 0.2221, step time: 1.0283
Batch 57/248, train_loss: 0.2730, step time: 1.0308
Batch 58/248, train_loss: 0.0920, step time: 1.0278
Batch 59/248, train_loss: 0.0830, step time: 1.0279
Batch 60/248, train_loss: 0.0605, step time: 1.0245
Batch 61/248, train_loss: 0.1162, step time: 1.0261
Batch 62/248, train_loss: 0.2641, step time: 1.0315
Batch 63/248, train_loss: 0.7290, step time: 1.0295
Batch 64/248, train_loss: 0.5659, step time: 1.0296
Batch 65/248, train_loss: 0.5298, step time: 1.0278
Batch 66/248, train_loss: 0.1902, step time: 1.0281
Batch 67/248, train_loss: 0.0738, step time: 1.0251
Batch 68/248, train_loss: 0.1879, step time: 1.0262
Batch 69/248, train_loss: 0.6800, step time: 1.0316
Batch 70/248, train_loss: 0.1251, step time: 1.0287
Batch 71/248, train_loss: 0.1355, step time: 1.0306
Batch 72/248, train_loss: 0.0618, step time: 1.0246
Batch 73/248, train_loss: 0.5443, step time: 1.0287
Batch 74/248, train_loss: 0.9950, step time: 1.0239
Batch 75/248, train_loss: 0.1343, step time: 1.0275
Batch 76/248, train_loss: 0.6332, step time: 1.0332
Batch 77/248, train_loss: 0.9715, step time: 1.0288
Batch 78/248, train_loss: 0.1647, step time: 1.0269
Batch 79/248, train_loss: 0.1533, step time: 1.0302
Batch 80/248, train_loss: 0.1956, step time: 1.0301
Batch 81/248, train_loss: 0.3780, step time: 1.0326
Batch 82/248, train_loss: 0.0841, step time: 1.0262
Batch 83/248, train_loss: 0.7144, step time: 1.0374
Batch 84/248, train_loss: 0.2564, step time: 1.0295
Batch 85/248, train_loss: 0.5214, step time: 1.0316
Batch 86/248, train_loss: 0.4116, step time: 1.0281
Batch 87/248, train_loss: 0.5106, step time: 1.0297
Batch 88/248, train_loss: 0.3700, step time: 1.0328
Batch 89/248, train_loss: 0.1043, step time: 1.0266
Batch 90/248, train_loss: 0.2403, step time: 1.0305
Batch 91/248, train_loss: 0.7484, step time: 1.0321
Batch 92/248, train_loss: 0.3323, step time: 1.0285
Batch 93/248, train_loss: 0.1813, step time: 1.0293
Batch 94/248, train_loss: 0.5248, step time: 1.0302
Batch 95/248, train_loss: 0.1784, step time: 1.0266
Batch 96/248, train_loss: 0.2065, step time: 1.0295
Batch 97/248, train_loss: 0.7356, step time: 1.0311
Batch 98/248, train_loss: 0.1414, step time: 1.0276
Batch 99/248, train_loss: 0.3233, step time: 1.0290
Batch 100/248, train_loss: 0.4078, step time: 1.0314
Batch 101/248, train_loss: 0.0534, step time: 1.0223
Batch 102/248, train_loss: 0.1265, step time: 1.0277

Batch 102/248, train_loss: 0.1705, step time: 1.0273
Batch 103/248, train_loss: 0.7010, step time: 1.0287
Batch 104/248, train_loss: 0.4729, step time: 1.0295
Batch 105/248, train_loss: 0.1097, step time: 1.0283
Batch 106/248, train_loss: 0.2710, step time: 1.0343
Batch 107/248, train_loss: 0.5461, step time: 1.0296
Batch 108/248, train_loss: 0.7881, step time: 1.0300
Batch 109/248, train_loss: 0.9191, step time: 1.0281
Batch 110/248, train_loss: 0.3301, step time: 1.0331
Batch 111/248, train_loss: 0.1166, step time: 1.0302
Batch 112/248, train_loss: 0.2279, step time: 1.0300
Batch 113/248, train_loss: 0.9730, step time: 1.0293
Batch 114/248, train_loss: 0.2023, step time: 1.0299
Batch 115/248, train_loss: 0.1940, step time: 1.0284
Batch 116/248, train_loss: 0.0976, step time: 1.0252
Batch 117/248, train_loss: 0.7711, step time: 1.0299
Batch 118/248, train_loss: 0.8270, step time: 1.0263
Batch 119/248, train_loss: 0.4047, step time: 1.0278
Batch 120/248, train_loss: 0.2507, step time: 1.0259
Batch 121/248, train_loss: 0.3381, step time: 1.0267
Batch 122/248, train_loss: 0.4199, step time: 1.0266
Batch 123/248, train_loss: 0.0948, step time: 1.0300
Batch 124/248, train_loss: 0.4811, step time: 1.0301
Batch 125/248, train_loss: 0.8055, step time: 1.0325
Batch 126/248, train_loss: 0.2359, step time: 1.0306
Batch 127/248, train_loss: 0.1110, step time: 1.0304
Batch 128/248, train_loss: 0.4027, step time: 1.0357
Batch 129/248, train_loss: 0.1215, step time: 1.0279
Batch 130/248, train_loss: 0.1210, step time: 1.0272
Batch 131/248, train_loss: 0.6380, step time: 1.0274
Batch 132/248, train_loss: 0.5588, step time: 1.0299
Batch 133/248, train_loss: 0.1908, step time: 1.0279
Batch 134/248, train_loss: 0.9140, step time: 1.0288
Batch 135/248, train_loss: 0.3829, step time: 1.0292
Batch 136/248, train_loss: 0.1088, step time: 1.0273
Batch 137/248, train_loss: 0.1442, step time: 1.0308
Batch 138/248, train_loss: 0.0671, step time: 1.0234
Batch 139/248, train_loss: 0.2257, step time: 1.0275
Batch 140/248, train_loss: 0.1717, step time: 1.0267
Batch 141/248, train_loss: 0.3336, step time: 1.0285
Batch 142/248, train_loss: 0.6695, step time: 1.0327
Batch 143/248, train_loss: 0.3733, step time: 1.0310
Batch 144/248, train_loss: 0.1246, step time: 1.0262
Batch 145/248, train_loss: 0.0719, step time: 1.0299
Batch 146/248, train_loss: 0.9848, step time: 1.0320
Batch 147/248, train_loss: 0.0415, step time: 1.0276
Batch 148/248, train_loss: 0.8707, step time: 1.0289
Batch 149/248, train_loss: 0.1198, step time: 1.0334
Batch 150/248, train_loss: 0.6804, step time: 1.0289
Batch 151/248, train_loss: 0.5559, step time: 1.0292
Batch 152/248, train_loss: 0.0399, step time: 1.0236
Batch 153/248, train_loss: 0.3227, step time: 1.0288
Batch 154/248, train_loss: 0.8217, step time: 1.0321
Batch 155/248, train_loss: 0.1725, step time: 1.0316
Batch 156/248, train_loss: 0.3102, step time: 1.0289
Batch 157/248, train_loss: 0.3213, step time: 1.0312
Batch 158/248, train_loss: 0.9894, step time: 1.0263

Batch 159/248, train_loss: 0.6509, step time: 1.0329
Batch 160/248, train_loss: 0.0861, step time: 1.0274
Batch 161/248, train_loss: 0.0850, step time: 1.0268
Batch 162/248, train_loss: 0.1091, step time: 1.0289
Batch 163/248, train_loss: 0.1505, step time: 1.0277
Batch 164/248, train_loss: 0.2390, step time: 1.0275
Batch 165/248, train_loss: 0.9737, step time: 1.0279
Batch 166/248, train_loss: 0.1083, step time: 1.0293
Batch 167/248, train_loss: 0.1959, step time: 1.0247
Batch 168/248, train_loss: 0.1758, step time: 1.0279
Batch 169/248, train_loss: 0.0821, step time: 1.0255
Batch 170/248, train_loss: 0.8435, step time: 1.0290
Batch 171/248, train_loss: 0.0974, step time: 1.0253
Batch 172/248, train_loss: 0.9763, step time: 1.0260
Batch 173/248, train_loss: 0.1134, step time: 1.0308
Batch 174/248, train_loss: 0.6983, step time: 1.0319
Batch 175/248, train_loss: 0.1785, step time: 1.0280
Batch 176/248, train_loss: 0.4039, step time: 1.0316
Batch 177/248, train_loss: 0.4202, step time: 1.0320
Batch 178/248, train_loss: 0.2952, step time: 1.0312
Batch 179/248, train_loss: 0.0975, step time: 1.0288
Batch 180/248, train_loss: 0.3466, step time: 1.0290
Batch 181/248, train_loss: 0.1240, step time: 1.0254
Batch 182/248, train_loss: 0.9830, step time: 1.0269
Batch 183/248, train_loss: 0.1589, step time: 1.0295
Batch 184/248, train_loss: 0.4546, step time: 1.0283
Batch 185/248, train_loss: 0.1220, step time: 1.0258
Batch 186/248, train_loss: 0.1234, step time: 1.0261
Batch 187/248, train_loss: 0.2275, step time: 1.0296
Batch 188/248, train_loss: 0.2456, step time: 1.0297
Batch 189/248, train_loss: 0.8149, step time: 1.0287
Batch 190/248, train_loss: 0.1512, step time: 1.0258
Batch 191/248, train_loss: 0.6676, step time: 1.0288
Batch 192/248, train_loss: 0.2753, step time: 1.0297
Batch 193/248, train_loss: 0.3290, step time: 1.0293
Batch 194/248, train_loss: 0.0878, step time: 1.0291
Batch 195/248, train_loss: 0.8246, step time: 1.0322
Batch 196/248, train_loss: 0.9985, step time: 1.0246
Batch 197/248, train_loss: 0.1978, step time: 1.0300
Batch 198/248, train_loss: 0.9858, step time: 1.0275
Batch 199/248, train_loss: 0.1683, step time: 1.0322
Batch 200/248, train_loss: 0.1313, step time: 1.0271
Batch 201/248, train_loss: 0.1341, step time: 1.0290
Batch 202/248, train_loss: 0.3425, step time: 1.0298
Batch 203/248, train_loss: 0.6932, step time: 1.0269
Batch 204/248, train_loss: 0.0881, step time: 1.0281
Batch 205/248, train_loss: 0.2716, step time: 1.0283
Batch 206/248, train_loss: 0.6238, step time: 1.0305
Batch 207/248, train_loss: 0.1006, step time: 1.0264
Batch 208/248, train_loss: 0.2435, step time: 1.0270
Batch 209/248, train_loss: 0.1879, step time: 1.0265
Batch 210/248, train_loss: 0.0604, step time: 1.0263
Batch 211/248, train_loss: 0.0638, step time: 1.0254
Batch 212/248, train_loss: 0.2780, step time: 1.0277
Batch 213/248, train_loss: 0.1625, step time: 1.0284
Batch 214/248, train_loss: 0.0726, step time: 1.0273
Batch 215/248, train_loss: 0.2182, step time: 1.0200

Batch 215/248, train_loss: 0.2102, step time: 1.0290
Batch 216/248, train_loss: 0.1531, step time: 1.0279
Batch 217/248, train_loss: 0.2944, step time: 1.0288
Batch 218/248, train_loss: 0.8271, step time: 1.0328
Batch 219/248, train_loss: 0.0719, step time: 1.0300
Batch 220/248, train_loss: 0.2269, step time: 1.0316
Batch 221/248, train_loss: 0.3337, step time: 1.0304
Batch 222/248, train_loss: 0.1882, step time: 1.0285
Batch 223/248, train_loss: 0.0436, step time: 1.0241
Batch 224/248, train_loss: 0.0766, step time: 1.0230
Batch 225/248, train_loss: 0.3720, step time: 1.0299
Batch 226/248, train_loss: 0.2377, step time: 1.0294
Batch 227/248, train_loss: 0.0998, step time: 1.0251
Batch 228/248, train_loss: 0.1628, step time: 1.0253
Batch 229/248, train_loss: 0.1214, step time: 1.0279
Batch 230/248, train_loss: 0.0731, step time: 1.0253
Batch 231/248, train_loss: 0.8238, step time: 1.0273
Batch 232/248, train_loss: 0.0811, step time: 1.0258
Batch 233/248, train_loss: 0.9821, step time: 1.0273
Batch 234/248, train_loss: 0.5879, step time: 1.0299
Batch 235/248, train_loss: 0.5578, step time: 1.0316
Batch 236/248, train_loss: 0.8721, step time: 1.0313
Batch 237/248, train_loss: 0.1141, step time: 1.0271
Batch 238/248, train_loss: 0.1110, step time: 1.0297
Batch 239/248, train_loss: 0.0916, step time: 1.0290
Batch 240/248, train_loss: 0.3046, step time: 1.0308
Batch 241/248, train_loss: 0.7874, step time: 1.0336
Batch 242/248, train_loss: 0.2223, step time: 1.0274
Batch 243/248, train_loss: 0.7039, step time: 1.0288
Batch 244/248, train_loss: 0.6210, step time: 1.0314
Batch 245/248, train_loss: 0.0677, step time: 1.0230
Batch 246/248, train_loss: 0.6265, step time: 1.0290
Batch 247/248, train_loss: 0.0907, step time: 1.0227
Batch 248/248, train_loss: 0.9998, step time: 1.0204

Labels

TC



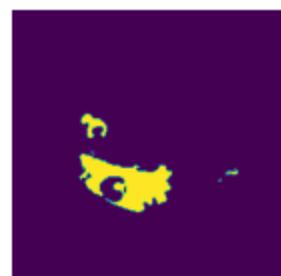
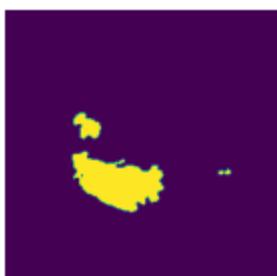
WT



ET



Predictions

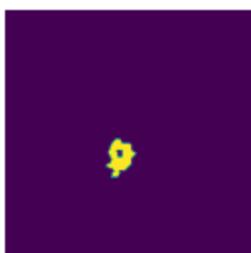


VAL

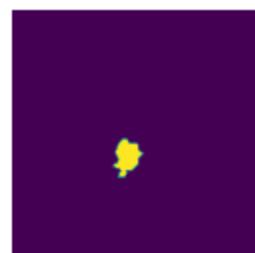
```
Batch 1/31, val_loss: 0.9627
Batch 2/31, val_loss: 0.9918
Batch 3/31, val_loss: 0.9647
Batch 4/31, val_loss: 0.9436
Batch 5/31, val_loss: 0.9921
Batch 6/31, val_loss: 0.7127
Batch 7/31, val_loss: 0.8381
Batch 8/31, val_loss: 0.9511
Batch 9/31, val_loss: 0.6961
Batch 10/31, val_loss: 0.9109
Batch 11/31, val_loss: 0.8273
Batch 12/31, val_loss: 0.9774
Batch 13/31, val_loss: 0.9862
Batch 14/31, val_loss: 0.9366
Batch 15/31, val_loss: 0.9900
Batch 16/31, val_loss: 0.9754
Batch 17/31, val_loss: 0.9733
Batch 18/31, val_loss: 0.9381
Batch 19/31, val_loss: 0.7524
Batch 20/31, val_loss: 0.8778
Batch 21/31, val_loss: 0.8677
Batch 22/31, val_loss: 0.9818
Batch 23/31, val_loss: 0.9777
Batch 24/31, val_loss: 0.7452
Batch 25/31, val_loss: 0.8027
Batch 26/31, val_loss: 0.9189
Batch 27/31, val_loss: 0.9752
Batch 28/31, val_loss: 0.7505
Batch 29/31, val_loss: 0.9883
Batch 30/31, val_loss: 0.9644
Batch 31/31, val_loss: 0.9816
```

Labels

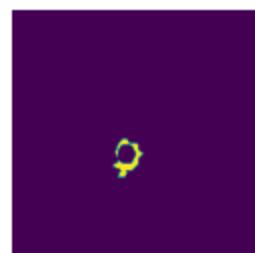
TC



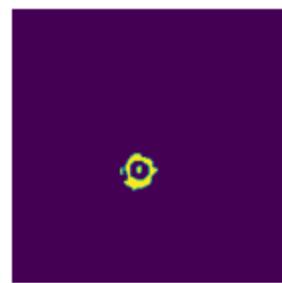
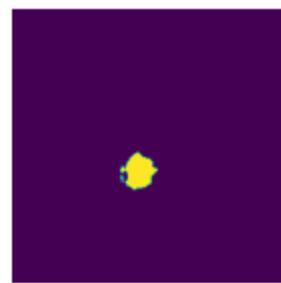
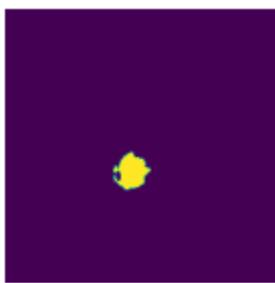
WT



ET



Predictions



epoch 34

```
average train loss: 0.3524
average validation loss: 0.9081
saved as best model: True
current mean dice: 0.4622
current TC dice: 0.4863
current WT dice: 0.4895
current ET dice: 0.4515
Best Mean Metric: 0.4622
time consuming of epoch 34 is: 1562.6026
-----
epoch 35/100
TRAIN
Batch 1/248, train_loss: 0.1088, step time: 1.0272
Batch 2/248, train_loss: 0.8398, step time: 1.0321
Batch 3/248, train_loss: 0.3560, step time: 1.0285
Batch 4/248, train_loss: 0.9752, step time: 1.0256
Batch 5/248, train_loss: 0.2383, step time: 1.0302
Batch 6/248, train_loss: 0.7098, step time: 1.0302
Batch 7/248, train_loss: 0.0758, step time: 1.0243
Batch 8/248, train_loss: 0.7067, step time: 1.0255
Batch 9/248, train_loss: 0.0489, step time: 1.0278
Batch 10/248, train_loss: 0.2577, step time: 1.0299
Batch 11/248, train_loss: 0.2208, step time: 1.0311
Batch 12/248, train_loss: 0.6596, step time: 1.0324
Batch 13/248, train_loss: 0.3675, step time: 1.0285
Batch 14/248, train_loss: 0.0536, step time: 1.0256
Batch 15/248, train_loss: 0.3496, step time: 1.0272
Batch 16/248, train_loss: 0.1383, step time: 1.0264
Batch 17/248, train_loss: 0.4079, step time: 1.0282
Batch 18/248, train_loss: 0.5777, step time: 1.0276
Batch 19/248, train_loss: 0.1052, step time: 1.0263
Batch 20/248, train_loss: 0.1895, step time: 1.0267
Batch 21/248, train_loss: 0.0606, step time: 1.0259
Batch 22/248, train_loss: 0.9811, step time: 1.0283
Batch 23/248, train_loss: 0.9953, step time: 1.0261
Batch 24/248, train_loss: 0.0845, step time: 1.0260
Batch 25/248, train_loss: 0.0810, step time: 1.0291
Batch 26/248, train_loss: 0.6476, step time: 1.0316
Batch 27/248, train_loss: 0.0730, step time: 1.0293
Batch 28/248, train_loss: 0.1474, step time: 1.0322
Batch 29/248, train_loss: 0.5184, step time: 1.0345
Batch 30/248, train_loss: 0.2574, step time: 1.0287
Batch 31/248, train_loss: 0.3033, step time: 1.0294
Batch 32/248, train_loss: 0.0838, step time: 1.0260
Batch 33/248, train_loss: 0.0927, step time: 1.0258
Batch 34/248, train_loss: 0.0438, step time: 1.0243
Batch 35/248, train_loss: 0.0422, step time: 1.0253
Batch 36/248, train_loss: 0.5856, step time: 1.0272
Batch 37/248, train_loss: 0.1593, step time: 1.0260
Batch 38/248, train_loss: 0.3071, step time: 1.0245
Batch 39/248, train_loss: 0.1922, step time: 1.0276
Batch 40/248, train_loss: 0.9911, step time: 1.0254
Batch 41/248, train_loss: 0.3050, step time: 1.0270
Batch 42/248, train_loss: 0.0712, step time: 1.0262
Batch 43/248, train_loss: 0.0559, step time: 1.0262
Batch 44/248, train_loss: 0.1668, step time: 1.0293
Batch 45/248, train_loss: 0.4226, step time: 1.0313
```

```
--, --, --, --, --, --, --, --  
Batch 46/248, train_loss: 0.1739, step time: 1.0318  
Batch 47/248, train_loss: 0.0756, step time: 1.0309  
Batch 48/248, train_loss: 0.2583, step time: 1.0307  
Batch 49/248, train_loss: 0.5165, step time: 1.0286  
Batch 50/248, train_loss: 0.1354, step time: 1.0278  
Batch 51/248, train_loss: 0.1338, step time: 1.0299  
Batch 52/248, train_loss: 0.1039, step time: 1.0297  
Batch 53/248, train_loss: 0.4207, step time: 1.0306  
Batch 54/248, train_loss: 0.2462, step time: 1.0258  
Batch 55/248, train_loss: 0.2673, step time: 1.0277  
Batch 56/248, train_loss: 0.2139, step time: 1.0280  
Batch 57/248, train_loss: 0.2955, step time: 1.0291  
Batch 58/248, train_loss: 0.0877, step time: 1.0267  
Batch 59/248, train_loss: 0.0885, step time: 1.0271  
Batch 60/248, train_loss: 0.0606, step time: 1.0265  
Batch 61/248, train_loss: 0.1107, step time: 1.0282  
Batch 62/248, train_loss: 0.2368, step time: 1.0271  
Batch 63/248, train_loss: 0.7146, step time: 1.0302  
Batch 64/248, train_loss: 0.4931, step time: 1.0277  
Batch 65/248, train_loss: 0.3974, step time: 1.0274  
Batch 66/248, train_loss: 0.1641, step time: 1.0269  
Batch 67/248, train_loss: 0.0696, step time: 1.0250  
Batch 68/248, train_loss: 0.1339, step time: 1.0277  
Batch 69/248, train_loss: 0.6920, step time: 1.0327  
Batch 70/248, train_loss: 0.1334, step time: 1.0311  
Batch 71/248, train_loss: 0.1469, step time: 1.0342  
Batch 72/248, train_loss: 0.0654, step time: 1.0268  
Batch 73/248, train_loss: 0.3634, step time: 1.0329  
Batch 74/248, train_loss: 0.9974, step time: 1.0257  
Batch 75/248, train_loss: 0.1252, step time: 1.0296  
Batch 76/248, train_loss: 0.6097, step time: 1.0303  
Batch 77/248, train_loss: 0.9673, step time: 1.0228  
Batch 78/248, train_loss: 0.1662, step time: 1.0262  
Batch 79/248, train_loss: 0.1537, step time: 1.0296  
Batch 80/248, train_loss: 0.1875, step time: 1.0253  
Batch 81/248, train_loss: 0.2306, step time: 1.0288  
Batch 82/248, train_loss: 0.0912, step time: 1.0301  
Batch 83/248, train_loss: 0.8096, step time: 1.0293  
Batch 84/248, train_loss: 0.2804, step time: 1.0358  
Batch 85/248, train_loss: 0.7087, step time: 1.0318  
Batch 86/248, train_loss: 0.3919, step time: 1.0263  
Batch 87/248, train_loss: 0.5196, step time: 1.0284  
Batch 88/248, train_loss: 0.4119, step time: 1.0303  
Batch 89/248, train_loss: 0.1058, step time: 1.0299  
Batch 90/248, train_loss: 0.3599, step time: 1.0305  
Batch 91/248, train_loss: 0.6463, step time: 1.0286  
Batch 92/248, train_loss: 0.4985, step time: 1.0276  
Batch 93/248, train_loss: 0.1711, step time: 1.0262  
Batch 94/248, train_loss: 0.4027, step time: 1.0315  
Batch 95/248, train_loss: 0.1815, step time: 1.0299  
Batch 96/248, train_loss: 0.3033, step time: 1.0281  
Batch 97/248, train_loss: 0.7021, step time: 1.0300  
Batch 98/248, train_loss: 0.1496, step time: 1.0267  
Batch 99/248, train_loss: 0.3342, step time: 1.0323  
Batch 100/248, train_loss: 0.4226, step time: 1.0303  
Batch 101/248, train_loss: 0.0530, step time: 1.0263
```

Batch 102/248, train_loss: 0.1186, step time: 1.0276
Batch 103/248, train_loss: 0.7029, step time: 1.0325
Batch 104/248, train_loss: 0.3652, step time: 1.0276
Batch 105/248, train_loss: 0.0985, step time: 1.0280
Batch 106/248, train_loss: 0.1664, step time: 1.0273
Batch 107/248, train_loss: 0.4409, step time: 1.0314
Batch 108/248, train_loss: 0.5210, step time: 1.0313
Batch 109/248, train_loss: 0.9750, step time: 1.0273
Batch 110/248, train_loss: 0.3901, step time: 1.0302
Batch 111/248, train_loss: 0.1204, step time: 1.0267
Batch 112/248, train_loss: 0.2199, step time: 1.0271
Batch 113/248, train_loss: 0.9697, step time: 1.0286
Batch 114/248, train_loss: 0.1404, step time: 1.0275
Batch 115/248, train_loss: 0.2181, step time: 1.0264
Batch 116/248, train_loss: 0.0990, step time: 1.0252
Batch 117/248, train_loss: 0.7768, step time: 1.0339
Batch 118/248, train_loss: 0.8566, step time: 1.0317
Batch 119/248, train_loss: 0.3591, step time: 1.0286
Batch 120/248, train_loss: 0.2514, step time: 1.0296
Batch 121/248, train_loss: 0.3376, step time: 1.0317
Batch 122/248, train_loss: 0.4332, step time: 1.0333
Batch 123/248, train_loss: 0.1235, step time: 1.0318
Batch 124/248, train_loss: 0.3505, step time: 1.0350
Batch 125/248, train_loss: 0.8710, step time: 1.0291
Batch 126/248, train_loss: 0.1985, step time: 1.0319
Batch 127/248, train_loss: 0.1358, step time: 1.0304
Batch 128/248, train_loss: 0.3751, step time: 1.0327
Batch 129/248, train_loss: 0.1216, step time: 1.0310
Batch 130/248, train_loss: 0.1061, step time: 1.0286
Batch 131/248, train_loss: 0.6113, step time: 1.0305
Batch 132/248, train_loss: 0.6894, step time: 1.0315
Batch 133/248, train_loss: 0.1701, step time: 1.0295
Batch 134/248, train_loss: 0.8946, step time: 1.0320
Batch 135/248, train_loss: 0.3136, step time: 1.0350
Batch 136/248, train_loss: 0.0978, step time: 1.0294
Batch 137/248, train_loss: 0.1353, step time: 1.0252
Batch 138/248, train_loss: 0.0701, step time: 1.0278
Batch 139/248, train_loss: 0.2449, step time: 1.0304
Batch 140/248, train_loss: 0.1679, step time: 1.0319
Batch 141/248, train_loss: 0.3382, step time: 1.0293
Batch 142/248, train_loss: 0.7358, step time: 1.0320
Batch 143/248, train_loss: 0.2714, step time: 1.0290
Batch 144/248, train_loss: 0.1208, step time: 1.0305
Batch 145/248, train_loss: 0.0920, step time: 1.0280
Batch 146/248, train_loss: 0.9867, step time: 1.0265
Batch 147/248, train_loss: 0.0438, step time: 1.0275
Batch 148/248, train_loss: 0.8579, step time: 1.0306
Batch 149/248, train_loss: 0.1193, step time: 1.0295
Batch 150/248, train_loss: 0.6939, step time: 1.0359
Batch 151/248, train_loss: 0.8602, step time: 1.0310
Batch 152/248, train_loss: 0.0406, step time: 1.0349
Batch 153/248, train_loss: 0.4895, step time: 1.0313
Batch 154/248, train_loss: 0.7392, step time: 1.0295
Batch 155/248, train_loss: 0.1584, step time: 1.0296
Batch 156/248, train_loss: 0.2425, step time: 1.0309
Batch 157/248, train_loss: 0.2982, step time: 1.0307
Batch 158/248, train_loss: 0.9947, step time: 1.0277

Batch 159/248, train_loss: 0.6193, step time: 1.0334
Batch 160/248, train_loss: 0.1007, step time: 1.0303
Batch 161/248, train_loss: 0.1112, step time: 1.0327
Batch 162/248, train_loss: 0.0760, step time: 1.0316
Batch 163/248, train_loss: 0.2160, step time: 1.0358
Batch 164/248, train_loss: 0.1967, step time: 1.0312
Batch 165/248, train_loss: 0.9845, step time: 1.0307
Batch 166/248, train_loss: 0.0927, step time: 1.0352
Batch 167/248, train_loss: 0.2112, step time: 1.0307
Batch 168/248, train_loss: 0.1744, step time: 1.0312
Batch 169/248, train_loss: 0.0967, step time: 1.0293
Batch 170/248, train_loss: 0.8187, step time: 1.0298
Batch 171/248, train_loss: 0.0991, step time: 1.0254
Batch 172/248, train_loss: 0.9132, step time: 1.0315
Batch 173/248, train_loss: 0.1044, step time: 1.0289
Batch 174/248, train_loss: 0.7254, step time: 1.0307
Batch 175/248, train_loss: 0.1583, step time: 1.0312
Batch 176/248, train_loss: 0.3800, step time: 1.0327
Batch 177/248, train_loss: 0.3882, step time: 1.0339
Batch 178/248, train_loss: 0.2701, step time: 1.0291
Batch 179/248, train_loss: 0.0960, step time: 1.0271
Batch 180/248, train_loss: 0.3671, step time: 1.0274
Batch 181/248, train_loss: 0.1335, step time: 1.0304
Batch 182/248, train_loss: 0.9282, step time: 1.0273
Batch 183/248, train_loss: 0.2371, step time: 1.0324
Batch 184/248, train_loss: 0.4328, step time: 1.0313
Batch 185/248, train_loss: 0.0982, step time: 1.0270
Batch 186/248, train_loss: 0.1105, step time: 1.0267
Batch 187/248, train_loss: 0.1890, step time: 1.0274
Batch 188/248, train_loss: 0.2780, step time: 1.0287
Batch 189/248, train_loss: 0.6616, step time: 1.0312
Batch 190/248, train_loss: 0.1479, step time: 1.0333
Batch 191/248, train_loss: 0.6440, step time: 1.0336
Batch 192/248, train_loss: 0.2773, step time: 1.0307
Batch 193/248, train_loss: 0.3056, step time: 1.0312
Batch 194/248, train_loss: 0.0898, step time: 1.0303
Batch 195/248, train_loss: 0.7908, step time: 1.0308
Batch 196/248, train_loss: 0.9993, step time: 1.0228
Batch 197/248, train_loss: 0.1870, step time: 1.0295
Batch 198/248, train_loss: 0.9917, step time: 1.0297
Batch 199/248, train_loss: 0.1743, step time: 1.0274
Batch 200/248, train_loss: 0.1308, step time: 1.0281
Batch 201/248, train_loss: 0.1348, step time: 1.0291
Batch 202/248, train_loss: 0.3565, step time: 1.0328
Batch 203/248, train_loss: 0.7174, step time: 1.0315
Batch 204/248, train_loss: 0.0858, step time: 1.0287
Batch 205/248, train_loss: 0.2890, step time: 1.0321
Batch 206/248, train_loss: 0.5285, step time: 1.0310
Batch 207/248, train_loss: 0.0921, step time: 1.0276
Batch 208/248, train_loss: 0.2207, step time: 1.0305
Batch 209/248, train_loss: 0.2011, step time: 1.0285
Batch 210/248, train_loss: 0.0609, step time: 1.0274
Batch 211/248, train_loss: 0.0626, step time: 1.0288
Batch 212/248, train_loss: 0.3092, step time: 1.0284
Batch 213/248, train_loss: 0.1568, step time: 1.0319
Batch 214/248, train_loss: 0.0725, step time: 1.0300

```
Batch 215/248, train_loss: 0.2318, step time: 1.0323
Batch 216/248, train_loss: 0.1867, step time: 1.0317
Batch 217/248, train_loss: 0.2818, step time: 1.0292
Batch 218/248, train_loss: 0.8957, step time: 1.0319
Batch 219/248, train_loss: 0.0727, step time: 1.0342
Batch 220/248, train_loss: 0.2206, step time: 1.0292
Batch 221/248, train_loss: 0.3087, step time: 1.0312
Batch 222/248, train_loss: 0.2147, step time: 1.0288
Batch 223/248, train_loss: 0.0427, step time: 1.0250
Batch 224/248, train_loss: 0.0802, step time: 1.0249
Batch 225/248, train_loss: 0.2918, step time: 1.0293
Batch 226/248, train_loss: 0.2174, step time: 1.0320
Batch 227/248, train_loss: 0.0869, step time: 1.0255
Batch 228/248, train_loss: 0.3094, step time: 1.0323
Batch 229/248, train_loss: 0.1122, step time: 1.0280
Batch 230/248, train_loss: 0.0719, step time: 1.0279
Batch 231/248, train_loss: 0.6173, step time: 1.0321
Batch 232/248, train_loss: 0.0763, step time: 1.0290
Batch 233/248, train_loss: 0.9835, step time: 1.0299
Batch 234/248, train_loss: 0.5416, step time: 1.0364
Batch 235/248, train_loss: 0.5998, step time: 1.0317
Batch 236/248, train_loss: 0.9005, step time: 1.0274
Batch 237/248, train_loss: 0.1134, step time: 1.0291
Batch 238/248, train_loss: 0.1092, step time: 1.0294
Batch 239/248, train_loss: 0.1210, step time: 1.0290
Batch 240/248, train_loss: 0.4033, step time: 1.0312
Batch 241/248, train_loss: 0.8482, step time: 1.0321
Batch 242/248, train_loss: 0.1797, step time: 1.0279
Batch 243/248, train_loss: 0.7002, step time: 1.0308
Batch 244/248, train_loss: 0.6666, step time: 1.0285
Batch 245/248, train_loss: 0.0782, step time: 1.0292
Batch 246/248, train_loss: 0.6214, step time: 1.0323
Batch 247/248, train_loss: 0.0885, step time: 1.0277
Batch 248/248, train_loss: 0.9999, step time: 1.0189
```

Labels

TC



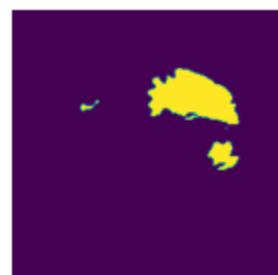
WT



ET



Predictions

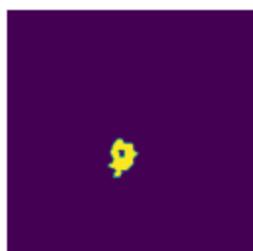


VAL

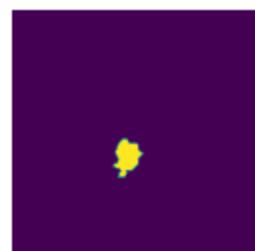
Batch 1/31, val_loss: 0.9364
Batch 2/31, val_loss: 0.9914
Batch 3/31, val_loss: 0.9648
Batch 4/31, val_loss: 0.9435
Batch 5/31, val_loss: 0.9923
Batch 6/31, val_loss: 0.7138
Batch 7/31, val_loss: 0.8363
Batch 8/31, val_loss: 0.9500
Batch 9/31, val_loss: 0.7031
Batch 10/31, val_loss: 0.9138
Batch 11/31, val_loss: 0.8272
Batch 12/31, val_loss: 0.9752
Batch 13/31, val_loss: 0.9855
Batch 14/31, val_loss: 0.9351
Batch 15/31, val_loss: 0.9902
Batch 16/31, val_loss: 0.9766
Batch 17/31, val_loss: 0.9728
Batch 18/31, val_loss: 0.9344
Batch 19/31, val_loss: 0.7462
Batch 20/31, val_loss: 0.8747
Batch 21/31, val_loss: 0.8682
Batch 22/31, val_loss: 0.9807
Batch 23/31, val_loss: 0.9808
Batch 24/31, val_loss: 0.7480
Batch 25/31, val_loss: 0.8033
Batch 26/31, val_loss: 0.9202
Batch 27/31, val_loss: 0.9747
Batch 28/31, val_loss: 0.7485
Batch 29/31, val_loss: 0.9903
Batch 30/31, val_loss: 0.9647
Batch 31/31, val_loss: 0.9838

Labels

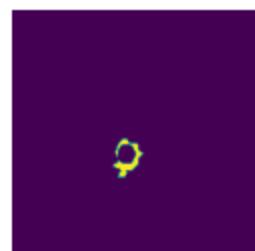
TC



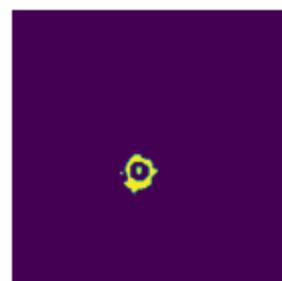
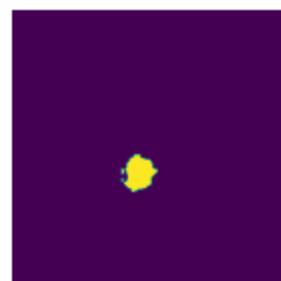
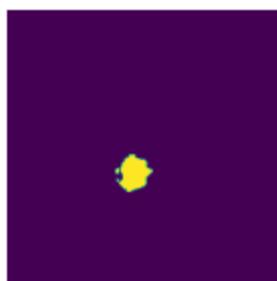
WT



ET



Predictions



epoch 35

```
average train loss: 0.3457
average validation loss: 0.9073
saved as best model: False
current mean dice: 0.4537
current TC dice: 0.4720
current WT dice: 0.4788
current ET dice: 0.4511
Best Mean Metric: 0.4622
time consuming of epoch 35 is: 1560.3318
-----
epoch 36/100
TRAIN
    Batch 1/248, train_loss: 0.1171, step time: 1.0311
    Batch 2/248, train_loss: 0.8499, step time: 1.0322
    Batch 3/248, train_loss: 0.3747, step time: 1.0328
    Batch 4/248, train_loss: 0.9610, step time: 1.0304
    Batch 5/248, train_loss: 0.2393, step time: 1.0326
    Batch 6/248, train_loss: 0.6643, step time: 1.0289
    Batch 7/248, train_loss: 0.1094, step time: 1.0281
    Batch 8/248, train_loss: 0.7056, step time: 1.0276
    Batch 9/248, train_loss: 0.0454, step time: 1.0271
    Batch 10/248, train_loss: 0.2479, step time: 1.0309
    Batch 11/248, train_loss: 0.2010, step time: 1.0302
    Batch 12/248, train_loss: 0.7053, step time: 1.0316
    Batch 13/248, train_loss: 0.3863, step time: 1.0329
    Batch 14/248, train_loss: 0.0653, step time: 1.0288
    Batch 15/248, train_loss: 0.3153, step time: 1.0291
    Batch 16/248, train_loss: 0.1452, step time: 1.0284
    Batch 17/248, train_loss: 0.4186, step time: 1.0291
    Batch 18/248, train_loss: 0.4954, step time: 1.0324
    Batch 19/248, train_loss: 0.1340, step time: 1.0273
    Batch 20/248, train_loss: 0.1374, step time: 1.0306
    Batch 21/248, train_loss: 0.0639, step time: 1.0271
    Batch 22/248, train_loss: 0.9838, step time: 1.0285
    Batch 23/248, train_loss: 0.9961, step time: 1.0253
    Batch 24/248, train_loss: 0.0851, step time: 1.0252
    Batch 25/248, train_loss: 0.0701, step time: 1.0300
    Batch 26/248, train_loss: 0.6138, step time: 1.0329
    Batch 27/248, train_loss: 0.0706, step time: 1.0268
    Batch 28/248, train_loss: 0.1545, step time: 1.0292
    Batch 29/248, train_loss: 0.4929, step time: 1.0316
    Batch 30/248, train_loss: 0.6528, step time: 1.0315
    Batch 31/248, train_loss: 0.2874, step time: 1.0285
    Batch 32/248, train_loss: 0.0898, step time: 1.0265
    Batch 33/248, train_loss: 0.0719, step time: 1.0293
    Batch 34/248, train_loss: 0.0453, step time: 1.0273
    Batch 35/248, train_loss: 0.0403, step time: 1.0232
    Batch 36/248, train_loss: 0.5892, step time: 1.0302
    Batch 37/248, train_loss: 0.1813, step time: 1.0262
    Batch 38/248, train_loss: 0.2958, step time: 1.0282
    Batch 39/248, train_loss: 0.1948, step time: 1.0293
    Batch 40/248, train_loss: 0.9909, step time: 1.0270
    Batch 41/248, train_loss: 0.2661, step time: 1.0309
    Batch 42/248, train_loss: 0.0705, step time: 1.0299
    Batch 43/248, train_loss: 0.0494, step time: 1.0287
    Batch 44/248, train_loss: 0.3266, step time: 1.0292
    Batch 45/248, train_loss: 0.5640, step time: 1.0220
```

Batch 45/248, train_loss: 0.5046, step time: 1.0270
Batch 46/248, train_loss: 0.1681, step time: 1.0288
Batch 47/248, train_loss: 0.0698, step time: 1.0314
Batch 48/248, train_loss: 0.3075, step time: 1.0308
Batch 49/248, train_loss: 0.4585, step time: 1.0297
Batch 50/248, train_loss: 0.1378, step time: 1.0290
Batch 51/248, train_loss: 0.1503, step time: 1.0295
Batch 52/248, train_loss: 0.1025, step time: 1.0266
Batch 53/248, train_loss: 0.4015, step time: 1.0291
Batch 54/248, train_loss: 0.2374, step time: 1.0296
Batch 55/248, train_loss: 0.3236, step time: 1.0316
Batch 56/248, train_loss: 0.2358, step time: 1.0313
Batch 57/248, train_loss: 0.3025, step time: 1.0336
Batch 58/248, train_loss: 0.0890, step time: 1.0325
Batch 59/248, train_loss: 0.0912, step time: 1.0287
Batch 60/248, train_loss: 0.0653, step time: 1.0262
Batch 61/248, train_loss: 0.1156, step time: 1.0301
Batch 62/248, train_loss: 0.2681, step time: 1.0300
Batch 63/248, train_loss: 0.7538, step time: 1.0280
Batch 64/248, train_loss: 0.5301, step time: 1.0285
Batch 65/248, train_loss: 0.3151, step time: 1.0307
Batch 66/248, train_loss: 0.1841, step time: 1.0308
Batch 67/248, train_loss: 0.0738, step time: 1.0262
Batch 68/248, train_loss: 0.1498, step time: 1.0297
Batch 69/248, train_loss: 0.5701, step time: 1.0356
Batch 70/248, train_loss: 0.1386, step time: 1.0275
Batch 71/248, train_loss: 0.1778, step time: 1.0295
Batch 72/248, train_loss: 0.0617, step time: 1.0284
Batch 73/248, train_loss: 0.2622, step time: 1.0298
Batch 74/248, train_loss: 0.9969, step time: 1.0221
Batch 75/248, train_loss: 0.1266, step time: 1.0266
Batch 76/248, train_loss: 0.6326, step time: 1.0303
Batch 77/248, train_loss: 0.9391, step time: 1.0269
Batch 78/248, train_loss: 0.1291, step time: 1.0265
Batch 79/248, train_loss: 0.1788, step time: 1.0294
Batch 80/248, train_loss: 0.2037, step time: 1.0307
Batch 81/248, train_loss: 0.1974, step time: 1.0316
Batch 82/248, train_loss: 0.0849, step time: 1.0259
Batch 83/248, train_loss: 0.6625, step time: 1.0313
Batch 84/248, train_loss: 0.2683, step time: 1.0337
Batch 85/248, train_loss: 0.4363, step time: 1.0323
Batch 86/248, train_loss: 0.3701, step time: 1.0318
Batch 87/248, train_loss: 0.5200, step time: 1.0347
Batch 88/248, train_loss: 0.3595, step time: 1.0316
Batch 89/248, train_loss: 0.1003, step time: 1.0282
Batch 90/248, train_loss: 0.3176, step time: 1.0314
Batch 91/248, train_loss: 0.6188, step time: 1.0312
Batch 92/248, train_loss: 0.3706, step time: 1.0272
Batch 93/248, train_loss: 0.1592, step time: 1.0271
Batch 94/248, train_loss: 0.4627, step time: 1.0291
Batch 95/248, train_loss: 0.1706, step time: 1.0283
Batch 96/248, train_loss: 0.1838, step time: 1.0266
Batch 97/248, train_loss: 0.7315, step time: 1.0336
Batch 98/248, train_loss: 0.1334, step time: 1.0294
Batch 99/248, train_loss: 0.3950, step time: 1.0299
Batch 100/248, train_loss: 0.3727, step time: 1.0308
Batch 101/248, train_loss: 0.0569, step time: 1.0278

Batch 102/248, train_loss: 0.1159, step time: 1.0295
Batch 103/248, train_loss: 0.5133, step time: 1.0339
Batch 104/248, train_loss: 0.4006, step time: 1.0306
Batch 105/248, train_loss: 0.0882, step time: 1.0306
Batch 106/248, train_loss: 0.3491, step time: 1.0322
Batch 107/248, train_loss: 0.3756, step time: 1.0351
Batch 108/248, train_loss: 0.5709, step time: 1.0320
Batch 109/248, train_loss: 0.9713, step time: 1.0290
Batch 110/248, train_loss: 0.3066, step time: 1.0304
Batch 111/248, train_loss: 0.1392, step time: 1.0303
Batch 112/248, train_loss: 0.1588, step time: 1.0277
Batch 113/248, train_loss: 0.9339, step time: 1.0311
Batch 114/248, train_loss: 0.1584, step time: 1.0261
Batch 115/248, train_loss: 0.1751, step time: 1.0278
Batch 116/248, train_loss: 0.0926, step time: 1.0269
Batch 117/248, train_loss: 0.7941, step time: 1.0330
Batch 118/248, train_loss: 0.7662, step time: 1.0316
Batch 119/248, train_loss: 0.3872, step time: 1.0298
Batch 120/248, train_loss: 0.2415, step time: 1.0285
Batch 121/248, train_loss: 0.3309, step time: 1.0279
Batch 122/248, train_loss: 0.4336, step time: 1.0300
Batch 123/248, train_loss: 0.0870, step time: 1.0280
Batch 124/248, train_loss: 0.3450, step time: 1.0316
Batch 125/248, train_loss: 0.7287, step time: 1.0326
Batch 126/248, train_loss: 0.1962, step time: 1.0293
Batch 127/248, train_loss: 0.1094, step time: 1.0283
Batch 128/248, train_loss: 0.3720, step time: 1.0347
Batch 129/248, train_loss: 0.1435, step time: 1.0323
Batch 130/248, train_loss: 0.1111, step time: 1.0305
Batch 131/248, train_loss: 0.6798, step time: 1.0292
Batch 132/248, train_loss: 0.6065, step time: 1.0307
Batch 133/248, train_loss: 0.1668, step time: 1.0297
Batch 134/248, train_loss: 0.8416, step time: 1.0308
Batch 135/248, train_loss: 0.2826, step time: 1.0298
Batch 136/248, train_loss: 0.1110, step time: 1.0284
Batch 137/248, train_loss: 0.1490, step time: 1.0256
Batch 138/248, train_loss: 0.0706, step time: 1.0258
Batch 139/248, train_loss: 0.2302, step time: 1.0311
Batch 140/248, train_loss: 0.1838, step time: 1.0273
Batch 141/248, train_loss: 0.2854, step time: 1.0280
Batch 142/248, train_loss: 0.6964, step time: 1.0322
Batch 143/248, train_loss: 0.3007, step time: 1.0293
Batch 144/248, train_loss: 0.1242, step time: 1.0265
Batch 145/248, train_loss: 0.0584, step time: 1.0277
Batch 146/248, train_loss: 0.9733, step time: 1.0266
Batch 147/248, train_loss: 0.0385, step time: 1.0227
Batch 148/248, train_loss: 0.8741, step time: 1.0284
Batch 149/248, train_loss: 0.1151, step time: 1.0308
Batch 150/248, train_loss: 0.6875, step time: 1.0299
Batch 151/248, train_loss: 0.4441, step time: 1.0303
Batch 152/248, train_loss: 0.0409, step time: 1.0238
Batch 153/248, train_loss: 0.2814, step time: 1.0328
Batch 154/248, train_loss: 0.6926, step time: 1.0301
Batch 155/248, train_loss: 0.1670, step time: 1.0297
Batch 156/248, train_loss: 0.3061, step time: 1.0318
Batch 157/248, train_loss: 0.3245, step time: 1.0304
Batch 158/248, train_loss: 0.2020, step time: 1.0271

Batch 150/248, train_loss: 0.7775, step time: 1.0271
Batch 159/248, train_loss: 0.5383, step time: 1.0304
Batch 160/248, train_loss: 0.0877, step time: 1.0288
Batch 161/248, train_loss: 0.0824, step time: 1.0311
Batch 162/248, train_loss: 0.0819, step time: 1.0322
Batch 163/248, train_loss: 0.1698, step time: 1.0334
Batch 164/248, train_loss: 0.2601, step time: 1.0326
Batch 165/248, train_loss: 0.9781, step time: 1.0298
Batch 166/248, train_loss: 0.1425, step time: 1.0320
Batch 167/248, train_loss: 0.1671, step time: 1.0310
Batch 168/248, train_loss: 0.1725, step time: 1.0300
Batch 169/248, train_loss: 0.0878, step time: 1.0299
Batch 170/248, train_loss: 0.7529, step time: 1.0290
Batch 171/248, train_loss: 0.0946, step time: 1.0266
Batch 172/248, train_loss: 0.9440, step time: 1.0317
Batch 173/248, train_loss: 0.1197, step time: 1.0253
Batch 174/248, train_loss: 0.9818, step time: 1.0267
Batch 175/248, train_loss: 0.1448, step time: 1.0275
Batch 176/248, train_loss: 0.3906, step time: 1.0308
Batch 177/248, train_loss: 0.3670, step time: 1.0321
Batch 178/248, train_loss: 0.2214, step time: 1.0274
Batch 179/248, train_loss: 0.0910, step time: 1.0268
Batch 180/248, train_loss: 0.3589, step time: 1.0317
Batch 181/248, train_loss: 0.1170, step time: 1.0287
Batch 182/248, train_loss: 0.9315, step time: 1.0302
Batch 183/248, train_loss: 0.2047, step time: 1.0307
Batch 184/248, train_loss: 0.5099, step time: 1.0284
Batch 185/248, train_loss: 0.1030, step time: 1.0293
Batch 186/248, train_loss: 0.1113, step time: 1.0303
Batch 187/248, train_loss: 0.1833, step time: 1.0286
Batch 188/248, train_loss: 0.2348, step time: 1.0326
Batch 189/248, train_loss: 0.6841, step time: 1.0321
Batch 190/248, train_loss: 0.1277, step time: 1.0267
Batch 191/248, train_loss: 0.6625, step time: 1.0316
Batch 192/248, train_loss: 0.3356, step time: 1.0285
Batch 193/248, train_loss: 0.3192, step time: 1.0292
Batch 194/248, train_loss: 0.0847, step time: 1.0305
Batch 195/248, train_loss: 0.7357, step time: 1.0318
Batch 196/248, train_loss: 0.9968, step time: 1.0268
Batch 197/248, train_loss: 0.1793, step time: 1.0314
Batch 198/248, train_loss: 0.9665, step time: 1.0269
Batch 199/248, train_loss: 0.1473, step time: 1.0300
Batch 200/248, train_loss: 0.1223, step time: 1.0261
Batch 201/248, train_loss: 0.1265, step time: 1.0259
Batch 202/248, train_loss: 0.3450, step time: 1.0288
Batch 203/248, train_loss: 0.6714, step time: 1.0292
Batch 204/248, train_loss: 0.1009, step time: 1.0271
Batch 205/248, train_loss: 0.2726, step time: 1.0286
Batch 206/248, train_loss: 0.6606, step time: 1.0333
Batch 207/248, train_loss: 0.0857, step time: 1.0277
Batch 208/248, train_loss: 0.1504, step time: 1.0319
Batch 209/248, train_loss: 0.1731, step time: 1.0297
Batch 210/248, train_loss: 0.0591, step time: 1.0273
Batch 211/248, train_loss: 0.0664, step time: 1.0249
Batch 212/248, train_loss: 0.4813, step time: 1.0288
Batch 213/248, train_loss: 0.1567, step time: 1.0310
Batch 214/248, train_loss: 0.0747, step time: 1.0284

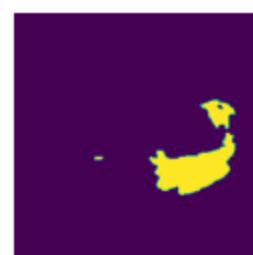
```
Batch 215/248, train_loss: 0.2320, step time: 1.0321
Batch 216/248, train_loss: 0.1865, step time: 1.0374
Batch 217/248, train_loss: 0.2891, step time: 1.0313
Batch 218/248, train_loss: 0.8243, step time: 1.0314
Batch 219/248, train_loss: 0.0665, step time: 1.0307
Batch 220/248, train_loss: 0.2216, step time: 1.0308
Batch 221/248, train_loss: 0.3017, step time: 1.0285
Batch 222/248, train_loss: 0.1950, step time: 1.0292
Batch 223/248, train_loss: 0.0414, step time: 1.0293
Batch 224/248, train_loss: 0.0812, step time: 1.0283
Batch 225/248, train_loss: 0.2793, step time: 1.0282
Batch 226/248, train_loss: 0.2338, step time: 1.0291
Batch 227/248, train_loss: 0.0921, step time: 1.0262
Batch 228/248, train_loss: 0.1714, step time: 1.0276
Batch 229/248, train_loss: 0.1118, step time: 1.0274
Batch 230/248, train_loss: 0.0714, step time: 1.0295
Batch 231/248, train_loss: 0.7918, step time: 1.0308
Batch 232/248, train_loss: 0.0854, step time: 1.0302
Batch 233/248, train_loss: 0.9515, step time: 1.0288
Batch 234/248, train_loss: 0.5844, step time: 1.0327
Batch 235/248, train_loss: 0.5457, step time: 1.0322
Batch 236/248, train_loss: 0.8532, step time: 1.0302
Batch 237/248, train_loss: 0.1130, step time: 1.0298
Batch 238/248, train_loss: 0.1062, step time: 1.0303
Batch 239/248, train_loss: 0.0962, step time: 1.0295
Batch 240/248, train_loss: 0.4088, step time: 1.0327
Batch 241/248, train_loss: 0.8238, step time: 1.0340
Batch 242/248, train_loss: 0.2080, step time: 1.0318
Batch 243/248, train_loss: 0.6729, step time: 1.0320
Batch 244/248, train_loss: 0.5555, step time: 1.0324
Batch 245/248, train_loss: 0.0645, step time: 1.0262
Batch 246/248, train_loss: 0.6223, step time: 1.0291
Batch 247/248, train_loss: 0.0889, step time: 1.0277
Batch 248/248, train_loss: 0.9998, step time: 1.0218
```

Labels

TC



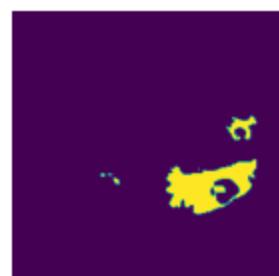
WT



ET



Predictions

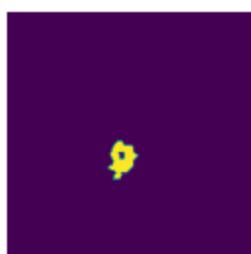


VAL

Batch 1/31, val_loss: 0.9595
Batch 2/31, val_loss: 0.9921
Batch 3/31, val_loss: 0.9650
Batch 4/31, val_loss: 0.9441
Batch 5/31, val_loss: 0.9920
Batch 6/31, val_loss: 0.7063
Batch 7/31, val_loss: 0.8375
Batch 8/31, val_loss: 0.9511
Batch 9/31, val_loss: 0.6980
Batch 10/31, val_loss: 0.9177
Batch 11/31, val_loss: 0.8260
Batch 12/31, val_loss: 0.9764
Batch 13/31, val_loss: 0.9840
Batch 14/31, val_loss: 0.9363
Batch 15/31, val_loss: 0.9899
Batch 16/31, val_loss: 0.9756
Batch 17/31, val_loss: 0.9722
Batch 18/31, val_loss: 0.9340
Batch 19/31, val_loss: 0.7496
Batch 20/31, val_loss: 0.8751
Batch 21/31, val_loss: 0.8656
Batch 22/31, val_loss: 0.9800
Batch 23/31, val_loss: 0.9774
Batch 24/31, val_loss: 0.7462
Batch 25/31, val_loss: 0.8026
Batch 26/31, val_loss: 0.9196
Batch 27/31, val_loss: 0.9740
Batch 28/31, val_loss: 0.7571
Batch 29/31, val_loss: 0.9899
Batch 30/31, val_loss: 0.9647
Batch 31/31, val_loss: 0.9827

Labels

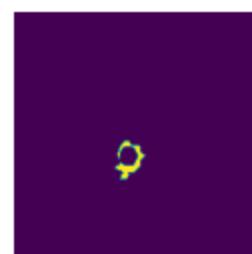
TC



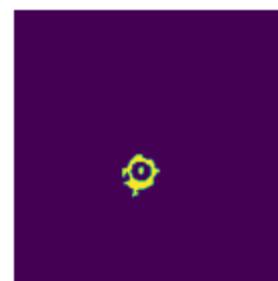
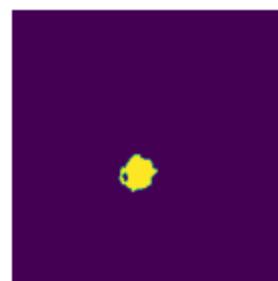
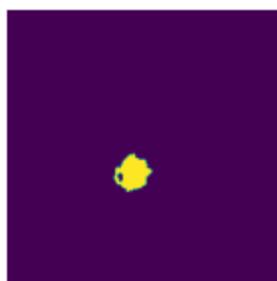
WT



ET



Predictions



```
--  
    average train loss: 0.3387  
    average validation loss: 0.9078  
    saved as best model: False  
    current mean dice: 0.4576  
    current TC dice: 0.4727  
    current WT dice: 0.4798  
    current ET dice: 0.4618  
Best Mean Metric: 0.4622  
time consuming of epoch 36 is: 1559.6439  
-----  
epoch 37/100  
TRAIN  
    Batch 1/248, train_loss: 0.1013, step time: 1.0308  
    Batch 2/248, train_loss: 0.8702, step time: 1.0317  
    Batch 3/248, train_loss: 0.3945, step time: 1.0296  
    Batch 4/248, train_loss: 0.9767, step time: 1.0272  
    Batch 5/248, train_loss: 0.2451, step time: 1.0280  
    Batch 6/248, train_loss: 0.6450, step time: 1.0329  
    Batch 7/248, train_loss: 0.0802, step time: 1.0292  
    Batch 8/248, train_loss: 0.7186, step time: 1.0272  
    Batch 9/248, train_loss: 0.0511, step time: 1.0283  
    Batch 10/248, train_loss: 0.3038, step time: 1.0300  
    Batch 11/248, train_loss: 0.2368, step time: 1.0327  
    Batch 12/248, train_loss: 0.7093, step time: 1.0367  
    Batch 13/248, train_loss: 0.4037, step time: 1.0322  
    Batch 14/248, train_loss: 0.0506, step time: 1.0271  
    Batch 15/248, train_loss: 0.3446, step time: 1.0314  
    Batch 16/248, train_loss: 0.1442, step time: 1.0313  
    Batch 17/248, train_loss: 0.3596, step time: 1.0305  
    Batch 18/248, train_loss: 0.6093, step time: 1.0332  
    Batch 19/248, train_loss: 0.1484, step time: 1.0270  
    Batch 20/248, train_loss: 0.1846, step time: 1.0304  
    Batch 21/248, train_loss: 0.0642, step time: 1.0267  
    Batch 22/248, train_loss: 0.9959, step time: 1.0237  
    Batch 23/248, train_loss: 0.9963, step time: 1.0264  
    Batch 24/248, train_loss: 0.0833, step time: 1.0265  
    Batch 25/248, train_loss: 0.0641, step time: 1.0286  
    Batch 26/248, train_loss: 0.8257, step time: 1.0340  
    Batch 27/248, train_loss: 0.0701, step time: 1.0262  
    Batch 28/248, train_loss: 0.1457, step time: 1.0276  
    Batch 29/248, train_loss: 0.4676, step time: 1.0315  
    Batch 30/248, train_loss: 0.2885, step time: 1.0340  
    Batch 31/248, train_loss: 0.2844, step time: 1.0330  
    Batch 32/248, train_loss: 0.0918, step time: 1.0300  
    Batch 33/248, train_loss: 0.0768, step time: 1.0297  
    Batch 34/248, train_loss: 0.0435, step time: 1.0262  
    Batch 35/248, train_loss: 0.0473, step time: 1.0289  
    Batch 36/248, train_loss: 0.9303, step time: 1.0278  
    Batch 37/248, train_loss: 0.1767, step time: 1.0269  
    Batch 38/248, train_loss: 0.2875, step time: 1.0271  
    Batch 39/248, train_loss: 0.1040, step time: 1.0283  
    Batch 40/248, train_loss: 0.9384, step time: 1.0326  
    Batch 41/248, train_loss: 0.2241, step time: 1.0310  
    Batch 42/248, train_loss: 0.0701, step time: 1.0287  
    Batch 43/248, train_loss: 0.0576, step time: 1.0263  
    Batch 44/248, train_loss: 0.3231, step time: 1.0302
```

Batch 45/248, train_loss: 0.4232, step time: 1.0318
Batch 46/248, train_loss: 0.1944, step time: 1.0284
Batch 47/248, train_loss: 0.0625, step time: 1.0308
Batch 48/248, train_loss: 0.2673, step time: 1.0274
Batch 49/248, train_loss: 0.5460, step time: 1.0316
Batch 50/248, train_loss: 0.1307, step time: 1.0291
Batch 51/248, train_loss: 0.1445, step time: 1.0323
Batch 52/248, train_loss: 0.1174, step time: 1.0320
Batch 53/248, train_loss: 0.4109, step time: 1.0311
Batch 54/248, train_loss: 0.2326, step time: 1.0329
Batch 55/248, train_loss: 0.2740, step time: 1.0332
Batch 56/248, train_loss: 0.2271, step time: 1.0318
Batch 57/248, train_loss: 0.2683, step time: 1.0294
Batch 58/248, train_loss: 0.0897, step time: 1.0273
Batch 59/248, train_loss: 0.0890, step time: 1.0284
Batch 60/248, train_loss: 0.0524, step time: 1.0240
Batch 61/248, train_loss: 0.0914, step time: 1.0232
Batch 62/248, train_loss: 0.2103, step time: 1.0300
Batch 63/248, train_loss: 0.7668, step time: 1.0283
Batch 64/248, train_loss: 0.4713, step time: 1.0272
Batch 65/248, train_loss: 0.5365, step time: 1.0318
Batch 66/248, train_loss: 0.1488, step time: 1.0307
Batch 67/248, train_loss: 0.0715, step time: 1.0263
Batch 68/248, train_loss: 0.1236, step time: 1.0289
Batch 69/248, train_loss: 0.5360, step time: 1.0387
Batch 70/248, train_loss: 0.1317, step time: 1.0296
Batch 71/248, train_loss: 0.1778, step time: 1.0290
Batch 72/248, train_loss: 0.0597, step time: 1.0250
Batch 73/248, train_loss: 0.4759, step time: 1.0285
Batch 74/248, train_loss: 0.9950, step time: 1.0238
Batch 75/248, train_loss: 0.1234, step time: 1.0253
Batch 76/248, train_loss: 0.7672, step time: 1.0281
Batch 77/248, train_loss: 0.9051, step time: 1.0318
Batch 78/248, train_loss: 0.1595, step time: 1.0347
Batch 79/248, train_loss: 0.1530, step time: 1.0282
Batch 80/248, train_loss: 0.1929, step time: 1.0301
Batch 81/248, train_loss: 0.2017, step time: 1.0384
Batch 82/248, train_loss: 0.0907, step time: 1.0334
Batch 83/248, train_loss: 0.6561, step time: 1.0318
Batch 84/248, train_loss: 0.2818, step time: 1.0313
Batch 85/248, train_loss: 0.4087, step time: 1.0295
Batch 86/248, train_loss: 0.3428, step time: 1.0265
Batch 87/248, train_loss: 0.4827, step time: 1.0286
Batch 88/248, train_loss: 0.4086, step time: 1.0303
Batch 89/248, train_loss: 0.1077, step time: 1.0265
Batch 90/248, train_loss: 0.4894, step time: 1.0359
Batch 91/248, train_loss: 0.5798, step time: 1.0356
Batch 92/248, train_loss: 0.3435, step time: 1.0278
Batch 93/248, train_loss: 0.1567, step time: 1.0309
Batch 94/248, train_loss: 0.4264, step time: 1.0305
Batch 95/248, train_loss: 0.1780, step time: 1.0290
Batch 96/248, train_loss: 0.3066, step time: 1.0305
Batch 97/248, train_loss: 0.6395, step time: 1.0340
Batch 98/248, train_loss: 0.1245, step time: 1.0315
Batch 99/248, train_loss: 0.4112, step time: 1.0298
Batch 100/248, train_loss: 0.3317, step time: 1.0323
Batch 101/248, train_loss: 0.0539, step time: 1.0269

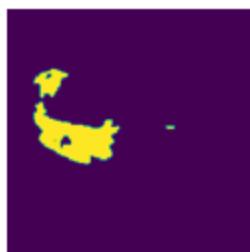
Batch 102/248, train_loss: 0.1194, step time: 1.0306
Batch 103/248, train_loss: 0.6756, step time: 1.0324
Batch 104/248, train_loss: 0.3417, step time: 1.0295
Batch 105/248, train_loss: 0.0921, step time: 1.0314
Batch 106/248, train_loss: 0.2085, step time: 1.0308
Batch 107/248, train_loss: 0.3597, step time: 1.0332
Batch 108/248, train_loss: 0.5533, step time: 1.0317
Batch 109/248, train_loss: 0.9757, step time: 1.0324
Batch 110/248, train_loss: 0.2390, step time: 1.0316
Batch 111/248, train_loss: 0.1717, step time: 1.0292
Batch 112/248, train_loss: 0.1588, step time: 1.0323
Batch 113/248, train_loss: 0.9622, step time: 1.0300
Batch 114/248, train_loss: 0.1878, step time: 1.0281
Batch 115/248, train_loss: 0.2401, step time: 1.0316
Batch 116/248, train_loss: 0.0855, step time: 1.0243
Batch 117/248, train_loss: 0.6808, step time: 1.0341
Batch 118/248, train_loss: 0.7377, step time: 1.0289
Batch 119/248, train_loss: 0.3475, step time: 1.0286
Batch 120/248, train_loss: 0.2640, step time: 1.0294
Batch 121/248, train_loss: 0.3382, step time: 1.0332
Batch 122/248, train_loss: 0.4773, step time: 1.0293
Batch 123/248, train_loss: 0.1172, step time: 1.0280
Batch 124/248, train_loss: 0.5007, step time: 1.0321
Batch 125/248, train_loss: 0.8498, step time: 1.0296
Batch 126/248, train_loss: 0.3131, step time: 1.0299
Batch 127/248, train_loss: 0.1230, step time: 1.0302
Batch 128/248, train_loss: 0.4385, step time: 1.0300
Batch 129/248, train_loss: 0.1307, step time: 1.0278
Batch 130/248, train_loss: 0.1102, step time: 1.0284
Batch 131/248, train_loss: 0.6727, step time: 1.0294
Batch 132/248, train_loss: 0.5512, step time: 1.0307
Batch 133/248, train_loss: 0.1628, step time: 1.0271
Batch 134/248, train_loss: 0.8794, step time: 1.0285
Batch 135/248, train_loss: 0.3132, step time: 1.0315
Batch 136/248, train_loss: 0.1125, step time: 1.0284
Batch 137/248, train_loss: 0.1448, step time: 1.0293
Batch 138/248, train_loss: 0.0696, step time: 1.0274
Batch 139/248, train_loss: 0.3919, step time: 1.0302
Batch 140/248, train_loss: 0.2503, step time: 1.0318
Batch 141/248, train_loss: 0.2474, step time: 1.0302
Batch 142/248, train_loss: 0.7486, step time: 1.0312
Batch 143/248, train_loss: 0.3687, step time: 1.0305
Batch 144/248, train_loss: 0.1205, step time: 1.0248
Batch 145/248, train_loss: 0.0951, step time: 1.0255
Batch 146/248, train_loss: 0.7979, step time: 1.0295
Batch 147/248, train_loss: 0.0467, step time: 1.0286
Batch 148/248, train_loss: 0.8055, step time: 1.0294
Batch 149/248, train_loss: 0.1143, step time: 1.0272
Batch 150/248, train_loss: 0.7205, step time: 1.0266
Batch 151/248, train_loss: 0.6859, step time: 1.0294
Batch 152/248, train_loss: 0.0377, step time: 1.0251
Batch 153/248, train_loss: 0.3263, step time: 1.0313
Batch 154/248, train_loss: 0.8522, step time: 1.0334
Batch 155/248, train_loss: 0.1560, step time: 1.0295
Batch 156/248, train_loss: 0.2507, step time: 1.0304
Batch 157/248, train_loss: 0.3057, step time: 1.0325

Batch 158/248, train_loss: 0.9866, step time: 1.0264
Batch 159/248, train_loss: 0.5012, step time: 1.0317
Batch 160/248, train_loss: 0.0852, step time: 1.0276
Batch 161/248, train_loss: 0.1039, step time: 1.0294
Batch 162/248, train_loss: 0.1176, step time: 1.0308
Batch 163/248, train_loss: 0.1638, step time: 1.0328
Batch 164/248, train_loss: 0.2537, step time: 1.0337
Batch 165/248, train_loss: 0.8879, step time: 1.0290
Batch 166/248, train_loss: 0.0933, step time: 1.0277
Batch 167/248, train_loss: 0.1572, step time: 1.0271
Batch 168/248, train_loss: 0.1642, step time: 1.0323
Batch 169/248, train_loss: 0.1073, step time: 1.0304
Batch 170/248, train_loss: 0.7745, step time: 1.0323
Batch 171/248, train_loss: 0.0936, step time: 1.0296
Batch 172/248, train_loss: 0.7436, step time: 1.0294
Batch 173/248, train_loss: 0.0905, step time: 1.0286
Batch 174/248, train_loss: 0.7157, step time: 1.0299
Batch 175/248, train_loss: 0.1889, step time: 1.0309
Batch 176/248, train_loss: 0.3570, step time: 1.0320
Batch 177/248, train_loss: 0.3464, step time: 1.0304
Batch 178/248, train_loss: 0.3049, step time: 1.0289
Batch 179/248, train_loss: 0.0913, step time: 1.0282
Batch 180/248, train_loss: 0.3496, step time: 1.0303
Batch 181/248, train_loss: 0.1053, step time: 1.0266
Batch 182/248, train_loss: 0.9866, step time: 1.0280
Batch 183/248, train_loss: 0.1800, step time: 1.0305
Batch 184/248, train_loss: 0.5926, step time: 1.0286
Batch 185/248, train_loss: 0.1110, step time: 1.0260
Batch 186/248, train_loss: 0.1410, step time: 1.0285
Batch 187/248, train_loss: 0.1769, step time: 1.0301
Batch 188/248, train_loss: 0.2605, step time: 1.0287
Batch 189/248, train_loss: 0.6372, step time: 1.0298
Batch 190/248, train_loss: 0.1457, step time: 1.0266
Batch 191/248, train_loss: 0.6510, step time: 1.0319
Batch 192/248, train_loss: 0.3021, step time: 1.0313
Batch 193/248, train_loss: 0.3486, step time: 1.0276
Batch 194/248, train_loss: 0.0895, step time: 1.0312
Batch 195/248, train_loss: 0.6908, step time: 1.0310
Batch 196/248, train_loss: 0.9983, step time: 1.0227
Batch 197/248, train_loss: 0.2191, step time: 1.0327
Batch 198/248, train_loss: 0.9395, step time: 1.0284
Batch 199/248, train_loss: 0.1823, step time: 1.0320
Batch 200/248, train_loss: 0.1280, step time: 1.0277
Batch 201/248, train_loss: 0.1299, step time: 1.0281
Batch 202/248, train_loss: 0.3849, step time: 1.0318
Batch 203/248, train_loss: 0.7603, step time: 1.0275
Batch 204/248, train_loss: 0.0917, step time: 1.0306
Batch 205/248, train_loss: 0.2522, step time: 1.0310
Batch 206/248, train_loss: 0.4861, step time: 1.0320
Batch 207/248, train_loss: 0.0828, step time: 1.0271
Batch 208/248, train_loss: 0.1944, step time: 1.0271
Batch 209/248, train_loss: 0.1595, step time: 1.0286
Batch 210/248, train_loss: 0.0612, step time: 1.0317
Batch 211/248, train_loss: 0.0655, step time: 1.0268
Batch 212/248, train_loss: 0.4348, step time: 1.0269
Batch 213/248, train_loss: 0.1645, step time: 1.0289
Batch 214/248, train_loss: 0.0748, step time: 1.0273

```
Batch 215/248, train_loss: 0.1936, step time: 1.0300
Batch 216/248, train_loss: 0.1792, step time: 1.0306
Batch 217/248, train_loss: 0.2852, step time: 1.0334
Batch 218/248, train_loss: 0.8170, step time: 1.0318
Batch 219/248, train_loss: 0.0815, step time: 1.0289
Batch 220/248, train_loss: 0.2261, step time: 1.0308
Batch 221/248, train_loss: 0.3167, step time: 1.0299
Batch 222/248, train_loss: 0.1996, step time: 1.0268
Batch 223/248, train_loss: 0.0416, step time: 1.0271
Batch 224/248, train_loss: 0.0794, step time: 1.0266
Batch 225/248, train_loss: 0.3027, step time: 1.0307
Batch 226/248, train_loss: 0.2792, step time: 1.0299
Batch 227/248, train_loss: 0.0899, step time: 1.0239
Batch 228/248, train_loss: 0.1727, step time: 1.0297
Batch 229/248, train_loss: 0.1250, step time: 1.0312
Batch 230/248, train_loss: 0.0943, step time: 1.0282
Batch 231/248, train_loss: 0.5518, step time: 1.0318
Batch 232/248, train_loss: 0.0830, step time: 1.0261
Batch 233/248, train_loss: 0.9470, step time: 1.0310
Batch 234/248, train_loss: 0.5813, step time: 1.0304
Batch 235/248, train_loss: 0.6567, step time: 1.0371
Batch 236/248, train_loss: 0.8294, step time: 1.0314
Batch 237/248, train_loss: 0.1137, step time: 1.0282
Batch 238/248, train_loss: 0.1051, step time: 1.0266
Batch 239/248, train_loss: 0.1053, step time: 1.0293
Batch 240/248, train_loss: 0.4098, step time: 1.0343
Batch 241/248, train_loss: 0.7329, step time: 1.0310
Batch 242/248, train_loss: 0.2675, step time: 1.0290
Batch 243/248, train_loss: 0.7046, step time: 1.0284
Batch 244/248, train_loss: 0.5331, step time: 1.0301
Batch 245/248, train_loss: 0.0692, step time: 1.0260
Batch 246/248, train_loss: 0.6595, step time: 1.0313
Batch 247/248, train_loss: 0.0911, step time: 1.0267
Batch 248/248, train_loss: 0.9997, step time: 1.0222
```

Labels

TC



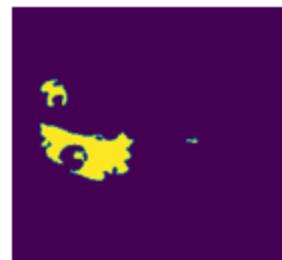
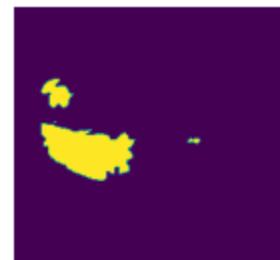
WT



ET



Predictions

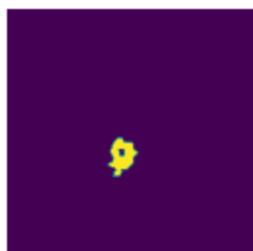


VAL

```
Batch 1/31, val_loss: 0.9321
Batch 2/31, val_loss: 0.9920
Batch 3/31, val_loss: 0.9642
Batch 4/31, val_loss: 0.9441
Batch 5/31, val_loss: 0.9920
Batch 6/31, val_loss: 0.7135
Batch 7/31, val_loss: 0.8414
Batch 8/31, val_loss: 0.9567
Batch 9/31, val_loss: 0.6989
Batch 10/31, val_loss: 0.9160
Batch 11/31, val_loss: 0.8301
Batch 12/31, val_loss: 0.9764
Batch 13/31, val_loss: 0.9826
Batch 14/31, val_loss: 0.9435
Batch 15/31, val_loss: 0.9926
Batch 16/31, val_loss: 0.9756
Batch 17/31, val_loss: 0.9738
Batch 18/31, val_loss: 0.9346
Batch 19/31, val_loss: 0.7493
Batch 20/31, val_loss: 0.8830
Batch 21/31, val_loss: 0.8665
Batch 22/31, val_loss: 0.9803
Batch 23/31, val_loss: 0.9801
Batch 24/31, val_loss: 0.7479
Batch 25/31, val_loss: 0.8056
Batch 26/31, val_loss: 0.9200
Batch 27/31, val_loss: 0.9732
Batch 28/31, val_loss: 0.7523
Batch 29/31, val_loss: 0.9887
Batch 30/31, val_loss: 0.9614
Batch 31/31, val_loss: 0.9856
```

Labels

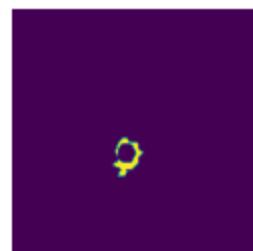
TC



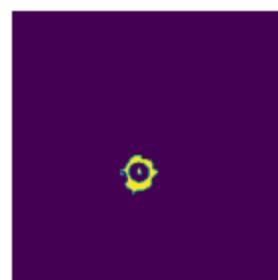
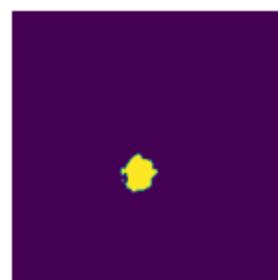
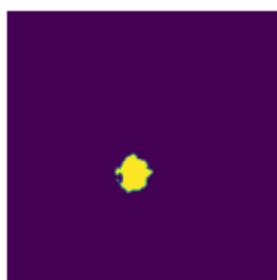
WT



ET



Predictions



```
epoch 37
    average train loss: 0.3417
    average validation loss: 0.9082
    saved as best model: False
    current mean dice: 0.4489
    current TC dice: 0.4652
    current WT dice: 0.4715
    current ET dice: 0.4502
Best Mean Metric: 0.4622
time consuming of epoch 37 is: 1563.8714
-----
epoch 38/100
TRAIN
    Batch 1/248, train_loss: 0.0913, step time: 1.0268
    Batch 2/248, train_loss: 0.8376, step time: 1.0323
    Batch 3/248, train_loss: 0.4300, step time: 1.0306
    Batch 4/248, train_loss: 0.9648, step time: 1.0309
    Batch 5/248, train_loss: 0.2456, step time: 1.0269
    Batch 6/248, train_loss: 0.6305, step time: 1.0293
    Batch 7/248, train_loss: 0.0877, step time: 1.0286
    Batch 8/248, train_loss: 0.7196, step time: 1.0283
    Batch 9/248, train_loss: 0.0516, step time: 1.0296
    Batch 10/248, train_loss: 0.2692, step time: 1.0316
    Batch 11/248, train_loss: 0.2090, step time: 1.0318
    Batch 12/248, train_loss: 0.6749, step time: 1.0312
    Batch 13/248, train_loss: 0.4446, step time: 1.0317
    Batch 14/248, train_loss: 0.0542, step time: 1.0260
    Batch 15/248, train_loss: 0.3221, step time: 1.0292
    Batch 16/248, train_loss: 0.1398, step time: 1.0278
    Batch 17/248, train_loss: 0.3513, step time: 1.0304
    Batch 18/248, train_loss: 0.5312, step time: 1.0282
    Batch 19/248, train_loss: 0.1592, step time: 1.0270
    Batch 20/248, train_loss: 0.1557, step time: 1.0312
    Batch 21/248, train_loss: 0.0615, step time: 1.0254
    Batch 22/248, train_loss: 0.9650, step time: 1.0288
    Batch 23/248, train_loss: 0.9960, step time: 1.0237
    Batch 24/248, train_loss: 0.0896, step time: 1.0258
    Batch 25/248, train_loss: 0.0682, step time: 1.0249
    Batch 26/248, train_loss: 0.5788, step time: 1.0291
    Batch 27/248, train_loss: 0.0708, step time: 1.0276
    Batch 28/248, train_loss: 0.1448, step time: 1.0316
    Batch 29/248, train_loss: 0.4168, step time: 1.0331
    Batch 30/248, train_loss: 0.2732, step time: 1.0318
    Batch 31/248, train_loss: 0.2879, step time: 1.0323
    Batch 32/248, train_loss: 0.0888, step time: 1.0279
    Batch 33/248, train_loss: 0.0714, step time: 1.0261
    Batch 34/248, train_loss: 0.0437, step time: 1.0266
    Batch 35/248, train_loss: 0.0513, step time: 1.0300
    Batch 36/248, train_loss: 0.5742, step time: 1.0300
    Batch 37/248, train_loss: 0.1737, step time: 1.0273
    Batch 38/248, train_loss: 0.2982, step time: 1.0278
    Batch 39/248, train_loss: 0.1445, step time: 1.0294
    Batch 40/248, train_loss: 0.9894, step time: 1.0264
    Batch 41/248, train_loss: 0.2618, step time: 1.0292
    Batch 42/248, train_loss: 0.0668, step time: 1.0280
    Batch 43/248, train_loss: 0.0581, step time: 1.0236
    Batch 44/248, train_loss: 0.3860, step time: 1.0281
```

Batch 45/248, train_loss: 0.3983, step time: 1.0317
Batch 46/248, train_loss: 0.1673, step time: 1.0323
Batch 47/248, train_loss: 0.0697, step time: 1.0294
Batch 48/248, train_loss: 0.2064, step time: 1.0325
Batch 49/248, train_loss: 0.5203, step time: 1.0343
Batch 50/248, train_loss: 0.1342, step time: 1.0305
Batch 51/248, train_loss: 0.1270, step time: 1.0279
Batch 52/248, train_loss: 0.1120, step time: 1.0292
Batch 53/248, train_loss: 0.4362, step time: 1.0321
Batch 54/248, train_loss: 0.2261, step time: 1.0297
Batch 55/248, train_loss: 0.3950, step time: 1.0271
Batch 56/248, train_loss: 0.2165, step time: 1.0310
Batch 57/248, train_loss: 0.3680, step time: 1.0305
Batch 58/248, train_loss: 0.0880, step time: 1.0258
Batch 59/248, train_loss: 0.0894, step time: 1.0268
Batch 60/248, train_loss: 0.0571, step time: 1.0259
Batch 61/248, train_loss: 0.0947, step time: 1.0279
Batch 62/248, train_loss: 0.2337, step time: 1.0307
Batch 63/248, train_loss: 0.6747, step time: 1.0304
Batch 64/248, train_loss: 0.6039, step time: 1.0322
Batch 65/248, train_loss: 0.4440, step time: 1.0282
Batch 66/248, train_loss: 0.1549, step time: 1.0309
Batch 67/248, train_loss: 0.0706, step time: 1.0265
Batch 68/248, train_loss: 0.1181, step time: 1.0277
Batch 69/248, train_loss: 0.5229, step time: 1.0360
Batch 70/248, train_loss: 0.1404, step time: 1.0294
Batch 71/248, train_loss: 0.1844, step time: 1.0295
Batch 72/248, train_loss: 0.0616, step time: 1.0277
Batch 73/248, train_loss: 0.3257, step time: 1.0301
Batch 74/248, train_loss: 0.9870, step time: 1.0283
Batch 75/248, train_loss: 0.1372, step time: 1.0301
Batch 76/248, train_loss: 0.5805, step time: 1.0328
Batch 77/248, train_loss: 0.8564, step time: 1.0313
Batch 78/248, train_loss: 0.1319, step time: 1.0297
Batch 79/248, train_loss: 0.1353, step time: 1.0286
Batch 80/248, train_loss: 0.2188, step time: 1.0311
Batch 81/248, train_loss: 0.2401, step time: 1.0321
Batch 82/248, train_loss: 0.0833, step time: 1.0286
Batch 83/248, train_loss: 0.6286, step time: 1.0358
Batch 84/248, train_loss: 0.2512, step time: 1.0302
Batch 85/248, train_loss: 0.6299, step time: 1.0278
Batch 86/248, train_loss: 0.2731, step time: 1.0259
Batch 87/248, train_loss: 0.6676, step time: 1.0321
Batch 88/248, train_loss: 0.3935, step time: 1.0328
Batch 89/248, train_loss: 0.1049, step time: 1.0251
Batch 90/248, train_loss: 0.3441, step time: 1.0300
Batch 91/248, train_loss: 0.5255, step time: 1.0306
Batch 92/248, train_loss: 0.3581, step time: 1.0302
Batch 93/248, train_loss: 0.1654, step time: 1.0296
Batch 94/248, train_loss: 0.4505, step time: 1.0305
Batch 95/248, train_loss: 0.1782, step time: 1.0273
Batch 96/248, train_loss: 0.2012, step time: 1.0288
Batch 97/248, train_loss: 0.6560, step time: 1.0300
Batch 98/248, train_loss: 0.1063, step time: 1.0273
Batch 99/248, train_loss: 0.3345, step time: 1.0315
Batch 100/248, train_loss: 0.3139, step time: 1.0287
Batch 101/248, train_loss: 0.0551, step time: 1.0201

Batch 102/248, train_loss: 0.1571, step time: 1.0297
Batch 103/248, train_loss: 0.5303, step time: 1.0313
Batch 104/248, train_loss: 0.3588, step time: 1.0288
Batch 105/248, train_loss: 0.0870, step time: 1.0313
Batch 106/248, train_loss: 0.1591, step time: 1.0318
Batch 107/248, train_loss: 0.7294, step time: 1.0308
Batch 108/248, train_loss: 0.5628, step time: 1.0328
Batch 109/248, train_loss: 0.9946, step time: 1.0255
Batch 110/248, train_loss: 0.2249, step time: 1.0321
Batch 111/248, train_loss: 0.1903, step time: 1.0326
Batch 112/248, train_loss: 0.1880, step time: 1.0291
Batch 113/248, train_loss: 0.9742, step time: 1.0275
Batch 114/248, train_loss: 0.1631, step time: 1.0284
Batch 115/248, train_loss: 0.2085, step time: 1.0301
Batch 116/248, train_loss: 0.0987, step time: 1.0241
Batch 117/248, train_loss: 0.8192, step time: 1.0289
Batch 118/248, train_loss: 0.8114, step time: 1.0308
Batch 119/248, train_loss: 0.4284, step time: 1.0296
Batch 120/248, train_loss: 0.2851, step time: 1.0295
Batch 121/248, train_loss: 0.2886, step time: 1.0337
Batch 122/248, train_loss: 0.5843, step time: 1.0334
Batch 123/248, train_loss: 0.1073, step time: 1.0292
Batch 124/248, train_loss: 0.5768, step time: 1.0314
Batch 125/248, train_loss: 0.7881, step time: 1.0281
Batch 126/248, train_loss: 0.2689, step time: 1.0315
Batch 127/248, train_loss: 0.1261, step time: 1.0276
Batch 128/248, train_loss: 0.3768, step time: 1.0308
Batch 129/248, train_loss: 0.1326, step time: 1.0257
Batch 130/248, train_loss: 0.1006, step time: 1.0272
Batch 131/248, train_loss: 0.6129, step time: 1.0285
Batch 132/248, train_loss: 0.5797, step time: 1.0285
Batch 133/248, train_loss: 0.1490, step time: 1.0276
Batch 134/248, train_loss: 0.9155, step time: 1.0306
Batch 135/248, train_loss: 0.3775, step time: 1.0289
Batch 136/248, train_loss: 0.1161, step time: 1.0312
Batch 137/248, train_loss: 0.1094, step time: 1.0267
Batch 138/248, train_loss: 0.0691, step time: 1.0287
Batch 139/248, train_loss: 0.2677, step time: 1.0303
Batch 140/248, train_loss: 0.1946, step time: 1.0290
Batch 141/248, train_loss: 0.3218, step time: 1.0305
Batch 142/248, train_loss: 0.6111, step time: 1.0319
Batch 143/248, train_loss: 0.2735, step time: 1.0286
Batch 144/248, train_loss: 0.1202, step time: 1.0288
Batch 145/248, train_loss: 0.0734, step time: 1.0256
Batch 146/248, train_loss: 0.9767, step time: 1.0299
Batch 147/248, train_loss: 0.0422, step time: 1.0275
Batch 148/248, train_loss: 0.8382, step time: 1.0290
Batch 149/248, train_loss: 0.1212, step time: 1.0258
Batch 150/248, train_loss: 0.7164, step time: 1.0297
Batch 151/248, train_loss: 0.4701, step time: 1.0295
Batch 152/248, train_loss: 0.0393, step time: 1.0253
Batch 153/248, train_loss: 0.5069, step time: 1.0267
Batch 154/248, train_loss: 0.7673, step time: 1.0323
Batch 155/248, train_loss: 0.1661, step time: 1.0287
Batch 156/248, train_loss: 0.2675, step time: 1.0311
Batch 157/248, train_loss: 0.3099, step time: 1.0358

Batch 158/248, train_loss: 0.9931, step time: 1.0315
Batch 159/248, train_loss: 0.5493, step time: 0.9968
Batch 160/248, train_loss: 0.0938, step time: 1.0280
Batch 161/248, train_loss: 0.1341, step time: 1.0274
Batch 162/248, train_loss: 0.0728, step time: 1.0280
Batch 163/248, train_loss: 0.2244, step time: 1.0267
Batch 164/248, train_loss: 0.2614, step time: 1.0278
Batch 165/248, train_loss: 0.9336, step time: 1.0245
Batch 166/248, train_loss: 0.0942, step time: 1.0279
Batch 167/248, train_loss: 0.1773, step time: 1.0270
Batch 168/248, train_loss: 0.1480, step time: 1.0296
Batch 169/248, train_loss: 0.1099, step time: 1.0274
Batch 170/248, train_loss: 0.8081, step time: 1.0307
Batch 171/248, train_loss: 0.0954, step time: 1.0271
Batch 172/248, train_loss: 0.8007, step time: 1.0333
Batch 173/248, train_loss: 0.1034, step time: 1.0259
Batch 174/248, train_loss: 0.9470, step time: 1.0264
Batch 175/248, train_loss: 0.1554, step time: 1.0304
Batch 176/248, train_loss: 0.3945, step time: 1.0276
Batch 177/248, train_loss: 0.3330, step time: 1.0330
Batch 178/248, train_loss: 0.3182, step time: 1.0319
Batch 179/248, train_loss: 0.1034, step time: 1.0260
Batch 180/248, train_loss: 0.3989, step time: 1.0293
Batch 181/248, train_loss: 0.1276, step time: 1.0291
Batch 182/248, train_loss: 0.9218, step time: 1.0233
Batch 183/248, train_loss: 0.1626, step time: 1.0277
Batch 184/248, train_loss: 0.4067, step time: 1.0301
Batch 185/248, train_loss: 0.0824, step time: 1.0256
Batch 186/248, train_loss: 0.1094, step time: 1.0240
Batch 187/248, train_loss: 0.2319, step time: 1.0293
Batch 188/248, train_loss: 0.2747, step time: 1.0262
Batch 189/248, train_loss: 0.6226, step time: 1.0284
Batch 190/248, train_loss: 0.1354, step time: 1.0273
Batch 191/248, train_loss: 0.7082, step time: 1.0290
Batch 192/248, train_loss: 0.3101, step time: 1.0322
Batch 193/248, train_loss: 0.2715, step time: 1.0257
Batch 194/248, train_loss: 0.0852, step time: 1.0310
Batch 195/248, train_loss: 0.7514, step time: 1.0290
Batch 196/248, train_loss: 0.9962, step time: 1.0252
Batch 197/248, train_loss: 0.1975, step time: 1.0279
Batch 198/248, train_loss: 0.9655, step time: 1.0296
Batch 199/248, train_loss: 0.1493, step time: 1.0282
Batch 200/248, train_loss: 0.1369, step time: 1.0283
Batch 201/248, train_loss: 0.1435, step time: 1.0259
Batch 202/248, train_loss: 0.3728, step time: 1.0246
Batch 203/248, train_loss: 0.6604, step time: 1.0283
Batch 204/248, train_loss: 0.0864, step time: 1.0253
Batch 205/248, train_loss: 0.2655, step time: 1.0296
Batch 206/248, train_loss: 0.5039, step time: 1.0299
Batch 207/248, train_loss: 0.0943, step time: 1.0295
Batch 208/248, train_loss: 0.2016, step time: 1.0276
Batch 209/248, train_loss: 0.1640, step time: 1.0275
Batch 210/248, train_loss: 0.0584, step time: 1.0249
Batch 211/248, train_loss: 0.0629, step time: 1.0287
Batch 212/248, train_loss: 0.3266, step time: 1.0263
Batch 213/248, train_loss: 0.1608, step time: 1.0323
Batch 214/248, train_loss: 0.0681, step time: 1.0285

Batch 214/248, train_loss: 0.9901, step time: 1.0203
Batch 215/248, train_loss: 0.2288, step time: 1.0293
Batch 216/248, train_loss: 0.1279, step time: 1.0284
Batch 217/248, train_loss: 0.2659, step time: 1.0298
Batch 218/248, train_loss: 0.8737, step time: 1.0321
Batch 219/248, train_loss: 0.0683, step time: 1.0305
Batch 220/248, train_loss: 0.2224, step time: 1.0289
Batch 221/248, train_loss: 0.3043, step time: 1.0319
Batch 222/248, train_loss: 0.2000, step time: 1.0273
Batch 223/248, train_loss: 0.0411, step time: 1.0257
Batch 224/248, train_loss: 0.0798, step time: 1.0261
Batch 225/248, train_loss: 0.2482, step time: 1.0258
Batch 226/248, train_loss: 0.1674, step time: 1.0282
Batch 227/248, train_loss: 0.0879, step time: 1.0262
Batch 228/248, train_loss: 0.1445, step time: 1.0246
Batch 229/248, train_loss: 0.1037, step time: 1.0262
Batch 230/248, train_loss: 0.0719, step time: 1.0271
Batch 231/248, train_loss: 0.5035, step time: 1.0290
Batch 232/248, train_loss: 0.0811, step time: 1.0254
Batch 233/248, train_loss: 0.9736, step time: 1.0281
Batch 234/248, train_loss: 0.5470, step time: 1.0325
Batch 235/248, train_loss: 0.4187, step time: 1.0352
Batch 236/248, train_loss: 0.8235, step time: 1.0288
Batch 237/248, train_loss: 0.1066, step time: 1.0304
Batch 238/248, train_loss: 0.1040, step time: 1.0295
Batch 239/248, train_loss: 0.0827, step time: 1.0278
Batch 240/248, train_loss: 0.3351, step time: 1.0312
Batch 241/248, train_loss: 0.8852, step time: 1.0304
Batch 242/248, train_loss: 0.1815, step time: 1.0299
Batch 243/248, train_loss: 0.6711, step time: 1.0267
Batch 244/248, train_loss: 0.6321, step time: 1.0303
Batch 245/248, train_loss: 0.0694, step time: 1.0242
Batch 246/248, train_loss: 0.5818, step time: 1.0267
Batch 247/248, train_loss: 0.1036, step time: 1.0256
Batch 248/248, train_loss: 0.9994, step time: 1.0190

Labels

TC



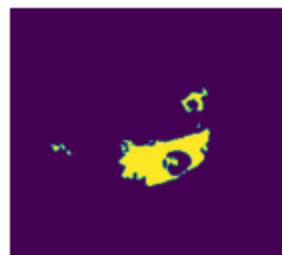
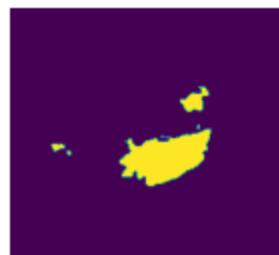
WT



ET



Predictions

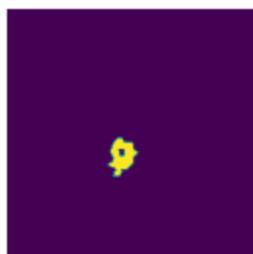


VAL

```
Batch 1/31, val_loss: 0.9558
Batch 2/31, val_loss: 0.9917
Batch 3/31, val_loss: 0.9647
Batch 4/31, val_loss: 0.9423
Batch 5/31, val_loss: 0.9923
Batch 6/31, val_loss: 0.7149
Batch 7/31, val_loss: 0.8412
Batch 8/31, val_loss: 0.9541
Batch 9/31, val_loss: 0.6978
Batch 10/31, val_loss: 0.9155
Batch 11/31, val_loss: 0.8265
Batch 12/31, val_loss: 0.9775
Batch 13/31, val_loss: 0.9839
Batch 14/31, val_loss: 0.9400
Batch 15/31, val_loss: 0.9918
Batch 16/31, val_loss: 0.9751
Batch 17/31, val_loss: 0.9743
Batch 18/31, val_loss: 0.9337
Batch 19/31, val_loss: 0.7463
Batch 20/31, val_loss: 0.8760
Batch 21/31, val_loss: 0.8659
Batch 22/31, val_loss: 0.9806
Batch 23/31, val_loss: 0.9802
Batch 24/31, val_loss: 0.7512
Batch 25/31, val_loss: 0.8090
Batch 26/31, val_loss: 0.9193
Batch 27/31, val_loss: 0.9726
Batch 28/31, val_loss: 0.7513
Batch 29/31, val_loss: 0.9885
Batch 30/31, val_loss: 0.9600
Batch 31/31, val_loss: 0.9823
```

Labels

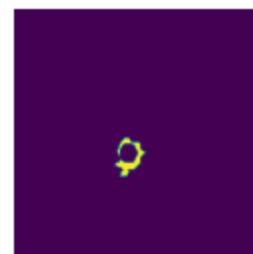
TC



WT

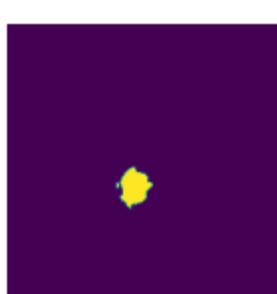


ET

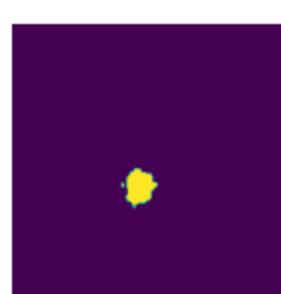


Predictions

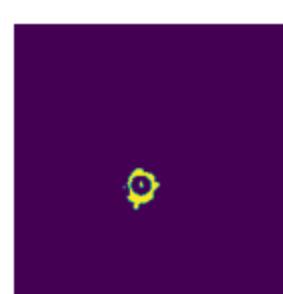
TC



WT



ET



```
epoch 38
    average train loss: 0.3368
    average validation loss: 0.9083
    saved as best model: True
    current mean dice: 0.4787
    current TC dice: 0.5004
    current WT dice: 0.5060
    current ET dice: 0.4708
Best Mean Metric: 0.4787
time consuming of epoch 38 is: 1569.0713
-----
epoch 39/100
TRAIN
    Batch 1/248, train_loss: 0.1095, step time: 1.0360
    Batch 2/248, train_loss: 0.8953, step time: 1.0278
    Batch 3/248, train_loss: 0.3550, step time: 1.0262
    Batch 4/248, train_loss: 0.9543, step time: 1.0298
    Batch 5/248, train_loss: 0.2129, step time: 1.0322
    Batch 6/248, train_loss: 0.5920, step time: 1.0297
    Batch 7/248, train_loss: 0.0952, step time: 1.0254
    Batch 8/248, train_loss: 0.7090, step time: 1.0272
    Batch 9/248, train_loss: 0.0522, step time: 1.0255
    Batch 10/248, train_loss: 0.2597, step time: 1.0328
    Batch 11/248, train_loss: 0.2058, step time: 1.0286
    Batch 12/248, train_loss: 0.6331, step time: 1.0305
    Batch 13/248, train_loss: 0.3494, step time: 1.0311
    Batch 14/248, train_loss: 0.0548, step time: 1.0255
    Batch 15/248, train_loss: 0.3267, step time: 1.0253
    Batch 16/248, train_loss: 0.1455, step time: 1.0264
    Batch 17/248, train_loss: 0.3461, step time: 1.0299
    Batch 18/248, train_loss: 0.5063, step time: 1.0313
    Batch 19/248, train_loss: 0.1852, step time: 1.0287
    Batch 20/248, train_loss: 0.1247, step time: 1.0274
    Batch 21/248, train_loss: 0.0616, step time: 1.0277
    Batch 22/248, train_loss: 0.9760, step time: 1.0271
    Batch 23/248, train_loss: 0.9959, step time: 1.0263
    Batch 24/248, train_loss: 0.0866, step time: 1.0276
    Batch 25/248, train_loss: 0.0714, step time: 1.0251
    Batch 26/248, train_loss: 0.5527, step time: 1.0333
    Batch 27/248, train_loss: 0.0670, step time: 1.0257
    Batch 28/248, train_loss: 0.1478, step time: 1.0291
    Batch 29/248, train_loss: 0.4292, step time: 1.0331
    Batch 30/248, train_loss: 0.2621, step time: 1.0312
    Batch 31/248, train_loss: 0.3573, step time: 1.0324
    Batch 32/248, train_loss: 0.0963, step time: 1.0270
    Batch 33/248, train_loss: 0.0684, step time: 1.0266
    Batch 34/248, train_loss: 0.0433, step time: 1.0232
    Batch 35/248, train_loss: 0.0478, step time: 1.0250
    Batch 36/248, train_loss: 0.5256, step time: 1.0293
    Batch 37/248, train_loss: 0.1796, step time: 1.0255
    Batch 38/248, train_loss: 0.2908, step time: 1.0270
    Batch 39/248, train_loss: 0.1224, step time: 1.0276
    Batch 40/248, train_loss: 0.9789, step time: 1.0252
    Batch 41/248, train_loss: 0.2360, step time: 1.0266
    Batch 42/248, train_loss: 0.0725, step time: 1.0257
    Batch 43/248, train_loss: 0.0576, step time: 1.0254
    Batch 44/248, train_loss: 0.3463, step time: 1.0294
```

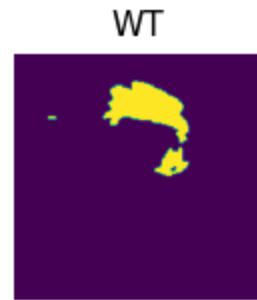
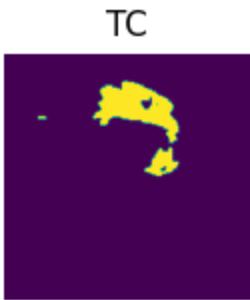
Batch 45/248, train_loss: 0.3999, step time: 1.0287
Batch 46/248, train_loss: 0.1969, step time: 1.0295
Batch 47/248, train_loss: 0.0847, step time: 1.0304
Batch 48/248, train_loss: 0.2442, step time: 1.0271
Batch 49/248, train_loss: 0.5334, step time: 1.0295
Batch 50/248, train_loss: 0.1391, step time: 1.0278
Batch 51/248, train_loss: 0.1404, step time: 1.0290
Batch 52/248, train_loss: 0.1076, step time: 1.0271
Batch 53/248, train_loss: 0.4371, step time: 1.0305
Batch 54/248, train_loss: 0.2396, step time: 1.0265
Batch 55/248, train_loss: 0.3547, step time: 1.0293
Batch 56/248, train_loss: 0.2524, step time: 1.0288
Batch 57/248, train_loss: 0.3174, step time: 1.0315
Batch 58/248, train_loss: 0.0872, step time: 1.0261
Batch 59/248, train_loss: 0.0906, step time: 1.0264
Batch 60/248, train_loss: 0.0577, step time: 1.0222
Batch 61/248, train_loss: 0.1054, step time: 1.0256
Batch 62/248, train_loss: 0.2661, step time: 1.0284
Batch 63/248, train_loss: 0.7904, step time: 1.0293
Batch 64/248, train_loss: 0.4338, step time: 1.0310
Batch 65/248, train_loss: 0.4539, step time: 1.0313
Batch 66/248, train_loss: 0.1584, step time: 1.0331
Batch 67/248, train_loss: 0.0719, step time: 1.0244
Batch 68/248, train_loss: 0.1238, step time: 1.0307
Batch 69/248, train_loss: 0.8039, step time: 1.0317
Batch 70/248, train_loss: 0.1437, step time: 1.0289
Batch 71/248, train_loss: 0.1789, step time: 1.0269
Batch 72/248, train_loss: 0.0611, step time: 1.0264
Batch 73/248, train_loss: 0.3791, step time: 1.0292
Batch 74/248, train_loss: 0.9961, step time: 1.0247
Batch 75/248, train_loss: 0.1356, step time: 1.0239
Batch 76/248, train_loss: 0.7158, step time: 1.0311
Batch 77/248, train_loss: 0.9113, step time: 1.0317
Batch 78/248, train_loss: 0.1596, step time: 1.0287
Batch 79/248, train_loss: 0.1292, step time: 1.0283
Batch 80/248, train_loss: 0.2001, step time: 1.0299
Batch 81/248, train_loss: 0.1829, step time: 1.0328
Batch 82/248, train_loss: 0.0846, step time: 1.0282
Batch 83/248, train_loss: 0.6054, step time: 1.0283
Batch 84/248, train_loss: 0.2962, step time: 1.0279
Batch 85/248, train_loss: 0.7240, step time: 1.0286
Batch 86/248, train_loss: 0.3630, step time: 1.0298
Batch 87/248, train_loss: 0.4959, step time: 1.0291
Batch 88/248, train_loss: 0.4130, step time: 1.0314
Batch 89/248, train_loss: 0.1063, step time: 1.0267
Batch 90/248, train_loss: 0.3214, step time: 1.0303
Batch 91/248, train_loss: 0.5703, step time: 1.0301
Batch 92/248, train_loss: 0.3419, step time: 1.0288
Batch 93/248, train_loss: 0.1616, step time: 1.0305
Batch 94/248, train_loss: 0.4609, step time: 1.0314
Batch 95/248, train_loss: 0.1755, step time: 1.0256
Batch 96/248, train_loss: 0.2108, step time: 1.0281
Batch 97/248, train_loss: 0.6779, step time: 1.0309
Batch 98/248, train_loss: 0.1220, step time: 1.0280
Batch 99/248, train_loss: 0.3503, step time: 1.0278
Batch 100/248, train_loss: 0.3085, step time: 1.0297

Batch 101/248, train_loss: 0.0539, step time: 1.0254
Batch 102/248, train_loss: 0.1129, step time: 1.0282
Batch 103/248, train_loss: 0.8117, step time: 1.0307
Batch 104/248, train_loss: 0.4987, step time: 1.0281
Batch 105/248, train_loss: 0.0874, step time: 1.0226
Batch 106/248, train_loss: 0.1519, step time: 1.0278
Batch 107/248, train_loss: 0.2480, step time: 1.0311
Batch 108/248, train_loss: 0.6632, step time: 1.0324
Batch 109/248, train_loss: 0.9977, step time: 1.0235
Batch 110/248, train_loss: 0.2649, step time: 1.0326
Batch 111/248, train_loss: 0.1058, step time: 1.0285
Batch 112/248, train_loss: 0.1425, step time: 1.0308
Batch 113/248, train_loss: 0.9345, step time: 1.0303
Batch 114/248, train_loss: 0.1416, step time: 1.0253
Batch 115/248, train_loss: 0.2159, step time: 1.0294
Batch 116/248, train_loss: 0.0975, step time: 1.0267
Batch 117/248, train_loss: 0.7533, step time: 1.0289
Batch 118/248, train_loss: 0.7857, step time: 1.0263
Batch 119/248, train_loss: 0.3645, step time: 1.0262
Batch 120/248, train_loss: 0.2376, step time: 1.0282
Batch 121/248, train_loss: 0.4311, step time: 1.0273
Batch 122/248, train_loss: 0.3761, step time: 1.0347
Batch 123/248, train_loss: 0.0808, step time: 1.0260
Batch 124/248, train_loss: 0.3609, step time: 1.0321
Batch 125/248, train_loss: 0.7208, step time: 1.0296
Batch 126/248, train_loss: 0.2608, step time: 1.0320
Batch 127/248, train_loss: 0.1063, step time: 1.0278
Batch 128/248, train_loss: 0.4027, step time: 1.0318
Batch 129/248, train_loss: 0.1298, step time: 1.0271
Batch 130/248, train_loss: 0.1172, step time: 1.0294
Batch 131/248, train_loss: 0.6358, step time: 1.0368
Batch 132/248, train_loss: 0.5576, step time: 1.0299
Batch 133/248, train_loss: 0.1897, step time: 1.0260
Batch 134/248, train_loss: 0.8432, step time: 1.0295
Batch 135/248, train_loss: 0.5807, step time: 1.0280
Batch 136/248, train_loss: 0.1065, step time: 1.0235
Batch 137/248, train_loss: 0.1401, step time: 1.0250
Batch 138/248, train_loss: 0.0669, step time: 1.0271
Batch 139/248, train_loss: 0.2182, step time: 1.0258
Batch 140/248, train_loss: 0.1890, step time: 1.0285
Batch 141/248, train_loss: 0.2048, step time: 1.0274
Batch 142/248, train_loss: 0.6196, step time: 1.0321
Batch 143/248, train_loss: 0.2990, step time: 1.0290
Batch 144/248, train_loss: 0.1246, step time: 1.0301
Batch 145/248, train_loss: 0.0528, step time: 1.0253
Batch 146/248, train_loss: 0.9840, step time: 1.0269
Batch 147/248, train_loss: 0.0384, step time: 1.0253
Batch 148/248, train_loss: 0.7648, step time: 1.0312
Batch 149/248, train_loss: 0.1145, step time: 1.0273
Batch 150/248, train_loss: 0.6899, step time: 1.0298
Batch 151/248, train_loss: 0.4296, step time: 1.0339
Batch 152/248, train_loss: 0.0437, step time: 1.0253
Batch 153/248, train_loss: 0.3636, step time: 1.0292
Batch 154/248, train_loss: 0.7654, step time: 1.0320
Batch 155/248, train_loss: 0.1591, step time: 1.0325
Batch 156/248, train_loss: 0.2816, step time: 1.0343
Batch 157/248. train loss: 0.2516. step time: 1.0308

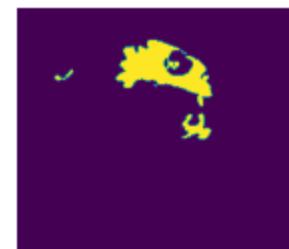
```
Batch 158/248, train_loss: 0.9868, step time: 1.0278
Batch 159/248, train_loss: 0.4862, step time: 1.0341
Batch 160/248, train_loss: 0.0963, step time: 1.0272
Batch 161/248, train_loss: 0.1056, step time: 1.0276
Batch 162/248, train_loss: 0.0862, step time: 1.0280
Batch 163/248, train_loss: 0.1707, step time: 1.0311
Batch 164/248, train_loss: 0.2649, step time: 1.0269
Batch 165/248, train_loss: 0.9389, step time: 1.0282
Batch 166/248, train_loss: 0.0996, step time: 1.0270
Batch 167/248, train_loss: 0.1906, step time: 1.0278
Batch 168/248, train_loss: 0.1655, step time: 1.0249
Batch 169/248, train_loss: 0.0865, step time: 1.0273
Batch 170/248, train_loss: 0.6224, step time: 1.0320
Batch 171/248, train_loss: 0.0947, step time: 1.0279
Batch 172/248, train_loss: 0.6806, step time: 1.0308
Batch 173/248, train_loss: 0.0860, step time: 1.0302
Batch 174/248, train_loss: 0.6561, step time: 1.0283
Batch 175/248, train_loss: 0.1662, step time: 1.0277
Batch 176/248, train_loss: 0.3912, step time: 1.0316
Batch 177/248, train_loss: 0.3183, step time: 1.0289
Batch 178/248, train_loss: 0.4630, step time: 1.0307
Batch 179/248, train_loss: 0.0961, step time: 1.0298
Batch 180/248, train_loss: 0.3674, step time: 1.0281
Batch 181/248, train_loss: 0.1225, step time: 1.0255
Batch 182/248, train_loss: 0.9408, step time: 1.0259
Batch 183/248, train_loss: 0.1662, step time: 1.0260
Batch 184/248, train_loss: 0.7692, step time: 1.0260
Batch 185/248, train_loss: 0.1025, step time: 1.0294
Batch 186/248, train_loss: 0.1179, step time: 1.0287
Batch 187/248, train_loss: 0.1862, step time: 1.0257
Batch 188/248, train_loss: 0.2183, step time: 1.0277
Batch 189/248, train_loss: 0.5949, step time: 1.0290
Batch 190/248, train_loss: 0.1574, step time: 1.0253
Batch 191/248, train_loss: 0.6404, step time: 1.0267
Batch 192/248, train_loss: 0.2584, step time: 1.0266
Batch 193/248, train_loss: 0.2867, step time: 1.0297
Batch 194/248, train_loss: 0.0830, step time: 1.0263
Batch 195/248, train_loss: 0.7396, step time: 1.0271
Batch 196/248, train_loss: 0.9997, step time: 1.0216
Batch 197/248, train_loss: 0.1994, step time: 1.0283
Batch 198/248, train_loss: 0.9719, step time: 1.0283
Batch 199/248, train_loss: 0.1517, step time: 1.0288
Batch 200/248, train_loss: 0.1344, step time: 1.0285
Batch 201/248, train_loss: 0.1338, step time: 1.0245
Batch 202/248, train_loss: 0.3494, step time: 1.0306
Batch 203/248, train_loss: 0.6074, step time: 1.0302
Batch 204/248, train_loss: 0.0833, step time: 1.0227
Batch 205/248, train_loss: 0.2665, step time: 1.0269
Batch 206/248, train_loss: 0.6516, step time: 1.0292
Batch 207/248, train_loss: 0.0910, step time: 1.0287
Batch 208/248, train_loss: 0.1595, step time: 1.0297
Batch 209/248, train_loss: 0.1653, step time: 1.0302
Batch 210/248, train_loss: 0.0609, step time: 1.0269
Batch 211/248, train_loss: 0.0660, step time: 1.0245
Batch 212/248, train_loss: 0.2379, step time: 1.0271
Batch 213/248, train_loss: 0.1417, step time: 1.0309
```

```
Batch 214/248, train_loss: 0.0771, step time: 1.0271
Batch 215/248, train_loss: 0.2746, step time: 1.0317
Batch 216/248, train_loss: 0.1343, step time: 1.0293
Batch 217/248, train_loss: 0.5107, step time: 1.0330
Batch 218/248, train_loss: 0.8154, step time: 1.0282
Batch 219/248, train_loss: 0.0708, step time: 1.0289
Batch 220/248, train_loss: 0.2373, step time: 1.0314
Batch 221/248, train_loss: 0.3089, step time: 1.0322
Batch 222/248, train_loss: 0.2517, step time: 1.0305
Batch 223/248, train_loss: 0.0436, step time: 1.0248
Batch 224/248, train_loss: 0.0767, step time: 1.0242
Batch 225/248, train_loss: 0.2849, step time: 1.0270
Batch 226/248, train_loss: 0.2792, step time: 1.0271
Batch 227/248, train_loss: 0.1109, step time: 1.0249
Batch 228/248, train_loss: 0.1710, step time: 1.0229
Batch 229/248, train_loss: 0.1394, step time: 1.0261
Batch 230/248, train_loss: 0.0652, step time: 1.0251
Batch 231/248, train_loss: 0.4325, step time: 1.0308
Batch 232/248, train_loss: 0.0708, step time: 1.0286
Batch 233/248, train_loss: 0.9724, step time: 1.0274
Batch 234/248, train_loss: 0.5699, step time: 1.0339
Batch 235/248, train_loss: 0.5039, step time: 1.0323
Batch 236/248, train_loss: 0.8074, step time: 1.0306
Batch 237/248, train_loss: 0.1098, step time: 1.0276
Batch 238/248, train_loss: 0.1059, step time: 1.0298
Batch 239/248, train_loss: 0.0806, step time: 1.0264
Batch 240/248, train_loss: 0.3437, step time: 1.0326
Batch 241/248, train_loss: 0.7773, step time: 1.0314
Batch 242/248, train_loss: 0.2258, step time: 1.0275
Batch 243/248, train_loss: 0.6814, step time: 1.0289
Batch 244/248, train_loss: 0.5917, step time: 1.0293
Batch 245/248, train_loss: 0.0623, step time: 1.0238
Batch 246/248, train_loss: 0.6118, step time: 1.0280
Batch 247/248, train_loss: 0.0786, step time: 1.0225
Batch 248/248, train_loss: 0.9996, step time: 1.0197
```

Labels



Predictions

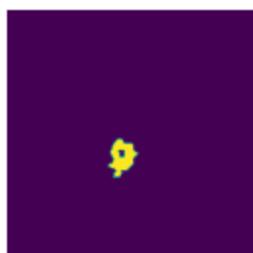


VAL

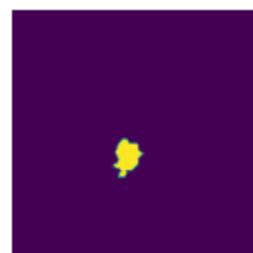
```
Batch 1/31, val_loss: 0.9171
Batch 2/31, val_loss: 0.9922
Batch 3/31, val_loss: 0.9637
Batch 4/31, val_loss: 0.9451
Batch 5/31, val_loss: 0.9920
Batch 6/31, val_loss: 0.6941
Batch 7/31, val_loss: 0.8286
Batch 8/31, val_loss: 0.9516
Batch 9/31, val_loss: 0.6917
Batch 10/31, val_loss: 0.9113
Batch 11/31, val_loss: 0.8262
Batch 12/31, val_loss: 0.9772
Batch 13/31, val_loss: 0.9812
Batch 14/31, val_loss: 0.9437
Batch 15/31, val_loss: 0.9941
Batch 16/31, val_loss: 0.9767
Batch 17/31, val_loss: 0.9734
Batch 18/31, val_loss: 0.9324
Batch 19/31, val_loss: 0.7437
Batch 20/31, val_loss: 0.8770
Batch 21/31, val_loss: 0.8665
Batch 22/31, val_loss: 0.9813
Batch 23/31, val_loss: 0.9815
Batch 24/31, val_loss: 0.7442
Batch 25/31, val_loss: 0.8044
Batch 26/31, val_loss: 0.9190
Batch 27/31, val_loss: 0.9706
Batch 28/31, val_loss: 0.7499
Batch 29/31, val_loss: 0.9922
Batch 30/31, val_loss: 0.9575
Batch 31/31, val_loss: 0.9800
```

Labels

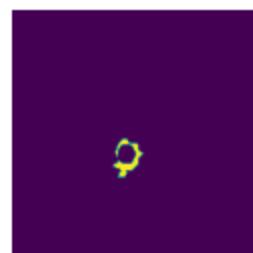
TC



WT



ET

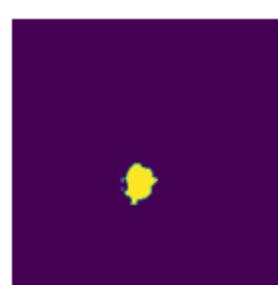


Predictions

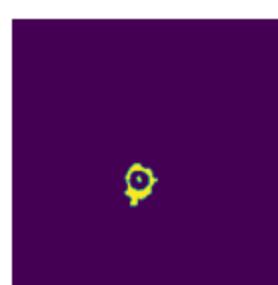
TC



WT



ET



```
epoch 39
    average train loss: 0.3338
    average validation loss: 0.9052
    saved as best model: False
    current mean dice: 0.4558
    current TC dice: 0.4711
    current WT dice: 0.4801
    current ET dice: 0.4575
Best Mean Metric: 0.4787
time consuming of epoch 39 is: 1564.1439
-----
epoch 40/100
TRAIN
    Batch 1/248, train_loss: 0.0812, step time: 1.0280
    Batch 2/248, train_loss: 0.8513, step time: 1.0344
    Batch 3/248, train_loss: 0.3460, step time: 1.0287
    Batch 4/248, train_loss: 0.9636, step time: 1.0273
    Batch 5/248, train_loss: 0.2107, step time: 1.0273
    Batch 6/248, train_loss: 0.5026, step time: 1.0292
    Batch 7/248, train_loss: 0.0645, step time: 1.0236
    Batch 8/248, train_loss: 0.7017, step time: 1.0282
    Batch 9/248, train_loss: 0.0453, step time: 1.0273
    Batch 10/248, train_loss: 0.2554, step time: 1.0298
    Batch 11/248, train_loss: 0.2254, step time: 1.0310
    Batch 12/248, train_loss: 0.7086, step time: 1.0302
    Batch 13/248, train_loss: 0.3302, step time: 1.0285
    Batch 14/248, train_loss: 0.0552, step time: 1.0246
    Batch 15/248, train_loss: 0.3355, step time: 1.0298
    Batch 16/248, train_loss: 0.1438, step time: 1.0266
    Batch 17/248, train_loss: 0.3429, step time: 1.0290
    Batch 18/248, train_loss: 0.5308, step time: 1.0287
    Batch 19/248, train_loss: 0.1613, step time: 1.0282
    Batch 20/248, train_loss: 0.1979, step time: 1.0264
    Batch 21/248, train_loss: 0.0685, step time: 1.0274
    Batch 22/248, train_loss: 0.9352, step time: 1.0327
    Batch 23/248, train_loss: 0.9959, step time: 1.0227
    Batch 24/248, train_loss: 0.0928, step time: 1.0283
    Batch 25/248, train_loss: 0.0716, step time: 1.0275
    Batch 26/248, train_loss: 0.7783, step time: 1.0330
    Batch 27/248, train_loss: 0.0713, step time: 1.0236
    Batch 28/248, train_loss: 0.1572, step time: 1.0280
    Batch 29/248, train_loss: 0.4441, step time: 1.0286
    Batch 30/248, train_loss: 0.6330, step time: 1.0308
    Batch 31/248, train_loss: 0.3097, step time: 1.0303
    Batch 32/248, train_loss: 0.0912, step time: 1.0289
    Batch 33/248, train_loss: 0.0791, step time: 1.0266
    Batch 34/248, train_loss: 0.0434, step time: 1.0253
    Batch 35/248, train_loss: 0.0457, step time: 1.0240
    Batch 36/248, train_loss: 0.5982, step time: 1.0302
    Batch 37/248, train_loss: 0.1721, step time: 1.0265
    Batch 38/248, train_loss: 0.2933, step time: 1.0266
    Batch 39/248, train_loss: 0.1696, step time: 1.0245
    Batch 40/248, train_loss: 0.9779, step time: 1.0256
    Batch 41/248, train_loss: 0.3126, step time: 1.0265
    Batch 42/248, train_loss: 0.0658, step time: 1.0269
    Batch 43/248, train_loss: 0.0511, step time: 1.0262
    Batch 44/248, train_loss: 0.1525, step time: 1.0267
```

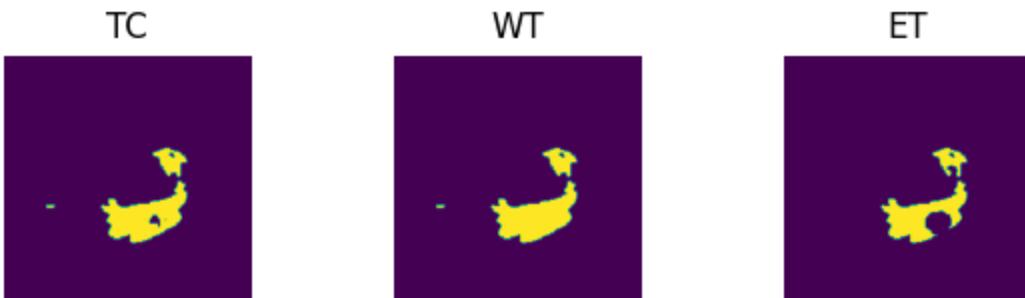
Batch 44/248, train_loss: 0.4332, step time: 1.0315
Batch 45/248, train_loss: 0.1960, step time: 1.0278
Batch 46/248, train_loss: 0.0852, step time: 1.0282
Batch 47/248, train_loss: 0.2635, step time: 1.0273
Batch 49/248, train_loss: 0.4591, step time: 1.0284
Batch 50/248, train_loss: 0.1386, step time: 1.0278
Batch 51/248, train_loss: 0.1453, step time: 1.0272
Batch 52/248, train_loss: 0.1158, step time: 1.0281
Batch 53/248, train_loss: 0.3925, step time: 1.0317
Batch 54/248, train_loss: 0.2410, step time: 1.0287
Batch 55/248, train_loss: 0.4397, step time: 1.0294
Batch 56/248, train_loss: 0.2483, step time: 1.0298
Batch 57/248, train_loss: 0.3142, step time: 1.0268
Batch 58/248, train_loss: 0.0928, step time: 1.0263
Batch 59/248, train_loss: 0.0887, step time: 1.0228
Batch 60/248, train_loss: 0.0569, step time: 1.0238
Batch 61/248, train_loss: 0.1047, step time: 1.0240
Batch 62/248, train_loss: 0.2113, step time: 1.0282
Batch 63/248, train_loss: 0.6837, step time: 1.0281
Batch 64/248, train_loss: 0.4554, step time: 1.0306
Batch 65/248, train_loss: 0.5747, step time: 1.0299
Batch 66/248, train_loss: 0.1626, step time: 1.0266
Batch 67/248, train_loss: 0.0709, step time: 1.0254
Batch 68/248, train_loss: 0.1212, step time: 1.0283
Batch 69/248, train_loss: 0.5083, step time: 1.0306
Batch 70/248, train_loss: 0.1394, step time: 1.0278
Batch 71/248, train_loss: 0.1287, step time: 1.0286
Batch 72/248, train_loss: 0.0562, step time: 1.0218
Batch 73/248, train_loss: 0.2052, step time: 1.0283
Batch 74/248, train_loss: 0.9964, step time: 1.0226
Batch 75/248, train_loss: 0.1208, step time: 1.0278
Batch 76/248, train_loss: 0.6159, step time: 1.0286
Batch 77/248, train_loss: 0.8236, step time: 1.0265
Batch 78/248, train_loss: 0.1349, step time: 1.0254
Batch 79/248, train_loss: 0.1343, step time: 1.0262
Batch 80/248, train_loss: 0.1904, step time: 1.0246
Batch 81/248, train_loss: 0.1830, step time: 1.0278
Batch 82/248, train_loss: 0.0837, step time: 1.0286
Batch 83/248, train_loss: 0.6073, step time: 1.0321
Batch 84/248, train_loss: 0.2885, step time: 1.0319
Batch 85/248, train_loss: 0.4227, step time: 1.0284
Batch 86/248, train_loss: 0.3917, step time: 1.0292
Batch 87/248, train_loss: 0.4967, step time: 1.0277
Batch 88/248, train_loss: 0.3765, step time: 1.0314
Batch 89/248, train_loss: 0.0988, step time: 1.0255
Batch 90/248, train_loss: 0.3495, step time: 1.0274
Batch 91/248, train_loss: 0.6153, step time: 1.0312
Batch 92/248, train_loss: 0.3626, step time: 1.0265
Batch 93/248, train_loss: 0.1519, step time: 1.0274
Batch 94/248, train_loss: 0.4267, step time: 1.0285
Batch 95/248, train_loss: 0.1731, step time: 1.0264
Batch 96/248, train_loss: 0.2101, step time: 1.0273
Batch 97/248, train_loss: 0.5951, step time: 1.0281
Batch 98/248, train_loss: 0.1408, step time: 1.0311
Batch 99/248, train_loss: 0.3344, step time: 1.0296
Batch 100/248, train_loss: 0.4191, step time: 1.0357

Batch 101/248, train_loss: 0.0614, step time: 1.0256
Batch 102/248, train_loss: 0.1301, step time: 1.0286
Batch 103/248, train_loss: 0.3919, step time: 1.0282
Batch 104/248, train_loss: 0.3567, step time: 1.0317
Batch 105/248, train_loss: 0.0920, step time: 1.0267
Batch 106/248, train_loss: 0.2322, step time: 1.0323
Batch 107/248, train_loss: 0.2502, step time: 1.0285
Batch 108/248, train_loss: 0.5586, step time: 1.0300
Batch 109/248, train_loss: 0.9797, step time: 1.0282
Batch 110/248, train_loss: 0.2532, step time: 1.0283
Batch 111/248, train_loss: 0.0961, step time: 1.0276
Batch 112/248, train_loss: 0.1027, step time: 1.0276
Batch 113/248, train_loss: 0.8633, step time: 1.0312
Batch 114/248, train_loss: 0.1463, step time: 1.0256
Batch 115/248, train_loss: 0.2174, step time: 1.0280
Batch 116/248, train_loss: 0.0992, step time: 1.0254
Batch 117/248, train_loss: 0.8298, step time: 1.0299
Batch 118/248, train_loss: 0.7803, step time: 1.0288
Batch 119/248, train_loss: 0.2978, step time: 1.0255
Batch 120/248, train_loss: 0.2489, step time: 1.0255
Batch 121/248, train_loss: 0.3487, step time: 1.0277
Batch 122/248, train_loss: 0.4572, step time: 1.0287
Batch 123/248, train_loss: 0.0953, step time: 1.0267
Batch 124/248, train_loss: 0.2873, step time: 1.0276
Batch 125/248, train_loss: 0.7631, step time: 1.0319
Batch 126/248, train_loss: 0.2094, step time: 1.0315
Batch 127/248, train_loss: 0.0962, step time: 1.0294
Batch 128/248, train_loss: 0.3544, step time: 1.0304
Batch 129/248, train_loss: 0.1229, step time: 1.0295
Batch 130/248, train_loss: 0.1048, step time: 1.0270
Batch 131/248, train_loss: 0.6627, step time: 1.0329
Batch 132/248, train_loss: 0.5662, step time: 1.0273
Batch 133/248, train_loss: 0.1698, step time: 1.0248
Batch 134/248, train_loss: 0.9395, step time: 1.0280
Batch 135/248, train_loss: 0.3676, step time: 1.0289
Batch 136/248, train_loss: 0.1126, step time: 1.0265
Batch 137/248, train_loss: 0.1492, step time: 1.0259
Batch 138/248, train_loss: 0.0700, step time: 1.0259
Batch 139/248, train_loss: 0.3433, step time: 1.0262
Batch 140/248, train_loss: 0.2596, step time: 1.0279
Batch 141/248, train_loss: 0.3386, step time: 1.0315
Batch 142/248, train_loss: 0.5167, step time: 1.0285
Batch 143/248, train_loss: 0.2458, step time: 1.0306
Batch 144/248, train_loss: 0.1220, step time: 1.0257
Batch 145/248, train_loss: 0.0811, step time: 1.0269
Batch 146/248, train_loss: 0.9675, step time: 1.0285
Batch 147/248, train_loss: 0.0410, step time: 1.0251
Batch 148/248, train_loss: 0.8468, step time: 1.0264
Batch 149/248, train_loss: 0.1065, step time: 1.0287
Batch 150/248, train_loss: 0.6775, step time: 1.0276
Batch 151/248, train_loss: 0.4940, step time: 1.0285
Batch 152/248, train_loss: 0.0421, step time: 1.0250
Batch 153/248, train_loss: 0.3223, step time: 1.0269
Batch 154/248, train_loss: 0.8112, step time: 1.0307
Batch 155/248, train_loss: 0.1541, step time: 1.0306
Batch 156/248, train_loss: 0.2073, step time: 1.0288
Batch 157/248, train_loss: 0.2222, step time: 1.0282

Batch 157/248, train_loss: 0.2502, step time: 1.0202
Batch 158/248, train_loss: 0.9902, step time: 1.0255
Batch 159/248, train_loss: 0.6212, step time: 1.0329
Batch 160/248, train_loss: 0.0974, step time: 1.0288
Batch 161/248, train_loss: 0.1013, step time: 1.0281
Batch 162/248, train_loss: 0.0975, step time: 1.0269
Batch 163/248, train_loss: 0.1814, step time: 1.0309
Batch 164/248, train_loss: 0.2747, step time: 1.0279
Batch 165/248, train_loss: 0.8640, step time: 1.0297
Batch 166/248, train_loss: 0.1006, step time: 1.0276
Batch 167/248, train_loss: 0.1846, step time: 1.0286
Batch 168/248, train_loss: 0.1601, step time: 1.0245
Batch 169/248, train_loss: 0.0950, step time: 1.0277
Batch 170/248, train_loss: 0.7259, step time: 1.0298
Batch 171/248, train_loss: 0.1062, step time: 1.0269
Batch 172/248, train_loss: 0.8880, step time: 1.0294
Batch 173/248, train_loss: 0.0944, step time: 1.0268
Batch 174/248, train_loss: 0.8846, step time: 1.0278
Batch 175/248, train_loss: 0.2188, step time: 1.0303
Batch 176/248, train_loss: 0.4389, step time: 1.0301
Batch 177/248, train_loss: 0.3148, step time: 1.0281
Batch 178/248, train_loss: 0.4399, step time: 1.0324
Batch 179/248, train_loss: 0.1037, step time: 1.0280
Batch 180/248, train_loss: 0.3877, step time: 1.0278
Batch 181/248, train_loss: 0.1141, step time: 1.0269
Batch 182/248, train_loss: 0.9748, step time: 1.0262
Batch 183/248, train_loss: 0.1610, step time: 1.0299
Batch 184/248, train_loss: 0.7040, step time: 1.0278
Batch 185/248, train_loss: 0.0961, step time: 1.0306
Batch 186/248, train_loss: 0.1290, step time: 1.0243
Batch 187/248, train_loss: 0.2024, step time: 1.0252
Batch 188/248, train_loss: 0.2306, step time: 1.0278
Batch 189/248, train_loss: 0.7064, step time: 1.0296
Batch 190/248, train_loss: 0.1551, step time: 1.0278
Batch 191/248, train_loss: 0.6581, step time: 1.0273
Batch 192/248, train_loss: 0.2813, step time: 1.0316
Batch 193/248, train_loss: 0.2943, step time: 1.0298
Batch 194/248, train_loss: 0.0745, step time: 1.0248
Batch 195/248, train_loss: 0.6875, step time: 1.0290
Batch 196/248, train_loss: 0.9996, step time: 1.0192
Batch 197/248, train_loss: 0.1861, step time: 1.0282
Batch 198/248, train_loss: 0.9427, step time: 1.0286
Batch 199/248, train_loss: 0.1676, step time: 1.0272
Batch 200/248, train_loss: 0.1399, step time: 1.0286
Batch 201/248, train_loss: 0.1296, step time: 1.0269
Batch 202/248, train_loss: 0.3685, step time: 1.0302
Batch 203/248, train_loss: 0.5456, step time: 1.0295
Batch 204/248, train_loss: 0.0739, step time: 1.0249
Batch 205/248, train_loss: 0.2595, step time: 1.0315
Batch 206/248, train_loss: 0.5277, step time: 1.0297
Batch 207/248, train_loss: 0.0974, step time: 1.0273
Batch 208/248, train_loss: 0.1977, step time: 1.0278
Batch 209/248, train_loss: 0.1716, step time: 1.0275
Batch 210/248, train_loss: 0.0587, step time: 1.0264
Batch 211/248, train_loss: 0.0609, step time: 1.0246
Batch 212/248, train_loss: 0.4099, step time: 1.0271
Batch 213/248, train_loss: 0.1401, step time: 1.0273

```
Batch 214/248, train_loss: 0.0755, step time: 1.0266
Batch 215/248, train_loss: 0.2052, step time: 1.0282
Batch 216/248, train_loss: 0.1569, step time: 1.0276
Batch 217/248, train_loss: 0.2927, step time: 1.0319
Batch 218/248, train_loss: 0.7979, step time: 1.0292
Batch 219/248, train_loss: 0.0650, step time: 1.0269
Batch 220/248, train_loss: 0.2143, step time: 1.0285
Batch 221/248, train_loss: 0.2834, step time: 1.0289
Batch 222/248, train_loss: 0.2411, step time: 1.0271
Batch 223/248, train_loss: 0.0410, step time: 1.0256
Batch 224/248, train_loss: 0.0788, step time: 1.0260
Batch 225/248, train_loss: 0.2909, step time: 1.0289
Batch 226/248, train_loss: 0.1577, step time: 1.0267
Batch 227/248, train_loss: 0.0936, step time: 1.0256
Batch 228/248, train_loss: 0.1434, step time: 1.0285
Batch 229/248, train_loss: 0.1028, step time: 1.0237
Batch 230/248, train_loss: 0.0671, step time: 1.0263
Batch 231/248, train_loss: 0.8370, step time: 1.0312
Batch 232/248, train_loss: 0.0788, step time: 1.0254
Batch 233/248, train_loss: 0.9590, step time: 1.0252
Batch 234/248, train_loss: 0.5701, step time: 1.0335
Batch 235/248, train_loss: 0.5226, step time: 1.0329
Batch 236/248, train_loss: 0.7915, step time: 1.0311
Batch 237/248, train_loss: 0.1044, step time: 1.0285
Batch 238/248, train_loss: 0.1078, step time: 1.0304
Batch 239/248, train_loss: 0.0701, step time: 1.0268
Batch 240/248, train_loss: 0.2790, step time: 1.0304
Batch 241/248, train_loss: 0.6643, step time: 1.0299
Batch 242/248, train_loss: 0.2117, step time: 1.0315
Batch 243/248, train_loss: 0.6404, step time: 1.0287
Batch 244/248, train_loss: 0.5241, step time: 1.0279
Batch 245/248, train_loss: 0.0630, step time: 1.0244
Batch 246/248, train_loss: 0.5921, step time: 1.0316
Batch 247/248, train_loss: 0.0783, step time: 1.0253
Batch 248/248, train_loss: 0.9997, step time: 1.0198
```

Labels



Predictions

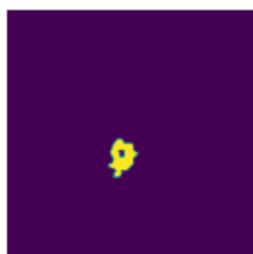


VAL

Batch 1/31, val_loss: 0.9363
Batch 2/31, val_loss: 0.9913
Batch 3/31, val_loss: 0.9627
Batch 4/31, val_loss: 0.9440
Batch 5/31, val_loss: 0.9918
Batch 6/31, val_loss: 0.7045
Batch 7/31, val_loss: 0.8300
Batch 8/31, val_loss: 0.9596
Batch 9/31, val_loss: 0.6933
Batch 10/31, val_loss: 0.9068
Batch 11/31, val_loss: 0.8258
Batch 12/31, val_loss: 0.9759
Batch 13/31, val_loss: 0.9808
Batch 14/31, val_loss: 0.9406
Batch 15/31, val_loss: 0.9915
Batch 16/31, val_loss: 0.9749
Batch 17/31, val_loss: 0.9738
Batch 18/31, val_loss: 0.9364
Batch 19/31, val_loss: 0.7445
Batch 20/31, val_loss: 0.8686
Batch 21/31, val_loss: 0.8671
Batch 22/31, val_loss: 0.9790
Batch 23/31, val_loss: 0.9800
Batch 24/31, val_loss: 0.7485
Batch 25/31, val_loss: 0.8026
Batch 26/31, val_loss: 0.9189
Batch 27/31, val_loss: 0.9740
Batch 28/31, val_loss: 0.7495
Batch 29/31, val_loss: 0.9883
Batch 30/31, val_loss: 0.9563
Batch 31/31, val_loss: 0.9798

Labels

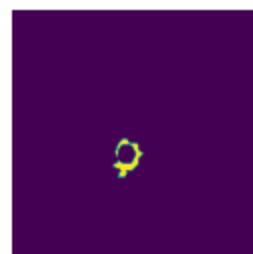
TC



WT



ET



Predictions

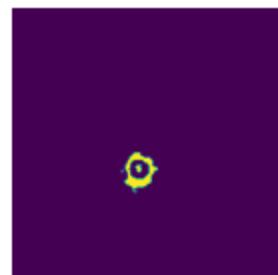
TC



WT



ET



```
epoch 40
    average train loss: 0.3304
    average validation loss: 0.9057
    saved as best model: False
    current mean dice: 0.4759
    current TC dice: 0.5002
    current WT dice: 0.5046
    current ET dice: 0.4638
Best Mean Metric: 0.4787
time consuming of epoch 40 is: 1549.6935
-----
epoch 41/100
TRAIN
    Batch 1/248, train_loss: 0.0766, step time: 1.0283
    Batch 2/248, train_loss: 0.7788, step time: 1.0301
    Batch 3/248, train_loss: 0.3360, step time: 1.0287
    Batch 4/248, train_loss: 0.9207, step time: 1.0305
    Batch 5/248, train_loss: 0.2027, step time: 1.0276
    Batch 6/248, train_loss: 0.5695, step time: 1.0301
    Batch 7/248, train_loss: 0.0634, step time: 1.0262
    Batch 8/248, train_loss: 0.7101, step time: 1.0274
    Batch 9/248, train_loss: 0.0484, step time: 1.0244
    Batch 10/248, train_loss: 0.2546, step time: 1.0308
    Batch 11/248, train_loss: 0.2236, step time: 1.0319
    Batch 12/248, train_loss: 0.6971, step time: 1.0325
    Batch 13/248, train_loss: 0.3553, step time: 1.0299
    Batch 14/248, train_loss: 0.0527, step time: 1.0269
    Batch 15/248, train_loss: 0.3226, step time: 1.0317
    Batch 16/248, train_loss: 0.1485, step time: 1.0261
    Batch 17/248, train_loss: 0.3672, step time: 1.0275
    Batch 18/248, train_loss: 0.5179, step time: 1.0284
    Batch 19/248, train_loss: 0.0962, step time: 1.0272
    Batch 20/248, train_loss: 0.2142, step time: 1.0254
    Batch 21/248, train_loss: 0.0641, step time: 1.0269
    Batch 22/248, train_loss: 0.9956, step time: 1.0204
    Batch 23/248, train_loss: 0.9969, step time: 1.0238
    Batch 24/248, train_loss: 0.0712, step time: 1.0277
    Batch 25/248, train_loss: 0.0733, step time: 1.0255
    Batch 26/248, train_loss: 0.5110, step time: 1.0310
    Batch 27/248, train_loss: 0.0728, step time: 1.0271
    Batch 28/248, train_loss: 0.1442, step time: 1.0312
    Batch 29/248, train_loss: 0.4214, step time: 1.0307
    Batch 30/248, train_loss: 0.5930, step time: 1.0333
    Batch 31/248, train_loss: 0.2798, step time: 1.0278
    Batch 32/248, train_loss: 0.0861, step time: 1.0245
    Batch 33/248, train_loss: 0.0696, step time: 1.0265
    Batch 34/248, train_loss: 0.0436, step time: 1.0241
    Batch 35/248, train_loss: 0.0487, step time: 1.0250
    Batch 36/248, train_loss: 0.5563, step time: 1.0310
    Batch 37/248, train_loss: 0.1765, step time: 1.0264
    Batch 38/248, train_loss: 0.2839, step time: 1.0279
    Batch 39/248, train_loss: 0.1916, step time: 1.0299
    Batch 40/248, train_loss: 0.9540, step time: 1.0266
    Batch 41/248, train_loss: 0.2672, step time: 1.0299
    Batch 42/248, train_loss: 0.0760, step time: 1.0247
    Batch 43/248, train_loss: 0.0569, step time: 1.0266
```

Batch 44/248, train_loss: 0.2542, step time: 1.0270
Batch 45/248, train_loss: 0.3942, step time: 1.0327
Batch 46/248, train_loss: 0.1809, step time: 1.0316
Batch 47/248, train_loss: 0.0763, step time: 1.0281
Batch 48/248, train_loss: 0.4270, step time: 1.0284
Batch 49/248, train_loss: 0.5527, step time: 1.0282
Batch 50/248, train_loss: 0.1311, step time: 1.0311
Batch 51/248, train_loss: 0.1736, step time: 1.0281
Batch 52/248, train_loss: 0.1090, step time: 1.0295
Batch 53/248, train_loss: 0.3858, step time: 1.0297
Batch 54/248, train_loss: 0.2477, step time: 1.0266
Batch 55/248, train_loss: 0.2885, step time: 1.0343
Batch 56/248, train_loss: 0.2220, step time: 1.0316
Batch 57/248, train_loss: 0.3188, step time: 1.0275
Batch 58/248, train_loss: 0.0948, step time: 1.0266
Batch 59/248, train_loss: 0.0798, step time: 1.0261
Batch 60/248, train_loss: 0.0578, step time: 1.0258
Batch 61/248, train_loss: 0.1118, step time: 1.0278
Batch 62/248, train_loss: 0.2432, step time: 1.0330
Batch 63/248, train_loss: 0.6797, step time: 1.0342
Batch 64/248, train_loss: 0.4854, step time: 1.0298
Batch 65/248, train_loss: 0.3218, step time: 1.0310
Batch 66/248, train_loss: 0.1555, step time: 1.0328
Batch 67/248, train_loss: 0.0709, step time: 1.0267
Batch 68/248, train_loss: 0.1390, step time: 1.0280
Batch 69/248, train_loss: 0.4986, step time: 1.0343
Batch 70/248, train_loss: 0.1439, step time: 1.0283
Batch 71/248, train_loss: 0.1606, step time: 1.0307
Batch 72/248, train_loss: 0.0608, step time: 1.0247
Batch 73/248, train_loss: 0.1767, step time: 1.0259
Batch 74/248, train_loss: 0.9981, step time: 1.0228
Batch 75/248, train_loss: 0.1349, step time: 1.0276
Batch 76/248, train_loss: 0.6596, step time: 1.0275
Batch 77/248, train_loss: 0.8914, step time: 1.0275
Batch 78/248, train_loss: 0.1161, step time: 1.0289
Batch 79/248, train_loss: 0.1374, step time: 1.0326
Batch 80/248, train_loss: 0.2057, step time: 1.0372
Batch 81/248, train_loss: 0.1797, step time: 1.0304
Batch 82/248, train_loss: 0.0805, step time: 1.0333
Batch 83/248, train_loss: 0.5437, step time: 1.0339
Batch 84/248, train_loss: 0.2211, step time: 1.0348
Batch 85/248, train_loss: 0.4463, step time: 1.0276
Batch 86/248, train_loss: 0.2405, step time: 1.0279
Batch 87/248, train_loss: 0.4913, step time: 1.0328
Batch 88/248, train_loss: 0.3621, step time: 1.0326
Batch 89/248, train_loss: 0.1020, step time: 1.0290
Batch 90/248, train_loss: 0.6115, step time: 1.0298
Batch 91/248, train_loss: 0.4845, step time: 1.0327
Batch 92/248, train_loss: 0.4253, step time: 1.0284
Batch 93/248, train_loss: 0.1351, step time: 1.0259
Batch 94/248, train_loss: 0.3498, step time: 1.0308
Batch 95/248, train_loss: 0.1764, step time: 1.0246
Batch 96/248, train_loss: 0.1490, step time: 1.0296
Batch 97/248, train_loss: 0.5650, step time: 1.0306
Batch 98/248, train_loss: 0.1084, step time: 1.0316
Batch 99/248, train_loss: 0.3435, step time: 1.0331
Batch 100/248, train_loss: 0.4604, step time: 1.0288

Batch 101/248, train_loss: 0.0570, step time: 1.0291
Batch 102/248, train_loss: 0.1182, step time: 1.0262
Batch 103/248, train_loss: 0.7874, step time: 1.0270
Batch 104/248, train_loss: 0.3710, step time: 1.0301
Batch 105/248, train_loss: 0.0836, step time: 1.0253
Batch 106/248, train_loss: 0.1517, step time: 1.0290
Batch 107/248, train_loss: 0.4415, step time: 1.0280
Batch 108/248, train_loss: 0.4735, step time: 1.0282
Batch 109/248, train_loss: 0.9555, step time: 1.0298
Batch 110/248, train_loss: 0.2009, step time: 1.0302
Batch 111/248, train_loss: 0.1717, step time: 1.0313
Batch 112/248, train_loss: 0.1455, step time: 1.0274
Batch 113/248, train_loss: 0.9684, step time: 1.0291
Batch 114/248, train_loss: 0.2270, step time: 1.0289
Batch 115/248, train_loss: 0.1766, step time: 1.0296
Batch 116/248, train_loss: 0.0979, step time: 1.0247
Batch 117/248, train_loss: 0.9297, step time: 1.0310
Batch 118/248, train_loss: 0.6917, step time: 1.0289
Batch 119/248, train_loss: 0.3722, step time: 1.0278
Batch 120/248, train_loss: 0.2483, step time: 1.0264
Batch 121/248, train_loss: 0.3099, step time: 1.0280
Batch 122/248, train_loss: 0.4359, step time: 1.0299
Batch 123/248, train_loss: 0.1030, step time: 1.0277
Batch 124/248, train_loss: 0.2844, step time: 1.0277
Batch 125/248, train_loss: 0.7320, step time: 1.0285
Batch 126/248, train_loss: 0.2423, step time: 1.0289
Batch 127/248, train_loss: 0.1324, step time: 1.0317
Batch 128/248, train_loss: 0.4049, step time: 1.0306
Batch 129/248, train_loss: 0.1273, step time: 1.0270
Batch 130/248, train_loss: 0.1114, step time: 1.0280
Batch 131/248, train_loss: 0.5814, step time: 1.0312
Batch 132/248, train_loss: 0.5417, step time: 1.0304
Batch 133/248, train_loss: 0.1540, step time: 1.0290
Batch 134/248, train_loss: 0.8782, step time: 1.0280
Batch 135/248, train_loss: 0.3711, step time: 1.0294
Batch 136/248, train_loss: 0.1111, step time: 1.0268
Batch 137/248, train_loss: 0.1161, step time: 1.0261
Batch 138/248, train_loss: 0.0692, step time: 1.0251
Batch 139/248, train_loss: 0.2569, step time: 1.0266
Batch 140/248, train_loss: 0.1740, step time: 1.0296
Batch 141/248, train_loss: 0.3185, step time: 1.0285
Batch 142/248, train_loss: 0.5730, step time: 1.0290
Batch 143/248, train_loss: 0.2608, step time: 1.0278
Batch 144/248, train_loss: 0.1172, step time: 1.0255
Batch 145/248, train_loss: 0.0885, step time: 1.0274
Batch 146/248, train_loss: 0.9604, step time: 1.0292
Batch 147/248, train_loss: 0.0479, step time: 1.0258
Batch 148/248, train_loss: 0.8243, step time: 1.0266
Batch 149/248, train_loss: 0.1185, step time: 1.0279
Batch 150/248, train_loss: 0.7167, step time: 1.0281
Batch 151/248, train_loss: 0.3936, step time: 1.0308
Batch 152/248, train_loss: 0.0408, step time: 1.0279
Batch 153/248, train_loss: 0.3918, step time: 1.0303
Batch 154/248, train_loss: 0.7104, step time: 1.0300
Batch 155/248, train_loss: 0.1384, step time: 1.0307
Batch 156/248, train_loss: 0.3413, step time: 1.0310

Batch 157/248, train_loss: 0.2855, step time: 1.0338
Batch 158/248, train_loss: 0.9887, step time: 1.0252
Batch 159/248, train_loss: 0.4317, step time: 1.0329
Batch 160/248, train_loss: 0.0936, step time: 1.0264
Batch 161/248, train_loss: 0.0959, step time: 1.0300
Batch 162/248, train_loss: 0.0933, step time: 1.0325
Batch 163/248, train_loss: 0.1816, step time: 1.0315
Batch 164/248, train_loss: 0.2498, step time: 1.0292
Batch 165/248, train_loss: 0.8758, step time: 1.0311
Batch 166/248, train_loss: 0.1991, step time: 1.0313
Batch 167/248, train_loss: 0.1885, step time: 1.0311
Batch 168/248, train_loss: 0.1494, step time: 1.0284
Batch 169/248, train_loss: 0.1068, step time: 1.0272
Batch 170/248, train_loss: 0.7382, step time: 1.0286
Batch 171/248, train_loss: 0.0912, step time: 1.0267
Batch 172/248, train_loss: 0.6165, step time: 1.0321
Batch 173/248, train_loss: 0.0843, step time: 1.0276
Batch 174/248, train_loss: 0.8631, step time: 1.0279
Batch 175/248, train_loss: 0.1608, step time: 1.0298
Batch 176/248, train_loss: 0.3756, step time: 1.0325
Batch 177/248, train_loss: 0.2973, step time: 1.0320
Batch 178/248, train_loss: 0.2807, step time: 1.0291
Batch 179/248, train_loss: 0.0947, step time: 1.0283
Batch 180/248, train_loss: 0.3351, step time: 1.0289
Batch 181/248, train_loss: 0.1139, step time: 1.0272
Batch 182/248, train_loss: 0.9259, step time: 1.0288
Batch 183/248, train_loss: 0.1688, step time: 1.0297
Batch 184/248, train_loss: 0.3577, step time: 1.0283
Batch 185/248, train_loss: 0.0914, step time: 1.0259
Batch 186/248, train_loss: 0.1176, step time: 1.0251
Batch 187/248, train_loss: 0.1881, step time: 1.0280
Batch 188/248, train_loss: 0.2800, step time: 1.0274
Batch 189/248, train_loss: 0.5670, step time: 1.0308
Batch 190/248, train_loss: 0.1347, step time: 1.0249
Batch 191/248, train_loss: 0.6171, step time: 1.0327
Batch 192/248, train_loss: 0.3370, step time: 1.0277
Batch 193/248, train_loss: 0.3410, step time: 1.0268
Batch 194/248, train_loss: 0.0791, step time: 1.0265
Batch 195/248, train_loss: 0.6629, step time: 1.0313
Batch 196/248, train_loss: 0.9995, step time: 1.0224
Batch 197/248, train_loss: 0.1898, step time: 1.0319
Batch 198/248, train_loss: 0.8110, step time: 1.0319
Batch 199/248, train_loss: 0.1504, step time: 1.0275
Batch 200/248, train_loss: 0.1224, step time: 1.0239
Batch 201/248, train_loss: 0.1259, step time: 1.0242
Batch 202/248, train_loss: 0.3753, step time: 1.0291
Batch 203/248, train_loss: 0.5864, step time: 1.0323
Batch 204/248, train_loss: 0.0815, step time: 1.0250
Batch 205/248, train_loss: 0.2630, step time: 1.0265
Batch 206/248, train_loss: 0.4820, step time: 1.0343
Batch 207/248, train_loss: 0.0834, step time: 1.0289
Batch 208/248, train_loss: 0.1922, step time: 1.0280
Batch 209/248, train_loss: 0.1744, step time: 1.0267
Batch 210/248, train_loss: 0.0634, step time: 1.0266
Batch 211/248, train_loss: 0.0599, step time: 1.0278
Batch 212/248, train_loss: 0.3917, step time: 1.0287
Batch 213/248, train_loss: 0.1549, step time: 1.0285

```
Batch 214/248, train_loss: 0.0759, step time: 1.0295
Batch 215/248, train_loss: 0.2259, step time: 1.0297
Batch 216/248, train_loss: 0.1476, step time: 1.0303
Batch 217/248, train_loss: 0.2832, step time: 1.0283
Batch 218/248, train_loss: 0.8102, step time: 1.0332
Batch 219/248, train_loss: 0.0624, step time: 1.0310
Batch 220/248, train_loss: 0.2366, step time: 1.0290
Batch 221/248, train_loss: 0.2847, step time: 1.0293
Batch 222/248, train_loss: 0.2097, step time: 1.0310
Batch 223/248, train_loss: 0.0404, step time: 1.0242
Batch 224/248, train_loss: 0.0804, step time: 1.0252
Batch 225/248, train_loss: 0.2461, step time: 1.0281
Batch 226/248, train_loss: 0.1975, step time: 1.0311
Batch 227/248, train_loss: 0.0847, step time: 1.0238
Batch 228/248, train_loss: 0.1692, step time: 1.0254
Batch 229/248, train_loss: 0.1127, step time: 1.0254
Batch 230/248, train_loss: 0.0656, step time: 1.0256
Batch 231/248, train_loss: 0.5638, step time: 1.0289
Batch 232/248, train_loss: 0.0740, step time: 1.0276
Batch 233/248, train_loss: 0.9715, step time: 1.0290
Batch 234/248, train_loss: 0.5468, step time: 1.0279
Batch 235/248, train_loss: 0.4828, step time: 1.0302
Batch 236/248, train_loss: 0.8142, step time: 1.0314
Batch 237/248, train_loss: 0.1049, step time: 1.0292
Batch 238/248, train_loss: 0.1025, step time: 1.0274
Batch 239/248, train_loss: 0.0984, step time: 1.0268
Batch 240/248, train_loss: 0.3577, step time: 1.0305
Batch 241/248, train_loss: 0.7503, step time: 1.0298
Batch 242/248, train_loss: 0.2759, step time: 1.0289
Batch 243/248, train_loss: 0.6106, step time: 1.0286
Batch 244/248, train_loss: 0.5618, step time: 1.0275
Batch 245/248, train_loss: 0.0797, step time: 1.0251
Batch 246/248, train_loss: 0.5992, step time: 1.0295
Batch 247/248, train_loss: 0.0935, step time: 1.0232
Batch 248/248, train_loss: 0.9977, step time: 1.0218
```

Labels

TC



WT



ET



Predictions

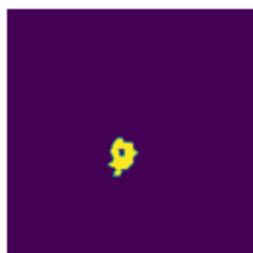


VAL

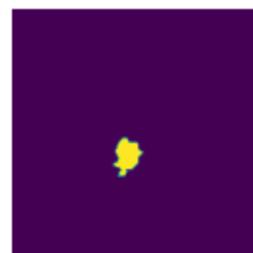
```
Batch 1/31, val_loss: 0.9544
Batch 2/31, val_loss: 0.9919
Batch 3/31, val_loss: 0.9637
Batch 4/31, val_loss: 0.9444
Batch 5/31, val_loss: 0.9918
Batch 6/31, val_loss: 0.7088
Batch 7/31, val_loss: 0.8356
Batch 8/31, val_loss: 0.9545
Batch 9/31, val_loss: 0.6955
Batch 10/31, val_loss: 0.9118
Batch 11/31, val_loss: 0.8272
Batch 12/31, val_loss: 0.9759
Batch 13/31, val_loss: 0.9860
Batch 14/31, val_loss: 0.9417
Batch 15/31, val_loss: 0.9895
Batch 16/31, val_loss: 0.9746
Batch 17/31, val_loss: 0.9735
Batch 18/31, val_loss: 0.9364
Batch 19/31, val_loss: 0.7459
Batch 20/31, val_loss: 0.8622
Batch 21/31, val_loss: 0.8673
Batch 22/31, val_loss: 0.9792
Batch 23/31, val_loss: 0.9781
Batch 24/31, val_loss: 0.7423
Batch 25/31, val_loss: 0.8054
Batch 26/31, val_loss: 0.9187
Batch 27/31, val_loss: 0.9722
Batch 28/31, val_loss: 0.7530
Batch 29/31, val_loss: 0.9865
Batch 30/31, val_loss: 0.9575
Batch 31/31, val_loss: 0.9801
```

Labels

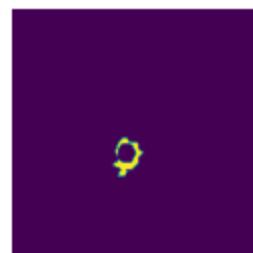
TC



WT

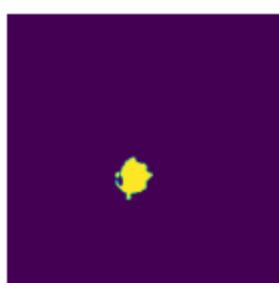


ET

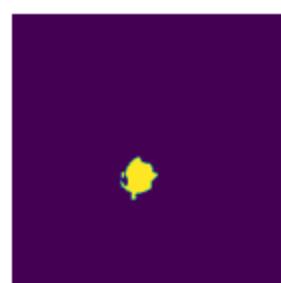


Predictions

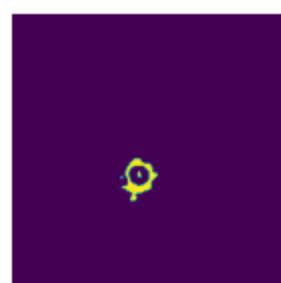
TC



WT



ET



```
epoch 41
    average train loss: 0.3237
    average validation loss: 0.9066
    saved as best model: False
    current mean dice: 0.4756
    current TC dice: 0.4969
    current WT dice: 0.5026
    current ET dice: 0.4676
Best Mean Metric: 0.4787
time consuming of epoch 41 is: 1553.8567
-----
epoch 42/100
TRAIN
    Batch 1/248, train_loss: 0.0873, step time: 1.0272
    Batch 2/248, train_loss: 0.8281, step time: 1.0346
    Batch 3/248, train_loss: 0.3205, step time: 1.0302
    Batch 4/248, train_loss: 0.9262, step time: 1.0271
    Batch 5/248, train_loss: 0.2344, step time: 1.0267
    Batch 6/248, train_loss: 0.7256, step time: 1.0275
    Batch 7/248, train_loss: 0.0702, step time: 1.0264
    Batch 8/248, train_loss: 0.7193, step time: 1.0280
    Batch 9/248, train_loss: 0.0511, step time: 1.0309
    Batch 10/248, train_loss: 0.2895, step time: 1.0330
    Batch 11/248, train_loss: 0.2109, step time: 1.0298
    Batch 12/248, train_loss: 0.7493, step time: 1.0328
    Batch 13/248, train_loss: 0.3638, step time: 1.0341
    Batch 14/248, train_loss: 0.0580, step time: 1.0287
    Batch 15/248, train_loss: 0.3295, step time: 1.0287
    Batch 16/248, train_loss: 0.1455, step time: 1.0289
    Batch 17/248, train_loss: 0.3166, step time: 1.0304
    Batch 18/248, train_loss: 0.5544, step time: 1.0330
    Batch 19/248, train_loss: 0.1384, step time: 1.0264
    Batch 20/248, train_loss: 0.1276, step time: 1.0284
    Batch 21/248, train_loss: 0.0521, step time: 1.0252
    Batch 22/248, train_loss: 0.9617, step time: 1.0281
    Batch 23/248, train_loss: 0.9967, step time: 1.0235
    Batch 24/248, train_loss: 0.0944, step time: 1.0261
    Batch 25/248, train_loss: 0.0755, step time: 1.0272
    Batch 26/248, train_loss: 0.6569, step time: 1.0332
    Batch 27/248, train_loss: 0.0732, step time: 1.0273
    Batch 28/248, train_loss: 0.1588, step time: 1.0324
    Batch 29/248, train_loss: 0.4006, step time: 1.0291
    Batch 30/248, train_loss: 0.6663, step time: 1.0308
    Batch 31/248, train_loss: 0.4012, step time: 1.0358
    Batch 32/248, train_loss: 0.0962, step time: 1.0255
    Batch 33/248, train_loss: 0.0703, step time: 1.0275
    Batch 34/248, train_loss: 0.0422, step time: 1.0247
    Batch 35/248, train_loss: 0.0419, step time: 1.0246
    Batch 36/248, train_loss: 0.5138, step time: 1.0294
    Batch 37/248, train_loss: 0.1703, step time: 1.0265
    Batch 38/248, train_loss: 0.3028, step time: 1.0290
    Batch 39/248, train_loss: 0.1711, step time: 1.0291
    Batch 40/248, train_loss: 0.9022, step time: 1.0261
    Batch 41/248, train_loss: 0.2397, step time: 1.0257
    Batch 42/248, train_loss: 0.0753, step time: 1.0258
    Batch 43/248, train_loss: 0.0556, step time: 1.0251
```

Batch 44/248, train_loss: 0.3734, step time: 1.0309
Batch 45/248, train_loss: 0.3912, step time: 1.0280
Batch 46/248, train_loss: 0.1663, step time: 1.0288
Batch 47/248, train_loss: 0.0823, step time: 1.0264
Batch 48/248, train_loss: 0.2588, step time: 1.0292
Batch 49/248, train_loss: 0.4805, step time: 1.0337
Batch 50/248, train_loss: 0.1388, step time: 1.0280
Batch 51/248, train_loss: 0.1946, step time: 1.0308
Batch 52/248, train_loss: 0.1063, step time: 1.0276
Batch 53/248, train_loss: 0.4201, step time: 1.0292
Batch 54/248, train_loss: 0.2261, step time: 1.0306
Batch 55/248, train_loss: 0.3326, step time: 1.0310
Batch 56/248, train_loss: 0.2469, step time: 1.0267
Batch 57/248, train_loss: 0.2854, step time: 1.0255
Batch 58/248, train_loss: 0.0933, step time: 1.0263
Batch 59/248, train_loss: 0.0996, step time: 1.0272
Batch 60/248, train_loss: 0.0593, step time: 1.0246
Batch 61/248, train_loss: 0.1159, step time: 1.0273
Batch 62/248, train_loss: 0.2295, step time: 1.0300
Batch 63/248, train_loss: 0.7328, step time: 1.0374
Batch 64/248, train_loss: 0.4716, step time: 1.0328
Batch 65/248, train_loss: 0.3616, step time: 1.0346
Batch 66/248, train_loss: 0.1747, step time: 1.0296
Batch 67/248, train_loss: 0.0710, step time: 1.0227
Batch 68/248, train_loss: 0.1509, step time: 1.0323
Batch 69/248, train_loss: 0.5570, step time: 1.0352
Batch 70/248, train_loss: 0.1344, step time: 1.0301
Batch 71/248, train_loss: 0.1566, step time: 1.0267
Batch 72/248, train_loss: 0.0604, step time: 1.0259
Batch 73/248, train_loss: 0.4899, step time: 1.0297
Batch 74/248, train_loss: 0.9952, step time: 1.0261
Batch 75/248, train_loss: 0.1385, step time: 1.0267
Batch 76/248, train_loss: 0.6085, step time: 1.0414
Batch 77/248, train_loss: 0.8280, step time: 1.0301
Batch 78/248, train_loss: 0.1163, step time: 1.0268
Batch 79/248, train_loss: 0.1536, step time: 1.0304
Batch 80/248, train_loss: 0.2102, step time: 1.0313
Batch 81/248, train_loss: 0.2113, step time: 1.0320
Batch 82/248, train_loss: 0.0885, step time: 1.0279
Batch 83/248, train_loss: 0.6370, step time: 1.0321
Batch 84/248, train_loss: 0.2473, step time: 1.0313
Batch 85/248, train_loss: 0.3879, step time: 1.0294
Batch 86/248, train_loss: 0.4002, step time: 1.0288
Batch 87/248, train_loss: 0.4811, step time: 1.0296
Batch 88/248, train_loss: 0.3689, step time: 1.0306
Batch 89/248, train_loss: 0.0996, step time: 1.0299
Batch 90/248, train_loss: 0.4289, step time: 1.0298
Batch 91/248, train_loss: 0.4118, step time: 1.0329
Batch 92/248, train_loss: 0.3458, step time: 1.0272
Batch 93/248, train_loss: 0.1450, step time: 1.0281
Batch 94/248, train_loss: 0.3601, step time: 1.0291
Batch 95/248, train_loss: 0.1784, step time: 1.0267
Batch 96/248, train_loss: 0.1787, step time: 1.0299
Batch 97/248, train_loss: 0.6187, step time: 1.0314
Batch 98/248, train_loss: 0.1318, step time: 1.0258
Batch 99/248, train_loss: 0.3387, step time: 1.0287
Batch 100/248, train_loss: 0.2105, step time: 1.0266

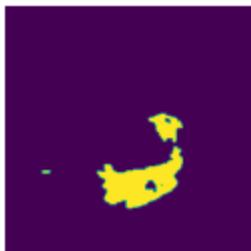
Batch 100/248, train_loss: 0.0525, step time: 1.0260
Batch 101/248, train_loss: 0.0539, step time: 1.0267
Batch 102/248, train_loss: 0.1259, step time: 1.0274
Batch 103/248, train_loss: 0.7611, step time: 1.0299
Batch 104/248, train_loss: 0.3863, step time: 1.0283
Batch 105/248, train_loss: 0.0889, step time: 1.0265
Batch 106/248, train_loss: 0.1434, step time: 1.0298
Batch 107/248, train_loss: 0.4610, step time: 1.0297
Batch 108/248, train_loss: 0.5076, step time: 1.0321
Batch 109/248, train_loss: 0.9368, step time: 1.0342
Batch 110/248, train_loss: 0.2694, step time: 1.0313
Batch 111/248, train_loss: 0.1041, step time: 1.0237
Batch 112/248, train_loss: 0.1172, step time: 1.0266
Batch 113/248, train_loss: 0.9890, step time: 1.0275
Batch 114/248, train_loss: 0.1517, step time: 1.0243
Batch 115/248, train_loss: 0.1974, step time: 1.0292
Batch 116/248, train_loss: 0.0922, step time: 1.0248
Batch 117/248, train_loss: 0.7763, step time: 1.0271
Batch 118/248, train_loss: 0.7937, step time: 1.0311
Batch 119/248, train_loss: 0.3655, step time: 1.0277
Batch 120/248, train_loss: 0.2389, step time: 1.0244
Batch 121/248, train_loss: 0.2957, step time: 1.0280
Batch 122/248, train_loss: 0.4442, step time: 1.0302
Batch 123/248, train_loss: 0.0814, step time: 1.0258
Batch 124/248, train_loss: 0.3554, step time: 1.0306
Batch 125/248, train_loss: 0.6640, step time: 1.0291
Batch 126/248, train_loss: 0.1684, step time: 1.0260
Batch 127/248, train_loss: 0.1176, step time: 1.0311
Batch 128/248, train_loss: 0.4041, step time: 1.0321
Batch 129/248, train_loss: 0.1427, step time: 1.0277
Batch 130/248, train_loss: 0.0947, step time: 1.0263
Batch 131/248, train_loss: 0.5775, step time: 1.0281
Batch 132/248, train_loss: 0.5045, step time: 1.0268
Batch 133/248, train_loss: 0.1451, step time: 1.0297
Batch 134/248, train_loss: 0.9550, step time: 1.0287
Batch 135/248, train_loss: 0.3114, step time: 1.0329
Batch 136/248, train_loss: 0.1190, step time: 1.0243
Batch 137/248, train_loss: 0.1202, step time: 1.0251
Batch 138/248, train_loss: 0.0703, step time: 1.0233
Batch 139/248, train_loss: 0.2623, step time: 1.0275
Batch 140/248, train_loss: 0.1956, step time: 1.0253
Batch 141/248, train_loss: 0.2111, step time: 1.0283
Batch 142/248, train_loss: 0.5680, step time: 1.0274
Batch 143/248, train_loss: 0.2620, step time: 1.0287
Batch 144/248, train_loss: 0.1206, step time: 1.0247
Batch 145/248, train_loss: 0.0653, step time: 1.0248
Batch 146/248, train_loss: 0.9520, step time: 1.0269
Batch 147/248, train_loss: 0.0428, step time: 1.0265
Batch 148/248, train_loss: 0.8639, step time: 1.0323
Batch 149/248, train_loss: 0.1260, step time: 1.0291
Batch 150/248, train_loss: 0.7114, step time: 1.0269
Batch 151/248, train_loss: 0.5678, step time: 1.0287
Batch 152/248, train_loss: 0.0399, step time: 1.0230
Batch 153/248, train_loss: 0.3442, step time: 1.0306
Batch 154/248, train_loss: 0.6459, step time: 1.0332
Batch 155/248, train_loss: 0.1069, step time: 1.0296
Batch 156/248, train_loss: 0.3563, step time: 1.0379

Batch 157/248, train_loss: 0.2644, step time: 1.0306
Batch 158/248, train_loss: 0.9927, step time: 1.0238
Batch 159/248, train_loss: 0.4178, step time: 1.0317
Batch 160/248, train_loss: 0.0836, step time: 1.0295
Batch 161/248, train_loss: 0.0699, step time: 1.0283
Batch 162/248, train_loss: 0.1098, step time: 1.0299
Batch 163/248, train_loss: 0.1385, step time: 1.0280
Batch 164/248, train_loss: 0.2861, step time: 1.0295
Batch 165/248, train_loss: 0.9316, step time: 1.0310
Batch 166/248, train_loss: 0.0936, step time: 1.0289
Batch 167/248, train_loss: 0.1828, step time: 1.0284
Batch 168/248, train_loss: 0.1451, step time: 1.0280
Batch 169/248, train_loss: 0.0990, step time: 1.0263
Batch 170/248, train_loss: 0.7248, step time: 1.0277
Batch 171/248, train_loss: 0.0935, step time: 1.0252
Batch 172/248, train_loss: 0.5133, step time: 1.0310
Batch 173/248, train_loss: 0.0837, step time: 1.0238
Batch 174/248, train_loss: 0.9212, step time: 1.0296
Batch 175/248, train_loss: 0.1768, step time: 1.0272
Batch 176/248, train_loss: 0.3942, step time: 1.0282
Batch 177/248, train_loss: 0.2986, step time: 1.0327
Batch 178/248, train_loss: 0.4205, step time: 1.0321
Batch 179/248, train_loss: 0.1029, step time: 1.0281
Batch 180/248, train_loss: 0.4142, step time: 1.0303
Batch 181/248, train_loss: 0.1263, step time: 1.0292
Batch 182/248, train_loss: 0.9715, step time: 1.0297
Batch 183/248, train_loss: 0.1775, step time: 1.0308
Batch 184/248, train_loss: 0.4614, step time: 1.0313
Batch 185/248, train_loss: 0.1010, step time: 1.0269
Batch 186/248, train_loss: 0.1171, step time: 1.0253
Batch 187/248, train_loss: 0.2072, step time: 1.0293
Batch 188/248, train_loss: 0.2717, step time: 1.0272
Batch 189/248, train_loss: 0.5836, step time: 1.0283
Batch 190/248, train_loss: 0.1326, step time: 1.0260
Batch 191/248, train_loss: 0.6219, step time: 1.0316
Batch 192/248, train_loss: 0.2747, step time: 1.0298
Batch 193/248, train_loss: 0.2996, step time: 1.0262
Batch 194/248, train_loss: 0.0881, step time: 1.0286
Batch 195/248, train_loss: 0.7262, step time: 1.0304
Batch 196/248, train_loss: 0.9998, step time: 1.0203
Batch 197/248, train_loss: 0.1889, step time: 1.0338
Batch 198/248, train_loss: 0.9492, step time: 1.0334
Batch 199/248, train_loss: 0.1541, step time: 1.0285
Batch 200/248, train_loss: 0.1235, step time: 1.0296
Batch 201/248, train_loss: 0.1290, step time: 1.0265
Batch 202/248, train_loss: 0.3773, step time: 1.0292
Batch 203/248, train_loss: 0.5176, step time: 1.0299
Batch 204/248, train_loss: 0.0925, step time: 1.0240
Batch 205/248, train_loss: 0.2433, step time: 1.0293
Batch 206/248, train_loss: 0.5522, step time: 1.0294
Batch 207/248, train_loss: 0.0832, step time: 1.0273
Batch 208/248, train_loss: 0.1827, step time: 1.0285
Batch 209/248, train_loss: 0.1701, step time: 1.0289
Batch 210/248, train_loss: 0.0566, step time: 1.0271
Batch 211/248, train_loss: 0.0624, step time: 1.0254
Batch 212/248, train_loss: 0.2186, step time: 1.0271
Batch 213/248, train_loss: 0.1320, step time: 1.0260

```
Batch 213/248, train_loss: 0.1557, step time: 1.0260
Batch 214/248, train_loss: 0.0645, step time: 1.0269
Batch 215/248, train_loss: 0.2218, step time: 1.0307
Batch 216/248, train_loss: 0.1459, step time: 1.0274
Batch 217/248, train_loss: 0.2739, step time: 1.0275
Batch 218/248, train_loss: 0.7737, step time: 1.0295
Batch 219/248, train_loss: 0.0782, step time: 1.0305
Batch 220/248, train_loss: 0.2244, step time: 1.0275
Batch 221/248, train_loss: 0.2918, step time: 1.0324
Batch 222/248, train_loss: 0.1990, step time: 1.0258
Batch 223/248, train_loss: 0.0428, step time: 1.0266
Batch 224/248, train_loss: 0.0763, step time: 1.0246
Batch 225/248, train_loss: 0.2962, step time: 1.0322
Batch 226/248, train_loss: 0.1947, step time: 1.0301
Batch 227/248, train_loss: 0.0977, step time: 1.0239
Batch 228/248, train_loss: 0.1370, step time: 1.0269
Batch 229/248, train_loss: 0.1054, step time: 1.0263
Batch 230/248, train_loss: 0.0628, step time: 1.0251
Batch 231/248, train_loss: 0.5008, step time: 1.0310
Batch 232/248, train_loss: 0.0751, step time: 1.0289
Batch 233/248, train_loss: 0.9230, step time: 1.0282
Batch 234/248, train_loss: 0.5612, step time: 1.0274
Batch 235/248, train_loss: 0.5736, step time: 1.0335
Batch 236/248, train_loss: 0.8004, step time: 1.0313
Batch 237/248, train_loss: 0.1060, step time: 1.0272
Batch 238/248, train_loss: 0.1098, step time: 1.0287
Batch 239/248, train_loss: 0.0840, step time: 1.0302
Batch 240/248, train_loss: 0.3347, step time: 1.0285
Batch 241/248, train_loss: 0.7594, step time: 1.0310
Batch 242/248, train_loss: 0.1906, step time: 1.0309
Batch 243/248, train_loss: 0.6142, step time: 1.0276
Batch 244/248, train_loss: 0.5751, step time: 1.0288
Batch 245/248, train_loss: 0.0690, step time: 1.0290
Batch 246/248, train_loss: 0.6125, step time: 1.0286
Batch 247/248, train_loss: 0.0807, step time: 1.0247
Batch 248/248, train_loss: 0.9998, step time: 1.0178
```

Labels

TC



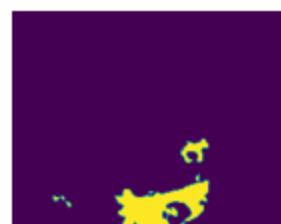
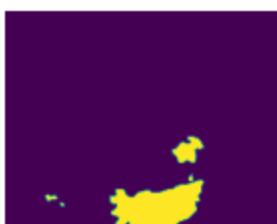
WT



ET



Predictions



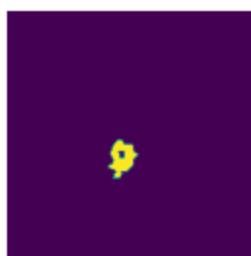


VAL

Batch 1/31, val_loss: 0.9513
Batch 2/31, val_loss: 0.9931
Batch 3/31, val_loss: 0.9636
Batch 4/31, val_loss: 0.9427
Batch 5/31, val_loss: 0.9918
Batch 6/31, val_loss: 0.7245
Batch 7/31, val_loss: 0.8611
Batch 8/31, val_loss: 0.9583
Batch 9/31, val_loss: 0.7031
Batch 10/31, val_loss: 0.9109
Batch 11/31, val_loss: 0.8285
Batch 12/31, val_loss: 0.9751
Batch 13/31, val_loss: 0.9825
Batch 14/31, val_loss: 0.9430
Batch 15/31, val_loss: 0.9937
Batch 16/31, val_loss: 0.9748
Batch 17/31, val_loss: 0.9743
Batch 18/31, val_loss: 0.9356
Batch 19/31, val_loss: 0.7458
Batch 20/31, val_loss: 0.8683
Batch 21/31, val_loss: 0.8695
Batch 22/31, val_loss: 0.9798
Batch 23/31, val_loss: 0.9794
Batch 24/31, val_loss: 0.7447
Batch 25/31, val_loss: 0.8080
Batch 26/31, val_loss: 0.9179
Batch 27/31, val_loss: 0.9728
Batch 28/31, val_loss: 0.7516
Batch 29/31, val_loss: 0.9887
Batch 30/31, val_loss: 0.9569
Batch 31/31, val_loss: 0.9815

Labels

TC



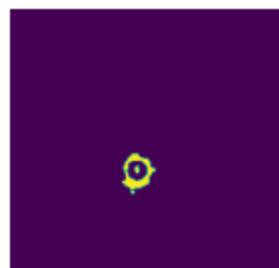
WT



ET



Predictions



epoch 42

```
average train loss: 0.3256
average validation loss: 0.9088
saved as best model: False
current mean dice: 0.4762
current TC dice: 0.4954
current WT dice: 0.5028
current ET dice: 0.4715
Best Mean Metric: 0.4787
time consuming of epoch 42 is: 1553.1603
-----
epoch 43/100
TRAIN
Batch 1/248, train_loss: 0.1142, step time: 1.0253
Batch 2/248, train_loss: 0.8348, step time: 1.0356
Batch 3/248, train_loss: 0.3168, step time: 1.0295
Batch 4/248, train_loss: 0.9603, step time: 1.0292
Batch 5/248, train_loss: 0.2561, step time: 1.0309
Batch 6/248, train_loss: 0.5485, step time: 1.0320
Batch 7/248, train_loss: 0.0988, step time: 1.0265
Batch 8/248, train_loss: 0.7130, step time: 1.0265
Batch 9/248, train_loss: 0.0552, step time: 1.0254
Batch 10/248, train_loss: 0.2888, step time: 1.0316
Batch 11/248, train_loss: 0.2227, step time: 1.0301
Batch 12/248, train_loss: 0.7231, step time: 1.0316
Batch 13/248, train_loss: 0.3379, step time: 1.0267
Batch 14/248, train_loss: 0.0500, step time: 1.0244
Batch 15/248, train_loss: 0.3415, step time: 1.0281
Batch 16/248, train_loss: 0.1410, step time: 1.0288
Batch 17/248, train_loss: 0.3246, step time: 1.0294
Batch 18/248, train_loss: 0.4875, step time: 1.0310
Batch 19/248, train_loss: 0.1082, step time: 1.0271
Batch 20/248, train_loss: 0.1908, step time: 1.0291
Batch 21/248, train_loss: 0.0597, step time: 1.0280
Batch 22/248, train_loss: 0.9925, step time: 1.0254
Batch 23/248, train_loss: 0.9945, step time: 1.0246
Batch 24/248, train_loss: 0.0894, step time: 1.0257
Batch 25/248, train_loss: 0.0751, step time: 1.0273
Batch 26/248, train_loss: 0.5222, step time: 1.0293
Batch 27/248, train_loss: 0.0691, step time: 1.0292
Batch 28/248, train_loss: 0.1565, step time: 1.0270
Batch 29/248, train_loss: 0.4642, step time: 1.0330
Batch 30/248, train_loss: 0.2531, step time: 1.0271
Batch 31/248, train_loss: 0.3205, step time: 1.0259
Batch 32/248, train_loss: 0.0877, step time: 1.0252
Batch 33/248, train_loss: 0.0787, step time: 1.0252
Batch 34/248, train_loss: 0.0437, step time: 1.0231
Batch 35/248, train_loss: 0.0384, step time: 1.0232
Batch 36/248, train_loss: 0.4968, step time: 1.0301
Batch 37/248, train_loss: 0.1703, step time: 1.0266
Batch 38/248, train_loss: 0.2845, step time: 1.0250
Batch 39/248, train_loss: 0.1912, step time: 1.0287
Batch 40/248, train_loss: 0.9342, step time: 1.0286
Batch 41/248, train_loss: 0.2712, step time: 1.0265
Batch 42/248, train_loss: 0.0674, step time: 1.0279
Batch 43/248, train_loss: 0.0564, step time: 1.0284
```

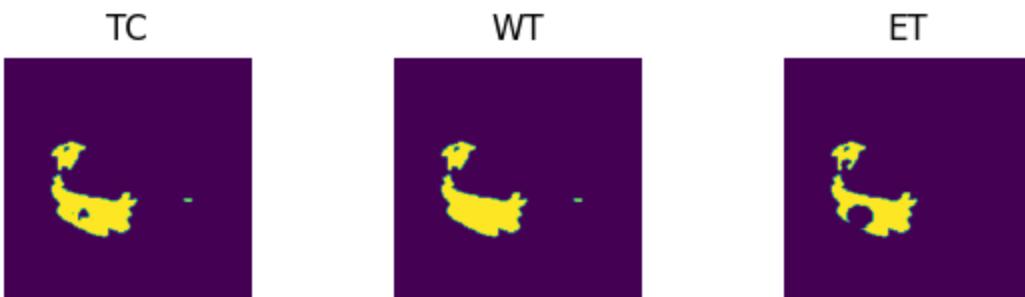
Batch 44/248, train_loss: 0.1805, step time: 1.0313
Batch 45/248, train_loss: 0.3894, step time: 1.0301
Batch 46/248, train_loss: 0.1675, step time: 1.0285
Batch 47/248, train_loss: 0.0610, step time: 1.0271
Batch 48/248, train_loss: 0.2486, step time: 1.0261
Batch 49/248, train_loss: 0.6187, step time: 1.0285
Batch 50/248, train_loss: 0.1292, step time: 1.0298
Batch 51/248, train_loss: 0.2847, step time: 1.0376
Batch 52/248, train_loss: 0.1001, step time: 1.0286
Batch 53/248, train_loss: 0.4118, step time: 1.0304
Batch 54/248, train_loss: 0.2361, step time: 1.0289
Batch 55/248, train_loss: 0.2709, step time: 1.0311
Batch 56/248, train_loss: 0.2263, step time: 1.0313
Batch 57/248, train_loss: 0.3134, step time: 1.0282
Batch 58/248, train_loss: 0.0891, step time: 1.0256
Batch 59/248, train_loss: 0.0877, step time: 1.0249
Batch 60/248, train_loss: 0.0549, step time: 1.0241
Batch 61/248, train_loss: 0.0954, step time: 1.0257
Batch 62/248, train_loss: 0.2223, step time: 1.0279
Batch 63/248, train_loss: 0.6991, step time: 1.0288
Batch 64/248, train_loss: 0.4833, step time: 1.0321
Batch 65/248, train_loss: 0.2781, step time: 1.0291
Batch 66/248, train_loss: 0.1387, step time: 1.0264
Batch 67/248, train_loss: 0.0690, step time: 1.0257
Batch 68/248, train_loss: 0.1305, step time: 1.0254
Batch 69/248, train_loss: 0.4586, step time: 1.0319
Batch 70/248, train_loss: 0.1429, step time: 1.0282
Batch 71/248, train_loss: 0.1579, step time: 1.0296
Batch 72/248, train_loss: 0.0591, step time: 1.0251
Batch 73/248, train_loss: 0.3061, step time: 1.0310
Batch 74/248, train_loss: 0.9974, step time: 1.0251
Batch 75/248, train_loss: 0.1387, step time: 1.0289
Batch 76/248, train_loss: 0.6164, step time: 1.0288
Batch 77/248, train_loss: 0.8556, step time: 1.0333
Batch 78/248, train_loss: 0.1293, step time: 1.0254
Batch 79/248, train_loss: 0.1508, step time: 1.0322
Batch 80/248, train_loss: 0.2026, step time: 1.0294
Batch 81/248, train_loss: 0.1669, step time: 1.0308
Batch 82/248, train_loss: 0.0851, step time: 1.0288
Batch 83/248, train_loss: 0.5841, step time: 1.0340
Batch 84/248, train_loss: 0.2647, step time: 1.0282
Batch 85/248, train_loss: 0.4289, step time: 1.0294
Batch 86/248, train_loss: 0.3284, step time: 1.0307
Batch 87/248, train_loss: 0.4692, step time: 1.0320
Batch 88/248, train_loss: 0.3506, step time: 1.0293
Batch 89/248, train_loss: 0.1040, step time: 1.0279
Batch 90/248, train_loss: 0.3787, step time: 1.0294
Batch 91/248, train_loss: 0.3969, step time: 1.0314
Batch 92/248, train_loss: 0.3447, step time: 1.0301
Batch 93/248, train_loss: 0.1457, step time: 1.0254
Batch 94/248, train_loss: 0.4108, step time: 1.0314
Batch 95/248, train_loss: 0.1752, step time: 1.0300
Batch 96/248, train_loss: 0.1692, step time: 1.0273
Batch 97/248, train_loss: 0.5863, step time: 1.0315
Batch 98/248, train_loss: 0.1130, step time: 1.0299
Batch 99/248, train_loss: 0.3339, step time: 1.0306

Batch 100/248, train_loss: 0.4078, step time: 1.0341
Batch 101/248, train_loss: 0.0569, step time: 1.0263
Batch 102/248, train_loss: 0.1033, step time: 1.0270
Batch 103/248, train_loss: 0.6206, step time: 1.0310
Batch 104/248, train_loss: 0.4241, step time: 1.0296
Batch 105/248, train_loss: 0.0802, step time: 1.0249
Batch 106/248, train_loss: 0.1378, step time: 1.0288
Batch 107/248, train_loss: 0.2451, step time: 1.0285
Batch 108/248, train_loss: 0.6437, step time: 1.0296
Batch 109/248, train_loss: 0.9732, step time: 1.0275
Batch 110/248, train_loss: 0.3246, step time: 1.0323
Batch 111/248, train_loss: 0.0918, step time: 1.0290
Batch 112/248, train_loss: 0.1378, step time: 1.0282
Batch 113/248, train_loss: 0.9642, step time: 1.0286
Batch 114/248, train_loss: 0.1438, step time: 1.0261
Batch 115/248, train_loss: 0.1695, step time: 1.0283
Batch 116/248, train_loss: 0.0881, step time: 1.0263
Batch 117/248, train_loss: 0.6646, step time: 1.0341
Batch 118/248, train_loss: 0.8012, step time: 1.0309
Batch 119/248, train_loss: 0.3105, step time: 1.0260
Batch 120/248, train_loss: 0.2675, step time: 1.0268
Batch 121/248, train_loss: 0.3146, step time: 1.0302
Batch 122/248, train_loss: 0.4891, step time: 1.0284
Batch 123/248, train_loss: 0.0972, step time: 1.0286
Batch 124/248, train_loss: 0.4586, step time: 1.0321
Batch 125/248, train_loss: 0.6667, step time: 1.0299
Batch 126/248, train_loss: 0.2387, step time: 1.0305
Batch 127/248, train_loss: 0.1285, step time: 1.0288
Batch 128/248, train_loss: 0.3069, step time: 1.0310
Batch 129/248, train_loss: 0.1258, step time: 1.0287
Batch 130/248, train_loss: 0.0938, step time: 1.0280
Batch 131/248, train_loss: 0.6097, step time: 1.0276
Batch 132/248, train_loss: 0.4669, step time: 1.0264
Batch 133/248, train_loss: 0.1354, step time: 1.0266
Batch 134/248, train_loss: 0.9262, step time: 1.0271
Batch 135/248, train_loss: 0.3064, step time: 1.0294
Batch 136/248, train_loss: 0.1058, step time: 1.0271
Batch 137/248, train_loss: 0.1403, step time: 1.0290
Batch 138/248, train_loss: 0.0670, step time: 1.0271
Batch 139/248, train_loss: 0.2328, step time: 1.0263
Batch 140/248, train_loss: 0.2195, step time: 1.0298
Batch 141/248, train_loss: 0.2598, step time: 1.0309
Batch 142/248, train_loss: 0.7061, step time: 1.0325
Batch 143/248, train_loss: 0.3008, step time: 1.0317
Batch 144/248, train_loss: 0.1173, step time: 1.0286
Batch 145/248, train_loss: 0.0684, step time: 1.0257
Batch 146/248, train_loss: 0.7189, step time: 1.0297
Batch 147/248, train_loss: 0.0400, step time: 1.0252
Batch 148/248, train_loss: 0.7626, step time: 1.0303
Batch 149/248, train_loss: 0.1224, step time: 1.0257
Batch 150/248, train_loss: 0.6910, step time: 1.0291
Batch 151/248, train_loss: 0.3544, step time: 1.0311
Batch 152/248, train_loss: 0.0394, step time: 1.0242
Batch 153/248, train_loss: 0.2558, step time: 1.0359
Batch 154/248, train_loss: 0.8146, step time: 1.0340
Batch 155/248, train_loss: 0.1349, step time: 1.0305
Batch 156/248. train loss: 0.2743. step time: 1.0311

```
Batch 157/248, train_loss: 0.2792, step time: 1.0312
Batch 158/248, train_loss: 0.9872, step time: 1.0271
Batch 159/248, train_loss: 0.5136, step time: 1.0317
Batch 160/248, train_loss: 0.0854, step time: 1.0251
Batch 161/248, train_loss: 0.1031, step time: 1.0307
Batch 162/248, train_loss: 0.1118, step time: 1.0321
Batch 163/248, train_loss: 0.1550, step time: 1.0314
Batch 164/248, train_loss: 0.2395, step time: 1.0287
Batch 165/248, train_loss: 0.9165, step time: 1.0311
Batch 166/248, train_loss: 0.0932, step time: 1.0288
Batch 167/248, train_loss: 0.1904, step time: 1.0293
Batch 168/248, train_loss: 0.1663, step time: 1.0316
Batch 169/248, train_loss: 0.0804, step time: 1.0282
Batch 170/248, train_loss: 0.7964, step time: 1.0289
Batch 171/248, train_loss: 0.0929, step time: 1.0265
Batch 172/248, train_loss: 0.5317, step time: 1.0293
Batch 173/248, train_loss: 0.0977, step time: 1.0267
Batch 174/248, train_loss: 0.9582, step time: 1.0281
Batch 175/248, train_loss: 0.1816, step time: 1.0277
Batch 176/248, train_loss: 0.3564, step time: 1.0290
Batch 177/248, train_loss: 0.2817, step time: 1.0315
Batch 178/248, train_loss: 0.3714, step time: 1.0308
Batch 179/248, train_loss: 0.1006, step time: 1.0271
Batch 180/248, train_loss: 0.3533, step time: 1.0282
Batch 181/248, train_loss: 0.1127, step time: 1.0259
Batch 182/248, train_loss: 0.9655, step time: 1.0272
Batch 183/248, train_loss: 0.1560, step time: 1.0286
Batch 184/248, train_loss: 0.5151, step time: 1.0258
Batch 185/248, train_loss: 0.1177, step time: 1.0284
Batch 186/248, train_loss: 0.1214, step time: 1.0271
Batch 187/248, train_loss: 0.1807, step time: 1.0289
Batch 188/248, train_loss: 0.2766, step time: 1.0286
Batch 189/248, train_loss: 0.6052, step time: 1.0305
Batch 190/248, train_loss: 0.1369, step time: 1.0285
Batch 191/248, train_loss: 0.6181, step time: 1.0320
Batch 192/248, train_loss: 0.2810, step time: 1.0311
Batch 193/248, train_loss: 0.2699, step time: 1.0286
Batch 194/248, train_loss: 0.0898, step time: 1.0285
Batch 195/248, train_loss: 0.6941, step time: 1.0312
Batch 196/248, train_loss: 0.9997, step time: 1.0212
Batch 197/248, train_loss: 0.1911, step time: 1.0298
Batch 198/248, train_loss: 0.9779, step time: 1.0313
Batch 199/248, train_loss: 0.1419, step time: 1.0319
Batch 200/248, train_loss: 0.1400, step time: 1.0318
Batch 201/248, train_loss: 0.1247, step time: 1.0238
Batch 202/248, train_loss: 0.3801, step time: 1.0302
Batch 203/248, train_loss: 0.6533, step time: 1.0291
Batch 204/248, train_loss: 0.0849, step time: 1.0258
Batch 205/248, train_loss: 0.2436, step time: 1.0265
Batch 206/248, train_loss: 0.5101, step time: 1.0300
Batch 207/248, train_loss: 0.0928, step time: 1.0281
Batch 208/248, train_loss: 0.1489, step time: 1.0275
Batch 209/248, train_loss: 0.1685, step time: 1.0289
Batch 210/248, train_loss: 0.0620, step time: 1.0256
Batch 211/248, train_loss: 0.0619, step time: 1.0246
Batch 212/248, train_loss: 0.3061, step time: 1.0284
```

```
Batch 213/248, train_loss: 0.1220, step time: 1.0265
Batch 214/248, train_loss: 0.0735, step time: 1.0250
Batch 215/248, train_loss: 0.2093, step time: 1.0299
Batch 216/248, train_loss: 0.1389, step time: 1.0279
Batch 217/248, train_loss: 0.2686, step time: 1.0325
Batch 218/248, train_loss: 0.8160, step time: 1.0334
Batch 219/248, train_loss: 0.0754, step time: 1.0286
Batch 220/248, train_loss: 0.2132, step time: 1.0301
Batch 221/248, train_loss: 0.2848, step time: 1.0308
Batch 222/248, train_loss: 0.1981, step time: 1.0243
Batch 223/248, train_loss: 0.0439, step time: 1.0297
Batch 224/248, train_loss: 0.0801, step time: 1.0259
Batch 225/248, train_loss: 0.2303, step time: 1.0282
Batch 226/248, train_loss: 0.1463, step time: 1.0263
Batch 227/248, train_loss: 0.0892, step time: 1.0276
Batch 228/248, train_loss: 0.1410, step time: 1.0257
Batch 229/248, train_loss: 0.0972, step time: 1.0277
Batch 230/248, train_loss: 0.0675, step time: 1.0239
Batch 231/248, train_loss: 0.3517, step time: 1.0314
Batch 232/248, train_loss: 0.0700, step time: 1.0320
Batch 233/248, train_loss: 0.9087, step time: 1.0283
Batch 234/248, train_loss: 0.5077, step time: 1.0286
Batch 235/248, train_loss: 0.4387, step time: 1.0329
Batch 236/248, train_loss: 0.7762, step time: 1.0303
Batch 237/248, train_loss: 0.1094, step time: 1.0284
Batch 238/248, train_loss: 0.1132, step time: 1.0275
Batch 239/248, train_loss: 0.0741, step time: 1.0265
Batch 240/248, train_loss: 0.3218, step time: 1.0319
Batch 241/248, train_loss: 0.6645, step time: 1.0287
Batch 242/248, train_loss: 0.1775, step time: 1.0315
Batch 243/248, train_loss: 0.6629, step time: 1.0324
Batch 244/248, train_loss: 0.5046, step time: 1.0291
Batch 245/248, train_loss: 0.0660, step time: 1.0246
Batch 246/248, train_loss: 0.6596, step time: 1.0278
Batch 247/248, train_loss: 0.0809, step time: 1.0236
Batch 248/248, train_loss: 0.9998, step time: 1.0188
```

Labels



Predictions



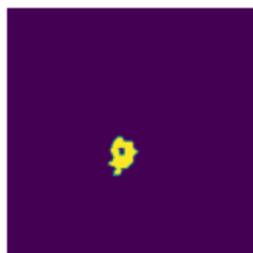


VAL

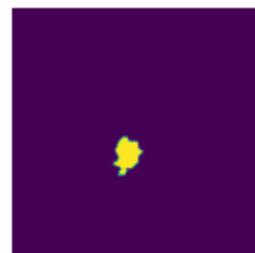
```
Batch 1/31, val_loss: 0.8894
Batch 2/31, val_loss: 0.9930
Batch 3/31, val_loss: 0.9623
Batch 4/31, val_loss: 0.9418
Batch 5/31, val_loss: 0.9916
Batch 6/31, val_loss: 0.6943
Batch 7/31, val_loss: 0.8287
Batch 8/31, val_loss: 0.9612
Batch 9/31, val_loss: 0.6909
Batch 10/31, val_loss: 0.9086
Batch 11/31, val_loss: 0.8258
Batch 12/31, val_loss: 0.9747
Batch 13/31, val_loss: 0.9791
Batch 14/31, val_loss: 0.9419
Batch 15/31, val_loss: 0.9907
Batch 16/31, val_loss: 0.9757
Batch 17/31, val_loss: 0.9733
Batch 18/31, val_loss: 0.9393
Batch 19/31, val_loss: 0.7416
Batch 20/31, val_loss: 0.8737
Batch 21/31, val_loss: 0.8649
Batch 22/31, val_loss: 0.9773
Batch 23/31, val_loss: 0.9800
Batch 24/31, val_loss: 0.7442
Batch 25/31, val_loss: 0.8014
Batch 26/31, val_loss: 0.9183
Batch 27/31, val_loss: 0.9733
Batch 28/31, val_loss: 0.7446
Batch 29/31, val_loss: 0.9843
Batch 30/31, val_loss: 0.9608
Batch 31/31, val_loss: 0.9827
```

Labels

TC



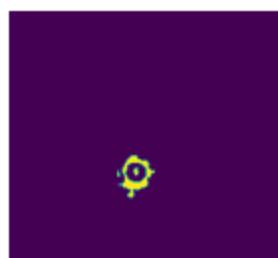
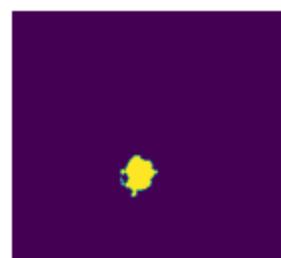
WT



ET



Predictions



epoch 43

average train loss: 0.3168
average validation loss: 0.9035
saved as best model: True
current mean dice: 0.4882
current TC dice: 0.5078
current WT dice: 0.5173
current ET dice: 0.4820
Best Mean Metric: 0.4882
time consuming of epoch 43 is: 1553.0377

epoch 44/100

TRAIN

Batch 1/248, train_loss: 0.0783, step time: 1.0266
Batch 2/248, train_loss: 0.7663, step time: 1.0342
Batch 3/248, train_loss: 0.2996, step time: 1.0281
Batch 4/248, train_loss: 0.9575, step time: 1.0286
Batch 5/248, train_loss: 0.2212, step time: 1.0258
Batch 6/248, train_loss: 0.5424, step time: 1.0301
Batch 7/248, train_loss: 0.0746, step time: 1.0284
Batch 8/248, train_loss: 0.7110, step time: 1.0287
Batch 9/248, train_loss: 0.0464, step time: 1.0258
Batch 10/248, train_loss: 0.2513, step time: 1.0329
Batch 11/248, train_loss: 0.2224, step time: 1.0328
Batch 12/248, train_loss: 0.6670, step time: 1.0329
Batch 13/248, train_loss: 0.3767, step time: 1.0349
Batch 14/248, train_loss: 0.0537, step time: 1.0282
Batch 15/248, train_loss: 0.3076, step time: 1.0290
Batch 16/248, train_loss: 0.1408, step time: 1.0295
Batch 17/248, train_loss: 0.3412, step time: 1.0309
Batch 18/248, train_loss: 0.4762, step time: 1.0301
Batch 19/248, train_loss: 0.1035, step time: 1.0301
Batch 20/248, train_loss: 0.1351, step time: 1.0280
Batch 21/248, train_loss: 0.0637, step time: 1.0235
Batch 22/248, train_loss: 0.9658, step time: 1.0263
Batch 23/248, train_loss: 0.9966, step time: 1.0223
Batch 24/248, train_loss: 0.0826, step time: 1.0259
Batch 25/248, train_loss: 0.0661, step time: 1.0265
Batch 26/248, train_loss: 0.6827, step time: 1.0316
Batch 27/248, train_loss: 0.0739, step time: 1.0247
Batch 28/248, train_loss: 0.1513, step time: 1.0293
Batch 29/248, train_loss: 0.4491, step time: 1.0331
Batch 30/248, train_loss: 0.6390, step time: 1.0327
Batch 31/248, train_loss: 0.3765, step time: 1.0322
Batch 32/248, train_loss: 0.0855, step time: 1.0289
Batch 33/248, train_loss: 0.0716, step time: 1.0255
Batch 34/248, train_loss: 0.0443, step time: 1.0220
Batch 35/248, train_loss: 0.0425, step time: 1.0270
Batch 36/248, train_loss: 0.6277, step time: 1.0288
Batch 37/248, train_loss: 0.1698, step time: 1.0241
Batch 38/248, train_loss: 0.2845, step time: 1.0259
Batch 39/248, train_loss: 0.2078, step time: 1.0249
Batch 40/248, train_loss: 0.7664, step time: 1.0288
Batch 41/248, train_loss: 0.2994, step time: 1.0286
Batch 42/248, train_loss: 0.0731, step time: 1.0255
Batch 43/248, train_loss: 0.0182, step time: 1.0211

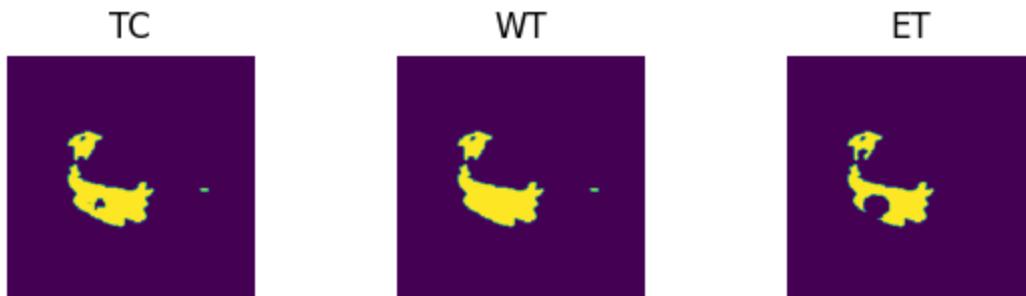
Batch 43/248, train_loss: 0.0402, step time: 1.0244
Batch 44/248, train_loss: 0.3983, step time: 1.0307
Batch 45/248, train_loss: 0.4092, step time: 1.0294
Batch 46/248, train_loss: 0.1691, step time: 1.0284
Batch 47/248, train_loss: 0.0710, step time: 1.0273
Batch 48/248, train_loss: 0.2191, step time: 1.0264
Batch 49/248, train_loss: 0.5508, step time: 1.0293
Batch 50/248, train_loss: 0.1266, step time: 1.0313
Batch 51/248, train_loss: 0.1201, step time: 1.0321
Batch 52/248, train_loss: 0.0982, step time: 1.0264
Batch 53/248, train_loss: 0.4081, step time: 1.0307
Batch 54/248, train_loss: 0.2397, step time: 1.0324
Batch 55/248, train_loss: 0.3923, step time: 1.0323
Batch 56/248, train_loss: 0.2440, step time: 1.0285
Batch 57/248, train_loss: 0.3931, step time: 1.0254
Batch 58/248, train_loss: 0.0882, step time: 1.0257
Batch 59/248, train_loss: 0.0854, step time: 1.0269
Batch 60/248, train_loss: 0.0548, step time: 1.0262
Batch 61/248, train_loss: 0.1057, step time: 1.0257
Batch 62/248, train_loss: 0.2759, step time: 1.0295
Batch 63/248, train_loss: 0.6969, step time: 1.0287
Batch 64/248, train_loss: 0.4301, step time: 1.0277
Batch 65/248, train_loss: 0.2418, step time: 1.0262
Batch 66/248, train_loss: 0.1372, step time: 1.0323
Batch 67/248, train_loss: 0.0709, step time: 1.0272
Batch 68/248, train_loss: 0.1346, step time: 1.0272
Batch 69/248, train_loss: 0.4256, step time: 1.0305
Batch 70/248, train_loss: 0.1379, step time: 1.0298
Batch 71/248, train_loss: 0.1607, step time: 1.0302
Batch 72/248, train_loss: 0.0623, step time: 1.0248
Batch 73/248, train_loss: 0.5740, step time: 1.0268
Batch 74/248, train_loss: 0.9977, step time: 1.0241
Batch 75/248, train_loss: 0.1394, step time: 1.0280
Batch 76/248, train_loss: 0.6194, step time: 1.0312
Batch 77/248, train_loss: 0.8910, step time: 1.0299
Batch 78/248, train_loss: 0.1374, step time: 1.0259
Batch 79/248, train_loss: 0.1270, step time: 1.0318
Batch 80/248, train_loss: 0.1840, step time: 1.0267
Batch 81/248, train_loss: 0.2091, step time: 1.0296
Batch 82/248, train_loss: 0.0804, step time: 1.0300
Batch 83/248, train_loss: 0.7155, step time: 1.0300
Batch 84/248, train_loss: 0.2922, step time: 1.0407
Batch 85/248, train_loss: 0.4173, step time: 1.0283
Batch 86/248, train_loss: 0.4075, step time: 1.0268
Batch 87/248, train_loss: 0.4824, step time: 1.0280
Batch 88/248, train_loss: 0.3509, step time: 1.0289
Batch 89/248, train_loss: 0.1114, step time: 1.0258
Batch 90/248, train_loss: 0.5527, step time: 1.0305
Batch 91/248, train_loss: 0.5394, step time: 1.0298
Batch 92/248, train_loss: 0.3424, step time: 1.0304
Batch 93/248, train_loss: 0.1488, step time: 1.0257
Batch 94/248, train_loss: 0.3390, step time: 1.0330
Batch 95/248, train_loss: 0.1764, step time: 1.0271
Batch 96/248, train_loss: 0.1719, step time: 1.0350
Batch 97/248, train_loss: 0.5666, step time: 1.0359
Batch 98/248, train_loss: 0.1280, step time: 1.0275
Batch 99/248, train_loss: 0.3190, step time: 1.0344

Batch 100/248, train_loss: 0.4381, step time: 1.0337
Batch 101/248, train_loss: 0.0550, step time: 1.0262
Batch 102/248, train_loss: 0.1186, step time: 1.0311
Batch 103/248, train_loss: 0.4762, step time: 1.0298
Batch 104/248, train_loss: 0.3927, step time: 1.0293
Batch 105/248, train_loss: 0.0808, step time: 1.0277
Batch 106/248, train_loss: 0.1230, step time: 1.0304
Batch 107/248, train_loss: 0.2919, step time: 1.0301
Batch 108/248, train_loss: 0.4789, step time: 1.0302
Batch 109/248, train_loss: 0.9868, step time: 1.0265
Batch 110/248, train_loss: 0.2145, step time: 1.0312
Batch 111/248, train_loss: 0.0981, step time: 1.0294
Batch 112/248, train_loss: 0.1185, step time: 1.0243
Batch 113/248, train_loss: 0.9038, step time: 1.0319
Batch 114/248, train_loss: 0.1473, step time: 1.0286
Batch 115/248, train_loss: 0.2022, step time: 1.0292
Batch 116/248, train_loss: 0.0969, step time: 1.0264
Batch 117/248, train_loss: 0.6494, step time: 1.0315
Batch 118/248, train_loss: 0.7946, step time: 1.0267
Batch 119/248, train_loss: 0.3893, step time: 1.0290
Batch 120/248, train_loss: 0.2043, step time: 1.0251
Batch 121/248, train_loss: 0.3245, step time: 1.0285
Batch 122/248, train_loss: 0.3739, step time: 1.0273
Batch 123/248, train_loss: 0.1111, step time: 1.0285
Batch 124/248, train_loss: 0.3140, step time: 1.0306
Batch 125/248, train_loss: 0.6566, step time: 1.0306
Batch 126/248, train_loss: 0.2190, step time: 1.0274
Batch 127/248, train_loss: 0.1194, step time: 1.0326
Batch 128/248, train_loss: 0.3409, step time: 1.0307
Batch 129/248, train_loss: 0.1183, step time: 1.0285
Batch 130/248, train_loss: 0.1023, step time: 1.0278
Batch 131/248, train_loss: 0.6754, step time: 1.0295
Batch 132/248, train_loss: 0.4729, step time: 1.0298
Batch 133/248, train_loss: 0.1514, step time: 1.0270
Batch 134/248, train_loss: 0.8552, step time: 1.0281
Batch 135/248, train_loss: 0.3135, step time: 1.0287
Batch 136/248, train_loss: 0.1038, step time: 1.0274
Batch 137/248, train_loss: 0.1177, step time: 1.0271
Batch 138/248, train_loss: 0.0680, step time: 1.0243
Batch 139/248, train_loss: 0.2538, step time: 1.0288
Batch 140/248, train_loss: 0.1959, step time: 1.0289
Batch 141/248, train_loss: 0.2264, step time: 1.0307
Batch 142/248, train_loss: 0.5722, step time: 1.0294
Batch 143/248, train_loss: 0.3015, step time: 1.0271
Batch 144/248, train_loss: 0.1200, step time: 1.0258
Batch 145/248, train_loss: 0.0917, step time: 1.0254
Batch 146/248, train_loss: 0.9599, step time: 1.0292
Batch 147/248, train_loss: 0.0412, step time: 1.0252
Batch 148/248, train_loss: 0.7977, step time: 1.0303
Batch 149/248, train_loss: 0.1178, step time: 1.0276
Batch 150/248, train_loss: 0.6784, step time: 1.0258
Batch 151/248, train_loss: 0.3838, step time: 1.0288
Batch 152/248, train_loss: 0.0396, step time: 1.0230
Batch 153/248, train_loss: 0.3547, step time: 1.0296
Batch 154/248, train_loss: 0.6502, step time: 1.0309
Batch 155/248, train_loss: 0.1402, step time: 1.0312
Batch 156/248, train_loss: 0.2222, step time: 1.0212

Batch 150/248, train_loss: 0.2292, step time: 1.0259
Batch 151/248, train_loss: 0.2476, step time: 1.0318
Batch 152/248, train_loss: 0.9875, step time: 1.0261
Batch 153/248, train_loss: 0.5159, step time: 1.0369
Batch 154/248, train_loss: 0.0837, step time: 1.0276
Batch 155/248, train_loss: 0.0767, step time: 1.0265
Batch 156/248, train_loss: 0.1034, step time: 1.0292
Batch 157/248, train_loss: 0.1257, step time: 1.0290
Batch 158/248, train_loss: 0.2549, step time: 1.0273
Batch 159/248, train_loss: 0.8165, step time: 1.0279
Batch 160/248, train_loss: 0.0912, step time: 1.0300
Batch 161/248, train_loss: 0.1861, step time: 1.0285
Batch 162/248, train_loss: 0.1857, step time: 1.0266
Batch 163/248, train_loss: 0.1060, step time: 1.0288
Batch 164/248, train_loss: 0.6813, step time: 1.0282
Batch 165/248, train_loss: 0.0923, step time: 1.0261
Batch 166/248, train_loss: 0.5070, step time: 1.0348
Batch 167/248, train_loss: 0.1052, step time: 1.0315
Batch 168/248, train_loss: 0.6070, step time: 1.0298
Batch 169/248, train_loss: 0.1706, step time: 1.0300
Batch 170/248, train_loss: 0.4454, step time: 1.0294
Batch 171/248, train_loss: 0.2845, step time: 1.0314
Batch 172/248, train_loss: 0.4259, step time: 1.0291
Batch 173/248, train_loss: 0.0924, step time: 1.0280
Batch 174/248, train_loss: 0.3834, step time: 1.0289
Batch 175/248, train_loss: 0.1161, step time: 1.0256
Batch 176/248, train_loss: 0.9408, step time: 1.0280
Batch 177/248, train_loss: 0.1826, step time: 1.0290
Batch 178/248, train_loss: 0.4132, step time: 1.0298
Batch 179/248, train_loss: 0.1040, step time: 1.0297
Batch 180/248, train_loss: 0.1168, step time: 1.0274
Batch 181/248, train_loss: 0.1775, step time: 1.0292
Batch 182/248, train_loss: 0.2941, step time: 1.0278
Batch 183/248, train_loss: 0.5934, step time: 1.0286
Batch 184/248, train_loss: 0.1453, step time: 1.0320
Batch 185/248, train_loss: 0.6322, step time: 1.0296
Batch 186/248, train_loss: 0.2521, step time: 1.0253
Batch 187/248, train_loss: 0.3276, step time: 1.0270
Batch 188/248, train_loss: 0.0819, step time: 1.0273
Batch 189/248, train_loss: 0.8171, step time: 1.0310
Batch 190/248, train_loss: 0.9997, step time: 1.0222
Batch 191/248, train_loss: 0.1887, step time: 1.0292
Batch 192/248, train_loss: 0.9779, step time: 1.0284
Batch 193/248, train_loss: 0.1587, step time: 1.0323
Batch 194/248, train_loss: 0.1327, step time: 1.0272
Batch 195/248, train_loss: 0.1273, step time: 1.0236
Batch 196/248, train_loss: 0.3860, step time: 1.0300
Batch 197/248, train_loss: 0.5070, step time: 1.0276
Batch 198/248, train_loss: 0.0793, step time: 1.0247
Batch 199/248, train_loss: 0.2504, step time: 1.0263
Batch 200/248, train_loss: 0.6393, step time: 1.0340
Batch 201/248, train_loss: 0.1038, step time: 1.0293
Batch 202/248, train_loss: 0.1973, step time: 1.0271
Batch 203/248, train_loss: 0.1653, step time: 1.0318
Batch 204/248, train_loss: 0.0574, step time: 1.0266
Batch 205/248, train_loss: 0.0694, step time: 1.0263
Batch 206/248, train_loss: 0.3263, step time: 1.0283

```
Batch 213/248, train_loss: 0.1588, step time: 1.0331
Batch 214/248, train_loss: 0.0741, step time: 1.0283
Batch 215/248, train_loss: 0.2130, step time: 1.0319
Batch 216/248, train_loss: 0.1561, step time: 1.0265
Batch 217/248, train_loss: 0.2579, step time: 1.0332
Batch 218/248, train_loss: 0.7935, step time: 1.0310
Batch 219/248, train_loss: 0.0578, step time: 1.0280
Batch 220/248, train_loss: 0.2290, step time: 1.0287
Batch 221/248, train_loss: 0.2948, step time: 1.0286
Batch 222/248, train_loss: 0.2219, step time: 1.0268
Batch 223/248, train_loss: 0.0439, step time: 1.0247
Batch 224/248, train_loss: 0.0796, step time: 1.0257
Batch 225/248, train_loss: 0.2187, step time: 1.0307
Batch 226/248, train_loss: 0.2176, step time: 1.0289
Batch 227/248, train_loss: 0.0949, step time: 1.0236
Batch 228/248, train_loss: 0.1525, step time: 1.0288
Batch 229/248, train_loss: 0.0996, step time: 1.0262
Batch 230/248, train_loss: 0.0680, step time: 1.0243
Batch 231/248, train_loss: 0.4310, step time: 1.0319
Batch 232/248, train_loss: 0.0710, step time: 1.0254
Batch 233/248, train_loss: 0.8615, step time: 1.0320
Batch 234/248, train_loss: 0.4858, step time: 1.0315
Batch 235/248, train_loss: 0.4832, step time: 1.0329
Batch 236/248, train_loss: 0.8382, step time: 1.0324
Batch 237/248, train_loss: 0.1076, step time: 1.0293
Batch 238/248, train_loss: 0.1136, step time: 1.0286
Batch 239/248, train_loss: 0.0666, step time: 1.0246
Batch 240/248, train_loss: 0.2745, step time: 1.0317
Batch 241/248, train_loss: 0.6421, step time: 1.0329
Batch 242/248, train_loss: 0.1850, step time: 1.0299
Batch 243/248, train_loss: 0.6421, step time: 1.0304
Batch 244/248, train_loss: 0.5812, step time: 1.0304
Batch 245/248, train_loss: 0.0625, step time: 1.0252
Batch 246/248, train_loss: 0.6266, step time: 1.0279
Batch 247/248, train_loss: 0.0776, step time: 1.0238
Batch 248/248, train_loss: 0.9995, step time: 1.0212
```

Labels



Predictions



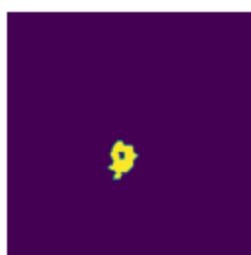


VAL

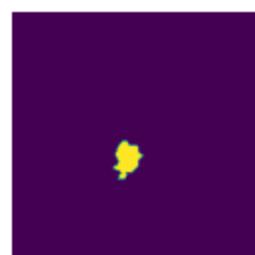
```
Batch 1/31, val_loss: 0.9332
Batch 2/31, val_loss: 0.9929
Batch 3/31, val_loss: 0.9629
Batch 4/31, val_loss: 0.9411
Batch 5/31, val_loss: 0.9930
Batch 6/31, val_loss: 0.7058
Batch 7/31, val_loss: 0.8328
Batch 8/31, val_loss: 0.9624
Batch 9/31, val_loss: 0.6926
Batch 10/31, val_loss: 0.9092
Batch 11/31, val_loss: 0.8264
Batch 12/31, val_loss: 0.9766
Batch 13/31, val_loss: 0.9822
Batch 14/31, val_loss: 0.9439
Batch 15/31, val_loss: 0.9900
Batch 16/31, val_loss: 0.9738
Batch 17/31, val_loss: 0.9748
Batch 18/31, val_loss: 0.9411
Batch 19/31, val_loss: 0.7473
Batch 20/31, val_loss: 0.8783
Batch 21/31, val_loss: 0.8682
Batch 22/31, val_loss: 0.9767
Batch 23/31, val_loss: 0.9784
Batch 24/31, val_loss: 0.7449
Batch 25/31, val_loss: 0.8007
Batch 26/31, val_loss: 0.9178
Batch 27/31, val_loss: 0.9732
Batch 28/31, val_loss: 0.7476
Batch 29/31, val_loss: 0.9819
Batch 30/31, val_loss: 0.9598
Batch 31/31, val_loss: 0.9841
```

Labels

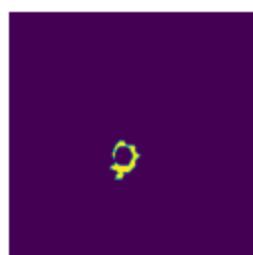
TC



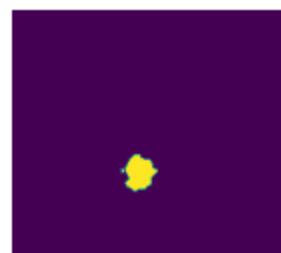
WT



ET



Predictions



```
epoch 44
    average train loss: 0.3185
    average validation loss: 0.9062
    saved as best model: True
    current mean dice: 0.4991
    current TC dice: 0.5269
    current WT dice: 0.5322
    current ET dice: 0.4788
Best Mean Metric: 0.4991
time consuming of epoch 44 is: 1554.8705
-----
epoch 45/100
TRAIN
    Batch 1/248, train_loss: 0.0757, step time: 1.0261
    Batch 2/248, train_loss: 0.7489, step time: 1.0310
    Batch 3/248, train_loss: 0.3366, step time: 1.0276
    Batch 4/248, train_loss: 0.9479, step time: 1.0292
    Batch 5/248, train_loss: 0.2223, step time: 1.0295
    Batch 6/248, train_loss: 0.6205, step time: 1.0287
    Batch 7/248, train_loss: 0.0695, step time: 1.0293
    Batch 8/248, train_loss: 0.7097, step time: 1.0269
    Batch 9/248, train_loss: 0.0465, step time: 1.0251
    Batch 10/248, train_loss: 0.2618, step time: 1.0288
    Batch 11/248, train_loss: 0.2460, step time: 1.0278
    Batch 12/248, train_loss: 0.7035, step time: 1.0340
    Batch 13/248, train_loss: 0.3636, step time: 1.0304
    Batch 14/248, train_loss: 0.0516, step time: 1.0229
    Batch 15/248, train_loss: 0.3268, step time: 1.0309
    Batch 16/248, train_loss: 0.1426, step time: 1.0267
    Batch 17/248, train_loss: 0.3420, step time: 1.0339
    Batch 18/248, train_loss: 0.5909, step time: 1.0286
    Batch 19/248, train_loss: 0.1047, step time: 1.0269
    Batch 20/248, train_loss: 0.1373, step time: 1.0307
    Batch 21/248, train_loss: 0.0524, step time: 1.0240
    Batch 22/248, train_loss: 0.9913, step time: 1.0274
    Batch 23/248, train_loss: 0.9951, step time: 1.0257
    Batch 24/248, train_loss: 0.0870, step time: 1.0298
    Batch 25/248, train_loss: 0.0754, step time: 1.0297
    Batch 26/248, train_loss: 0.5917, step time: 1.0352
    Batch 27/248, train_loss: 0.0757, step time: 1.0277
    Batch 28/248, train_loss: 0.1535, step time: 1.0333
    Batch 29/248, train_loss: 0.4108, step time: 1.0308
    Batch 30/248, train_loss: 0.5396, step time: 1.0316
    Batch 31/248, train_loss: 0.2998, step time: 1.0296
    Batch 32/248, train_loss: 0.0842, step time: 1.0264
    Batch 33/248, train_loss: 0.0762, step time: 1.0247
    Batch 34/248, train_loss: 0.0408, step time: 1.0225
    Batch 35/248, train_loss: 0.0400, step time: 1.0219
    Batch 36/248, train_loss: 0.5381, step time: 1.0272
    Batch 37/248, train_loss: 0.1676, step time: 1.0270
    Batch 38/248, train_loss: 0.2805, step time: 1.0237
    Batch 39/248, train_loss: 0.2065, step time: 1.0274
    Batch 40/248, train_loss: 0.9617, step time: 1.0282
    Batch 41/248, train_loss: 0.2538, step time: 1.0280
    Batch 42/248, train_loss: 0.0724, step time: 1.0241
```

Batch 43/248, train_loss: 0.0603, step time: 1.0261
Batch 44/248, train_loss: 0.2897, step time: 1.0279
Batch 45/248, train_loss: 0.3931, step time: 1.0317
Batch 46/248, train_loss: 0.1573, step time: 1.0309
Batch 47/248, train_loss: 0.2132, step time: 1.0325
Batch 48/248, train_loss: 0.2785, step time: 1.0257
Batch 49/248, train_loss: 0.4884, step time: 1.0326
Batch 50/248, train_loss: 0.1467, step time: 1.0291
Batch 51/248, train_loss: 0.1220, step time: 1.0293
Batch 52/248, train_loss: 0.1034, step time: 1.0293
Batch 53/248, train_loss: 0.4021, step time: 1.0309
Batch 54/248, train_loss: 0.2254, step time: 1.0295
Batch 55/248, train_loss: 0.4070, step time: 1.0320
Batch 56/248, train_loss: 0.1902, step time: 1.0253
Batch 57/248, train_loss: 0.3594, step time: 1.0277
Batch 58/248, train_loss: 0.0871, step time: 1.0260
Batch 59/248, train_loss: 0.0883, step time: 1.0238
Batch 60/248, train_loss: 0.0553, step time: 1.0225
Batch 61/248, train_loss: 0.0974, step time: 1.0265
Batch 62/248, train_loss: 0.2128, step time: 1.0256
Batch 63/248, train_loss: 0.6843, step time: 1.0291
Batch 64/248, train_loss: 0.4169, step time: 1.0303
Batch 65/248, train_loss: 0.3179, step time: 1.0292
Batch 66/248, train_loss: 0.1520, step time: 1.0262
Batch 67/248, train_loss: 0.0697, step time: 1.0242
Batch 68/248, train_loss: 0.1634, step time: 1.0301
Batch 69/248, train_loss: 0.4463, step time: 1.0340
Batch 70/248, train_loss: 0.1522, step time: 1.0275
Batch 71/248, train_loss: 0.1334, step time: 1.0304
Batch 72/248, train_loss: 0.0565, step time: 1.0223
Batch 73/248, train_loss: 0.2129, step time: 1.0277
Batch 74/248, train_loss: 0.9967, step time: 1.0241
Batch 75/248, train_loss: 0.1338, step time: 1.0319
Batch 76/248, train_loss: 0.6483, step time: 1.0297
Batch 77/248, train_loss: 0.8100, step time: 1.0288
Batch 78/248, train_loss: 0.1185, step time: 1.0308
Batch 79/248, train_loss: 0.1385, step time: 1.0305
Batch 80/248, train_loss: 0.1869, step time: 1.0281
Batch 81/248, train_loss: 0.1701, step time: 1.0303
Batch 82/248, train_loss: 0.0771, step time: 1.0264
Batch 83/248, train_loss: 0.5721, step time: 1.0308
Batch 84/248, train_loss: 0.2709, step time: 1.0291
Batch 85/248, train_loss: 0.5609, step time: 1.0275
Batch 86/248, train_loss: 0.2437, step time: 1.0295
Batch 87/248, train_loss: 0.4767, step time: 1.0285
Batch 88/248, train_loss: 0.3394, step time: 1.0308
Batch 89/248, train_loss: 0.0975, step time: 1.0269
Batch 90/248, train_loss: 0.4071, step time: 1.0304
Batch 91/248, train_loss: 0.4437, step time: 1.0310
Batch 92/248, train_loss: 0.3542, step time: 1.0309
Batch 93/248, train_loss: 0.1447, step time: 1.0306
Batch 94/248, train_loss: 0.3723, step time: 1.0313
Batch 95/248, train_loss: 0.1741, step time: 1.0265
Batch 96/248, train_loss: 0.1959, step time: 1.0274
Batch 97/248, train_loss: 0.5581, step time: 1.0317
Batch 98/248, train_loss: 0.1178, step time: 1.0251
Batch 99/248. train loss: 0.2942. step time: 1.0326

Batch 100/248, train_loss: 0.3068, step time: 1.0307
Batch 101/248, train_loss: 0.0606, step time: 1.0268
Batch 102/248, train_loss: 0.1015, step time: 1.0252
Batch 103/248, train_loss: 0.5733, step time: 1.0307
Batch 104/248, train_loss: 0.3775, step time: 1.0271
Batch 105/248, train_loss: 0.0816, step time: 1.0268
Batch 106/248, train_loss: 0.1410, step time: 1.0297
Batch 107/248, train_loss: 0.2784, step time: 1.0285
Batch 108/248, train_loss: 0.5127, step time: 1.0301
Batch 109/248, train_loss: 0.9506, step time: 1.0278
Batch 110/248, train_loss: 0.2601, step time: 1.0318
Batch 111/248, train_loss: 0.1232, step time: 1.0256
Batch 112/248, train_loss: 0.1292, step time: 1.0270
Batch 113/248, train_loss: 0.8446, step time: 1.0281
Batch 114/248, train_loss: 0.1537, step time: 1.0275
Batch 115/248, train_loss: 0.2046, step time: 1.0290
Batch 116/248, train_loss: 0.0982, step time: 1.0271
Batch 117/248, train_loss: 0.9057, step time: 1.0300
Batch 118/248, train_loss: 0.7746, step time: 1.0275
Batch 119/248, train_loss: 0.4388, step time: 1.0286
Batch 120/248, train_loss: 0.2857, step time: 1.0300
Batch 121/248, train_loss: 0.3022, step time: 1.0280
Batch 122/248, train_loss: 0.6121, step time: 1.0317
Batch 123/248, train_loss: 0.0980, step time: 1.0240
Batch 124/248, train_loss: 0.4954, step time: 1.0269
Batch 125/248, train_loss: 0.5885, step time: 1.0316
Batch 126/248, train_loss: 0.2005, step time: 1.0291
Batch 127/248, train_loss: 0.1190, step time: 1.0298
Batch 128/248, train_loss: 0.2942, step time: 1.0292
Batch 129/248, train_loss: 0.1329, step time: 1.0279
Batch 130/248, train_loss: 0.0971, step time: 1.0278
Batch 131/248, train_loss: 0.5694, step time: 1.0289
Batch 132/248, train_loss: 0.4504, step time: 1.0310
Batch 133/248, train_loss: 0.1223, step time: 1.0261
Batch 134/248, train_loss: 0.8698, step time: 1.0289
Batch 135/248, train_loss: 0.3149, step time: 1.0315
Batch 136/248, train_loss: 0.1200, step time: 1.0277
Batch 137/248, train_loss: 0.1087, step time: 1.0246
Batch 138/248, train_loss: 0.0654, step time: 1.0249
Batch 139/248, train_loss: 0.1972, step time: 1.0297
Batch 140/248, train_loss: 0.1414, step time: 1.0293
Batch 141/248, train_loss: 0.2685, step time: 1.0276
Batch 142/248, train_loss: 0.5823, step time: 1.0315
Batch 143/248, train_loss: 0.2858, step time: 1.0274
Batch 144/248, train_loss: 0.1177, step time: 1.0256
Batch 145/248, train_loss: 0.0687, step time: 1.0269
Batch 146/248, train_loss: 0.9397, step time: 1.0290
Batch 147/248, train_loss: 0.0474, step time: 1.0259
Batch 148/248, train_loss: 0.8361, step time: 1.0274
Batch 149/248, train_loss: 0.1323, step time: 1.0311
Batch 150/248, train_loss: 0.7047, step time: 1.0272
Batch 151/248, train_loss: 0.4252, step time: 1.0304
Batch 152/248, train_loss: 0.0394, step time: 1.0248
Batch 153/248, train_loss: 0.2129, step time: 1.0312
Batch 154/248, train_loss: 0.7673, step time: 1.0324
Batch 155/248, train_loss: 0.1452, step time: 1.0296

Batch 156/248, train_loss: 0.2179, step time: 1.0291
Batch 157/248, train_loss: 0.2729, step time: 1.0309
Batch 158/248, train_loss: 0.9852, step time: 1.0233
Batch 159/248, train_loss: 0.4364, step time: 1.0310
Batch 160/248, train_loss: 0.0866, step time: 1.0276
Batch 161/248, train_loss: 0.0989, step time: 1.0273
Batch 162/248, train_loss: 0.1211, step time: 1.0282
Batch 163/248, train_loss: 0.1909, step time: 1.0320
Batch 164/248, train_loss: 0.2054, step time: 1.0317
Batch 165/248, train_loss: 0.8125, step time: 1.0321
Batch 166/248, train_loss: 0.1001, step time: 1.0318
Batch 167/248, train_loss: 0.2010, step time: 1.0258
Batch 168/248, train_loss: 0.1505, step time: 1.0276
Batch 169/248, train_loss: 0.1066, step time: 1.0281
Batch 170/248, train_loss: 0.6933, step time: 1.0264
Batch 171/248, train_loss: 0.0908, step time: 1.0287
Batch 172/248, train_loss: 0.5128, step time: 1.0302
Batch 173/248, train_loss: 0.0928, step time: 1.0275
Batch 174/248, train_loss: 0.8151, step time: 1.0303
Batch 175/248, train_loss: 0.1619, step time: 1.0281
Batch 176/248, train_loss: 0.3653, step time: 1.0297
Batch 177/248, train_loss: 0.2650, step time: 1.0324
Batch 178/248, train_loss: 0.3553, step time: 1.0327
Batch 179/248, train_loss: 0.0958, step time: 1.0256
Batch 180/248, train_loss: 0.3522, step time: 1.0274
Batch 181/248, train_loss: 0.1155, step time: 1.0252
Batch 182/248, train_loss: 0.9684, step time: 1.0262
Batch 183/248, train_loss: 0.1851, step time: 1.0348
Batch 184/248, train_loss: 0.3970, step time: 1.0255
Batch 185/248, train_loss: 0.1056, step time: 1.0274
Batch 186/248, train_loss: 0.1161, step time: 1.0293
Batch 187/248, train_loss: 0.1706, step time: 1.0354
Batch 188/248, train_loss: 0.2365, step time: 1.0263
Batch 189/248, train_loss: 0.6303, step time: 1.0305
Batch 190/248, train_loss: 0.1277, step time: 1.0271
Batch 191/248, train_loss: 0.6024, step time: 1.0291
Batch 192/248, train_loss: 0.2544, step time: 1.0293
Batch 193/248, train_loss: 0.2805, step time: 1.0267
Batch 194/248, train_loss: 0.0784, step time: 1.0306
Batch 195/248, train_loss: 0.6396, step time: 1.0269
Batch 196/248, train_loss: 0.9985, step time: 1.0267
Batch 197/248, train_loss: 0.1878, step time: 1.0303
Batch 198/248, train_loss: 0.9437, step time: 1.0305
Batch 199/248, train_loss: 0.1408, step time: 1.0285
Batch 200/248, train_loss: 0.1197, step time: 1.0257
Batch 201/248, train_loss: 0.1293, step time: 1.0244
Batch 202/248, train_loss: 0.3500, step time: 1.0288
Batch 203/248, train_loss: 0.5514, step time: 1.0267
Batch 204/248, train_loss: 0.0927, step time: 1.0228
Batch 205/248, train_loss: 0.2346, step time: 1.0266
Batch 206/248, train_loss: 0.5427, step time: 1.0305
Batch 207/248, train_loss: 0.0859, step time: 1.0323
Batch 208/248, train_loss: 0.1773, step time: 1.0278
Batch 209/248, train_loss: 0.1517, step time: 1.0307
Batch 210/248, train_loss: 0.0569, step time: 1.0247
Batch 211/248, train_loss: 0.0604, step time: 1.0247
Batch 212/248, train_loss: 0.2513, step time: 1.0267

```
Batch 213/248, train_loss: 0.1564, step time: 1.0283
Batch 214/248, train_loss: 0.0703, step time: 1.0258
Batch 215/248, train_loss: 0.2209, step time: 1.0296
Batch 216/248, train_loss: 0.1262, step time: 1.0266
Batch 217/248, train_loss: 0.2559, step time: 1.0264
Batch 218/248, train_loss: 0.7885, step time: 1.0281
Batch 219/248, train_loss: 0.0798, step time: 1.0278
Batch 220/248, train_loss: 0.2348, step time: 1.0290
Batch 221/248, train_loss: 0.2328, step time: 1.0273
Batch 222/248, train_loss: 0.1872, step time: 1.0272
Batch 223/248, train_loss: 0.0432, step time: 1.0265
Batch 224/248, train_loss: 0.0780, step time: 1.0265
Batch 225/248, train_loss: 0.2384, step time: 1.0304
Batch 226/248, train_loss: 0.1822, step time: 1.0273
Batch 227/248, train_loss: 0.0877, step time: 1.0269
Batch 228/248, train_loss: 0.1408, step time: 1.0286
Batch 229/248, train_loss: 0.1044, step time: 1.0245
Batch 230/248, train_loss: 0.0795, step time: 1.0245
Batch 231/248, train_loss: 0.3817, step time: 1.0268
Batch 232/248, train_loss: 0.0757, step time: 1.0265
Batch 233/248, train_loss: 0.9434, step time: 1.0265
Batch 234/248, train_loss: 0.4969, step time: 1.0300
Batch 235/248, train_loss: 0.4643, step time: 1.0327
Batch 236/248, train_loss: 0.8558, step time: 1.0317
Batch 237/248, train_loss: 0.1114, step time: 1.0305
Batch 238/248, train_loss: 0.1027, step time: 1.0253
Batch 239/248, train_loss: 0.0736, step time: 1.0258
Batch 240/248, train_loss: 0.3335, step time: 1.0316
Batch 241/248, train_loss: 0.6176, step time: 1.0333
Batch 242/248, train_loss: 0.1534, step time: 1.0258
Batch 243/248, train_loss: 0.5974, step time: 1.0294
Batch 244/248, train_loss: 0.5392, step time: 1.0318
Batch 245/248, train_loss: 0.0655, step time: 1.0247
Batch 246/248, train_loss: 0.5977, step time: 1.0280
Batch 247/248, train_loss: 0.0789, step time: 1.0236
Batch 248/248, train_loss: 0.9998, step time: 1.0182
```

Labels

TC



WT



ET



Predictions



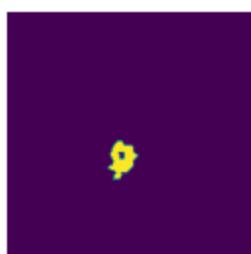


VAL

Batch 1/31, val_loss: 0.9316
Batch 2/31, val_loss: 0.9929
Batch 3/31, val_loss: 0.9618
Batch 4/31, val_loss: 0.9406
Batch 5/31, val_loss: 0.9925
Batch 6/31, val_loss: 0.6982
Batch 7/31, val_loss: 0.8336
Batch 8/31, val_loss: 0.9516
Batch 9/31, val_loss: 0.6926
Batch 10/31, val_loss: 0.9102
Batch 11/31, val_loss: 0.8240
Batch 12/31, val_loss: 0.9755
Batch 13/31, val_loss: 0.9817
Batch 14/31, val_loss: 0.9446
Batch 15/31, val_loss: 0.9935
Batch 16/31, val_loss: 0.9736
Batch 17/31, val_loss: 0.9717
Batch 18/31, val_loss: 0.9393
Batch 19/31, val_loss: 0.7501
Batch 20/31, val_loss: 0.8767
Batch 21/31, val_loss: 0.8664
Batch 22/31, val_loss: 0.9752
Batch 23/31, val_loss: 0.9790
Batch 24/31, val_loss: 0.7451
Batch 25/31, val_loss: 0.7999
Batch 26/31, val_loss: 0.9180
Batch 27/31, val_loss: 0.9706
Batch 28/31, val_loss: 0.7430
Batch 29/31, val_loss: 0.9837
Batch 30/31, val_loss: 0.9546
Batch 31/31, val_loss: 0.9823

Labels

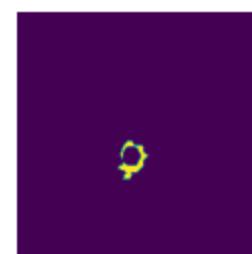
TC



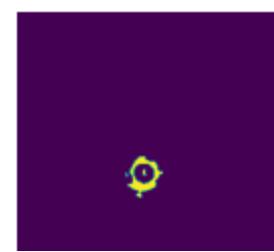
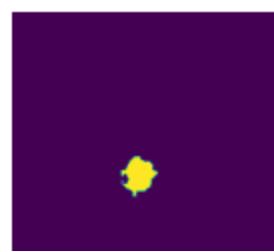
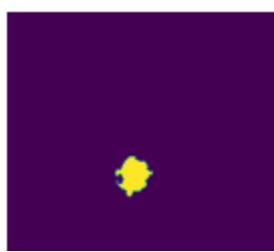
WT



ET



Predictions



epoch 45
average train loss: 0.3136
average validation loss: 0.9050
saved as best model: False
current mean dice: 0.4932
current TC dice: 0.5141
current WT dice: 0.5216
current ET dice: 0.4869
Best Mean Metric: 0.4991
time consuming of epoch 45 is: 1547.4637

epoch 46/100
TRAIN

Batch 1/248, train_loss: 0.0778, step time: 1.0284
Batch 2/248, train_loss: 0.8429, step time: 1.0332
Batch 3/248, train_loss: 0.2856, step time: 1.0323
Batch 4/248, train_loss: 0.9137, step time: 1.0312
Batch 5/248, train_loss: 0.2283, step time: 1.0287
Batch 6/248, train_loss: 0.4840, step time: 1.0309
Batch 7/248, train_loss: 0.0707, step time: 1.0247
Batch 8/248, train_loss: 0.7185, step time: 1.0251
Batch 9/248, train_loss: 0.0468, step time: 1.0289
Batch 10/248, train_loss: 0.2552, step time: 1.0314
Batch 11/248, train_loss: 0.2139, step time: 1.0289
Batch 12/248, train_loss: 0.6359, step time: 1.0294
Batch 13/248, train_loss: 0.3208, step time: 1.0270
Batch 14/248, train_loss: 0.0542, step time: 1.0247
Batch 15/248, train_loss: 0.3233, step time: 1.0266
Batch 16/248, train_loss: 0.1476, step time: 1.0305
Batch 17/248, train_loss: 0.3196, step time: 1.0319
Batch 18/248, train_loss: 0.5299, step time: 1.0308
Batch 19/248, train_loss: 0.1042, step time: 1.0247
Batch 20/248, train_loss: 0.1812, step time: 1.0292
Batch 21/248, train_loss: 0.0599, step time: 1.0282
Batch 22/248, train_loss: 0.9950, step time: 1.0246
Batch 23/248, train_loss: 0.9938, step time: 1.0263
Batch 24/248, train_loss: 0.0827, step time: 1.0250
Batch 25/248, train_loss: 0.0677, step time: 1.0271
Batch 26/248, train_loss: 0.4487, step time: 1.0327
Batch 27/248, train_loss: 0.0672, step time: 1.0237
Batch 28/248, train_loss: 0.1534, step time: 1.0319
Batch 29/248, train_loss: 0.3653, step time: 1.0340
Batch 30/248, train_loss: 0.2618, step time: 1.0345
Batch 31/248, train_loss: 0.2932, step time: 1.0355
Batch 32/248, train_loss: 0.0846, step time: 1.0264
Batch 33/248, train_loss: 0.0761, step time: 1.0282
Batch 34/248, train_loss: 0.0455, step time: 1.0241
Batch 35/248, train_loss: 0.0433, step time: 1.0266
Batch 36/248, train_loss: 0.4668, step time: 1.0310
Batch 37/248, train_loss: 0.1598, step time: 1.0273
Batch 38/248, train_loss: 0.2987, step time: 1.0261
Batch 39/248, train_loss: 0.1964, step time: 1.0276
Batch 40/248, train_loss: 0.9097, step time: 1.0305
Batch 41/248, train_loss: 0.1932, step time: 1.0288
Batch 42/248, train_loss: 0.0726, step time: 1.0270

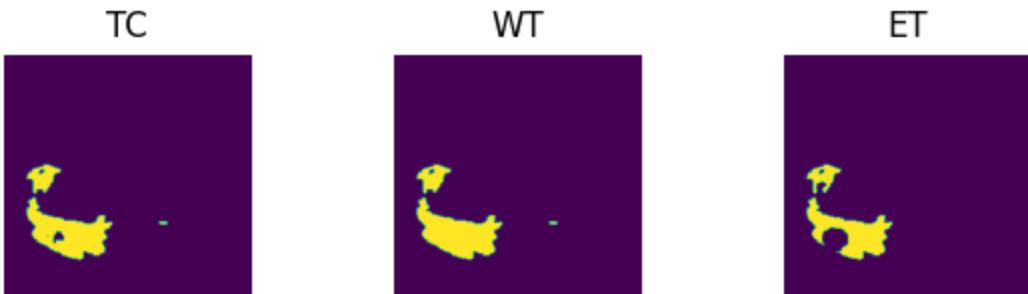
Batch 43/248, train_loss: 0.0556, step time: 1.0249
Batch 44/248, train_loss: 0.3319, step time: 1.0272
Batch 45/248, train_loss: 0.4076, step time: 1.0298
Batch 46/248, train_loss: 0.1906, step time: 1.0317
Batch 47/248, train_loss: 0.0631, step time: 1.0247
Batch 48/248, train_loss: 0.2179, step time: 1.0338
Batch 49/248, train_loss: 0.5506, step time: 1.0345
Batch 50/248, train_loss: 0.1536, step time: 1.0308
Batch 51/248, train_loss: 0.1210, step time: 1.0297
Batch 52/248, train_loss: 0.1008, step time: 1.0271
Batch 53/248, train_loss: 0.4261, step time: 1.0315
Batch 54/248, train_loss: 0.2207, step time: 1.0297
Batch 55/248, train_loss: 0.4517, step time: 1.0323
Batch 56/248, train_loss: 0.2451, step time: 1.0280
Batch 57/248, train_loss: 0.2448, step time: 1.0274
Batch 58/248, train_loss: 0.0827, step time: 1.0269
Batch 59/248, train_loss: 0.0899, step time: 1.0250
Batch 60/248, train_loss: 0.0535, step time: 1.0227
Batch 61/248, train_loss: 0.0935, step time: 1.0252
Batch 62/248, train_loss: 0.2259, step time: 1.0274
Batch 63/248, train_loss: 0.6566, step time: 1.0274
Batch 64/248, train_loss: 0.4329, step time: 1.0311
Batch 65/248, train_loss: 0.3004, step time: 1.0299
Batch 66/248, train_loss: 0.1302, step time: 1.0281
Batch 67/248, train_loss: 0.0699, step time: 1.0248
Batch 68/248, train_loss: 0.1351, step time: 1.0278
Batch 69/248, train_loss: 0.4154, step time: 1.0359
Batch 70/248, train_loss: 0.1380, step time: 1.0282
Batch 71/248, train_loss: 0.1400, step time: 1.0284
Batch 72/248, train_loss: 0.0581, step time: 1.0246
Batch 73/248, train_loss: 0.1717, step time: 1.0260
Batch 74/248, train_loss: 0.9973, step time: 1.0243
Batch 75/248, train_loss: 0.1410, step time: 1.0268
Batch 76/248, train_loss: 0.5808, step time: 1.0297
Batch 77/248, train_loss: 0.7997, step time: 1.0247
Batch 78/248, train_loss: 0.1086, step time: 1.0262
Batch 79/248, train_loss: 0.1701, step time: 1.0285
Batch 80/248, train_loss: 0.2089, step time: 1.0265
Batch 81/248, train_loss: 0.1797, step time: 1.0306
Batch 82/248, train_loss: 0.0807, step time: 1.0283
Batch 83/248, train_loss: 0.6168, step time: 1.0311
Batch 84/248, train_loss: 0.3303, step time: 1.0324
Batch 85/248, train_loss: 0.3733, step time: 1.0320
Batch 86/248, train_loss: 0.2521, step time: 1.0304
Batch 87/248, train_loss: 0.4763, step time: 1.0270
Batch 88/248, train_loss: 0.3459, step time: 1.0298
Batch 89/248, train_loss: 0.0964, step time: 1.0367
Batch 90/248, train_loss: 0.2648, step time: 1.0273
Batch 91/248, train_loss: 0.4145, step time: 1.0286
Batch 92/248, train_loss: 0.3209, step time: 1.0297
Batch 93/248, train_loss: 0.1438, step time: 1.0223
Batch 94/248, train_loss: 0.3325, step time: 1.0286
Batch 95/248, train_loss: 0.1706, step time: 1.0246
Batch 96/248, train_loss: 0.1568, step time: 1.0273
Batch 97/248, train_loss: 0.5120, step time: 1.0301
Batch 98/248, train_loss: 0.1004, step time: 1.0262
Batch 99/248, train_loss: 0.2821, step time: 1.0270

Batch 99/248, train_loss: 0.2051, step time: 1.0271
Batch 100/248, train_loss: 0.2839, step time: 1.0283
Batch 101/248, train_loss: 0.0536, step time: 1.0260
Batch 102/248, train_loss: 0.1040, step time: 1.0290
Batch 103/248, train_loss: 0.5757, step time: 1.0329
Batch 104/248, train_loss: 0.3897, step time: 1.0299
Batch 105/248, train_loss: 0.0836, step time: 1.0251
Batch 106/248, train_loss: 0.1187, step time: 1.0269
Batch 107/248, train_loss: 0.5142, step time: 1.0273
Batch 108/248, train_loss: 0.4234, step time: 1.0307
Batch 109/248, train_loss: 0.9734, step time: 1.0338
Batch 110/248, train_loss: 0.2271, step time: 1.0305
Batch 111/248, train_loss: 0.1601, step time: 1.0307
Batch 112/248, train_loss: 0.1502, step time: 1.0272
Batch 113/248, train_loss: 0.9338, step time: 1.0307
Batch 114/248, train_loss: 0.1803, step time: 1.0287
Batch 115/248, train_loss: 0.3066, step time: 1.0292
Batch 116/248, train_loss: 0.1049, step time: 1.0269
Batch 117/248, train_loss: 0.8541, step time: 1.0315
Batch 118/248, train_loss: 0.6980, step time: 1.0282
Batch 119/248, train_loss: 0.5287, step time: 1.0303
Batch 120/248, train_loss: 0.2809, step time: 1.0280
Batch 121/248, train_loss: 0.3145, step time: 1.0295
Batch 122/248, train_loss: 0.3781, step time: 1.0291
Batch 123/248, train_loss: 0.1001, step time: 1.0273
Batch 124/248, train_loss: 0.5178, step time: 1.0301
Batch 125/248, train_loss: 0.6734, step time: 1.0292
Batch 126/248, train_loss: 0.2585, step time: 1.0291
Batch 127/248, train_loss: 0.1261, step time: 1.0306
Batch 128/248, train_loss: 0.2464, step time: 1.0312
Batch 129/248, train_loss: 0.1409, step time: 1.0319
Batch 130/248, train_loss: 0.0935, step time: 1.0271
Batch 131/248, train_loss: 0.6333, step time: 1.0276
Batch 132/248, train_loss: 0.4759, step time: 1.0293
Batch 133/248, train_loss: 0.1461, step time: 1.0285
Batch 134/248, train_loss: 0.9312, step time: 1.0294
Batch 135/248, train_loss: 0.3436, step time: 1.0303
Batch 136/248, train_loss: 0.1118, step time: 1.0256
Batch 137/248, train_loss: 0.1134, step time: 1.0261
Batch 138/248, train_loss: 0.0802, step time: 1.0250
Batch 139/248, train_loss: 0.1993, step time: 1.0271
Batch 140/248, train_loss: 0.1926, step time: 1.0313
Batch 141/248, train_loss: 0.1899, step time: 1.0261
Batch 142/248, train_loss: 0.5770, step time: 1.0291
Batch 143/248, train_loss: 0.2649, step time: 1.0311
Batch 144/248, train_loss: 0.1201, step time: 1.0254
Batch 145/248, train_loss: 0.0482, step time: 1.0248
Batch 146/248, train_loss: 0.7008, step time: 1.0284
Batch 147/248, train_loss: 0.0392, step time: 1.0221
Batch 148/248, train_loss: 0.8692, step time: 1.0296
Batch 149/248, train_loss: 0.1169, step time: 1.0265
Batch 150/248, train_loss: 0.6943, step time: 1.0279
Batch 151/248, train_loss: 0.3015, step time: 1.0275
Batch 152/248, train_loss: 0.0395, step time: 1.0248
Batch 153/248, train_loss: 0.2902, step time: 1.0300
Batch 154/248, train_loss: 0.7186, step time: 1.0329
Batch 155/248, train_loss: 0.1596, step time: 1.0322

Batch 156/248, train_loss: 0.2311, step time: 1.0317
Batch 157/248, train_loss: 0.2480, step time: 1.0322
Batch 158/248, train_loss: 0.9909, step time: 1.0271
Batch 159/248, train_loss: 0.3454, step time: 1.0322
Batch 160/248, train_loss: 0.0805, step time: 1.0255
Batch 161/248, train_loss: 0.0948, step time: 1.0305
Batch 162/248, train_loss: 0.0845, step time: 1.0291
Batch 163/248, train_loss: 0.1812, step time: 1.0323
Batch 164/248, train_loss: 0.2491, step time: 1.0275
Batch 165/248, train_loss: 0.8383, step time: 1.0301
Batch 166/248, train_loss: 0.1067, step time: 1.0292
Batch 167/248, train_loss: 0.1778, step time: 1.0316
Batch 168/248, train_loss: 0.1648, step time: 1.0315
Batch 169/248, train_loss: 0.0899, step time: 1.0306
Batch 170/248, train_loss: 0.6482, step time: 1.0277
Batch 171/248, train_loss: 0.0926, step time: 1.0263
Batch 172/248, train_loss: 0.4607, step time: 1.0286
Batch 173/248, train_loss: 0.1008, step time: 1.0293
Batch 174/248, train_loss: 0.6817, step time: 1.0314
Batch 175/248, train_loss: 0.2005, step time: 1.0262
Batch 176/248, train_loss: 0.4227, step time: 1.0361
Batch 177/248, train_loss: 0.3045, step time: 1.0306
Batch 178/248, train_loss: 0.3311, step time: 1.0315
Batch 179/248, train_loss: 0.0900, step time: 1.0330
Batch 180/248, train_loss: 0.3545, step time: 1.0311
Batch 181/248, train_loss: 0.1048, step time: 1.0295
Batch 182/248, train_loss: 0.9341, step time: 1.0290
Batch 183/248, train_loss: 0.1798, step time: 1.0312
Batch 184/248, train_loss: 0.3700, step time: 1.0281
Batch 185/248, train_loss: 0.1002, step time: 1.0278
Batch 186/248, train_loss: 0.1215, step time: 1.0281
Batch 187/248, train_loss: 0.1902, step time: 1.0282
Batch 188/248, train_loss: 0.3336, step time: 1.0316
Batch 189/248, train_loss: 0.5788, step time: 1.0301
Batch 190/248, train_loss: 0.1374, step time: 1.0280
Batch 191/248, train_loss: 0.5971, step time: 1.0311
Batch 192/248, train_loss: 0.2974, step time: 1.0289
Batch 193/248, train_loss: 0.3079, step time: 1.0289
Batch 194/248, train_loss: 0.0760, step time: 1.0291
Batch 195/248, train_loss: 0.6521, step time: 1.0289
Batch 196/248, train_loss: 0.9974, step time: 1.0261
Batch 197/248, train_loss: 0.1953, step time: 1.0316
Batch 198/248, train_loss: 0.8817, step time: 1.0321
Batch 199/248, train_loss: 0.1252, step time: 1.0298
Batch 200/248, train_loss: 0.1179, step time: 1.0268
Batch 201/248, train_loss: 0.1199, step time: 1.0258
Batch 202/248, train_loss: 0.3621, step time: 1.0306
Batch 203/248, train_loss: 0.5045, step time: 1.0320
Batch 204/248, train_loss: 0.0894, step time: 1.0261
Batch 205/248, train_loss: 0.2338, step time: 1.0281
Batch 206/248, train_loss: 0.5128, step time: 1.0328
Batch 207/248, train_loss: 0.0823, step time: 1.0300
Batch 208/248, train_loss: 0.1405, step time: 1.0303
Batch 209/248, train_loss: 0.1615, step time: 1.0284
Batch 210/248, train_loss: 0.0584, step time: 1.0246
Batch 211/248, train_loss: 0.0603, step time: 1.0268
Batch 212/248, train_loss: 0.2120, step time: 1.0205

```
Batch 212/248, train_loss: 0.2457, step time: 1.0293
Batch 213/248, train_loss: 0.1533, step time: 1.0278
Batch 214/248, train_loss: 0.0746, step time: 1.0249
Batch 215/248, train_loss: 0.1934, step time: 1.0291
Batch 216/248, train_loss: 0.1511, step time: 1.0290
Batch 217/248, train_loss: 0.3136, step time: 1.0346
Batch 218/248, train_loss: 0.7877, step time: 1.0308
Batch 219/248, train_loss: 0.0642, step time: 1.0293
Batch 220/248, train_loss: 0.2137, step time: 1.0300
Batch 221/248, train_loss: 0.3312, step time: 1.0331
Batch 222/248, train_loss: 0.2220, step time: 1.0312
Batch 223/248, train_loss: 0.0446, step time: 1.0285
Batch 224/248, train_loss: 0.0783, step time: 1.0276
Batch 225/248, train_loss: 0.2048, step time: 1.0326
Batch 226/248, train_loss: 0.2469, step time: 1.0292
Batch 227/248, train_loss: 0.0896, step time: 1.0261
Batch 228/248, train_loss: 0.1489, step time: 1.0266
Batch 229/248, train_loss: 0.1010, step time: 1.0250
Batch 230/248, train_loss: 0.0584, step time: 1.0233
Batch 231/248, train_loss: 0.4065, step time: 1.0322
Batch 232/248, train_loss: 0.0754, step time: 1.0260
Batch 233/248, train_loss: 0.9672, step time: 1.0300
Batch 234/248, train_loss: 0.5126, step time: 1.0294
Batch 235/248, train_loss: 0.4005, step time: 1.0320
Batch 236/248, train_loss: 0.7741, step time: 1.0320
Batch 237/248, train_loss: 0.1043, step time: 1.0295
Batch 238/248, train_loss: 0.0987, step time: 1.0312
Batch 239/248, train_loss: 0.0756, step time: 1.0289
Batch 240/248, train_loss: 0.3399, step time: 1.0292
Batch 241/248, train_loss: 0.6573, step time: 1.0339
Batch 242/248, train_loss: 0.1877, step time: 1.0288
Batch 243/248, train_loss: 0.5548, step time: 1.0306
Batch 244/248, train_loss: 0.4099, step time: 1.0314
Batch 245/248, train_loss: 0.0607, step time: 1.0260
Batch 246/248, train_loss: 0.6774, step time: 1.0302
Batch 247/248, train_loss: 0.0859, step time: 1.0262
Batch 248/248, train_loss: 0.9993, step time: 1.0230
```

Labels



Predictions



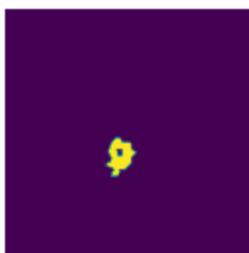


VAL

Batch 1/31, val_loss: 0.9396
Batch 2/31, val_loss: 0.9939
Batch 3/31, val_loss: 0.9616
Batch 4/31, val_loss: 0.9406
Batch 5/31, val_loss: 0.9936
Batch 6/31, val_loss: 0.7074
Batch 7/31, val_loss: 0.8410
Batch 8/31, val_loss: 0.9664
Batch 9/31, val_loss: 0.6974
Batch 10/31, val_loss: 0.9075
Batch 11/31, val_loss: 0.8223
Batch 12/31, val_loss: 0.9763
Batch 13/31, val_loss: 0.9870
Batch 14/31, val_loss: 0.9487
Batch 15/31, val_loss: 0.9971
Batch 16/31, val_loss: 0.9730
Batch 17/31, val_loss: 0.9770
Batch 18/31, val_loss: 0.9414
Batch 19/31, val_loss: 0.7541
Batch 20/31, val_loss: 0.8711
Batch 21/31, val_loss: 0.8728
Batch 22/31, val_loss: 0.9749
Batch 23/31, val_loss: 0.9803
Batch 24/31, val_loss: 0.7409
Batch 25/31, val_loss: 0.7994
Batch 26/31, val_loss: 0.9179
Batch 27/31, val_loss: 0.9718
Batch 28/31, val_loss: 0.7525
Batch 29/31, val_loss: 0.9814
Batch 30/31, val_loss: 0.9587
Batch 31/31, val_loss: 0.9860

Labels

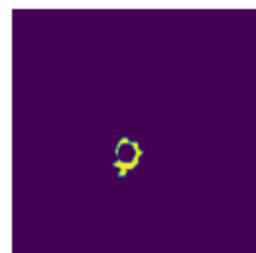
TC



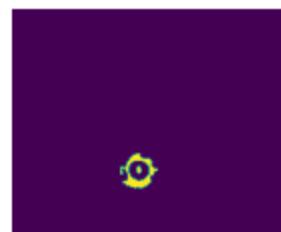
WT



ET



Predictions



```
epoch 46
    average train loss: 0.3064
    average validation loss: 0.9075
    saved as best model: False
    current mean dice: 0.4932
    current TC dice: 0.5155
    current WT dice: 0.5204
    current ET dice: 0.4859
Best Mean Metric: 0.4991
time consuming of epoch 46 is: 1546.3843
-----
epoch 47/100
TRAIN
    Batch 1/248, train_loss: 0.0890, step time: 1.0273
    Batch 2/248, train_loss: 0.7196, step time: 1.0355
    Batch 3/248, train_loss: 0.2580, step time: 1.0274
    Batch 4/248, train_loss: 0.9201, step time: 1.0286
    Batch 5/248, train_loss: 0.2267, step time: 1.0269
    Batch 6/248, train_loss: 0.5088, step time: 1.0288
    Batch 7/248, train_loss: 0.0746, step time: 1.0289
    Batch 8/248, train_loss: 0.7248, step time: 1.0301
    Batch 9/248, train_loss: 0.0501, step time: 1.0296
    Batch 10/248, train_loss: 0.2427, step time: 1.0326
    Batch 11/248, train_loss: 0.1966, step time: 1.0321
    Batch 12/248, train_loss: 0.6173, step time: 1.0330
    Batch 13/248, train_loss: 0.3552, step time: 1.0306
    Batch 14/248, train_loss: 0.0538, step time: 1.0257
    Batch 15/248, train_loss: 0.3257, step time: 1.0334
    Batch 16/248, train_loss: 0.1523, step time: 1.0285
    Batch 17/248, train_loss: 0.2567, step time: 1.0303
    Batch 18/248, train_loss: 0.4492, step time: 1.0338
    Batch 19/248, train_loss: 0.1139, step time: 1.0275
    Batch 20/248, train_loss: 0.1408, step time: 1.0314
    Batch 21/248, train_loss: 0.0696, step time: 1.0255
    Batch 22/248, train_loss: 0.8826, step time: 1.0320
    Batch 23/248, train_loss: 0.9974, step time: 1.0255
    Batch 24/248, train_loss: 0.0830, step time: 1.0281
    Batch 25/248, train_loss: 0.0603, step time: 1.0283
    Batch 26/248, train_loss: 0.5301, step time: 1.0313
    Batch 27/248, train_loss: 0.0696, step time: 1.0267
    Batch 28/248, train_loss: 0.1497, step time: 1.0305
    Batch 29/248, train_loss: 0.3999, step time: 1.0325
    Batch 30/248, train_loss: 0.2195, step time: 1.0296
    Batch 31/248, train_loss: 0.2688, step time: 1.0295
    Batch 32/248, train_loss: 0.0816, step time: 1.0257
    Batch 33/248, train_loss: 0.0742, step time: 1.0289
    Batch 34/248, train_loss: 0.0438, step time: 1.0248
    Batch 35/248, train_loss: 0.0430, step time: 1.0298
    Batch 36/248, train_loss: 0.4608, step time: 1.0313
    Batch 37/248, train_loss: 0.1563, step time: 1.0279
    Batch 38/248, train_loss: 0.2853, step time: 1.0257
    Batch 39/248, train_loss: 0.1966, step time: 1.0275
    Batch 40/248, train_loss: 0.9156, step time: 1.0308
    Batch 41/248, train_loss: 0.2537, step time: 1.0257
    Batch 42/248. train loss: 0.0682. step time: 1.0271
```

```
Batch 43/248, train_loss: 0.0598, step time: 1.0240
Batch 44/248, train_loss: 0.2262, step time: 1.0307
Batch 45/248, train_loss: 0.4014, step time: 1.0317
Batch 46/248, train_loss: 0.1594, step time: 1.0347
Batch 47/248, train_loss: 0.0869, step time: 1.0313
Batch 48/248, train_loss: 0.3207, step time: 1.0324
Batch 49/248, train_loss: 0.5465, step time: 1.0349
Batch 50/248, train_loss: 0.1250, step time: 1.0291
Batch 51/248, train_loss: 0.1928, step time: 1.0350
Batch 52/248, train_loss: 0.0974, step time: 1.0301
Batch 53/248, train_loss: 0.3962, step time: 1.0303
Batch 54/248, train_loss: 0.2287, step time: 1.0304
Batch 55/248, train_loss: 0.3520, step time: 1.0330
Batch 56/248, train_loss: 0.1947, step time: 1.0288
Batch 57/248, train_loss: 0.3233, step time: 1.0313
Batch 58/248, train_loss: 0.0957, step time: 1.0284
Batch 59/248, train_loss: 0.0944, step time: 1.0307
Batch 60/248, train_loss: 0.0557, step time: 1.0274
Batch 61/248, train_loss: 0.1073, step time: 1.0266
Batch 62/248, train_loss: 0.2244, step time: 1.0303
Batch 63/248, train_loss: 0.6067, step time: 1.0302
Batch 64/248, train_loss: 0.3958, step time: 1.0335
Batch 65/248, train_loss: 0.2662, step time: 1.0327
Batch 66/248, train_loss: 0.1312, step time: 1.0300
Batch 67/248, train_loss: 0.0699, step time: 1.0286
Batch 68/248, train_loss: 0.1339, step time: 1.0294
Batch 69/248, train_loss: 0.6011, step time: 1.0344
Batch 70/248, train_loss: 0.1313, step time: 1.0322
Batch 71/248, train_loss: 0.1877, step time: 1.0313
Batch 72/248, train_loss: 0.0617, step time: 1.0261
Batch 73/248, train_loss: 0.2820, step time: 1.0261
Batch 74/248, train_loss: 0.9971, step time: 1.0263
Batch 75/248, train_loss: 0.1228, step time: 1.0340
Batch 76/248, train_loss: 0.6702, step time: 1.0322
Batch 77/248, train_loss: 0.9047, step time: 1.0331
Batch 78/248, train_loss: 0.1422, step time: 1.0319
Batch 79/248, train_loss: 0.1508, step time: 1.0321
Batch 80/248, train_loss: 0.2137, step time: 1.0291
Batch 81/248, train_loss: 0.1699, step time: 1.0342
Batch 82/248, train_loss: 0.0789, step time: 1.0313
Batch 83/248, train_loss: 0.6514, step time: 1.0342
Batch 84/248, train_loss: 0.2720, step time: 1.0284
Batch 85/248, train_loss: 0.4194, step time: 1.0291
Batch 86/248, train_loss: 0.2733, step time: 1.0274
Batch 87/248, train_loss: 0.5469, step time: 1.0286
Batch 88/248, train_loss: 0.3716, step time: 1.0280
Batch 89/248, train_loss: 0.1043, step time: 1.0280
Batch 90/248, train_loss: 0.4314, step time: 1.0342
Batch 91/248, train_loss: 0.3971, step time: 1.0328
Batch 92/248, train_loss: 0.3285, step time: 1.0306
Batch 93/248, train_loss: 0.1628, step time: 1.0299
Batch 94/248, train_loss: 0.3595, step time: 1.0311
Batch 95/248, train_loss: 0.1747, step time: 1.0257
Batch 96/248, train_loss: 0.1592, step time: 1.0315
Batch 97/248, train_loss: 0.5283, step time: 1.0357
Batch 98/248, train_loss: 0.1152, step time: 1.0323
```

Batch 99/248, train_loss: 0.3247, step time: 1.0318
Batch 100/248, train_loss: 0.4079, step time: 1.0308
Batch 101/248, train_loss: 0.0564, step time: 1.0252
Batch 102/248, train_loss: 0.0951, step time: 1.0256
Batch 103/248, train_loss: 0.5099, step time: 1.0281
Batch 104/248, train_loss: 0.3349, step time: 1.0317
Batch 105/248, train_loss: 0.0782, step time: 1.0293
Batch 106/248, train_loss: 0.1258, step time: 1.0285
Batch 107/248, train_loss: 0.2264, step time: 1.0326
Batch 108/248, train_loss: 0.5321, step time: 1.0309
Batch 109/248, train_loss: 0.7917, step time: 1.0295
Batch 110/248, train_loss: 0.2448, step time: 1.0334
Batch 111/248, train_loss: 0.0923, step time: 1.0264
Batch 112/248, train_loss: 0.1376, step time: 1.0338
Batch 113/248, train_loss: 0.8614, step time: 1.0314
Batch 114/248, train_loss: 0.1513, step time: 1.0282
Batch 115/248, train_loss: 0.1670, step time: 1.0304
Batch 116/248, train_loss: 0.0808, step time: 1.0291
Batch 117/248, train_loss: 0.8433, step time: 1.0309
Batch 118/248, train_loss: 0.7622, step time: 1.0322
Batch 119/248, train_loss: 0.3583, step time: 1.0280
Batch 120/248, train_loss: 0.2444, step time: 1.0276
Batch 121/248, train_loss: 0.2828, step time: 1.0308
Batch 122/248, train_loss: 0.3816, step time: 1.0306
Batch 123/248, train_loss: 0.0933, step time: 1.0280
Batch 124/248, train_loss: 0.2872, step time: 1.0327
Batch 125/248, train_loss: 0.5447, step time: 1.0347
Batch 126/248, train_loss: 0.2253, step time: 1.0290
Batch 127/248, train_loss: 0.1082, step time: 1.0313
Batch 128/248, train_loss: 0.2981, step time: 1.0376
Batch 129/248, train_loss: 0.1232, step time: 1.0280
Batch 130/248, train_loss: 0.0884, step time: 1.0269
Batch 131/248, train_loss: 0.5917, step time: 1.0319
Batch 132/248, train_loss: 0.5885, step time: 1.0312
Batch 133/248, train_loss: 0.1240, step time: 1.0282
Batch 134/248, train_loss: 0.8583, step time: 1.0307
Batch 135/248, train_loss: 0.2761, step time: 1.0306
Batch 136/248, train_loss: 0.1108, step time: 1.0267
Batch 137/248, train_loss: 0.1071, step time: 1.0277
Batch 138/248, train_loss: 0.0629, step time: 1.0264
Batch 139/248, train_loss: 0.2174, step time: 1.0312
Batch 140/248, train_loss: 0.1856, step time: 1.0283
Batch 141/248, train_loss: 0.2303, step time: 1.0298
Batch 142/248, train_loss: 0.5662, step time: 1.0346
Batch 143/248, train_loss: 0.2616, step time: 1.0305
Batch 144/248, train_loss: 0.1231, step time: 1.0280
Batch 145/248, train_loss: 0.0906, step time: 1.0284
Batch 146/248, train_loss: 0.7264, step time: 1.0334
Batch 147/248, train_loss: 0.0412, step time: 1.0266
Batch 148/248, train_loss: 0.7855, step time: 1.0350
Batch 149/248, train_loss: 0.1231, step time: 1.0305
Batch 150/248, train_loss: 0.7408, step time: 1.0295
Batch 151/248, train_loss: 0.4466, step time: 1.0312
Batch 152/248, train_loss: 0.0414, step time: 1.0262
Batch 153/248, train_loss: 0.2291, step time: 1.0327
Batch 154/248, train_loss: 0.6959, step time: 1.0315
Batch 155/248. train loss: 0.1139. step time: 1.0290

```
Batch 156/248, train_loss: 0.2446, step time: 1.0309
Batch 157/248, train_loss: 0.2277, step time: 1.0267
Batch 158/248, train_loss: 0.9904, step time: 1.0269
Batch 159/248, train_loss: 0.4743, step time: 1.0358
Batch 160/248, train_loss: 0.0886, step time: 1.0280
Batch 161/248, train_loss: 0.1206, step time: 1.0281
Batch 162/248, train_loss: 0.0856, step time: 1.0255
Batch 163/248, train_loss: 0.1674, step time: 1.0305
Batch 164/248, train_loss: 0.1869, step time: 1.0290
Batch 165/248, train_loss: 0.8194, step time: 1.0312
Batch 166/248, train_loss: 0.0891, step time: 1.0321
Batch 167/248, train_loss: 0.1658, step time: 1.0271
Batch 168/248, train_loss: 0.1530, step time: 1.0301
Batch 169/248, train_loss: 0.0856, step time: 1.0291
Batch 170/248, train_loss: 0.6875, step time: 1.0329
Batch 171/248, train_loss: 0.0936, step time: 1.0279
Batch 172/248, train_loss: 0.6351, step time: 1.0336
Batch 173/248, train_loss: 0.0971, step time: 1.0286
Batch 174/248, train_loss: 0.8642, step time: 1.0313
Batch 175/248, train_loss: 0.1577, step time: 1.0306
Batch 176/248, train_loss: 0.3808, step time: 1.0305
Batch 177/248, train_loss: 0.2571, step time: 1.0334
Batch 178/248, train_loss: 0.3558, step time: 1.0330
Batch 179/248, train_loss: 0.0949, step time: 1.0300
Batch 180/248, train_loss: 0.3610, step time: 1.0311
Batch 181/248, train_loss: 0.1218, step time: 1.0293
Batch 182/248, train_loss: 0.9583, step time: 1.0295
Batch 183/248, train_loss: 0.1360, step time: 1.0283
Batch 184/248, train_loss: 0.4507, step time: 1.0318
Batch 185/248, train_loss: 0.1239, step time: 1.0315
Batch 186/248, train_loss: 0.1281, step time: 1.0328
Batch 187/248, train_loss: 0.2178, step time: 1.0293
Batch 188/248, train_loss: 0.2533, step time: 1.0325
Batch 189/248, train_loss: 0.6033, step time: 1.0359
Batch 190/248, train_loss: 0.1432, step time: 1.0324
Batch 191/248, train_loss: 0.6250, step time: 1.0305
Batch 192/248, train_loss: 0.2476, step time: 1.0308
Batch 193/248, train_loss: 0.2788, step time: 1.0277
Batch 194/248, train_loss: 0.0867, step time: 1.0322
Batch 195/248, train_loss: 0.6509, step time: 1.0326
Batch 196/248, train_loss: 0.9995, step time: 1.0236
Batch 197/248, train_loss: 0.1651, step time: 1.0278
Batch 198/248, train_loss: 0.8713, step time: 1.0320
Batch 199/248, train_loss: 0.1544, step time: 1.0307
Batch 200/248, train_loss: 0.1083, step time: 1.0313
Batch 201/248, train_loss: 0.1233, step time: 1.0325
Batch 202/248, train_loss: 0.3554, step time: 1.0299
Batch 203/248, train_loss: 0.5375, step time: 1.0304
Batch 204/248, train_loss: 0.0789, step time: 1.0264
Batch 205/248, train_loss: 0.2332, step time: 1.0286
Batch 206/248, train_loss: 0.5151, step time: 1.0344
Batch 207/248, train_loss: 0.1017, step time: 1.0300
Batch 208/248, train_loss: 0.2279, step time: 1.0278
Batch 209/248, train_loss: 0.1444, step time: 1.0267
Batch 210/248, train_loss: 0.0576, step time: 1.0284
Batch 211/248, train_loss: 0.0625, step time: 1.0254
```

```
Batch 212/248, train_loss: 0.2941, step time: 1.0349
Batch 213/248, train_loss: 0.1417, step time: 1.0316
Batch 214/248, train_loss: 0.0706, step time: 1.0263
Batch 215/248, train_loss: 0.1967, step time: 1.0306
Batch 216/248, train_loss: 0.1425, step time: 1.0344
Batch 217/248, train_loss: 0.2751, step time: 1.0316
Batch 218/248, train_loss: 0.7973, step time: 1.0299
Batch 219/248, train_loss: 0.0566, step time: 1.0293
Batch 220/248, train_loss: 0.2240, step time: 1.0311
Batch 221/248, train_loss: 0.2764, step time: 1.0284
Batch 222/248, train_loss: 0.2049, step time: 1.0301
Batch 223/248, train_loss: 0.0410, step time: 1.0278
Batch 224/248, train_loss: 0.0776, step time: 1.0254
Batch 225/248, train_loss: 0.1964, step time: 1.0326
Batch 226/248, train_loss: 0.1629, step time: 1.0307
Batch 227/248, train_loss: 0.0803, step time: 1.0276
Batch 228/248, train_loss: 0.2081, step time: 1.0301
Batch 229/248, train_loss: 0.1028, step time: 1.0305
Batch 230/248, train_loss: 0.0602, step time: 1.0263
Batch 231/248, train_loss: 0.3264, step time: 1.0312
Batch 232/248, train_loss: 0.0729, step time: 1.0293
Batch 233/248, train_loss: 0.8537, step time: 1.0366
Batch 234/248, train_loss: 0.4986, step time: 1.0311
Batch 235/248, train_loss: 0.4369, step time: 1.0313
Batch 236/248, train_loss: 0.7870, step time: 1.0353
Batch 237/248, train_loss: 0.1062, step time: 1.0283
Batch 238/248, train_loss: 0.1167, step time: 1.0313
Batch 239/248, train_loss: 0.0653, step time: 1.0283
Batch 240/248, train_loss: 0.2708, step time: 1.0305
Batch 241/248, train_loss: 0.6062, step time: 1.0351
Batch 242/248, train_loss: 0.1769, step time: 1.0291
Batch 243/248, train_loss: 0.6224, step time: 1.0336
Batch 244/248, train_loss: 0.5415, step time: 1.0338
Batch 245/248, train_loss: 0.0649, step time: 1.0284
Batch 246/248, train_loss: 0.6065, step time: 1.0316
Batch 247/248, train_loss: 0.0748, step time: 1.0278
Batch 248/248, train_loss: 0.9999, step time: 1.0195
```

Labels

TC



WT



ET



Predictions





VAL

```
Batch 1/31, val_loss: 0.8867
Batch 2/31, val_loss: 0.9912
Batch 3/31, val_loss: 0.9618
Batch 4/31, val_loss: 0.9427
Batch 5/31, val_loss: 0.9941
Batch 6/31, val_loss: 0.6919
Batch 7/31, val_loss: 0.8321
Batch 8/31, val_loss: 0.9601
Batch 9/31, val_loss: 0.6911
Batch 10/31, val_loss: 0.9060
Batch 11/31, val_loss: 0.8257
Batch 12/31, val_loss: 0.9726
Batch 13/31, val_loss: 0.9828
Batch 14/31, val_loss: 0.9423
Batch 15/31, val_loss: 0.9905
Batch 16/31, val_loss: 0.9748
Batch 17/31, val_loss: 0.9769
Batch 18/31, val_loss: 0.9362
Batch 19/31, val_loss: 0.7432
Batch 20/31, val_loss: 0.8766
Batch 21/31, val_loss: 0.8643
Batch 22/31, val_loss: 0.9792
Batch 23/31, val_loss: 0.9785
Batch 24/31, val_loss: 0.7410
Batch 25/31, val_loss: 0.8014
Batch 26/31, val_loss: 0.9185
Batch 27/31, val_loss: 0.9736
Batch 28/31, val_loss: 0.7486
Batch 29/31, val_loss: 0.9865
Batch 30/31, val_loss: 0.9587
Batch 31/31, val_loss: 0.9770
```

Labels

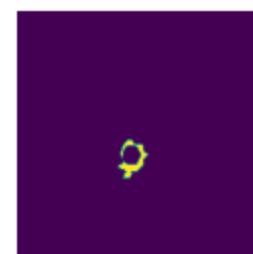
TC



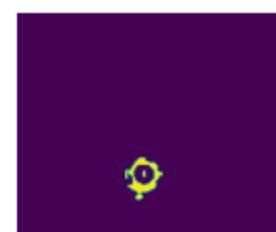
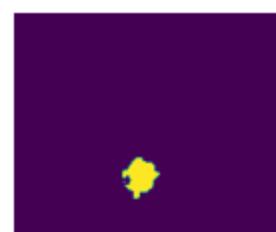
WT



ET



Predictions



```
epoch 47
    average train loss: 0.3039
    average validation loss: 0.9034
    saved as best model: False
    current mean dice: 0.4767
    current TC dice: 0.4982
    current WT dice: 0.5044
    current ET dice: 0.4711
Best Mean Metric: 0.4991
time consuming of epoch 47 is: 1569.7343
-----
epoch 48/100
TRAIN
    Batch 1/248, train_loss: 0.0832, step time: 1.0414
    Batch 2/248, train_loss: 0.7875, step time: 1.0367
    Batch 3/248, train_loss: 0.3626, step time: 1.0331
    Batch 4/248, train_loss: 0.9463, step time: 1.0312
    Batch 5/248, train_loss: 0.1998, step time: 1.0297
    Batch 6/248, train_loss: 0.4470, step time: 1.0338
    Batch 7/248, train_loss: 0.0572, step time: 1.0285
    Batch 8/248, train_loss: 0.7064, step time: 1.0278
    Batch 9/248, train_loss: 0.0388, step time: 1.0275
    Batch 10/248, train_loss: 0.2507, step time: 1.0314
    Batch 11/248, train_loss: 0.1922, step time: 1.0302
    Batch 12/248, train_loss: 0.6025, step time: 1.0346
    Batch 13/248, train_loss: 0.3743, step time: 1.0325
    Batch 14/248, train_loss: 0.0588, step time: 1.0304
    Batch 15/248, train_loss: 0.3029, step time: 1.0296
    Batch 16/248, train_loss: 0.1395, step time: 1.0309
    Batch 17/248, train_loss: 0.3056, step time: 1.0296
    Batch 18/248, train_loss: 0.4814, step time: 1.0308
    Batch 19/248, train_loss: 0.1177, step time: 1.0263
    Batch 20/248, train_loss: 0.1495, step time: 1.0295
    Batch 21/248, train_loss: 0.0521, step time: 1.0274
    Batch 22/248, train_loss: 0.9223, step time: 1.0307
    Batch 23/248, train_loss: 0.9965, step time: 1.0273
    Batch 24/248, train_loss: 0.0791, step time: 1.0270
    Batch 25/248, train_loss: 0.0590, step time: 1.0279
    Batch 26/248, train_loss: 0.5729, step time: 1.0325
    Batch 27/248, train_loss: 0.0689, step time: 1.0280
    Batch 28/248, train_loss: 0.1455, step time: 1.0325
    Batch 29/248, train_loss: 0.4363, step time: 1.0342
    Batch 30/248, train_loss: 0.2881, step time: 1.0300
    Batch 31/248, train_loss: 0.2752, step time: 1.0283
    Batch 32/248, train_loss: 0.0754, step time: 1.0287
    Batch 33/248, train_loss: 0.0663, step time: 1.0251
    Batch 34/248, train_loss: 0.0460, step time: 1.0281
    Batch 35/248, train_loss: 0.0454, step time: 1.0280
    Batch 36/248, train_loss: 0.4564, step time: 1.0306
    Batch 37/248, train_loss: 0.1524, step time: 1.0242
    Batch 38/248, train_loss: 0.2775, step time: 1.0273
    Batch 39/248, train_loss: 0.1665, step time: 1.0279
    Batch 40/248, train_loss: 0.9289, step time: 1.0296
    Batch 41/248, train_loss: 0.3185, step time: 1.0330
    Batch 42/248, train_loss: 0.0606, step time: 1.0222
```

Batch 42/248, train_loss: 0.0090, step time: 1.0272
Batch 43/248, train_loss: 0.0520, step time: 1.0276
Batch 44/248, train_loss: 0.2862, step time: 1.0287
Batch 45/248, train_loss: 0.3950, step time: 1.0333
Batch 46/248, train_loss: 0.1704, step time: 1.0329
Batch 47/248, train_loss: 0.1265, step time: 1.0300
Batch 48/248, train_loss: 0.2061, step time: 1.0320
Batch 49/248, train_loss: 0.5282, step time: 1.0321
Batch 50/248, train_loss: 0.1310, step time: 1.0289
Batch 51/248, train_loss: 0.1380, step time: 1.0313
Batch 52/248, train_loss: 0.1042, step time: 1.0314
Batch 53/248, train_loss: 0.3904, step time: 1.0342
Batch 54/248, train_loss: 0.2178, step time: 1.0339
Batch 55/248, train_loss: 0.2636, step time: 1.0317
Batch 56/248, train_loss: 0.2060, step time: 1.0277
Batch 57/248, train_loss: 0.2859, step time: 1.0292
Batch 58/248, train_loss: 0.0834, step time: 1.0310
Batch 59/248, train_loss: 0.0822, step time: 1.0269
Batch 60/248, train_loss: 0.0537, step time: 1.0261
Batch 61/248, train_loss: 0.0995, step time: 1.0307
Batch 62/248, train_loss: 0.2163, step time: 1.0292
Batch 63/248, train_loss: 0.6884, step time: 1.0298
Batch 64/248, train_loss: 0.4258, step time: 1.0291
Batch 65/248, train_loss: 0.6404, step time: 1.0313
Batch 66/248, train_loss: 0.1255, step time: 1.0297
Batch 67/248, train_loss: 0.0691, step time: 1.0308
Batch 68/248, train_loss: 0.1410, step time: 1.0312
Batch 69/248, train_loss: 0.4956, step time: 1.0332
Batch 70/248, train_loss: 0.1383, step time: 1.0302
Batch 71/248, train_loss: 0.1735, step time: 1.0322
Batch 72/248, train_loss: 0.0590, step time: 1.0279
Batch 73/248, train_loss: 0.3264, step time: 1.0318
Batch 74/248, train_loss: 0.9975, step time: 1.0249
Batch 75/248, train_loss: 0.1306, step time: 1.0288
Batch 76/248, train_loss: 0.6681, step time: 1.0304
Batch 77/248, train_loss: 0.8005, step time: 1.0305
Batch 78/248, train_loss: 0.1117, step time: 1.0291
Batch 79/248, train_loss: 0.1427, step time: 1.0382
Batch 80/248, train_loss: 0.1826, step time: 1.0317
Batch 81/248, train_loss: 0.1600, step time: 1.0341
Batch 82/248, train_loss: 0.0807, step time: 1.0288
Batch 83/248, train_loss: 0.5585, step time: 1.0327
Batch 84/248, train_loss: 0.2783, step time: 1.0310
Batch 85/248, train_loss: 0.3816, step time: 1.0313
Batch 86/248, train_loss: 0.3958, step time: 1.0287
Batch 87/248, train_loss: 0.5129, step time: 1.0305
Batch 88/248, train_loss: 0.3279, step time: 1.0313
Batch 89/248, train_loss: 0.1183, step time: 1.0292
Batch 90/248, train_loss: 0.2306, step time: 1.0312
Batch 91/248, train_loss: 0.4251, step time: 1.0334
Batch 92/248, train_loss: 0.3385, step time: 1.0328
Batch 93/248, train_loss: 0.1415, step time: 1.0299
Batch 94/248, train_loss: 0.3268, step time: 1.0357
Batch 95/248, train_loss: 0.1747, step time: 1.0297
Batch 96/248, train_loss: 0.1309, step time: 1.0312
Batch 97/248, train_loss: 0.5504, step time: 1.0353
Batch 98/248, train_loss: 0.0951, step time: 1.0326

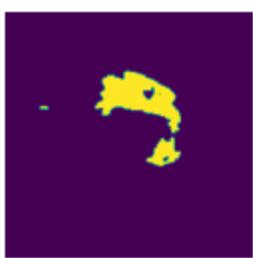
Batch 99/248, train_loss: 0.3036, step time: 1.0323
Batch 100/248, train_loss: 0.2770, step time: 1.0338
Batch 101/248, train_loss: 0.0568, step time: 1.0288
Batch 102/248, train_loss: 0.0852, step time: 1.0253
Batch 103/248, train_loss: 0.6812, step time: 1.0313
Batch 104/248, train_loss: 0.3646, step time: 1.0278
Batch 105/248, train_loss: 0.0878, step time: 1.0298
Batch 106/248, train_loss: 0.1307, step time: 1.0407
Batch 107/248, train_loss: 0.2741, step time: 1.0347
Batch 108/248, train_loss: 0.4321, step time: 1.0385
Batch 109/248, train_loss: 0.9415, step time: 1.0288
Batch 110/248, train_loss: 0.2220, step time: 1.0317
Batch 111/248, train_loss: 0.1107, step time: 1.0309
Batch 112/248, train_loss: 0.1227, step time: 1.0286
Batch 113/248, train_loss: 0.9191, step time: 1.0326
Batch 114/248, train_loss: 0.1479, step time: 1.0286
Batch 115/248, train_loss: 0.1639, step time: 1.0325
Batch 116/248, train_loss: 0.0993, step time: 1.0266
Batch 117/248, train_loss: 0.8257, step time: 1.0313
Batch 118/248, train_loss: 0.7022, step time: 1.0308
Batch 119/248, train_loss: 0.4952, step time: 1.0333
Batch 120/248, train_loss: 0.3262, step time: 1.0292
Batch 121/248, train_loss: 0.2819, step time: 1.0318
Batch 122/248, train_loss: 0.5075, step time: 1.0316
Batch 123/248, train_loss: 0.0986, step time: 1.0344
Batch 124/248, train_loss: 0.5322, step time: 1.0345
Batch 125/248, train_loss: 0.5286, step time: 1.0330
Batch 126/248, train_loss: 0.2570, step time: 1.0316
Batch 127/248, train_loss: 0.1260, step time: 1.0331
Batch 128/248, train_loss: 0.3054, step time: 1.0332
Batch 129/248, train_loss: 0.1321, step time: 1.0298
Batch 130/248, train_loss: 0.0947, step time: 1.0277
Batch 131/248, train_loss: 0.5653, step time: 1.0313
Batch 132/248, train_loss: 0.4345, step time: 1.0323
Batch 133/248, train_loss: 0.1263, step time: 1.0319
Batch 134/248, train_loss: 0.9198, step time: 1.0345
Batch 135/248, train_loss: 0.3540, step time: 1.0325
Batch 136/248, train_loss: 0.1106, step time: 1.0292
Batch 137/248, train_loss: 0.1066, step time: 1.0247
Batch 138/248, train_loss: 0.0648, step time: 1.0286
Batch 139/248, train_loss: 0.1791, step time: 1.0321
Batch 140/248, train_loss: 0.1737, step time: 1.0298
Batch 141/248, train_loss: 0.2012, step time: 1.0287
Batch 142/248, train_loss: 0.4702, step time: 1.0298
Batch 143/248, train_loss: 0.2748, step time: 1.0309
Batch 144/248, train_loss: 0.1210, step time: 1.0279
Batch 145/248, train_loss: 0.0629, step time: 1.0283
Batch 146/248, train_loss: 0.9043, step time: 1.0319
Batch 147/248, train_loss: 0.0420, step time: 1.0259
Batch 148/248, train_loss: 0.6756, step time: 1.0325
Batch 149/248, train_loss: 0.1327, step time: 1.0291
Batch 150/248, train_loss: 0.7013, step time: 1.0315
Batch 151/248, train_loss: 0.3392, step time: 1.0343
Batch 152/248, train_loss: 0.0413, step time: 1.0264
Batch 153/248, train_loss: 0.4715, step time: 1.0321
Batch 154/248, train_loss: 0.6420, step time: 1.0341
Batch 155/248, train_loss: 0.0001, step time: 1.0357

Batch 155/248, train_loss: 0.0554, step time: 1.055,
Batch 156/248, train_loss: 0.2556, step time: 1.0304
Batch 157/248, train_loss: 0.2629, step time: 1.0307
Batch 158/248, train_loss: 0.9915, step time: 1.0285
Batch 159/248, train_loss: 0.5870, step time: 0.9957
Batch 160/248, train_loss: 0.0826, step time: 1.0260
Batch 161/248, train_loss: 0.1206, step time: 1.0261
Batch 162/248, train_loss: 0.0802, step time: 1.0277
Batch 163/248, train_loss: 0.1664, step time: 1.0300
Batch 164/248, train_loss: 0.2210, step time: 1.0326
Batch 165/248, train_loss: 0.8066, step time: 1.0337
Batch 166/248, train_loss: 0.0848, step time: 1.0282
Batch 167/248, train_loss: 0.1896, step time: 1.0288
Batch 168/248, train_loss: 0.1512, step time: 1.0284
Batch 169/248, train_loss: 0.0906, step time: 1.0262
Batch 170/248, train_loss: 0.6595, step time: 1.0270
Batch 171/248, train_loss: 0.0873, step time: 1.0269
Batch 172/248, train_loss: 0.6052, step time: 1.0344
Batch 173/248, train_loss: 0.0869, step time: 1.0266
Batch 174/248, train_loss: 0.9081, step time: 1.0262
Batch 175/248, train_loss: 0.1610, step time: 1.0273
Batch 176/248, train_loss: 0.3849, step time: 1.0309
Batch 177/248, train_loss: 0.2636, step time: 1.0326
Batch 178/248, train_loss: 0.2718, step time: 1.0307
Batch 179/248, train_loss: 0.1022, step time: 1.0307
Batch 180/248, train_loss: 0.3769, step time: 1.0280
Batch 181/248, train_loss: 0.1260, step time: 1.0324
Batch 182/248, train_loss: 0.9231, step time: 1.0271
Batch 183/248, train_loss: 0.1535, step time: 1.0319
Batch 184/248, train_loss: 0.4788, step time: 1.0322
Batch 185/248, train_loss: 0.0825, step time: 1.0285
Batch 186/248, train_loss: 0.0989, step time: 1.0315
Batch 187/248, train_loss: 0.1737, step time: 1.0297
Batch 188/248, train_loss: 0.2943, step time: 1.0312
Batch 189/248, train_loss: 0.6097, step time: 1.0288
Batch 190/248, train_loss: 0.1234, step time: 1.0246
Batch 191/248, train_loss: 0.6114, step time: 1.0281
Batch 192/248, train_loss: 0.2474, step time: 1.0290
Batch 193/248, train_loss: 0.2673, step time: 1.0302
Batch 194/248, train_loss: 0.0872, step time: 1.0300
Batch 195/248, train_loss: 0.7614, step time: 1.0318
Batch 196/248, train_loss: 0.9997, step time: 1.0244
Batch 197/248, train_loss: 0.1789, step time: 1.0279
Batch 198/248, train_loss: 0.9264, step time: 1.0334
Batch 199/248, train_loss: 0.1664, step time: 1.0300
Batch 200/248, train_loss: 0.1328, step time: 1.0294
Batch 201/248, train_loss: 0.1341, step time: 1.0270
Batch 202/248, train_loss: 0.3854, step time: 1.0321
Batch 203/248, train_loss: 0.5200, step time: 1.0311
Batch 204/248, train_loss: 0.0738, step time: 1.0271
Batch 205/248, train_loss: 0.2542, step time: 1.0264
Batch 206/248, train_loss: 0.5128, step time: 1.0326
Batch 207/248, train_loss: 0.0763, step time: 1.0252
Batch 208/248, train_loss: 0.1736, step time: 1.0282
Batch 209/248, train_loss: 0.1449, step time: 1.0269
Batch 210/248, train_loss: 0.0585, step time: 1.0245
Batch 211/248, train_loss: 0.0636, step time: 1.0276

```
Batch 212/248, train_loss: 0.2484, step time: 1.0299
Batch 213/248, train_loss: 0.1472, step time: 1.0281
Batch 214/248, train_loss: 0.0701, step time: 1.0269
Batch 215/248, train_loss: 0.2190, step time: 1.0347
Batch 216/248, train_loss: 0.1274, step time: 1.0245
Batch 217/248, train_loss: 0.2828, step time: 1.0330
Batch 218/248, train_loss: 0.7885, step time: 1.0301
Batch 219/248, train_loss: 0.0546, step time: 1.0267
Batch 220/248, train_loss: 0.2080, step time: 1.0302
Batch 221/248, train_loss: 0.3326, step time: 1.0313
Batch 222/248, train_loss: 0.1946, step time: 1.0279
Batch 223/248, train_loss: 0.0416, step time: 1.0266
Batch 224/248, train_loss: 0.0774, step time: 1.0250
Batch 225/248, train_loss: 0.2324, step time: 1.0315
Batch 226/248, train_loss: 0.1431, step time: 1.0302
Batch 227/248, train_loss: 0.0894, step time: 1.0274
Batch 228/248, train_loss: 0.1479, step time: 1.0318
Batch 229/248, train_loss: 0.1167, step time: 1.0256
Batch 230/248, train_loss: 0.0641, step time: 1.0303
Batch 231/248, train_loss: 0.3577, step time: 1.0318
Batch 232/248, train_loss: 0.0742, step time: 1.0266
Batch 233/248, train_loss: 0.8947, step time: 1.0306
Batch 234/248, train_loss: 0.4896, step time: 1.0334
Batch 235/248, train_loss: 0.4750, step time: 1.0323
Batch 236/248, train_loss: 0.7889, step time: 1.0274
Batch 237/248, train_loss: 0.1011, step time: 1.0324
Batch 238/248, train_loss: 0.1108, step time: 1.0305
Batch 239/248, train_loss: 0.0673, step time: 1.0277
Batch 240/248, train_loss: 0.2826, step time: 1.0325
Batch 241/248, train_loss: 0.5879, step time: 1.0342
Batch 242/248, train_loss: 0.1548, step time: 1.0277
Batch 243/248, train_loss: 0.5948, step time: 1.0290
Batch 244/248, train_loss: 0.5234, step time: 1.0328
Batch 245/248, train_loss: 0.0664, step time: 1.0277
Batch 246/248, train_loss: 0.6411, step time: 1.0303
Batch 247/248, train_loss: 0.0710, step time: 1.0285
Batch 248/248, train_loss: 0.9992, step time: 1.0234
```

Labels

TC



WT



ET



Predictions



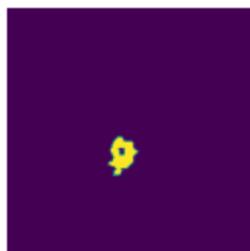


VAL

```
Batch 1/31, val_loss: 0.8949
Batch 2/31, val_loss: 0.9933
Batch 3/31, val_loss: 0.9617
Batch 4/31, val_loss: 0.9377
Batch 5/31, val_loss: 0.9932
Batch 6/31, val_loss: 0.6951
Batch 7/31, val_loss: 0.8314
Batch 8/31, val_loss: 0.9645
Batch 9/31, val_loss: 0.6917
Batch 10/31, val_loss: 0.9068
Batch 11/31, val_loss: 0.8261
Batch 12/31, val_loss: 0.9769
Batch 13/31, val_loss: 0.9876
Batch 14/31, val_loss: 0.9430
Batch 15/31, val_loss: 0.9919
Batch 16/31, val_loss: 0.9738
Batch 17/31, val_loss: 0.9745
Batch 18/31, val_loss: 0.9378
Batch 19/31, val_loss: 0.7446
Batch 20/31, val_loss: 0.8747
Batch 21/31, val_loss: 0.8655
Batch 22/31, val_loss: 0.9752
Batch 23/31, val_loss: 0.9789
Batch 24/31, val_loss: 0.7441
Batch 25/31, val_loss: 0.8005
Batch 26/31, val_loss: 0.9176
Batch 27/31, val_loss: 0.9741
Batch 28/31, val_loss: 0.7428
Batch 29/31, val_loss: 0.9823
Batch 30/31, val_loss: 0.9602
Batch 31/31, val_loss: 0.9784
```

Labels

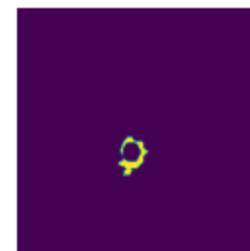
TC



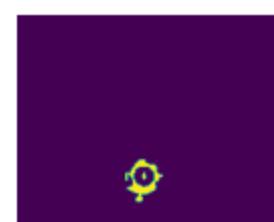
WT



ET



Predictions



```
epoch 48
    average train loss: 0.3074
    average validation loss: 0.9039
    saved as best model: True
    current mean dice: 0.5008
    current TC dice: 0.5257
    current WT dice: 0.5328
    current ET dice: 0.4878
Best Mean Metric: 0.5008
time consuming of epoch 48 is: 1565.1619
-----
epoch 49/100
TRAIN
    Batch 1/248, train_loss: 0.0809, step time: 1.0275
    Batch 2/248, train_loss: 0.6761, step time: 1.0401
    Batch 3/248, train_loss: 0.3485, step time: 1.0273
    Batch 4/248, train_loss: 0.9426, step time: 1.0270
    Batch 5/248, train_loss: 0.2105, step time: 1.0316
    Batch 6/248, train_loss: 0.4437, step time: 1.0297
    Batch 7/248, train_loss: 0.0639, step time: 1.0290
    Batch 8/248, train_loss: 0.7068, step time: 1.0288
    Batch 9/248, train_loss: 0.0460, step time: 1.0277
    Batch 10/248, train_loss: 0.2327, step time: 1.0286
    Batch 11/248, train_loss: 0.1995, step time: 1.0294
    Batch 12/248, train_loss: 0.5488, step time: 1.0410
    Batch 13/248, train_loss: 0.3373, step time: 1.0298
    Batch 14/248, train_loss: 0.0548, step time: 1.0298
    Batch 15/248, train_loss: 0.3238, step time: 1.0310
    Batch 16/248, train_loss: 0.1484, step time: 1.0282
    Batch 17/248, train_loss: 0.3196, step time: 1.0322
    Batch 18/248, train_loss: 0.4482, step time: 1.0320
    Batch 19/248, train_loss: 0.1174, step time: 1.0287
    Batch 20/248, train_loss: 0.1780, step time: 1.0290
    Batch 21/248, train_loss: 0.0676, step time: 1.0270
    Batch 22/248, train_loss: 0.6252, step time: 1.0286
    Batch 23/248, train_loss: 0.9954, step time: 1.0238
    Batch 24/248, train_loss: 0.0876, step time: 1.0281
    Batch 25/248, train_loss: 0.0643, step time: 1.0274
    Batch 26/248, train_loss: 0.4612, step time: 1.0302
    Batch 27/248, train_loss: 0.0692, step time: 1.0310
    Batch 28/248, train_loss: 0.1496, step time: 1.0267
    Batch 29/248, train_loss: 0.4174, step time: 1.0335
    Batch 30/248, train_loss: 0.5211, step time: 1.0325
    Batch 31/248, train_loss: 0.2567, step time: 1.0298
    Batch 32/248, train_loss: 0.0780, step time: 1.0262
    Batch 33/248, train_loss: 0.0655, step time: 1.0266
    Batch 34/248, train_loss: 0.0461, step time: 1.0257
    Batch 35/248, train_loss: 0.0529, step time: 1.0320
    Batch 36/248, train_loss: 0.5174, step time: 1.0322
    Batch 37/248, train_loss: 0.1783, step time: 1.0293
    Batch 38/248, train_loss: 0.2967, step time: 1.0310
    Batch 39/248, train_loss: 0.2008, step time: 1.0299
    Batch 40/248, train_loss: 0.7437, step time: 1.0312
    Batch 41/248, train_loss: 0.3152, step time: 1.0309
```

Batch 42/248, train_loss: 0.0777, step time: 1.0295
Batch 43/248, train_loss: 0.0588, step time: 1.0255
Batch 44/248, train_loss: 0.3075, step time: 1.0315
Batch 45/248, train_loss: 0.4004, step time: 1.0308
Batch 46/248, train_loss: 0.1366, step time: 1.0287
Batch 47/248, train_loss: 0.0840, step time: 1.0291
Batch 48/248, train_loss: 0.2383, step time: 1.0275
Batch 49/248, train_loss: 0.4867, step time: 1.0290
Batch 50/248, train_loss: 0.1404, step time: 1.0301
Batch 51/248, train_loss: 0.1782, step time: 1.0296
Batch 52/248, train_loss: 0.1046, step time: 1.0281
Batch 53/248, train_loss: 0.3978, step time: 1.0304
Batch 54/248, train_loss: 0.2232, step time: 1.0315
Batch 55/248, train_loss: 0.2683, step time: 1.0308
Batch 56/248, train_loss: 0.2431, step time: 1.0321
Batch 57/248, train_loss: 0.2883, step time: 1.0305
Batch 58/248, train_loss: 0.0873, step time: 1.0281
Batch 59/248, train_loss: 0.0863, step time: 1.0281
Batch 60/248, train_loss: 0.0573, step time: 1.0239
Batch 61/248, train_loss: 0.1025, step time: 1.0273
Batch 62/248, train_loss: 0.2163, step time: 1.0259
Batch 63/248, train_loss: 0.5515, step time: 1.0311
Batch 64/248, train_loss: 0.4462, step time: 1.0288
Batch 65/248, train_loss: 0.2778, step time: 1.0322
Batch 66/248, train_loss: 0.1398, step time: 1.0304
Batch 67/248, train_loss: 0.0693, step time: 1.0276
Batch 68/248, train_loss: 0.1226, step time: 1.0296
Batch 69/248, train_loss: 0.4374, step time: 1.0341
Batch 70/248, train_loss: 0.1501, step time: 1.0271
Batch 71/248, train_loss: 0.1248, step time: 1.0282
Batch 72/248, train_loss: 0.0608, step time: 1.0237
Batch 73/248, train_loss: 0.4265, step time: 1.0311
Batch 74/248, train_loss: 0.9976, step time: 1.0261
Batch 75/248, train_loss: 0.1370, step time: 1.0257
Batch 76/248, train_loss: 0.5544, step time: 1.0300
Batch 77/248, train_loss: 0.8493, step time: 1.0278
Batch 78/248, train_loss: 0.1341, step time: 1.0326
Batch 79/248, train_loss: 0.1328, step time: 1.0315
Batch 80/248, train_loss: 0.1828, step time: 1.0286
Batch 81/248, train_loss: 0.1662, step time: 1.0341
Batch 82/248, train_loss: 0.0811, step time: 1.0294
Batch 83/248, train_loss: 0.5199, step time: 1.0302
Batch 84/248, train_loss: 0.3089, step time: 1.0341
Batch 85/248, train_loss: 0.3470, step time: 1.0361
Batch 86/248, train_loss: 0.3262, step time: 1.0307
Batch 87/248, train_loss: 0.4940, step time: 1.0283
Batch 88/248, train_loss: 0.3184, step time: 1.0282
Batch 89/248, train_loss: 0.1039, step time: 1.0280
Batch 90/248, train_loss: 0.3452, step time: 1.0292
Batch 91/248, train_loss: 0.4012, step time: 1.0297
Batch 92/248, train_loss: 0.3095, step time: 1.0259
Batch 93/248, train_loss: 0.1529, step time: 1.0272
Batch 94/248, train_loss: 0.3037, step time: 1.0324
Batch 95/248, train_loss: 0.1778, step time: 1.0290
Batch 96/248, train_loss: 0.1819, step time: 1.0290
Batch 97/248, train_loss: 0.4910, step time: 1.0321
Batch 98/248, train_loss: 0.1471, step time: 1.0272

Batch 99/248, train_loss: 0.4061, step time: 1.0311
Batch 100/248, train_loss: 0.3885, step time: 1.0322
Batch 101/248, train_loss: 0.0558, step time: 1.0290
Batch 102/248, train_loss: 0.1207, step time: 1.0316
Batch 103/248, train_loss: 0.6692, step time: 1.0325
Batch 104/248, train_loss: 0.4453, step time: 1.0323
Batch 105/248, train_loss: 0.0751, step time: 1.0248
Batch 106/248, train_loss: 0.1455, step time: 1.0310
Batch 107/248, train_loss: 0.1933, step time: 1.0249
Batch 108/248, train_loss: 0.6916, step time: 1.0353
Batch 109/248, train_loss: 0.9209, step time: 1.0291
Batch 110/248, train_loss: 0.2109, step time: 1.0276
Batch 111/248, train_loss: 0.0930, step time: 1.0231
Batch 112/248, train_loss: 0.1449, step time: 1.0291
Batch 113/248, train_loss: 0.9272, step time: 1.0293
Batch 114/248, train_loss: 0.1486, step time: 1.0263
Batch 115/248, train_loss: 0.1550, step time: 1.0292
Batch 116/248, train_loss: 0.0931, step time: 1.0300
Batch 117/248, train_loss: 0.6203, step time: 1.0301
Batch 118/248, train_loss: 0.6730, step time: 1.0323
Batch 119/248, train_loss: 0.3077, step time: 1.0270
Batch 120/248, train_loss: 0.2142, step time: 1.0281
Batch 121/248, train_loss: 0.3113, step time: 1.0300
Batch 122/248, train_loss: 0.3895, step time: 1.0300
Batch 123/248, train_loss: 0.1014, step time: 1.0268
Batch 124/248, train_loss: 0.3886, step time: 1.0329
Batch 125/248, train_loss: 0.5774, step time: 1.0314
Batch 126/248, train_loss: 0.1875, step time: 1.0319
Batch 127/248, train_loss: 0.1230, step time: 1.0286
Batch 128/248, train_loss: 0.2032, step time: 1.0324
Batch 129/248, train_loss: 0.1174, step time: 1.0273
Batch 130/248, train_loss: 0.0928, step time: 1.0300
Batch 131/248, train_loss: 0.6243, step time: 1.0283
Batch 132/248, train_loss: 0.5032, step time: 1.0310
Batch 133/248, train_loss: 0.1467, step time: 1.0279
Batch 134/248, train_loss: 0.8637, step time: 1.0308
Batch 135/248, train_loss: 0.2671, step time: 1.0304
Batch 136/248, train_loss: 0.1132, step time: 1.0315
Batch 137/248, train_loss: 0.1213, step time: 1.0265
Batch 138/248, train_loss: 0.0673, step time: 1.0265
Batch 139/248, train_loss: 0.2010, step time: 1.0327
Batch 140/248, train_loss: 0.1524, step time: 1.0272
Batch 141/248, train_loss: 0.3163, step time: 1.0294
Batch 142/248, train_loss: 0.4414, step time: 1.0279
Batch 143/248, train_loss: 0.2463, step time: 1.0319
Batch 144/248, train_loss: 0.1304, step time: 1.0242
Batch 145/248, train_loss: 0.0536, step time: 1.0242
Batch 146/248, train_loss: 0.6016, step time: 1.0316
Batch 147/248, train_loss: 0.0416, step time: 1.0252
Batch 148/248, train_loss: 0.7876, step time: 1.0304
Batch 149/248, train_loss: 0.1160, step time: 1.0295
Batch 150/248, train_loss: 0.6675, step time: 1.0286
Batch 151/248, train_loss: 0.3187, step time: 1.0293
Batch 152/248, train_loss: 0.0391, step time: 1.0268
Batch 153/248, train_loss: 0.2102, step time: 1.0317
Batch 154/248, train_loss: 0.7929, step time: 1.0289

Batch 155/248, train_loss: 0.1065, step time: 1.0331
Batch 156/248, train_loss: 0.2873, step time: 1.0318
Batch 157/248, train_loss: 0.2646, step time: 1.0302
Batch 158/248, train_loss: 0.9937, step time: 1.0272
Batch 159/248, train_loss: 0.3961, step time: 1.0314
Batch 160/248, train_loss: 0.0885, step time: 1.0278
Batch 161/248, train_loss: 0.1036, step time: 1.0290
Batch 162/248, train_loss: 0.0831, step time: 1.0293
Batch 163/248, train_loss: 0.1504, step time: 1.0319
Batch 164/248, train_loss: 0.1711, step time: 1.0318
Batch 165/248, train_loss: 0.7186, step time: 1.0316
Batch 166/248, train_loss: 0.0884, step time: 1.0278
Batch 167/248, train_loss: 0.1634, step time: 1.0277
Batch 168/248, train_loss: 0.1526, step time: 1.0287
Batch 169/248, train_loss: 0.0839, step time: 1.0308
Batch 170/248, train_loss: 0.7083, step time: 1.0273
Batch 171/248, train_loss: 0.0946, step time: 1.0289
Batch 172/248, train_loss: 0.7410, step time: 1.0319
Batch 173/248, train_loss: 0.1049, step time: 1.0265
Batch 174/248, train_loss: 0.6154, step time: 1.0332
Batch 175/248, train_loss: 0.1462, step time: 1.0315
Batch 176/248, train_loss: 0.3397, step time: 1.0267
Batch 177/248, train_loss: 0.2464, step time: 1.0326
Batch 178/248, train_loss: 0.2604, step time: 1.0305
Batch 179/248, train_loss: 0.0946, step time: 1.0293
Batch 180/248, train_loss: 0.3642, step time: 1.0302
Batch 181/248, train_loss: 0.1146, step time: 1.0281
Batch 182/248, train_loss: 0.9210, step time: 1.0294
Batch 183/248, train_loss: 0.1849, step time: 1.0294
Batch 184/248, train_loss: 0.4470, step time: 1.0296
Batch 185/248, train_loss: 0.0949, step time: 1.0326
Batch 186/248, train_loss: 0.1008, step time: 1.0257
Batch 187/248, train_loss: 0.1814, step time: 1.0259
Batch 188/248, train_loss: 0.2401, step time: 1.0313
Batch 189/248, train_loss: 0.5199, step time: 1.0302
Batch 190/248, train_loss: 0.1289, step time: 1.0287
Batch 191/248, train_loss: 0.6287, step time: 1.0297
Batch 192/248, train_loss: 0.3275, step time: 1.0287
Batch 193/248, train_loss: 0.2835, step time: 1.0298
Batch 194/248, train_loss: 0.0752, step time: 1.0355
Batch 195/248, train_loss: 0.6524, step time: 1.0298
Batch 196/248, train_loss: 0.9996, step time: 1.0239
Batch 197/248, train_loss: 0.1983, step time: 1.0295
Batch 198/248, train_loss: 0.7376, step time: 1.0290
Batch 199/248, train_loss: 0.1374, step time: 1.0293
Batch 200/248, train_loss: 0.1167, step time: 1.0264
Batch 201/248, train_loss: 0.1198, step time: 1.0253
Batch 202/248, train_loss: 0.3415, step time: 1.0270
Batch 203/248, train_loss: 0.5742, step time: 1.0333
Batch 204/248, train_loss: 0.0734, step time: 1.0283
Batch 205/248, train_loss: 0.2329, step time: 1.0276
Batch 206/248, train_loss: 0.4352, step time: 1.0310
Batch 207/248, train_loss: 0.0730, step time: 1.0285
Batch 208/248, train_loss: 0.1569, step time: 1.0311
Batch 209/248, train_loss: 0.1481, step time: 1.0305
Batch 210/248, train_loss: 0.0577, step time: 1.0275
Batch 211/248. train loss: 0.0583. step time: 1.0287

```
Batch 212/248, train_loss: 0.3045, step time: 1.0303
Batch 213/248, train_loss: 0.1526, step time: 1.0287
Batch 214/248, train_loss: 0.0688, step time: 1.0247
Batch 215/248, train_loss: 0.2004, step time: 1.0281
Batch 216/248, train_loss: 0.1728, step time: 1.0311
Batch 217/248, train_loss: 0.2729, step time: 1.0304
Batch 218/248, train_loss: 0.7829, step time: 1.0306
Batch 219/248, train_loss: 0.0600, step time: 1.0317
Batch 220/248, train_loss: 0.2148, step time: 1.0319
Batch 221/248, train_loss: 0.2775, step time: 1.0282
Batch 222/248, train_loss: 0.2063, step time: 1.0326
Batch 223/248, train_loss: 0.0401, step time: 1.0232
Batch 224/248, train_loss: 0.0870, step time: 1.0290
Batch 225/248, train_loss: 0.1957, step time: 1.0332
Batch 226/248, train_loss: 0.1391, step time: 1.0307
Batch 227/248, train_loss: 0.0964, step time: 1.0247
Batch 228/248, train_loss: 0.1262, step time: 1.0267
Batch 229/248, train_loss: 0.1101, step time: 1.0275
Batch 230/248, train_loss: 0.0676, step time: 1.0279
Batch 231/248, train_loss: 0.5226, step time: 1.0314
Batch 232/248, train_loss: 0.0800, step time: 1.0253
Batch 233/248, train_loss: 0.8336, step time: 1.0294
Batch 234/248, train_loss: 0.4968, step time: 1.0309
Batch 235/248, train_loss: 0.5138, step time: 1.0289
Batch 236/248, train_loss: 0.8029, step time: 1.0288
Batch 237/248, train_loss: 0.1036, step time: 1.0315
Batch 238/248, train_loss: 0.1131, step time: 1.0311
Batch 239/248, train_loss: 0.0720, step time: 1.0268
Batch 240/248, train_loss: 0.2943, step time: 1.0284
Batch 241/248, train_loss: 0.5673, step time: 1.0332
Batch 242/248, train_loss: 0.1702, step time: 1.0276
Batch 243/248, train_loss: 0.5825, step time: 1.0280
Batch 244/248, train_loss: 0.4849, step time: 1.0309
Batch 245/248, train_loss: 0.0635, step time: 1.0240
Batch 246/248, train_loss: 0.5797, step time: 1.0286
Batch 247/248, train_loss: 0.0795, step time: 1.0259
Batch 248/248, train_loss: 0.9994, step time: 1.0210
```

Labels

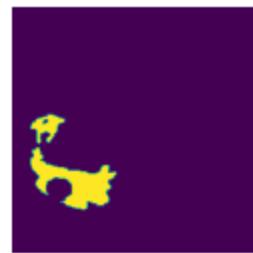
TC



WT



ET



Predictions



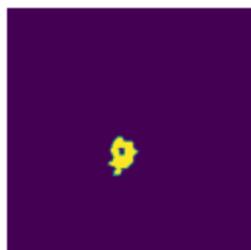


VAL

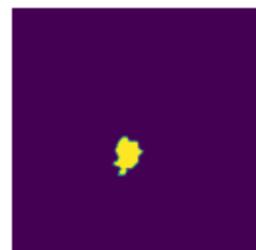
Batch 1/31, val_loss: 0.9218
Batch 2/31, val_loss: 0.9934
Batch 3/31, val_loss: 0.9621
Batch 4/31, val_loss: 0.9413
Batch 5/31, val_loss: 0.9939
Batch 6/31, val_loss: 0.6999
Batch 7/31, val_loss: 0.8336
Batch 8/31, val_loss: 0.9621
Batch 9/31, val_loss: 0.6935
Batch 10/31, val_loss: 0.9051
Batch 11/31, val_loss: 0.8249
Batch 12/31, val_loss: 0.9765
Batch 13/31, val_loss: 0.9919
Batch 14/31, val_loss: 0.9424
Batch 15/31, val_loss: 0.9915
Batch 16/31, val_loss: 0.9728
Batch 17/31, val_loss: 0.9763
Batch 18/31, val_loss: 0.9395
Batch 19/31, val_loss: 0.7471
Batch 20/31, val_loss: 0.8707
Batch 21/31, val_loss: 0.8708
Batch 22/31, val_loss: 0.9762
Batch 23/31, val_loss: 0.9782
Batch 24/31, val_loss: 0.7467
Batch 25/31, val_loss: 0.8006
Batch 26/31, val_loss: 0.9168
Batch 27/31, val_loss: 0.9726
Batch 28/31, val_loss: 0.7426
Batch 29/31, val_loss: 0.9824
Batch 30/31, val_loss: 0.9571
Batch 31/31, val_loss: 0.9798

Labels

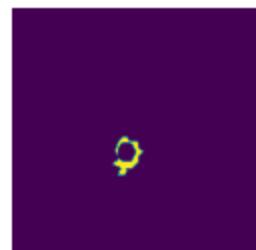
TC



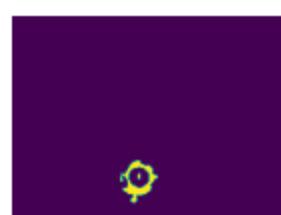
WT



ET



Predictions



```
epoch 49
    average train loss: 0.2971
    average validation loss: 0.9053
    saved as best model: True
    current mean dice: 0.5060
    current TC dice: 0.5328
    current WT dice: 0.5377
    current ET dice: 0.4909
Best Mean Metric: 0.5060
time consuming of epoch 49 is: 1562.4264
-----
epoch 50/100
TRAIN
    Batch 1/248, train_loss: 0.0825, step time: 1.0333
    Batch 2/248, train_loss: 0.7664, step time: 1.0319
    Batch 3/248, train_loss: 0.3077, step time: 1.0304
    Batch 4/248, train_loss: 0.9507, step time: 1.0280
    Batch 5/248, train_loss: 0.2119, step time: 1.0291
    Batch 6/248, train_loss: 0.6436, step time: 1.0284
    Batch 7/248, train_loss: 0.0724, step time: 1.0272
    Batch 8/248, train_loss: 0.7242, step time: 1.0286
    Batch 9/248, train_loss: 0.0501, step time: 1.0264
    Batch 10/248, train_loss: 0.2271, step time: 1.0311
    Batch 11/248, train_loss: 0.1895, step time: 1.0284
    Batch 12/248, train_loss: 0.4893, step time: 1.0316
    Batch 13/248, train_loss: 0.3170, step time: 1.0332
    Batch 14/248, train_loss: 0.0551, step time: 1.0263
    Batch 15/248, train_loss: 0.3251, step time: 1.0300
    Batch 16/248, train_loss: 0.1433, step time: 1.0301
    Batch 17/248, train_loss: 0.3204, step time: 1.0345
    Batch 18/248, train_loss: 0.3925, step time: 1.0345
    Batch 19/248, train_loss: 0.1035, step time: 1.0244
    Batch 20/248, train_loss: 0.1397, step time: 1.0305
    Batch 21/248, train_loss: 0.0612, step time: 1.0258
    Batch 22/248, train_loss: 0.9746, step time: 1.0268
    Batch 23/248, train_loss: 0.9975, step time: 1.0239
    Batch 24/248, train_loss: 0.0835, step time: 1.0264
    Batch 25/248, train_loss: 0.0613, step time: 1.0291
    Batch 26/248, train_loss: 0.4412, step time: 1.0331
    Batch 27/248, train_loss: 0.0677, step time: 1.0265
    Batch 28/248, train_loss: 0.1463, step time: 1.0293
    Batch 29/248, train_loss: 0.4175, step time: 1.0306
    Batch 30/248, train_loss: 0.2129, step time: 1.0290
    Batch 31/248, train_loss: 0.2684, step time: 1.0300
    Batch 32/248, train_loss: 0.0798, step time: 1.0271
    Batch 33/248, train_loss: 0.0762, step time: 1.0263
    Batch 34/248, train_loss: 0.0437, step time: 1.0256
    Batch 35/248, train_loss: 0.0441, step time: 1.0277
    Batch 36/248, train_loss: 0.5083, step time: 1.0291
    Batch 37/248, train_loss: 0.1472, step time: 1.0260
    Batch 38/248, train_loss: 0.2817, step time: 1.0273
    Batch 39/248, train_loss: 0.2117, step time: 1.0288
    Batch 40/248, train_loss: 0.7814, step time: 1.0296
    Batch 41/248, train_loss: 0.2653, step time: 1.0285
```

Batch 42/248, train_loss: 0.0726, step time: 1.0287
Batch 43/248, train_loss: 0.0539, step time: 1.0248
Batch 44/248, train_loss: 0.3357, step time: 1.0337
Batch 45/248, train_loss: 0.3967, step time: 1.0323
Batch 46/248, train_loss: 0.1669, step time: 1.0310
Batch 47/248, train_loss: 0.0704, step time: 1.0268
Batch 48/248, train_loss: 0.2067, step time: 1.0259
Batch 49/248, train_loss: 0.5188, step time: 1.0296
Batch 50/248, train_loss: 0.1337, step time: 1.0306
Batch 51/248, train_loss: 0.1520, step time: 1.0309
Batch 52/248, train_loss: 0.1032, step time: 1.0299
Batch 53/248, train_loss: 0.3809, step time: 1.0317
Batch 54/248, train_loss: 0.2264, step time: 1.0291
Batch 55/248, train_loss: 0.3926, step time: 1.0328
Batch 56/248, train_loss: 0.2171, step time: 1.0287
Batch 57/248, train_loss: 0.2417, step time: 1.0306
Batch 58/248, train_loss: 0.0857, step time: 1.0231
Batch 59/248, train_loss: 0.0874, step time: 1.0278
Batch 60/248, train_loss: 0.0517, step time: 1.0243
Batch 61/248, train_loss: 0.0971, step time: 1.0305
Batch 62/248, train_loss: 0.2293, step time: 1.0293
Batch 63/248, train_loss: 0.6185, step time: 1.0308
Batch 64/248, train_loss: 0.3785, step time: 1.0309
Batch 65/248, train_loss: 0.2633, step time: 1.0278
Batch 66/248, train_loss: 0.1223, step time: 1.0313
Batch 67/248, train_loss: 0.0696, step time: 1.0234
Batch 68/248, train_loss: 0.1354, step time: 1.0295
Batch 69/248, train_loss: 0.4545, step time: 1.0410
Batch 70/248, train_loss: 0.1416, step time: 1.0299
Batch 71/248, train_loss: 0.1779, step time: 1.0271
Batch 72/248, train_loss: 0.0638, step time: 1.0272
Batch 73/248, train_loss: 0.4548, step time: 1.0301
Batch 74/248, train_loss: 0.9965, step time: 1.0228
Batch 75/248, train_loss: 0.1314, step time: 1.0287
Batch 76/248, train_loss: 0.6171, step time: 1.0333
Batch 77/248, train_loss: 0.8236, step time: 1.0326
Batch 78/248, train_loss: 0.1186, step time: 1.0277
Batch 79/248, train_loss: 0.1628, step time: 1.0285
Batch 80/248, train_loss: 0.2101, step time: 1.0270
Batch 81/248, train_loss: 0.1930, step time: 1.0325
Batch 82/248, train_loss: 0.0844, step time: 1.0276
Batch 83/248, train_loss: 0.6433, step time: 1.0319
Batch 84/248, train_loss: 0.2402, step time: 1.0357
Batch 85/248, train_loss: 0.4147, step time: 1.0304
Batch 86/248, train_loss: 0.3209, step time: 1.0313
Batch 87/248, train_loss: 0.4662, step time: 1.0271
Batch 88/248, train_loss: 0.3356, step time: 1.0311
Batch 89/248, train_loss: 0.0997, step time: 1.0269
Batch 90/248, train_loss: 0.2630, step time: 1.0315
Batch 91/248, train_loss: 0.3483, step time: 1.0289
Batch 92/248, train_loss: 0.3144, step time: 1.0307
Batch 93/248, train_loss: 0.1482, step time: 1.0284
Batch 94/248, train_loss: 0.3236, step time: 1.0330
Batch 95/248, train_loss: 0.1701, step time: 1.0279
Batch 96/248, train_loss: 0.1644, step time: 1.0286
Batch 97/248, train_loss: 0.5127, step time: 1.0327
Batch 98/248, train_loss: 0.1010, step time: 1.0275

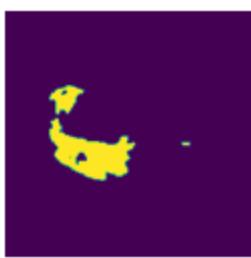
Batch 98/248, train_loss: 0.1047, step time: 1.0273
Batch 99/248, train_loss: 0.3046, step time: 1.0307
Batch 100/248, train_loss: 0.2817, step time: 1.0362
Batch 101/248, train_loss: 0.0558, step time: 1.0267
Batch 102/248, train_loss: 0.0886, step time: 1.0276
Batch 103/248, train_loss: 0.6264, step time: 1.0314
Batch 104/248, train_loss: 0.3705, step time: 1.0281
Batch 105/248, train_loss: 0.0851, step time: 1.0288
Batch 106/248, train_loss: 0.1635, step time: 1.0318
Batch 107/248, train_loss: 0.2115, step time: 1.0292
Batch 108/248, train_loss: 0.4966, step time: 1.0323
Batch 109/248, train_loss: 0.9361, step time: 1.0309
Batch 110/248, train_loss: 0.2607, step time: 1.0299
Batch 111/248, train_loss: 0.1018, step time: 1.0303
Batch 112/248, train_loss: 0.1060, step time: 1.0285
Batch 113/248, train_loss: 0.9529, step time: 1.0323
Batch 114/248, train_loss: 0.1509, step time: 1.0286
Batch 115/248, train_loss: 0.1617, step time: 1.0326
Batch 116/248, train_loss: 0.0931, step time: 1.0276
Batch 117/248, train_loss: 0.7459, step time: 1.0327
Batch 118/248, train_loss: 0.6807, step time: 1.0292
Batch 119/248, train_loss: 0.3845, step time: 1.0292
Batch 120/248, train_loss: 0.2226, step time: 1.0267
Batch 121/248, train_loss: 0.2970, step time: 1.0279
Batch 122/248, train_loss: 0.4014, step time: 1.0297
Batch 123/248, train_loss: 0.0924, step time: 1.0310
Batch 124/248, train_loss: 0.3032, step time: 1.0294
Batch 125/248, train_loss: 0.6094, step time: 1.0307
Batch 126/248, train_loss: 0.2262, step time: 1.0339
Batch 127/248, train_loss: 0.1108, step time: 1.0325
Batch 128/248, train_loss: 0.3598, step time: 1.0307
Batch 129/248, train_loss: 0.1171, step time: 1.0299
Batch 130/248, train_loss: 0.0900, step time: 1.0276
Batch 131/248, train_loss: 0.4825, step time: 1.0300
Batch 132/248, train_loss: 0.4344, step time: 1.0298
Batch 133/248, train_loss: 0.1716, step time: 1.0274
Batch 134/248, train_loss: 0.8814, step time: 1.0305
Batch 135/248, train_loss: 0.3327, step time: 1.0296
Batch 136/248, train_loss: 0.1172, step time: 1.0258
Batch 137/248, train_loss: 0.1337, step time: 1.0275
Batch 138/248, train_loss: 0.0694, step time: 1.0254
Batch 139/248, train_loss: 0.2538, step time: 1.0316
Batch 140/248, train_loss: 0.1832, step time: 1.0298
Batch 141/248, train_loss: 0.2581, step time: 1.0316
Batch 142/248, train_loss: 0.5086, step time: 1.0342
Batch 143/248, train_loss: 0.2832, step time: 1.0317
Batch 144/248, train_loss: 0.1224, step time: 1.0249
Batch 145/248, train_loss: 0.0883, step time: 1.0288
Batch 146/248, train_loss: 0.6472, step time: 1.0282
Batch 147/248, train_loss: 0.0396, step time: 1.0266
Batch 148/248, train_loss: 0.6613, step time: 1.0336
Batch 149/248, train_loss: 0.1490, step time: 1.0284
Batch 150/248, train_loss: 0.6922, step time: 1.0292
Batch 151/248, train_loss: 0.3708, step time: 1.0299
Batch 152/248, train_loss: 0.0404, step time: 1.0254
Batch 153/248, train_loss: 0.3258, step time: 1.0289
Batch 154/248, train_loss: 0.6818, step time: 1.0299

Batch 155/248, train_loss: 0.1155, step time: 1.0326
Batch 156/248, train_loss: 0.2979, step time: 1.0330
Batch 157/248, train_loss: 0.2253, step time: 1.0342
Batch 158/248, train_loss: 0.9852, step time: 1.0299
Batch 159/248, train_loss: 0.4173, step time: 1.0312
Batch 160/248, train_loss: 0.0938, step time: 1.0297
Batch 161/248, train_loss: 0.1126, step time: 1.0269
Batch 162/248, train_loss: 0.1528, step time: 1.0312
Batch 163/248, train_loss: 0.1189, step time: 1.0326
Batch 164/248, train_loss: 0.3750, step time: 1.0312
Batch 165/248, train_loss: 0.7268, step time: 1.0296
Batch 166/248, train_loss: 0.0893, step time: 1.0267
Batch 167/248, train_loss: 0.2233, step time: 1.0275
Batch 168/248, train_loss: 0.1482, step time: 1.0308
Batch 169/248, train_loss: 0.0910, step time: 1.0333
Batch 170/248, train_loss: 0.7252, step time: 1.0293
Batch 171/248, train_loss: 0.0842, step time: 1.0244
Batch 172/248, train_loss: 0.5313, step time: 1.0338
Batch 173/248, train_loss: 0.0849, step time: 1.0282
Batch 174/248, train_loss: 0.6426, step time: 1.0311
Batch 175/248, train_loss: 0.1598, step time: 1.0297
Batch 176/248, train_loss: 0.3317, step time: 1.0276
Batch 177/248, train_loss: 0.2457, step time: 1.0329
Batch 178/248, train_loss: 0.3233, step time: 1.0309
Batch 179/248, train_loss: 0.0894, step time: 1.0261
Batch 180/248, train_loss: 0.3440, step time: 1.0286
Batch 181/248, train_loss: 0.1105, step time: 1.0290
Batch 182/248, train_loss: 0.9937, step time: 1.0283
Batch 183/248, train_loss: 0.2261, step time: 1.0298
Batch 184/248, train_loss: 0.4358, step time: 1.0304
Batch 185/248, train_loss: 0.0909, step time: 1.0292
Batch 186/248, train_loss: 0.1000, step time: 1.0284
Batch 187/248, train_loss: 0.1779, step time: 1.0298
Batch 188/248, train_loss: 0.3380, step time: 1.0306
Batch 189/248, train_loss: 0.4852, step time: 1.0336
Batch 190/248, train_loss: 0.1223, step time: 1.0287
Batch 191/248, train_loss: 0.6231, step time: 1.0298
Batch 192/248, train_loss: 0.3065, step time: 1.0296
Batch 193/248, train_loss: 0.2805, step time: 1.0302
Batch 194/248, train_loss: 0.0753, step time: 1.0278
Batch 195/248, train_loss: 0.6404, step time: 1.0292
Batch 196/248, train_loss: 0.9996, step time: 1.0198
Batch 197/248, train_loss: 0.1956, step time: 1.0274
Batch 198/248, train_loss: 0.7832, step time: 1.0350
Batch 199/248, train_loss: 0.1551, step time: 1.0311
Batch 200/248, train_loss: 0.1192, step time: 1.0258
Batch 201/248, train_loss: 0.1267, step time: 1.0276
Batch 202/248, train_loss: 0.3744, step time: 1.0288
Batch 203/248, train_loss: 0.5803, step time: 1.0308
Batch 204/248, train_loss: 0.0766, step time: 1.0244
Batch 205/248, train_loss: 0.2293, step time: 1.0259
Batch 206/248, train_loss: 0.4578, step time: 1.0327
Batch 207/248, train_loss: 0.0801, step time: 1.0262
Batch 208/248, train_loss: 0.1658, step time: 1.0296
Batch 209/248, train_loss: 0.1486, step time: 1.0265
Batch 210/248, train_loss: 0.0587, step time: 1.0259
Batch 211/248, train_loss: 0.0677, step time: 1.0282

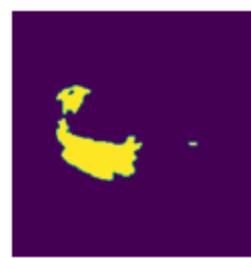
```
Batch 211/248, train_loss: 0.0027, step time: 1.0202
Batch 212/248, train_loss: 0.4043, step time: 1.0292
Batch 213/248, train_loss: 0.1440, step time: 1.0275
Batch 214/248, train_loss: 0.0767, step time: 1.0243
Batch 215/248, train_loss: 0.1764, step time: 1.0318
Batch 216/248, train_loss: 0.1148, step time: 1.0292
Batch 217/248, train_loss: 0.2621, step time: 1.0288
Batch 218/248, train_loss: 0.7652, step time: 1.0306
Batch 219/248, train_loss: 0.0642, step time: 1.0285
Batch 220/248, train_loss: 0.2130, step time: 1.0345
Batch 221/248, train_loss: 0.2865, step time: 1.0421
Batch 222/248, train_loss: 0.1993, step time: 1.0288
Batch 223/248, train_loss: 0.0416, step time: 1.0255
Batch 224/248, train_loss: 0.0821, step time: 1.0263
Batch 225/248, train_loss: 0.2457, step time: 1.0278
Batch 226/248, train_loss: 0.1911, step time: 1.0303
Batch 227/248, train_loss: 0.0850, step time: 1.0228
Batch 228/248, train_loss: 0.1414, step time: 1.0301
Batch 229/248, train_loss: 0.0988, step time: 1.0290
Batch 230/248, train_loss: 0.0766, step time: 1.0268
Batch 231/248, train_loss: 0.2975, step time: 1.0301
Batch 232/248, train_loss: 0.0727, step time: 1.0289
Batch 233/248, train_loss: 0.8881, step time: 1.0288
Batch 234/248, train_loss: 0.4895, step time: 1.0292
Batch 235/248, train_loss: 0.4445, step time: 1.0333
Batch 236/248, train_loss: 0.7902, step time: 1.0303
Batch 237/248, train_loss: 0.0996, step time: 1.0288
Batch 238/248, train_loss: 0.1005, step time: 1.0311
Batch 239/248, train_loss: 0.0681, step time: 1.0290
Batch 240/248, train_loss: 0.2619, step time: 1.0292
Batch 241/248, train_loss: 0.5711, step time: 1.0328
Batch 242/248, train_loss: 0.1573, step time: 1.0278
Batch 243/248, train_loss: 0.5802, step time: 1.0284
Batch 244/248, train_loss: 0.4662, step time: 1.0308
Batch 245/248, train_loss: 0.0595, step time: 1.0291
Batch 246/248, train_loss: 0.5490, step time: 1.0325
Batch 247/248, train_loss: 0.0778, step time: 1.0250
Batch 248/248, train_loss: 0.9997, step time: 1.0245
```

Labels

TC



WT



ET



Predictions



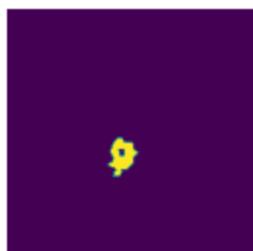


VAL

```
Batch 1/31, val_loss: 0.8916
Batch 2/31, val_loss: 0.9958
Batch 3/31, val_loss: 0.9610
Batch 4/31, val_loss: 0.9408
Batch 5/31, val_loss: 0.9932
Batch 6/31, val_loss: 0.6953
Batch 7/31, val_loss: 0.8276
Batch 8/31, val_loss: 0.9550
Batch 9/31, val_loss: 0.6927
Batch 10/31, val_loss: 0.9070
Batch 11/31, val_loss: 0.8245
Batch 12/31, val_loss: 0.9747
Batch 13/31, val_loss: 0.9796
Batch 14/31, val_loss: 0.9408
Batch 15/31, val_loss: 0.9948
Batch 16/31, val_loss: 0.9740
Batch 17/31, val_loss: 0.9742
Batch 18/31, val_loss: 0.9362
Batch 19/31, val_loss: 0.7407
Batch 20/31, val_loss: 0.8680
Batch 21/31, val_loss: 0.8659
Batch 22/31, val_loss: 0.9750
Batch 23/31, val_loss: 0.9789
Batch 24/31, val_loss: 0.7471
Batch 25/31, val_loss: 0.7990
Batch 26/31, val_loss: 0.9176
Batch 27/31, val_loss: 0.9713
Batch 28/31, val_loss: 0.7418
Batch 29/31, val_loss: 0.9842
Batch 30/31, val_loss: 0.9573
Batch 31/31, val_loss: 0.9785
```

Labels

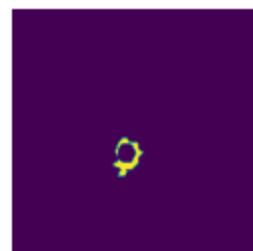
TC



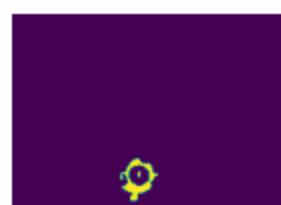
WT



ET



Predictions



```
epoch 50
    average train loss: 0.2984
    average validation loss: 0.9027
    saved as best model: False
    current mean dice: 0.4964
    current TC dice: 0.5138
    current WT dice: 0.5233
    current ET dice: 0.4971
    Best Mean Metric: 0.5060
    time consuming of epoch 50 is: 1555.3324
-----
epoch 51/100
TRAIN
    Batch 1/248, train_loss: 0.0744, step time: 1.0291
    Batch 2/248, train_loss: 0.7774, step time: 1.0331
    Batch 3/248, train_loss: 0.3499, step time: 1.0331
    Batch 4/248, train_loss: 0.9299, step time: 1.0318
    Batch 5/248, train_loss: 0.2099, step time: 1.0259
    Batch 6/248, train_loss: 0.5843, step time: 1.0323
    Batch 7/248, train_loss: 0.0678, step time: 1.0290
    Batch 8/248, train_loss: 0.7101, step time: 1.0276
    Batch 9/248, train_loss: 0.0474, step time: 1.0250
    Batch 10/248, train_loss: 0.2306, step time: 1.0299
    Batch 11/248, train_loss: 0.1709, step time: 1.0281
    Batch 12/248, train_loss: 0.5357, step time: 1.0316
    Batch 13/248, train_loss: 0.3339, step time: 1.0318
    Batch 14/248, train_loss: 0.0575, step time: 1.0263
    Batch 15/248, train_loss: 0.3107, step time: 1.0278
    Batch 16/248, train_loss: 0.1466, step time: 1.0286
    Batch 17/248, train_loss: 0.3049, step time: 1.0318
    Batch 18/248, train_loss: 0.3957, step time: 1.0357
    Batch 19/248, train_loss: 0.1142, step time: 1.0251
    Batch 20/248, train_loss: 0.1599, step time: 1.0360
    Batch 21/248, train_loss: 0.0667, step time: 1.0243
    Batch 22/248, train_loss: 0.9925, step time: 1.0292
    Batch 23/248, train_loss: 0.9966, step time: 1.0254
    Batch 24/248, train_loss: 0.0929, step time: 1.0295
    Batch 25/248, train_loss: 0.0577, step time: 1.0263
    Batch 26/248, train_loss: 0.4670, step time: 1.0348
    Batch 27/248, train_loss: 0.0686, step time: 1.0285
    Batch 28/248, train_loss: 0.1418, step time: 1.0319
    Batch 29/248, train_loss: 0.4032, step time: 1.0306
    Batch 30/248, train_loss: 0.5414, step time: 1.0307
    Batch 31/248, train_loss: 0.3029, step time: 1.0303
    Batch 32/248, train_loss: 0.0796, step time: 1.0287
    Batch 33/248, train_loss: 0.0710, step time: 1.0279
    Batch 34/248, train_loss: 0.0440, step time: 1.0280
    Batch 35/248, train_loss: 0.0433, step time: 1.0253
    Batch 36/248, train_loss: 0.4418, step time: 1.0294
    Batch 37/248, train_loss: 0.1593, step time: 1.0223
    Batch 38/248, train_loss: 0.2897, step time: 1.0285
    Batch 39/248, train_loss: 0.1824, step time: 1.0275
    Batch 40/248, train_loss: 0.7401, step time: 1.0332
    Batch 41/248. train loss: 0.2550. step time: 1.0321
```

Batch 42/248, train_loss: 0.0694, step time: 1.0250
Batch 43/248, train_loss: 0.0539, step time: 1.0274
Batch 44/248, train_loss: 0.1682, step time: 1.0278
Batch 45/248, train_loss: 0.3778, step time: 1.0296
Batch 46/248, train_loss: 0.1589, step time: 1.0320
Batch 47/248, train_loss: 0.0605, step time: 1.0301
Batch 48/248, train_loss: 0.2343, step time: 1.0269
Batch 49/248, train_loss: 0.5033, step time: 1.0304
Batch 50/248, train_loss: 0.1298, step time: 1.0263
Batch 51/248, train_loss: 0.1651, step time: 1.0283
Batch 52/248, train_loss: 0.1013, step time: 1.0264
Batch 53/248, train_loss: 0.3677, step time: 1.0312
Batch 54/248, train_loss: 0.2205, step time: 1.0317
Batch 55/248, train_loss: 0.3586, step time: 1.0321
Batch 56/248, train_loss: 0.2430, step time: 1.0327
Batch 57/248, train_loss: 0.2274, step time: 1.0331
Batch 58/248, train_loss: 0.0904, step time: 1.0293
Batch 59/248, train_loss: 0.0885, step time: 1.0315
Batch 60/248, train_loss: 0.0526, step time: 1.0265
Batch 61/248, train_loss: 0.0986, step time: 1.0260
Batch 62/248, train_loss: 0.2017, step time: 1.0300
Batch 63/248, train_loss: 0.5460, step time: 1.0313
Batch 64/248, train_loss: 0.3561, step time: 1.0300
Batch 65/248, train_loss: 0.2674, step time: 1.0257
Batch 66/248, train_loss: 0.1163, step time: 1.0260
Batch 67/248, train_loss: 0.0700, step time: 1.0248
Batch 68/248, train_loss: 0.1292, step time: 1.0299
Batch 69/248, train_loss: 0.4235, step time: 1.0313
Batch 70/248, train_loss: 0.1451, step time: 1.0282
Batch 71/248, train_loss: 0.1368, step time: 1.0288
Batch 72/248, train_loss: 0.0639, step time: 1.0258
Batch 73/248, train_loss: 0.4159, step time: 1.0315
Batch 74/248, train_loss: 0.9961, step time: 1.0279
Batch 75/248, train_loss: 0.1197, step time: 1.0305
Batch 76/248, train_loss: 0.6189, step time: 1.0299
Batch 77/248, train_loss: 0.7995, step time: 1.0275
Batch 78/248, train_loss: 0.1365, step time: 1.0280
Batch 79/248, train_loss: 0.1377, step time: 1.0291
Batch 80/248, train_loss: 0.1772, step time: 1.0338
Batch 81/248, train_loss: 0.1624, step time: 1.0324
Batch 82/248, train_loss: 0.0854, step time: 1.0278
Batch 83/248, train_loss: 0.5628, step time: 1.0314
Batch 84/248, train_loss: 0.2640, step time: 1.0331
Batch 85/248, train_loss: 0.4795, step time: 1.0306
Batch 86/248, train_loss: 0.3337, step time: 1.0276
Batch 87/248, train_loss: 0.4717, step time: 1.0301
Batch 88/248, train_loss: 0.3274, step time: 1.0276
Batch 89/248, train_loss: 0.0981, step time: 1.0285
Batch 90/248, train_loss: 0.3555, step time: 1.0288
Batch 91/248, train_loss: 0.4014, step time: 1.0319
Batch 92/248, train_loss: 0.3524, step time: 1.0310
Batch 93/248, train_loss: 0.1540, step time: 1.0277
Batch 94/248, train_loss: 0.3147, step time: 1.0298
Batch 95/248, train_loss: 0.1682, step time: 1.0288
Batch 96/248, train_loss: 0.1727, step time: 1.0286
Batch 97/248, train_loss: 0.4736, step time: 1.0326

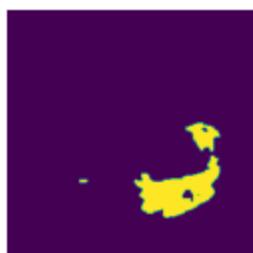
Batch 98/248, train_loss: 0.1214, step time: 1.0287
Batch 99/248, train_loss: 0.3428, step time: 1.0299
Batch 100/248, train_loss: 0.2601, step time: 1.0332
Batch 101/248, train_loss: 0.0530, step time: 1.0278
Batch 102/248, train_loss: 0.0931, step time: 1.0294
Batch 103/248, train_loss: 0.7138, step time: 1.0296
Batch 104/248, train_loss: 0.3732, step time: 1.0284
Batch 105/248, train_loss: 0.0849, step time: 1.0240
Batch 106/248, train_loss: 0.1485, step time: 1.0272
Batch 107/248, train_loss: 0.2604, step time: 1.0305
Batch 108/248, train_loss: 0.3872, step time: 1.0276
Batch 109/248, train_loss: 0.9806, step time: 1.0276
Batch 110/248, train_loss: 0.2009, step time: 1.0305
Batch 111/248, train_loss: 0.1067, step time: 1.0294
Batch 112/248, train_loss: 0.1116, step time: 1.0271
Batch 113/248, train_loss: 0.9466, step time: 1.0302
Batch 114/248, train_loss: 0.1374, step time: 1.0264
Batch 115/248, train_loss: 0.1414, step time: 1.0301
Batch 116/248, train_loss: 0.0889, step time: 1.0288
Batch 117/248, train_loss: 0.6158, step time: 1.0305
Batch 118/248, train_loss: 0.5968, step time: 1.0327
Batch 119/248, train_loss: 0.2917, step time: 1.0277
Batch 120/248, train_loss: 0.2353, step time: 1.0256
Batch 121/248, train_loss: 0.2714, step time: 1.0267
Batch 122/248, train_loss: 0.4517, step time: 1.0312
Batch 123/248, train_loss: 0.1005, step time: 1.0320
Batch 124/248, train_loss: 0.2436, step time: 1.0304
Batch 125/248, train_loss: 0.6193, step time: 1.0354
Batch 126/248, train_loss: 0.1819, step time: 1.0325
Batch 127/248, train_loss: 0.1315, step time: 1.0337
Batch 128/248, train_loss: 0.2206, step time: 1.0337
Batch 129/248, train_loss: 0.1249, step time: 1.0303
Batch 130/248, train_loss: 0.0964, step time: 1.0282
Batch 131/248, train_loss: 0.4742, step time: 1.0281
Batch 132/248, train_loss: 0.4565, step time: 1.0358
Batch 133/248, train_loss: 0.1411, step time: 1.0286
Batch 134/248, train_loss: 0.8226, step time: 1.0271
Batch 135/248, train_loss: 0.2397, step time: 1.0272
Batch 136/248, train_loss: 0.1173, step time: 1.0217
Batch 137/248, train_loss: 0.1300, step time: 1.0182
Batch 138/248, train_loss: 0.0655, step time: 1.0167
Batch 139/248, train_loss: 0.2418, step time: 1.0186
Batch 140/248, train_loss: 0.2346, step time: 1.0181
Batch 141/248, train_loss: 0.2284, step time: 1.0179
Batch 142/248, train_loss: 0.4558, step time: 1.0197
Batch 143/248, train_loss: 0.2975, step time: 1.0110
Batch 144/248, train_loss: 0.1251, step time: 1.0146
Batch 145/248, train_loss: 0.0763, step time: 1.0113
Batch 146/248, train_loss: 0.8093, step time: 1.0116
Batch 147/248, train_loss: 0.0407, step time: 1.0070
Batch 148/248, train_loss: 0.7385, step time: 1.0131
Batch 149/248, train_loss: 0.1145, step time: 1.0111
Batch 150/248, train_loss: 0.6881, step time: 1.0080
Batch 151/248, train_loss: 0.3679, step time: 1.0083
Batch 152/248, train_loss: 0.0394, step time: 1.0072
Batch 153/248, train_loss: 0.2639, step time: 1.0092
Batch 154/248. train loss: 0.7027. step time: 1.0056

```
Batch 155/248, train_loss: 0.1334, step time: 1.0093
Batch 156/248, train_loss: 0.2185, step time: 1.0159
Batch 157/248, train_loss: 0.2290, step time: 1.0039
Batch 158/248, train_loss: 0.9917, step time: 1.0048
Batch 159/248, train_loss: 0.4396, step time: 1.0094
Batch 160/248, train_loss: 0.0976, step time: 1.0080
Batch 161/248, train_loss: 0.1042, step time: 1.0076
Batch 162/248, train_loss: 0.0848, step time: 1.0075
Batch 163/248, train_loss: 0.1358, step time: 1.0103
Batch 164/248, train_loss: 0.1674, step time: 1.0060
Batch 165/248, train_loss: 0.7110, step time: 1.0079
Batch 166/248, train_loss: 0.0862, step time: 1.0094
Batch 167/248, train_loss: 0.1720, step time: 1.0075
Batch 168/248, train_loss: 0.1510, step time: 1.0062
Batch 169/248, train_loss: 0.0850, step time: 1.0074
Batch 170/248, train_loss: 0.5997, step time: 1.0078
Batch 171/248, train_loss: 0.0892, step time: 1.0047
Batch 172/248, train_loss: 0.4015, step time: 1.0082
Batch 173/248, train_loss: 0.0957, step time: 1.0064
Batch 174/248, train_loss: 0.5569, step time: 1.0062
Batch 175/248, train_loss: 0.1683, step time: 1.0083
Batch 176/248, train_loss: 0.3416, step time: 1.0040
Batch 177/248, train_loss: 0.2281, step time: 1.0044
Batch 178/248, train_loss: 0.3738, step time: 1.0090
Batch 179/248, train_loss: 0.1030, step time: 1.0065
Batch 180/248, train_loss: 0.3625, step time: 1.0066
Batch 181/248, train_loss: 0.1388, step time: 1.0050
Batch 182/248, train_loss: 0.9906, step time: 1.0079
Batch 183/248, train_loss: 0.1412, step time: 1.0073
Batch 184/248, train_loss: 0.2617, step time: 1.0070
Batch 185/248, train_loss: 0.0890, step time: 1.0044
Batch 186/248, train_loss: 0.0973, step time: 1.0030
Batch 187/248, train_loss: 0.1555, step time: 1.0067
Batch 188/248, train_loss: 0.2791, step time: 1.0079
Batch 189/248, train_loss: 0.4747, step time: 1.0054
Batch 190/248, train_loss: 0.1153, step time: 1.0031
Batch 191/248, train_loss: 0.5938, step time: 1.0026
Batch 192/248, train_loss: 0.3066, step time: 1.0065
Batch 193/248, train_loss: 0.2704, step time: 1.0014
Batch 194/248, train_loss: 0.0922, step time: 1.0067
Batch 195/248, train_loss: 0.6314, step time: 1.0086
Batch 196/248, train_loss: 0.9993, step time: 1.0006
Batch 197/248, train_loss: 0.1708, step time: 1.0027
Batch 198/248, train_loss: 0.5590, step time: 1.0101
Batch 199/248, train_loss: 0.1344, step time: 1.0022
Batch 200/248, train_loss: 0.1336, step time: 1.0034
Batch 201/248, train_loss: 0.1313, step time: 1.0042
Batch 202/248, train_loss: 0.3662, step time: 1.0087
Batch 203/248, train_loss: 0.5941, step time: 1.0099
Batch 204/248, train_loss: 0.0771, step time: 1.0030
Batch 205/248, train_loss: 0.2469, step time: 1.0066
Batch 206/248, train_loss: 0.3973, step time: 1.0084
Batch 207/248, train_loss: 0.0762, step time: 1.0004
Batch 208/248, train_loss: 0.1487, step time: 1.0030
Batch 209/248, train_loss: 0.1521, step time: 1.0027
Batch 210/248, train_loss: 0.0600, step time: 1.0056
```

```
Batch 211/248, train_loss: 0.0547, step time: 1.0032
Batch 212/248, train_loss: 0.2478, step time: 1.0076
Batch 213/248, train_loss: 0.1478, step time: 1.0017
Batch 214/248, train_loss: 0.0687, step time: 0.9998
Batch 215/248, train_loss: 0.1931, step time: 1.0076
Batch 216/248, train_loss: 0.1223, step time: 1.0035
Batch 217/248, train_loss: 0.2646, step time: 1.0098
Batch 218/248, train_loss: 0.8120, step time: 1.0059
Batch 219/248, train_loss: 0.0557, step time: 1.0037
Batch 220/248, train_loss: 0.2317, step time: 1.0016
Batch 221/248, train_loss: 0.2884, step time: 1.0044
Batch 222/248, train_loss: 0.1768, step time: 1.0067
Batch 223/248, train_loss: 0.0405, step time: 1.0023
Batch 224/248, train_loss: 0.0788, step time: 1.0034
Batch 225/248, train_loss: 0.2089, step time: 1.0013
Batch 226/248, train_loss: 0.1211, step time: 1.0040
Batch 227/248, train_loss: 0.0837, step time: 1.0059
Batch 228/248, train_loss: 0.1582, step time: 1.0073
Batch 229/248, train_loss: 0.1122, step time: 1.0070
Batch 230/248, train_loss: 0.0623, step time: 1.0021
Batch 231/248, train_loss: 0.3384, step time: 1.0068
Batch 232/248, train_loss: 0.0722, step time: 1.0094
Batch 233/248, train_loss: 0.8242, step time: 1.0040
Batch 234/248, train_loss: 0.5480, step time: 1.0024
Batch 235/248, train_loss: 0.5617, step time: 1.0076
Batch 236/248, train_loss: 0.7911, step time: 1.0090
Batch 237/248, train_loss: 0.0976, step time: 1.0054
Batch 238/248, train_loss: 0.1027, step time: 1.0034
Batch 239/248, train_loss: 0.0685, step time: 1.0047
Batch 240/248, train_loss: 0.3378, step time: 1.0055
Batch 241/248, train_loss: 0.5884, step time: 1.0090
Batch 242/248, train_loss: 0.1605, step time: 1.0037
Batch 243/248, train_loss: 0.5625, step time: 1.0053
Batch 244/248, train_loss: 0.5218, step time: 1.0042
Batch 245/248, train_loss: 0.0604, step time: 1.0027
Batch 246/248, train_loss: 0.5750, step time: 1.0074
Batch 247/248, train_loss: 0.0792, step time: 1.0033
Batch 248/248, train_loss: 0.9994, step time: 1.0021
```

Labels

TC



WT



ET



Predictions



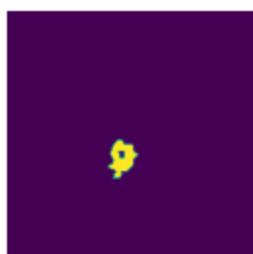


VAL

Batch 1/31, val_loss: 0.9268
Batch 2/31, val_loss: 0.9942
Batch 3/31, val_loss: 0.9598
Batch 4/31, val_loss: 0.9409
Batch 5/31, val_loss: 0.9938
Batch 6/31, val_loss: 0.6949
Batch 7/31, val_loss: 0.8263
Batch 8/31, val_loss: 0.9618
Batch 9/31, val_loss: 0.6909
Batch 10/31, val_loss: 0.9058
Batch 11/31, val_loss: 0.8228
Batch 12/31, val_loss: 0.9765
Batch 13/31, val_loss: 0.9860
Batch 14/31, val_loss: 0.9449
Batch 15/31, val_loss: 0.9966
Batch 16/31, val_loss: 0.9738
Batch 17/31, val_loss: 0.9741
Batch 18/31, val_loss: 0.9349
Batch 19/31, val_loss: 0.7420
Batch 20/31, val_loss: 0.8690
Batch 21/31, val_loss: 0.8668
Batch 22/31, val_loss: 0.9738
Batch 23/31, val_loss: 0.9811
Batch 24/31, val_loss: 0.7406
Batch 25/31, val_loss: 0.7984
Batch 26/31, val_loss: 0.9175
Batch 27/31, val_loss: 0.9732
Batch 28/31, val_loss: 0.7434
Batch 29/31, val_loss: 0.9827
Batch 30/31, val_loss: 0.9595
Batch 31/31, val_loss: 0.9830

Labels

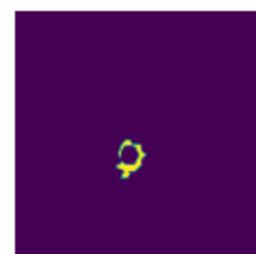
TC



WT



ET



Predictions



epoch 51
average train loss: 0.2911
average validation loss: 0.9044
saved as best model: False
current mean dice: 0.5059
current TC dice: 0.5272
current WT dice: 0.5316
current ET dice: 0.5022
Best Mean Metric: 0.5060
time consuming of epoch 51 is: 1553.6537

epoch 52/100
TRAIN
Batch 1/248, train_loss: 0.0747, step time: 0.9993
Batch 2/248, train_loss: 0.6930, step time: 1.0047
Batch 3/248, train_loss: 0.2585, step time: 1.0076
Batch 4/248, train_loss: 0.9484, step time: 1.0071
Batch 5/248, train_loss: 0.2250, step time: 1.0016
Batch 6/248, train_loss: 0.5961, step time: 1.0033
Batch 7/248, train_loss: 0.0622, step time: 1.0052
Batch 8/248, train_loss: 0.7345, step time: 1.0017
Batch 9/248, train_loss: 0.0459, step time: 1.0019
Batch 10/248, train_loss: 0.2251, step time: 1.0042
Batch 11/248, train_loss: 0.1713, step time: 1.0009
Batch 12/248, train_loss: 0.4676, step time: 1.0148
Batch 13/248, train_loss: 0.2837, step time: 1.0029
Batch 14/248, train_loss: 0.0536, step time: 1.0045
Batch 15/248, train_loss: 0.3301, step time: 1.0009
Batch 16/248, train_loss: 0.1568, step time: 1.0081
Batch 17/248, train_loss: 0.3367, step time: 1.0079
Batch 18/248, train_loss: 0.5477, step time: 1.0079
Batch 19/248, train_loss: 0.1064, step time: 1.0023
Batch 20/248, train_loss: 0.1503, step time: 1.0081
Batch 21/248, train_loss: 0.0652, step time: 1.0033
Batch 22/248, train_loss: 0.9915, step time: 1.0029
Batch 23/248, train_loss: 0.9979, step time: 1.0001
Batch 24/248, train_loss: 0.0822, step time: 1.0024
Batch 25/248, train_loss: 0.0606, step time: 1.0059
Batch 26/248, train_loss: 0.4275, step time: 1.0082
Batch 27/248, train_loss: 0.0640, step time: 1.0037
Batch 28/248, train_loss: 0.1504, step time: 1.0046
Batch 29/248, train_loss: 0.3721, step time: 1.0063
Batch 30/248, train_loss: 0.4582, step time: 1.0089
Batch 31/248, train_loss: 0.2546, step time: 1.0038
Batch 32/248, train_loss: 0.0713, step time: 1.0051
Batch 33/248, train_loss: 0.0672, step time: 1.0001
Batch 34/248, train_loss: 0.0502, step time: 1.0020
Batch 35/248, train_loss: 0.0408, step time: 1.0042
Batch 36/248, train_loss: 0.4702, step time: 1.0088
Batch 37/248, train_loss: 0.1402, step time: 1.0054
Batch 38/248, train_loss: 0.2835, step time: 1.0072
Batch 39/248, train_loss: 0.1732, step time: 1.0041
Batch 40/248, train_loss: 0.6243, step time: 1.0082
Batch 41/248, train_loss: 0.2112, step time: 1.0010

Batch 41/248, train_loss: 0.5112, step time: 1.0010
Batch 42/248, train_loss: 0.0680, step time: 0.9992
Batch 43/248, train_loss: 0.0490, step time: 1.0010
Batch 44/248, train_loss: 0.3584, step time: 1.0106
Batch 45/248, train_loss: 0.3806, step time: 1.0064
Batch 46/248, train_loss: 0.1717, step time: 1.0027
Batch 47/248, train_loss: 0.0737, step time: 1.0046
Batch 48/248, train_loss: 0.2421, step time: 1.0044
Batch 49/248, train_loss: 0.4490, step time: 1.0090
Batch 50/248, train_loss: 0.1242, step time: 1.0058
Batch 51/248, train_loss: 0.1324, step time: 1.0042
Batch 52/248, train_loss: 0.0997, step time: 1.0014
Batch 53/248, train_loss: 0.4410, step time: 1.0070
Batch 54/248, train_loss: 0.2168, step time: 1.0055
Batch 55/248, train_loss: 0.4185, step time: 1.0068
Batch 56/248, train_loss: 0.2083, step time: 1.0061
Batch 57/248, train_loss: 0.2162, step time: 1.0022
Batch 58/248, train_loss: 0.0959, step time: 1.0057
Batch 59/248, train_loss: 0.0903, step time: 1.0055
Batch 60/248, train_loss: 0.0511, step time: 1.0016
Batch 61/248, train_loss: 0.1045, step time: 1.0059
Batch 62/248, train_loss: 0.2006, step time: 1.0015
Batch 63/248, train_loss: 0.6002, step time: 1.0068
Batch 64/248, train_loss: 0.4219, step time: 1.0084
Batch 65/248, train_loss: 0.2920, step time: 1.0048
Batch 66/248, train_loss: 0.1131, step time: 1.0040
Batch 67/248, train_loss: 0.0702, step time: 1.0008
Batch 68/248, train_loss: 0.1570, step time: 1.0012
Batch 69/248, train_loss: 0.3821, step time: 1.0084
Batch 70/248, train_loss: 0.1334, step time: 1.0021
Batch 71/248, train_loss: 0.1706, step time: 1.0040
Batch 72/248, train_loss: 0.0584, step time: 0.9981
Batch 73/248, train_loss: 0.3072, step time: 1.0055
Batch 74/248, train_loss: 0.9957, step time: 0.9991
Batch 75/248, train_loss: 0.1353, step time: 1.0060
Batch 76/248, train_loss: 0.6160, step time: 1.0080
Batch 77/248, train_loss: 0.8149, step time: 1.0047
Batch 78/248, train_loss: 0.1121, step time: 1.0032
Batch 79/248, train_loss: 0.1459, step time: 1.0070
Batch 80/248, train_loss: 0.1906, step time: 0.9991
Batch 81/248, train_loss: 0.1851, step time: 1.0074
Batch 82/248, train_loss: 0.0797, step time: 1.0050
Batch 83/248, train_loss: 0.5084, step time: 1.0007
Batch 84/248, train_loss: 0.2483, step time: 1.0069
Batch 85/248, train_loss: 0.3548, step time: 1.0060
Batch 86/248, train_loss: 0.3099, step time: 1.0074
Batch 87/248, train_loss: 0.4732, step time: 1.0015
Batch 88/248, train_loss: 0.3195, step time: 1.0028
Batch 89/248, train_loss: 0.1052, step time: 1.0018
Batch 90/248, train_loss: 0.3051, step time: 1.0059
Batch 91/248, train_loss: 0.3631, step time: 1.0065
Batch 92/248, train_loss: 0.3029, step time: 1.0030
Batch 93/248, train_loss: 0.1520, step time: 1.0037
Batch 94/248, train_loss: 0.3030, step time: 1.0025
Batch 95/248, train_loss: 0.1699, step time: 1.0010
Batch 96/248, train_loss: 0.1566, step time: 1.0075
Batch 97/248, train_loss: 0.4617, step time: 1.0123

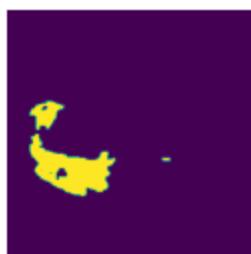
Batch 98/248, train_loss: 0.0988, step time: 1.0008
Batch 99/248, train_loss: 0.3209, step time: 1.0053
Batch 100/248, train_loss: 0.2566, step time: 1.0075
Batch 101/248, train_loss: 0.0562, step time: 0.9996
Batch 102/248, train_loss: 0.0956, step time: 1.0042
Batch 103/248, train_loss: 0.4430, step time: 1.0080
Batch 104/248, train_loss: 0.3269, step time: 1.0012
Batch 105/248, train_loss: 0.0836, step time: 1.0005
Batch 106/248, train_loss: 0.1714, step time: 1.0084
Batch 107/248, train_loss: 0.4759, step time: 1.0064
Batch 108/248, train_loss: 0.4526, step time: 1.0024
Batch 109/248, train_loss: 0.8630, step time: 1.0056
Batch 110/248, train_loss: 0.2087, step time: 1.0057
Batch 111/248, train_loss: 0.1406, step time: 1.0059
Batch 112/248, train_loss: 0.1299, step time: 1.0050
Batch 113/248, train_loss: 0.9793, step time: 1.0041
Batch 114/248, train_loss: 0.1549, step time: 1.0037
Batch 115/248, train_loss: 0.1794, step time: 1.0013
Batch 116/248, train_loss: 0.0830, step time: 0.9994
Batch 117/248, train_loss: 0.7261, step time: 1.0096
Batch 118/248, train_loss: 0.7175, step time: 1.0110
Batch 119/248, train_loss: 0.3597, step time: 1.0064
Batch 120/248, train_loss: 0.2782, step time: 1.0065
Batch 121/248, train_loss: 0.2880, step time: 1.0072
Batch 122/248, train_loss: 0.4644, step time: 1.0018
Batch 123/248, train_loss: 0.1054, step time: 1.0013
Batch 124/248, train_loss: 0.3176, step time: 1.0062
Batch 125/248, train_loss: 0.5956, step time: 1.0056
Batch 126/248, train_loss: 0.1852, step time: 1.0059
Batch 127/248, train_loss: 0.1223, step time: 1.0054
Batch 128/248, train_loss: 0.2833, step time: 1.0062
Batch 129/248, train_loss: 0.1568, step time: 1.0043
Batch 130/248, train_loss: 0.0948, step time: 1.0050
Batch 131/248, train_loss: 0.5939, step time: 1.0061
Batch 132/248, train_loss: 0.5209, step time: 1.0014
Batch 133/248, train_loss: 0.1661, step time: 1.0048
Batch 134/248, train_loss: 0.8750, step time: 1.0079
Batch 135/248, train_loss: 0.2415, step time: 1.0061
Batch 136/248, train_loss: 0.1082, step time: 1.0080
Batch 137/248, train_loss: 0.1511, step time: 1.0001
Batch 138/248, train_loss: 0.0758, step time: 0.9999
Batch 139/248, train_loss: 0.2185, step time: 1.0019
Batch 140/248, train_loss: 0.1747, step time: 1.0070
Batch 141/248, train_loss: 0.2547, step time: 1.0076
Batch 142/248, train_loss: 0.6063, step time: 1.0076
Batch 143/248, train_loss: 0.2187, step time: 1.0048
Batch 144/248, train_loss: 0.1208, step time: 1.0032
Batch 145/248, train_loss: 0.0626, step time: 1.0040
Batch 146/248, train_loss: 0.6880, step time: 1.0105
Batch 147/248, train_loss: 0.0410, step time: 1.0039
Batch 148/248, train_loss: 0.7296, step time: 1.0044
Batch 149/248, train_loss: 0.1599, step time: 1.0065
Batch 150/248, train_loss: 0.6758, step time: 1.0053
Batch 151/248, train_loss: 0.3102, step time: 1.0073
Batch 152/248, train_loss: 0.0403, step time: 1.0014
Batch 153/248, train_loss: 0.3108, step time: 1.0048
Batch 154/248, train_loss: 0.7025, step time: 1.0067

Batch 154/248, train_loss: 0.1023, step time: 1.0007
Batch 155/248, train_loss: 0.1205, step time: 1.0052
Batch 156/248, train_loss: 0.2987, step time: 1.0031
Batch 157/248, train_loss: 0.2390, step time: 1.0055
Batch 158/248, train_loss: 0.9812, step time: 0.9996
Batch 159/248, train_loss: 0.3678, step time: 1.0057
Batch 160/248, train_loss: 0.0803, step time: 1.0027
Batch 161/248, train_loss: 0.0877, step time: 1.0037
Batch 162/248, train_loss: 0.0810, step time: 1.0020
Batch 163/248, train_loss: 0.1200, step time: 1.0071
Batch 164/248, train_loss: 0.2107, step time: 1.0069
Batch 165/248, train_loss: 0.6279, step time: 1.0078
Batch 166/248, train_loss: 0.0835, step time: 1.0088
Batch 167/248, train_loss: 0.1686, step time: 1.0043
Batch 168/248, train_loss: 0.1451, step time: 1.0054
Batch 169/248, train_loss: 0.0915, step time: 1.0036
Batch 170/248, train_loss: 0.7722, step time: 1.0058
Batch 171/248, train_loss: 0.0832, step time: 1.0024
Batch 172/248, train_loss: 0.3995, step time: 1.0054
Batch 173/248, train_loss: 0.0797, step time: 1.0050
Batch 174/248, train_loss: 0.8478, step time: 1.0064
Batch 175/248, train_loss: 0.1557, step time: 1.0020
Batch 176/248, train_loss: 0.3608, step time: 1.0067
Batch 177/248, train_loss: 0.2731, step time: 1.0060
Batch 178/248, train_loss: 0.3008, step time: 1.0072
Batch 179/248, train_loss: 0.0933, step time: 1.0069
Batch 180/248, train_loss: 0.3430, step time: 1.0042
Batch 181/248, train_loss: 0.1180, step time: 1.0063
Batch 182/248, train_loss: 0.9540, step time: 1.0082
Batch 183/248, train_loss: 0.1539, step time: 1.0017
Batch 184/248, train_loss: 0.3311, step time: 1.0086
Batch 185/248, train_loss: 0.0859, step time: 1.0039
Batch 186/248, train_loss: 0.0992, step time: 1.0048
Batch 187/248, train_loss: 0.2175, step time: 1.0092
Batch 188/248, train_loss: 0.3337, step time: 1.0083
Batch 189/248, train_loss: 0.6334, step time: 1.0051
Batch 190/248, train_loss: 0.1251, step time: 1.0029
Batch 191/248, train_loss: 0.5942, step time: 1.0077
Batch 192/248, train_loss: 0.2844, step time: 1.0112
Batch 193/248, train_loss: 0.2816, step time: 1.0085
Batch 194/248, train_loss: 0.0774, step time: 1.0023
Batch 195/248, train_loss: 0.6434, step time: 1.0064
Batch 196/248, train_loss: 0.9990, step time: 0.9986
Batch 197/248, train_loss: 0.1867, step time: 1.0037
Batch 198/248, train_loss: 0.5760, step time: 1.0081
Batch 199/248, train_loss: 0.1430, step time: 1.0013
Batch 200/248, train_loss: 0.1358, step time: 1.0047
Batch 201/248, train_loss: 0.1274, step time: 1.0050
Batch 202/248, train_loss: 0.3397, step time: 1.0044
Batch 203/248, train_loss: 0.5062, step time: 1.0060
Batch 204/248, train_loss: 0.0734, step time: 0.9989
Batch 205/248, train_loss: 0.2319, step time: 1.0062
Batch 206/248, train_loss: 0.4347, step time: 1.0042
Batch 207/248, train_loss: 0.0790, step time: 1.0020
Batch 208/248, train_loss: 0.1605, step time: 1.0041
Batch 209/248, train_loss: 0.1458, step time: 1.0001
Batch 210/248, train_loss: 0.0599, step time: 1.0015

```
Batch 211/248, train_loss: 0.0579, step time: 0.9996
Batch 212/248, train_loss: 0.2873, step time: 1.0096
Batch 213/248, train_loss: 0.1379, step time: 1.0009
Batch 214/248, train_loss: 0.0719, step time: 1.0014
Batch 215/248, train_loss: 0.1822, step time: 1.0028
Batch 216/248, train_loss: 0.1687, step time: 1.0066
Batch 217/248, train_loss: 0.2838, step time: 1.0034
Batch 218/248, train_loss: 0.8158, step time: 1.0098
Batch 219/248, train_loss: 0.0586, step time: 1.0069
Batch 220/248, train_loss: 0.2084, step time: 1.0046
Batch 221/248, train_loss: 0.2363, step time: 1.0065
Batch 222/248, train_loss: 0.1860, step time: 1.0042
Batch 223/248, train_loss: 0.0417, step time: 1.0007
Batch 224/248, train_loss: 0.0745, step time: 1.0039
Batch 225/248, train_loss: 0.2011, step time: 1.0085
Batch 226/248, train_loss: 0.1814, step time: 1.0059
Batch 227/248, train_loss: 0.0950, step time: 1.0028
Batch 228/248, train_loss: 0.1402, step time: 1.0046
Batch 229/248, train_loss: 0.0983, step time: 1.0011
Batch 230/248, train_loss: 0.0736, step time: 1.0009
Batch 231/248, train_loss: 0.3233, step time: 1.0090
Batch 232/248, train_loss: 0.0724, step time: 1.0056
Batch 233/248, train_loss: 0.7840, step time: 1.0037
Batch 234/248, train_loss: 0.5038, step time: 1.0086
Batch 235/248, train_loss: 0.4242, step time: 1.0101
Batch 236/248, train_loss: 0.8117, step time: 1.0029
Batch 237/248, train_loss: 0.1084, step time: 1.0091
Batch 238/248, train_loss: 0.1051, step time: 1.0004
Batch 239/248, train_loss: 0.0645, step time: 1.0023
Batch 240/248, train_loss: 0.3125, step time: 1.0041
Batch 241/248, train_loss: 0.5191, step time: 1.0027
Batch 242/248, train_loss: 0.1476, step time: 1.0052
Batch 243/248, train_loss: 0.5484, step time: 1.0059
Batch 244/248, train_loss: 0.4807, step time: 1.0052
Batch 245/248, train_loss: 0.0582, step time: 0.9989
Batch 246/248, train_loss: 0.5485, step time: 1.0093
Batch 247/248, train_loss: 0.0699, step time: 1.0010
Batch 248/248, train_loss: 0.9993, step time: 1.0013
```

Labels

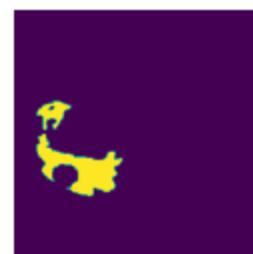
TC



WT



ET



Predictions



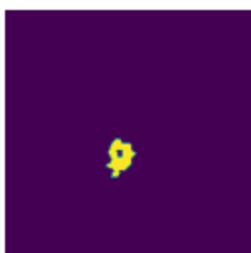


VAL

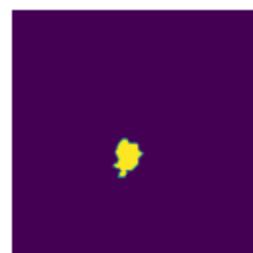
```
Batch 1/31, val_loss: 0.9157
Batch 2/31, val_loss: 0.9944
Batch 3/31, val_loss: 0.9613
Batch 4/31, val_loss: 0.9416
Batch 5/31, val_loss: 0.9942
Batch 6/31, val_loss: 0.6914
Batch 7/31, val_loss: 0.8307
Batch 8/31, val_loss: 0.9698
Batch 9/31, val_loss: 0.6910
Batch 10/31, val_loss: 0.9060
Batch 11/31, val_loss: 0.8239
Batch 12/31, val_loss: 0.9757
Batch 13/31, val_loss: 0.9843
Batch 14/31, val_loss: 0.9427
Batch 15/31, val_loss: 0.9958
Batch 16/31, val_loss: 0.9732
Batch 17/31, val_loss: 0.9756
Batch 18/31, val_loss: 0.9331
Batch 19/31, val_loss: 0.7386
Batch 20/31, val_loss: 0.8674
Batch 21/31, val_loss: 0.8696
Batch 22/31, val_loss: 0.9738
Batch 23/31, val_loss: 0.9822
Batch 24/31, val_loss: 0.7443
Batch 25/31, val_loss: 0.7987
Batch 26/31, val_loss: 0.9171
Batch 27/31, val_loss: 0.9756
Batch 28/31, val_loss: 0.7476
Batch 29/31, val_loss: 0.9846
Batch 30/31, val_loss: 0.9587
Batch 31/31, val_loss: 0.9865
```

Labels

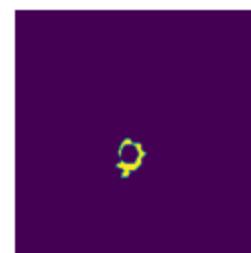
TC



WT



ET



Predictions



epoch 52
average train loss: 0.2928
average validation loss: 0.9047
saved as best model: False
current mean dice: 0.4904
current TC dice: 0.5114
current WT dice: 0.5199
current ET dice: 0.4827
Best Mean Metric: 0.5060
time consuming of epoch 52 is: 1556.2413

epoch 53/100

TRAIN

Batch 1/248, train_loss: 0.0857, step time: 1.0076
Batch 2/248, train_loss: 0.6840, step time: 1.0051
Batch 3/248, train_loss: 0.3573, step time: 1.0061
Batch 4/248, train_loss: 0.9248, step time: 1.0022
Batch 5/248, train_loss: 0.1998, step time: 1.0058
Batch 6/248, train_loss: 0.5264, step time: 1.0032
Batch 7/248, train_loss: 0.0649, step time: 1.0018
Batch 8/248, train_loss: 0.6967, step time: 1.0033
Batch 9/248, train_loss: 0.0405, step time: 1.0033
Batch 10/248, train_loss: 0.2248, step time: 1.0025
Batch 11/248, train_loss: 0.2063, step time: 1.0026
Batch 12/248, train_loss: 0.5620, step time: 1.0110
Batch 13/248, train_loss: 0.3720, step time: 1.0063
Batch 14/248, train_loss: 0.0552, step time: 0.9991
Batch 15/248, train_loss: 0.3203, step time: 1.0029
Batch 16/248, train_loss: 0.1467, step time: 1.0030
Batch 17/248, train_loss: 0.2882, step time: 1.0022
Batch 18/248, train_loss: 0.4129, step time: 1.0107
Batch 19/248, train_loss: 0.1483, step time: 1.0055
Batch 20/248, train_loss: 0.1400, step time: 1.0025
Batch 21/248, train_loss: 0.0654, step time: 1.0010
Batch 22/248, train_loss: 0.7907, step time: 1.0081
Batch 23/248, train_loss: 0.9960, step time: 1.0042
Batch 24/248, train_loss: 0.0814, step time: 1.0043
Batch 25/248, train_loss: 0.0580, step time: 1.0010
Batch 26/248, train_loss: 0.4012, step time: 1.0052
Batch 27/248, train_loss: 0.0678, step time: 1.0004
Batch 28/248, train_loss: 0.1511, step time: 1.0044
Batch 29/248, train_loss: 0.3950, step time: 1.0078
Batch 30/248, train_loss: 0.5799, step time: 1.0051
Batch 31/248, train_loss: 0.2571, step time: 1.0022
Batch 32/248, train_loss: 0.0728, step time: 1.0027
Batch 33/248, train_loss: 0.0647, step time: 1.0059
Batch 34/248, train_loss: 0.0436, step time: 1.0027
Batch 35/248, train_loss: 0.0435, step time: 1.0068
Batch 36/248, train_loss: 0.4552, step time: 1.0041
Batch 37/248, train_loss: 0.1568, step time: 1.0043
Batch 38/248, train_loss: 0.2770, step time: 1.0054
Batch 39/248, train_loss: 0.1950, step time: 1.0050
Batch 40/248, train_loss: 0.6573, step time: 1.0040

Batch 41/248, train_loss: 0.4446, step time: 1.0036
Batch 42/248, train_loss: 0.0708, step time: 1.0028
Batch 43/248, train_loss: 0.0530, step time: 1.0049
Batch 44/248, train_loss: 0.4775, step time: 1.0077
Batch 45/248, train_loss: 0.4424, step time: 1.0074
Batch 46/248, train_loss: 0.1749, step time: 1.0079
Batch 47/248, train_loss: 0.1215, step time: 1.0060
Batch 48/248, train_loss: 0.2325, step time: 1.0054
Batch 49/248, train_loss: 0.4847, step time: 1.0015
Batch 50/248, train_loss: 0.1433, step time: 1.0006
Batch 51/248, train_loss: 0.1531, step time: 1.0044
Batch 52/248, train_loss: 0.1035, step time: 1.0062
Batch 53/248, train_loss: 0.3888, step time: 1.0076
Batch 54/248, train_loss: 0.2334, step time: 1.0040
Batch 55/248, train_loss: 0.3677, step time: 1.0074
Batch 56/248, train_loss: 0.2191, step time: 1.0003
Batch 57/248, train_loss: 0.3536, step time: 1.0042
Batch 58/248, train_loss: 0.0854, step time: 1.0060
Batch 59/248, train_loss: 0.0846, step time: 1.0041
Batch 60/248, train_loss: 0.0579, step time: 1.0010
Batch 61/248, train_loss: 0.1024, step time: 1.0058
Batch 62/248, train_loss: 0.1979, step time: 1.0039
Batch 63/248, train_loss: 0.6370, step time: 1.0047
Batch 64/248, train_loss: 0.3827, step time: 1.0023
Batch 65/248, train_loss: 0.2552, step time: 1.0017
Batch 66/248, train_loss: 0.1321, step time: 1.0056
Batch 67/248, train_loss: 0.0659, step time: 1.0126
Batch 68/248, train_loss: 0.1644, step time: 1.0047
Batch 69/248, train_loss: 0.3854, step time: 1.0113
Batch 70/248, train_loss: 0.1473, step time: 1.0025
Batch 71/248, train_loss: 0.1312, step time: 0.9998
Batch 72/248, train_loss: 0.0581, step time: 1.0017
Batch 73/248, train_loss: 0.1968, step time: 1.0035
Batch 74/248, train_loss: 0.9985, step time: 0.9999
Batch 75/248, train_loss: 0.1366, step time: 0.9998
Batch 76/248, train_loss: 0.5500, step time: 1.0067
Batch 77/248, train_loss: 0.8011, step time: 1.0096
Batch 78/248, train_loss: 0.1109, step time: 1.0023
Batch 79/248, train_loss: 0.1503, step time: 1.0019
Batch 80/248, train_loss: 0.2036, step time: 1.0020
Batch 81/248, train_loss: 0.1581, step time: 1.0073
Batch 82/248, train_loss: 0.0838, step time: 1.0045
Batch 83/248, train_loss: 0.5150, step time: 1.0059
Batch 84/248, train_loss: 0.2229, step time: 1.0014
Batch 85/248, train_loss: 0.3335, step time: 1.0043
Batch 86/248, train_loss: 0.2289, step time: 1.0032
Batch 87/248, train_loss: 0.4768, step time: 1.0049
Batch 88/248, train_loss: 0.3565, step time: 1.0039
Batch 89/248, train_loss: 0.0889, step time: 1.0036
Batch 90/248, train_loss: 0.3331, step time: 1.0023
Batch 91/248, train_loss: 0.3794, step time: 1.0167
Batch 92/248, train_loss: 0.2861, step time: 1.0069
Batch 93/248, train_loss: 0.1491, step time: 1.0022
Batch 94/248, train_loss: 0.3387, step time: 1.0043
Batch 95/248, train_loss: 0.1695, step time: 1.0036
Batch 96/248, train_loss: 0.1448, step time: 1.0060
Batch 97/248, train_loss: 0.4949, step time: 1.0057

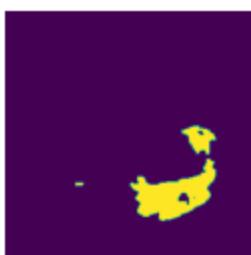
Batch 98/248, train_loss: 0.1069, step time: 1.0022
Batch 99/248, train_loss: 0.3183, step time: 1.0025
Batch 100/248, train_loss: 0.2894, step time: 1.0072
Batch 101/248, train_loss: 0.0533, step time: 1.0092
Batch 102/248, train_loss: 0.1140, step time: 1.0024
Batch 103/248, train_loss: 0.4960, step time: 1.0041
Batch 104/248, train_loss: 0.3608, step time: 1.0050
Batch 105/248, train_loss: 0.0766, step time: 1.0023
Batch 106/248, train_loss: 0.1383, step time: 1.0007
Batch 107/248, train_loss: 0.2335, step time: 1.0025
Batch 108/248, train_loss: 0.3975, step time: 1.0063
Batch 109/248, train_loss: 0.9931, step time: 0.9986
Batch 110/248, train_loss: 0.2249, step time: 1.0051
Batch 111/248, train_loss: 0.1092, step time: 1.0031
Batch 112/248, train_loss: 0.0898, step time: 1.0041
Batch 113/248, train_loss: 0.9626, step time: 1.0008
Batch 114/248, train_loss: 0.1387, step time: 1.0027
Batch 115/248, train_loss: 0.1480, step time: 1.0047
Batch 116/248, train_loss: 0.0826, step time: 1.0009
Batch 117/248, train_loss: 0.6231, step time: 1.0092
Batch 118/248, train_loss: 0.7090, step time: 1.0071
Batch 119/248, train_loss: 0.3163, step time: 1.0077
Batch 120/248, train_loss: 0.2191, step time: 1.0078
Batch 121/248, train_loss: 0.2514, step time: 1.0011
Batch 122/248, train_loss: 0.4024, step time: 1.0104
Batch 123/248, train_loss: 0.0919, step time: 1.0064
Batch 124/248, train_loss: 0.4223, step time: 1.0036
Batch 125/248, train_loss: 0.6327, step time: 1.0115
Batch 126/248, train_loss: 0.2322, step time: 1.0068
Batch 127/248, train_loss: 0.1116, step time: 1.0049
Batch 128/248, train_loss: 0.2497, step time: 1.0085
Batch 129/248, train_loss: 0.1149, step time: 0.9994
Batch 130/248, train_loss: 0.0873, step time: 1.0053
Batch 131/248, train_loss: 0.4535, step time: 1.0052
Batch 132/248, train_loss: 0.3923, step time: 1.0079
Batch 133/248, train_loss: 0.1247, step time: 1.0016
Batch 134/248, train_loss: 0.9257, step time: 1.0037
Batch 135/248, train_loss: 0.3115, step time: 1.0103
Batch 136/248, train_loss: 0.1106, step time: 1.0060
Batch 137/248, train_loss: 0.1166, step time: 1.0042
Batch 138/248, train_loss: 0.0709, step time: 1.0032
Batch 139/248, train_loss: 0.1985, step time: 1.0030
Batch 140/248, train_loss: 0.1877, step time: 1.0057
Batch 141/248, train_loss: 0.2058, step time: 1.0017
Batch 142/248, train_loss: 0.5721, step time: 1.0085
Batch 143/248, train_loss: 0.2540, step time: 0.9998
Batch 144/248, train_loss: 0.1178, step time: 1.0036
Batch 145/248, train_loss: 0.0691, step time: 1.0062
Batch 146/248, train_loss: 0.7846, step time: 1.0075
Batch 147/248, train_loss: 0.0470, step time: 1.0065
Batch 148/248, train_loss: 0.7318, step time: 1.0046
Batch 149/248, train_loss: 0.1361, step time: 1.0015
Batch 150/248, train_loss: 0.6828, step time: 1.0032
Batch 151/248, train_loss: 0.3442, step time: 1.0049
Batch 152/248, train_loss: 0.0433, step time: 1.0018
Batch 153/248, train_loss: 0.2531, step time: 1.0017

Batch 154/248, train_loss: 0.6591, step time: 1.0050
Batch 155/248, train_loss: 0.1168, step time: 1.0060
Batch 156/248, train_loss: 0.2520, step time: 1.0061
Batch 157/248, train_loss: 0.2638, step time: 1.0067
Batch 158/248, train_loss: 0.9791, step time: 1.0030
Batch 159/248, train_loss: 0.3859, step time: 1.0069
Batch 160/248, train_loss: 0.0855, step time: 1.0051
Batch 161/248, train_loss: 0.0925, step time: 0.9995
Batch 162/248, train_loss: 0.0878, step time: 1.0068
Batch 163/248, train_loss: 0.1508, step time: 1.0077
Batch 164/248, train_loss: 0.1837, step time: 1.0060
Batch 165/248, train_loss: 0.5313, step time: 1.0079
Batch 166/248, train_loss: 0.1091, step time: 1.0072
Batch 167/248, train_loss: 0.1716, step time: 1.0004
Batch 168/248, train_loss: 0.1430, step time: 1.0028
Batch 169/248, train_loss: 0.0979, step time: 1.0048
Batch 170/248, train_loss: 0.7458, step time: 1.0126
Batch 171/248, train_loss: 0.0862, step time: 0.9992
Batch 172/248, train_loss: 0.6073, step time: 1.0060
Batch 173/248, train_loss: 0.0901, step time: 1.0070
Batch 174/248, train_loss: 0.5983, step time: 1.0075
Batch 175/248, train_loss: 0.1562, step time: 1.0066
Batch 176/248, train_loss: 0.3249, step time: 1.0011
Batch 177/248, train_loss: 0.2753, step time: 1.0070
Batch 178/248, train_loss: 0.3366, step time: 1.0035
Batch 179/248, train_loss: 0.0879, step time: 1.0036
Batch 180/248, train_loss: 0.3320, step time: 1.0047
Batch 181/248, train_loss: 0.1060, step time: 1.0033
Batch 182/248, train_loss: 0.9191, step time: 1.0035
Batch 183/248, train_loss: 0.1078, step time: 1.0070
Batch 184/248, train_loss: 0.5107, step time: 1.0077
Batch 185/248, train_loss: 0.1092, step time: 1.0053
Batch 186/248, train_loss: 0.1172, step time: 1.0084
Batch 187/248, train_loss: 0.1659, step time: 1.0023
Batch 188/248, train_loss: 0.2479, step time: 1.0079
Batch 189/248, train_loss: 0.5523, step time: 1.0067
Batch 190/248, train_loss: 0.1370, step time: 1.0045
Batch 191/248, train_loss: 0.5993, step time: 1.0071
Batch 192/248, train_loss: 0.3109, step time: 1.0065
Batch 193/248, train_loss: 0.2786, step time: 1.0165
Batch 194/248, train_loss: 0.0786, step time: 1.0076
Batch 195/248, train_loss: 0.7044, step time: 1.0082
Batch 196/248, train_loss: 0.9997, step time: 0.9964
Batch 197/248, train_loss: 0.1768, step time: 1.0039
Batch 198/248, train_loss: 0.5725, step time: 1.0052
Batch 199/248, train_loss: 0.1302, step time: 1.0054
Batch 200/248, train_loss: 0.1236, step time: 1.0029
Batch 201/248, train_loss: 0.1287, step time: 0.9996
Batch 202/248, train_loss: 0.3501, step time: 1.0051
Batch 203/248, train_loss: 0.5576, step time: 1.0004
Batch 204/248, train_loss: 0.0766, step time: 1.0003
Batch 205/248, train_loss: 0.2241, step time: 1.0048
Batch 206/248, train_loss: 0.4646, step time: 1.0017
Batch 207/248, train_loss: 0.0881, step time: 1.0024
Batch 208/248, train_loss: 0.1589, step time: 1.0039
Batch 209/248, train_loss: 0.1413, step time: 1.0071
Batch 210/248. train loss: 0.0544. step time: 1.0004

```
Batch 211/248, train_loss: 0.0586, step time: 0.9981
Batch 212/248, train_loss: 0.1786, step time: 1.0045
Batch 213/248, train_loss: 0.1675, step time: 1.0074
Batch 214/248, train_loss: 0.0663, step time: 0.9993
Batch 215/248, train_loss: 0.1742, step time: 1.0017
Batch 216/248, train_loss: 0.1197, step time: 1.0025
Batch 217/248, train_loss: 0.2480, step time: 1.0046
Batch 218/248, train_loss: 0.7974, step time: 1.0093
Batch 219/248, train_loss: 0.0546, step time: 1.0041
Batch 220/248, train_loss: 0.2104, step time: 1.0033
Batch 221/248, train_loss: 0.2264, step time: 1.0079
Batch 222/248, train_loss: 0.1916, step time: 1.0036
Batch 223/248, train_loss: 0.0405, step time: 1.0051
Batch 224/248, train_loss: 0.0769, step time: 1.0051
Batch 225/248, train_loss: 0.1763, step time: 1.0043
Batch 226/248, train_loss: 0.1598, step time: 1.0076
Batch 227/248, train_loss: 0.0865, step time: 1.0024
Batch 228/248, train_loss: 0.1417, step time: 1.0021
Batch 229/248, train_loss: 0.1076, step time: 1.0049
Batch 230/248, train_loss: 0.0621, step time: 1.0023
Batch 231/248, train_loss: 0.3357, step time: 1.0089
Batch 232/248, train_loss: 0.0758, step time: 1.0023
Batch 233/248, train_loss: 0.7966, step time: 1.0026
Batch 234/248, train_loss: 0.4633, step time: 1.0051
Batch 235/248, train_loss: 0.3505, step time: 1.0067
Batch 236/248, train_loss: 0.7864, step time: 1.0035
Batch 237/248, train_loss: 0.1092, step time: 1.0048
Batch 238/248, train_loss: 0.0941, step time: 1.0037
Batch 239/248, train_loss: 0.0753, step time: 1.0025
Batch 240/248, train_loss: 0.2869, step time: 1.0041
Batch 241/248, train_loss: 0.5029, step time: 1.0090
Batch 242/248, train_loss: 0.2322, step time: 1.0096
Batch 243/248, train_loss: 0.6199, step time: 1.0059
Batch 244/248, train_loss: 0.7327, step time: 1.0065
Batch 245/248, train_loss: 0.0599, step time: 1.0017
Batch 246/248, train_loss: 0.5104, step time: 1.0056
Batch 247/248, train_loss: 0.0768, step time: 1.0039
Batch 248/248, train_loss: 0.9995, step time: 1.0001
```

Labels

TC



WT



ET



Predictions





VAL

Batch 1/31, val_loss: 0.9156
Batch 2/31, val_loss: 0.9950
Batch 3/31, val_loss: 0.9621
Batch 4/31, val_loss: 0.9420
Batch 5/31, val_loss: 0.9957
Batch 6/31, val_loss: 0.6944
Batch 7/31, val_loss: 0.8279
Batch 8/31, val_loss: 0.9672
Batch 9/31, val_loss: 0.6906
Batch 10/31, val_loss: 0.9018
Batch 11/31, val_loss: 0.8232
Batch 12/31, val_loss: 0.9764
Batch 13/31, val_loss: 0.9851
Batch 14/31, val_loss: 0.9478
Batch 15/31, val_loss: 0.9976
Batch 16/31, val_loss: 0.9734
Batch 17/31, val_loss: 0.9767
Batch 18/31, val_loss: 0.9360
Batch 19/31, val_loss: 0.7408
Batch 20/31, val_loss: 0.8785
Batch 21/31, val_loss: 0.8724
Batch 22/31, val_loss: 0.9768
Batch 23/31, val_loss: 0.9800
Batch 24/31, val_loss: 0.7481
Batch 25/31, val_loss: 0.7974
Batch 26/31, val_loss: 0.9167
Batch 27/31, val_loss: 0.9762
Batch 28/31, val_loss: 0.7439
Batch 29/31, val_loss: 0.9821
Batch 30/31, val_loss: 0.9567
Batch 31/31, val_loss: 0.9794

Labels

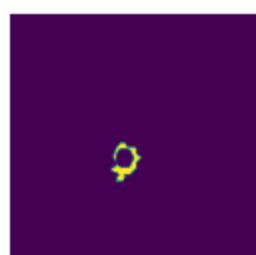
TC



WT



ET



Predictions





epoch 53

```
average train loss: 0.2905
average validation loss: 0.9051
saved as best model: False
current mean dice: 0.4906
current TC dice: 0.5099
current WT dice: 0.5153
current ET dice: 0.4911
Best Mean Metric: 0.5060
time consuming of epoch 53 is: 1553.7497
```

epoch 54/100

TRAIN

```
Batch 1/248, train_loss: 0.0747, step time: 1.0065
Batch 2/248, train_loss: 0.6828, step time: 1.0090
Batch 3/248, train_loss: 0.3130, step time: 1.0096
Batch 4/248, train_loss: 0.9304, step time: 1.0054
Batch 5/248, train_loss: 0.2150, step time: 1.0091
Batch 6/248, train_loss: 0.5785, step time: 1.0085
Batch 7/248, train_loss: 0.0604, step time: 1.0001
Batch 8/248, train_loss: 0.7176, step time: 1.0026
Batch 9/248, train_loss: 0.0451, step time: 1.0020
Batch 10/248, train_loss: 0.2274, step time: 1.0017
Batch 11/248, train_loss: 0.1767, step time: 1.0032
Batch 12/248, train_loss: 0.4350, step time: 1.0046
Batch 13/248, train_loss: 0.3370, step time: 1.0082
Batch 14/248, train_loss: 0.0566, step time: 1.0056
Batch 15/248, train_loss: 0.3139, step time: 1.0051
Batch 16/248, train_loss: 0.1357, step time: 1.0032
Batch 17/248, train_loss: 0.2979, step time: 1.0067
Batch 18/248, train_loss: 0.4555, step time: 1.0094
Batch 19/248, train_loss: 0.1100, step time: 1.0036
Batch 20/248, train_loss: 0.1889, step time: 1.0022
Batch 21/248, train_loss: 0.0618, step time: 0.9996
Batch 22/248, train_loss: 0.9743, step time: 1.0066
Batch 23/248, train_loss: 0.9976, step time: 1.0024
Batch 24/248, train_loss: 0.0739, step time: 1.0024
Batch 25/248, train_loss: 0.0571, step time: 1.0060
Batch 26/248, train_loss: 0.3654, step time: 1.0051
Batch 27/248, train_loss: 0.0670, step time: 1.0032
Batch 28/248, train_loss: 0.1423, step time: 1.0035
Batch 29/248, train_loss: 0.4022, step time: 1.0045
Batch 30/248, train_loss: 0.2119, step time: 1.0052
Batch 31/248, train_loss: 0.2825, step time: 1.0081
Batch 32/248, train_loss: 0.0774, step time: 1.0008
Batch 33/248, train_loss: 0.0678, step time: 1.0006
Batch 34/248, train_loss: 0.0430, step time: 0.9990
Batch 35/248, train_loss: 0.0412, step time: 1.0047
Batch 36/248, train_loss: 0.4482, step time: 1.0061
Batch 37/248, train_loss: 0.1508, step time: 1.0047
Batch 38/248, train_loss: 0.2843, step time: 1.0056
Batch 39/248, train_loss: 0.1865, step time: 1.0020
Batch 40/248, train_loss: 0.6077, step time: 1.0065
```

Batch 41/248, train_loss: 0.3278, step time: 1.0079
Batch 42/248, train_loss: 0.0636, step time: 0.9996
Batch 43/248, train_loss: 0.0533, step time: 1.0035
Batch 44/248, train_loss: 0.3113, step time: 1.0017
Batch 45/248, train_loss: 0.3945, step time: 1.0060
Batch 46/248, train_loss: 0.1683, step time: 1.0043
Batch 47/248, train_loss: 0.0665, step time: 1.0014
Batch 48/248, train_loss: 0.3379, step time: 1.0080
Batch 49/248, train_loss: 0.5452, step time: 1.0090
Batch 50/248, train_loss: 0.1324, step time: 1.0045
Batch 51/248, train_loss: 0.1871, step time: 1.0043
Batch 52/248, train_loss: 0.0979, step time: 1.0071
Batch 53/248, train_loss: 0.4311, step time: 1.0024
Batch 54/248, train_loss: 0.2228, step time: 1.0036
Batch 55/248, train_loss: 0.2368, step time: 1.0086
Batch 56/248, train_loss: 0.1976, step time: 1.0033
Batch 57/248, train_loss: 0.2674, step time: 1.0073
Batch 58/248, train_loss: 0.0875, step time: 1.0034
Batch 59/248, train_loss: 0.0897, step time: 1.0068
Batch 60/248, train_loss: 0.0503, step time: 0.9999
Batch 61/248, train_loss: 0.0994, step time: 1.0017
Batch 62/248, train_loss: 0.1984, step time: 1.0045
Batch 63/248, train_loss: 0.5898, step time: 1.0102
Batch 64/248, train_loss: 0.3790, step time: 1.0126
Batch 65/248, train_loss: 0.2495, step time: 1.0116
Batch 66/248, train_loss: 0.1212, step time: 1.0107
Batch 67/248, train_loss: 0.0687, step time: 1.0045
Batch 68/248, train_loss: 0.1254, step time: 1.0075
Batch 69/248, train_loss: 0.4011, step time: 1.0200
Batch 70/248, train_loss: 0.1418, step time: 1.0113
Batch 71/248, train_loss: 0.1401, step time: 1.0087
Batch 72/248, train_loss: 0.0596, step time: 1.0083
Batch 73/248, train_loss: 0.1973, step time: 1.0142
Batch 74/248, train_loss: 0.9982, step time: 1.0101
Batch 75/248, train_loss: 0.1275, step time: 1.0119
Batch 76/248, train_loss: 0.5451, step time: 1.0161
Batch 77/248, train_loss: 0.8656, step time: 1.0141
Batch 78/248, train_loss: 0.1076, step time: 1.0152
Batch 79/248, train_loss: 0.1454, step time: 1.0136
Batch 80/248, train_loss: 0.1888, step time: 1.0142
Batch 81/248, train_loss: 0.1449, step time: 1.0144
Batch 82/248, train_loss: 0.0797, step time: 1.0134
Batch 83/248, train_loss: 0.5125, step time: 1.0165
Batch 84/248, train_loss: 0.2756, step time: 1.0203
Batch 85/248, train_loss: 0.3648, step time: 1.0228
Batch 86/248, train_loss: 0.2654, step time: 1.0198
Batch 87/248, train_loss: 0.4686, step time: 1.0203
Batch 88/248, train_loss: 0.3664, step time: 1.0176
Batch 89/248, train_loss: 0.0915, step time: 1.0197
Batch 90/248, train_loss: 0.4007, step time: 1.0172
Batch 91/248, train_loss: 0.3773, step time: 1.0235
Batch 92/248, train_loss: 0.3053, step time: 1.0219
Batch 93/248, train_loss: 0.1462, step time: 1.0191
Batch 94/248, train_loss: 0.4533, step time: 1.0207
Batch 95/248, train_loss: 0.1664, step time: 1.0126
Batch 96/248, train_loss: 0.1519, step time: 1.0175
Batch 97/248, train_loss: 0.1562, step time: 1.0170

Batch 97/248, train_loss: 0.4502, step time: 1.0170
Batch 98/248, train_loss: 0.1048, step time: 1.0108
Batch 99/248, train_loss: 0.3006, step time: 1.0141
Batch 100/248, train_loss: 0.2998, step time: 1.0150
Batch 101/248, train_loss: 0.0539, step time: 1.0104
Batch 102/248, train_loss: 0.1314, step time: 1.0131
Batch 103/248, train_loss: 0.4013, step time: 1.0130
Batch 104/248, train_loss: 0.3585, step time: 1.0142
Batch 105/248, train_loss: 0.0763, step time: 1.0123
Batch 106/248, train_loss: 0.1174, step time: 1.0127
Batch 107/248, train_loss: 0.2743, step time: 1.0163
Batch 108/248, train_loss: 0.5386, step time: 1.0182
Batch 109/248, train_loss: 0.8840, step time: 1.0143
Batch 110/248, train_loss: 0.2154, step time: 1.0171
Batch 111/248, train_loss: 0.0849, step time: 1.0159
Batch 112/248, train_loss: 0.1087, step time: 1.0154
Batch 113/248, train_loss: 0.8439, step time: 1.0165
Batch 114/248, train_loss: 0.1417, step time: 1.0153
Batch 115/248, train_loss: 0.1392, step time: 1.0196
Batch 116/248, train_loss: 0.0814, step time: 1.0182
Batch 117/248, train_loss: 0.6583, step time: 1.0189
Batch 118/248, train_loss: 0.5183, step time: 1.0201
Batch 119/248, train_loss: 0.3135, step time: 1.0176
Batch 120/248, train_loss: 0.2181, step time: 1.0197
Batch 121/248, train_loss: 0.2700, step time: 1.0222
Batch 122/248, train_loss: 0.3936, step time: 1.0217
Batch 123/248, train_loss: 0.0977, step time: 1.0225
Batch 124/248, train_loss: 0.5706, step time: 1.0245
Batch 125/248, train_loss: 0.5651, step time: 1.0250
Batch 126/248, train_loss: 0.2758, step time: 1.0249
Batch 127/248, train_loss: 0.1266, step time: 1.0265
Batch 128/248, train_loss: 0.4070, step time: 1.0289
Batch 129/248, train_loss: 0.1003, step time: 1.0246
Batch 130/248, train_loss: 0.0909, step time: 1.0235
Batch 131/248, train_loss: 0.6492, step time: 1.0266
Batch 132/248, train_loss: 0.3368, step time: 1.0275
Batch 133/248, train_loss: 0.0996, step time: 1.0269
Batch 134/248, train_loss: 0.8539, step time: 1.0283
Batch 135/248, train_loss: 0.2863, step time: 1.0278
Batch 136/248, train_loss: 0.1069, step time: 1.0272
Batch 137/248, train_loss: 0.1100, step time: 1.0287
Batch 138/248, train_loss: 0.0639, step time: 1.0236
Batch 139/248, train_loss: 0.1679, step time: 1.0248
Batch 140/248, train_loss: 0.1587, step time: 1.0283
Batch 141/248, train_loss: 0.2010, step time: 1.0267
Batch 142/248, train_loss: 0.4574, step time: 1.0292
Batch 143/248, train_loss: 0.2564, step time: 1.0265
Batch 144/248, train_loss: 0.1193, step time: 1.0243
Batch 145/248, train_loss: 0.0661, step time: 1.0256
Batch 146/248, train_loss: 0.6911, step time: 1.0275
Batch 147/248, train_loss: 0.0423, step time: 1.0246
Batch 148/248, train_loss: 0.7327, step time: 1.0303
Batch 149/248, train_loss: 0.1048, step time: 1.0303
Batch 150/248, train_loss: 0.6651, step time: 1.0287
Batch 151/248, train_loss: 0.3018, step time: 1.0310
Batch 152/248, train_loss: 0.0402, step time: 1.0212
Batch 153/248, train_loss: 0.4010, step time: 1.0277

Batch 154/248, train_loss: 0.6828, step time: 1.0322
Batch 155/248, train_loss: 0.1350, step time: 1.0308
Batch 156/248, train_loss: 0.2766, step time: 1.0282
Batch 157/248, train_loss: 0.2224, step time: 1.0278
Batch 158/248, train_loss: 0.9848, step time: 1.0272
Batch 159/248, train_loss: 0.3831, step time: 1.0310
Batch 160/248, train_loss: 0.0925, step time: 1.0280
Batch 161/248, train_loss: 0.1113, step time: 1.0299
Batch 162/248, train_loss: 0.1016, step time: 1.0261
Batch 163/248, train_loss: 0.1607, step time: 1.0296
Batch 164/248, train_loss: 0.1983, step time: 1.0298
Batch 165/248, train_loss: 0.7265, step time: 1.0275
Batch 166/248, train_loss: 0.0915, step time: 1.0296
Batch 167/248, train_loss: 0.1663, step time: 1.0302
Batch 168/248, train_loss: 0.1459, step time: 1.0267
Batch 169/248, train_loss: 0.0841, step time: 1.0248
Batch 170/248, train_loss: 0.6865, step time: 1.0280
Batch 171/248, train_loss: 0.0894, step time: 1.0259
Batch 172/248, train_loss: 0.4283, step time: 1.0329
Batch 173/248, train_loss: 0.0894, step time: 1.0265
Batch 174/248, train_loss: 0.9369, step time: 1.0292
Batch 175/248, train_loss: 0.1621, step time: 1.0302
Batch 176/248, train_loss: 0.3710, step time: 1.0301
Batch 177/248, train_loss: 0.2536, step time: 1.0352
Batch 178/248, train_loss: 0.3369, step time: 1.0290
Batch 179/248, train_loss: 0.0968, step time: 1.0286
Batch 180/248, train_loss: 0.3256, step time: 1.0282
Batch 181/248, train_loss: 0.1240, step time: 1.0379
Batch 182/248, train_loss: 0.9549, step time: 1.0280
Batch 183/248, train_loss: 0.1558, step time: 1.0256
Batch 184/248, train_loss: 0.4660, step time: 1.0275
Batch 185/248, train_loss: 0.0874, step time: 1.0288
Batch 186/248, train_loss: 0.0888, step time: 1.0279
Batch 187/248, train_loss: 0.1529, step time: 1.0258
Batch 188/248, train_loss: 0.3637, step time: 1.0289
Batch 189/248, train_loss: 0.4923, step time: 1.0333
Batch 190/248, train_loss: 0.1190, step time: 1.0283
Batch 191/248, train_loss: 0.6018, step time: 1.0311
Batch 192/248, train_loss: 0.2609, step time: 1.0311
Batch 193/248, train_loss: 0.2689, step time: 1.0290
Batch 194/248, train_loss: 0.0825, step time: 1.0275
Batch 195/248, train_loss: 0.6858, step time: 1.0289
Batch 196/248, train_loss: 0.9997, step time: 1.0227
Batch 197/248, train_loss: 0.1844, step time: 1.0296
Batch 198/248, train_loss: 0.5781, step time: 1.0352
Batch 199/248, train_loss: 0.1606, step time: 1.0329
Batch 200/248, train_loss: 0.1463, step time: 1.0313
Batch 201/248, train_loss: 0.1286, step time: 1.0264
Batch 202/248, train_loss: 0.3377, step time: 1.0300

