

## ✓ 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 9.6 MB/s eta 0:00:00  
Requirement already satisfied: torch>=1.9 in /usr/local/lib/python3.10/dist-packages (from monai[einops]) (2.3.0+cu121)  
Requirement already satisfied: numpy>=1.20 in /usr/local/lib/python3.10/dist-packages (from monai[einops]) (1.25.2)  
Collecting einops (from monai[einops])  
  Downloading einops-0.8.0-py3-none-any.whl (43 kB)  
                        43.2/43.2 kB 4.8 MB/s eta 0:00:00  
Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (3.14.0)  
Requirement already satisfied: typing-extensions>=4.8.0 in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (4.1)  
Requirement already satisfied: sympy in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (1.12)  
Requirement already satisfied: networkx in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (3.3)  
Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (3.1.4)  
Requirement already satisfied: fsspec in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (2023.6.0)  
Collecting nvidia-cuda-nvrtc-cu12==12.1.105 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_cuda\_nvrtc\_cu12-12.1.105-py3-none-manylinux1\_x86\_64.whl (23.7 MB)  
Collecting nvidia-cuda-runtime-cu12==12.1.105 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_cuda\_runtime\_cu12-12.1.105-py3-none-manylinux1\_x86\_64.whl (823 kB)  
Collecting nvidia-cuda-cupti-cu12==12.1.105 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_cuda\_cupti\_cu12-12.1.105-py3-none-manylinux1\_x86\_64.whl (14.1 MB)  
Collecting nvidia-cudnn-cu12==8.9.2.26 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_cudnn\_cu12-8.9.2.26-py3-none-manylinux1\_x86\_64.whl (731.7 MB)  
Collecting nvidia-cublas-cu12==12.1.3.1 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_cublas\_cu12-12.1.3.1-py3-none-manylinux1\_x86\_64.whl (410.6 MB)  
Collecting nvidia-cufft-cu12==11.0.2.54 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_cufft\_cu12-11.0.2.54-py3-none-manylinux1\_x86\_64.whl (121.6 MB)  
Collecting nvidia-curand-cu12==10.3.2.106 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_curand\_cu12-10.3.2.106-py3-none-manylinux1\_x86\_64.whl (56.5 MB)  
Collecting nvidia-cusolver-cu12==11.4.5.107 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_cusolver\_cu12-11.4.5.107-py3-none-manylinux1\_x86\_64.whl (124.2 MB)  
Collecting nvidia-cusparse-cu12==12.1.0.106 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_cusparse\_cu12-12.1.0.106-py3-none-manylinux1\_x86\_64.whl (196.0 MB)  
Collecting nvidia-nccl-cu12==2.20.5 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_nccl\_cu12-2.20.5-py3-none-manylinux2014\_x86\_64.whl (176.2 MB)  
Collecting nvidia-nvtx-cu12==12.1.105 (from torch>=1.9->monai[einops])  
  Using cached nvidia\_nvtx\_cu12-12.1.105-py3-none-manylinux1\_x86\_64.whl (99 kB)  
Requirement already satisfied: triton==2.3.0 in /usr/local/lib/python3.10/dist-packages (from torch>=1.9->monai[einops]) (2.3.0)  
Collecting nvidia-nvjitlink-cu12 (from nvidia-cusolver-cu12==11.4.5.107->torch>=1.9->monai[einops])  
  Downloading nvidia\_nvjitlink\_cu12-12.5.40-py3-none-manylinux2014\_x86\_64.whl (21.3 MB)  
                        21.3/21.3 MB 62.8 MB/s eta 0:00:00  
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages (from jinja2->torch>=1.9->monai[einops]) (2.1)  
Requirement already satisfied: mpmpmath>=0.19 in /usr/local/lib/python3.10/dist-packages (from sympy->torch>=1.9->monai[einops]) (1.3.0)  
Installing collected packages: nvidia-nvtx-cu12, nvidia-nvjitlink-cu12, nvidia-nccl-cu12, nvidia-curand-cu12, nvidia-cufft-cu12, nvidia-cusparse-cu12, nvidia-nccl-cu12, nvidia-cuda-cupti-cu12-12.1.105 nvidia-cuda-nvrtc-cu12-12.1.

### ✓ Colab Integration

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

Mounted at /content/drive

## Imports

```
1 # System
2 import os
3 import time
4 from math import nan
5
6 # Data Load & Visualization
7 import numpy as np
8 import pandas as pd
9 import matplotlib.pyplot as plt
10
11 # Monai
12 from monai.data import DataLoader
13 from monai.losses import DiceLoss
14 from monai.metrics import DiceMetric
15 from monai.data import decollate_batch
16 from monai.utils import set_determinism
17 from monai.handlers.utils import from_engine
18 from monai.inferers import sliding_window_inference
19
20 # PyTorch
21 import torch
22 from torch.utils.data import SequentialSampler
23
24 # Utils
25 from utils.Models import 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 0x7bf7721a5fb0>

```
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 = UNETR
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 = 54 # 0 if new training
11 best_epoch = 49 # 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()

```

CSV

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

```

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

```

## Training

## Parameters

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

## Model, Loss, Optimizer & Inference

```

1 # Model
2 model.to(device)
3
4 # Load model from file
5 if 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_epoch}.pth"))
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=False, sigmoid=True)
16
17 # Optimizer
18 optimizer = torch.optim.Adam(model.parameters(), lr, weight_decay=weight_decay)
19 lr_scheduler = torch.optim.lr_scheduler.CosineAnnealingLR(optimizer, T_max=max_epochs)
20
21 # Metrics
22 dice_metric = DiceMetric(include_background=True, reduction="mean")
23 dice_metric_batch = DiceMetric(include_background=True, reduction="mean_batch")
24
25 # Inference Method
26 def inference(input):
27     def _compute(input):
28         return sliding_window_inference(
29             inputs=input,
30             roi_size=spatial_size,
31             sw_batch_size=1,
32             predictor=model,
33             overlap=0.5,
34         )
35
36     if VAL_AMP:
37         with torch.cuda.amp.autocast():
38             return _compute(input)
39     else:
40         return _compute(input)
41
42 # AMP to accelerate training
43 scaler = torch.cuda.amp.GradScaler()
44
45 # enable cuDNN benchmark
46 torch.backends.cudnn.benchmark = True

```

## ▼ Training Process

```

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

```

```

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

```

```

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

```

epoch 55/100

TRAIN

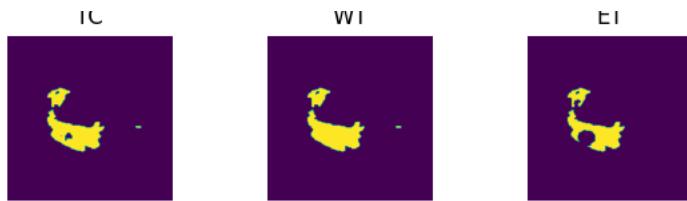
Batch 1/248, train\_loss: 0.0902, step time: 8.7493  
Batch 2/248, train\_loss: 0.6485, step time: 1.0048  
Batch 3/248, train\_loss: 0.2786, step time: 1.0018  
Batch 4/248, train\_loss: 0.9863, step time: 0.9935  
Batch 5/248, train\_loss: 0.2346, step time: 0.9990  
Batch 6/248, train\_loss: 0.5395, step time: 1.0044  
Batch 7/248, train\_loss: 0.0677, step time: 1.0006  
Batch 8/248, train\_loss: 0.7255, step time: 1.0026  
Batch 9/248, train\_loss: 0.0347, step time: 1.0052  
Batch 10/248, train\_loss: 0.2241, step time: 1.0027  
Batch 11/248, train\_loss: 0.1934, step time: 1.0069  
Batch 12/248, train\_loss: 0.4676, step time: 1.0070  
Batch 13/248, train\_loss: 0.4187, step time: 1.0035  
Batch 14/248, train\_loss: 0.0497, step time: 1.0016  
Batch 15/248, train\_loss: 0.3232, step time: 1.0039  
Batch 16/248, train\_loss: 0.1558, step time: 1.0018  
Batch 17/248, train\_loss: 0.2934, step time: 1.0071  
Batch 18/248, train\_loss: 0.4230, step time: 1.0066  
Batch 19/248, train\_loss: 0.1122, step time: 1.0012  
Batch 20/248, train\_loss: 0.1857, step time: 1.0099  
Batch 21/248, train\_loss: 0.0770, step time: 1.0081  
Batch 22/248, train\_loss: 0.9685, step time: 1.0091  
Batch 23/248, train\_loss: 0.9947, step time: 1.0080  
Batch 24/248, train\_loss: 0.1495, step time: 1.0044  
Batch 25/248, train\_loss: 0.0672, step time: 1.0049  
Batch 26/248, train\_loss: 0.4735, step time: 1.0061  
Batch 27/248, train\_loss: 0.0710, step time: 1.0103  
Batch 28/248, train\_loss: 0.1598, step time: 1.0102  
Batch 29/248, train\_loss: 0.4018, step time: 1.0112  
Batch 30/248, train\_loss: 0.2366, step time: 1.0107  
Batch 31/248, train\_loss: 0.2883, step time: 1.0124  
Batch 32/248, train\_loss: 0.0835, step time: 1.0101  
Batch 33/248, train\_loss: 0.0641, step time: 1.0092  
Batch 34/248, train\_loss: 0.0426, step time: 1.0105  
Batch 35/248, train\_loss: 0.0437, step time: 1.0114  
Batch 36/248, train\_loss: 0.4485, step time: 1.0086  
Batch 37/248, train\_loss: 0.1642, step time: 1.0114  
Batch 38/248, train\_loss: 0.2805, step time: 1.0116  
Batch 39/248, train\_loss: 0.1444, step time: 1.0116  
Batch 40/248, train\_loss: 0.7736, step time: 1.0149  
Batch 41/248, train\_loss: 0.2333, step time: 1.0120  
Batch 42/248, train\_loss: 0.0692, step time: 1.0093  
Batch 43/248, train\_loss: 0.0538, step time: 1.0130  
Batch 44/248, train\_loss: 0.2776, step time: 1.0132  
Batch 45/248, train\_loss: 0.3852, step time: 1.0088  
Batch 46/248, train\_loss: 0.1503, step time: 1.0138  
Batch 47/248, train\_loss: 0.0644, step time: 1.0205  
Batch 48/248, train\_loss: 0.2121, step time: 1.0154  
Batch 49/248, train\_loss: 0.5406, step time: 1.0262  
Batch 50/248, train\_loss: 0.1457, step time: 1.0150  
Batch 51/248, train\_loss: 0.1311, step time: 1.0164  
Batch 52/248, train\_loss: 0.1113, step time: 1.0141  
Batch 53/248, train\_loss: 0.3978, step time: 1.0179  
Batch 54/248, train\_loss: 0.2282, step time: 1.0207  
Batch 55/248, train\_loss: 0.3357, step time: 1.0168  
Batch 56/248, train\_loss: 0.2211, step time: 1.0185  
Batch 57/248, train\_loss: 0.2917, step time: 1.0231  
Batch 58/248, train\_loss: 0.0745, step time: 1.0190  
Batch 59/248, train\_loss: 0.0919, step time: 1.0189  
Batch 60/248, train\_loss: 0.0597, step time: 1.0201  
Batch 61/248, train\_loss: 0.0892, step time: 1.0194  
Batch 62/248, train\_loss: 0.1950, step time: 1.0198  
Batch 63/248, train\_loss: 0.5914, step time: 1.0208  
Batch 64/248, train\_loss: 0.4326, step time: 1.0165  
Batch 65/248, train\_loss: 0.5122, step time: 1.0216  
Batch 66/248, train\_loss: 0.1332, step time: 1.0201  
Batch 67/248, train\_loss: 0.0656, step time: 1.0151  
Batch 68/248, train\_loss: 0.1267, step time: 1.0198  
Batch 69/248, train\_loss: 0.4011, step time: 1.0225  
Batch 70/248, train\_loss: 0.1348, step time: 1.0203  
Batch 71/248, train\_loss: 0.1566, step time: 1.0176  
Batch 72/248, train\_loss: 0.0609, step time: 1.0179  
Batch 73/248, train\_loss: 0.3439, step time: 0.9817  
Batch 74/248, train\_loss: 0.9943, step time: 1.0151  
Batch 75/248, train\_loss: 0.1192, step time: 1.0186  
Batch 76/248, train\_loss: 0.5971, step time: 1.0211  
Batch 77/248, train\_loss: 0.8412, step time: 1.0209  
Batch 78/248, train\_loss: 0.1413, step time: 1.0225  
Batch 79/248, train\_loss: 0.1707, step time: 1.0209  
Batch 80/248, train\_loss: 0.2168, step time: 1.0196  
Batch 81/248, train\_loss: 0.2808, step time: 1.0222

Batch 82/248, train\_loss: 0.0810, step time: 1.0162  
Batch 83/248, train\_loss: 0.5218, step time: 1.0203  
Batch 84/248, train\_loss: 0.2366, step time: 1.0195  
Batch 85/248, train\_loss: 0.3397, step time: 1.0199  
Batch 86/248, train\_loss: 0.2441, step time: 1.0171  
Batch 87/248, train\_loss: 0.4822, step time: 1.0215  
Batch 88/248, train\_loss: 0.3558, step time: 1.0190  
Batch 89/248, train\_loss: 0.0996, step time: 1.0193  
Batch 90/248, train\_loss: 0.2466, step time: 1.0172  
Batch 91/248, train\_loss: 0.4221, step time: 1.0213  
Batch 92/248, train\_loss: 0.2794, step time: 1.0183  
Batch 93/248, train\_loss: 0.1644, step time: 1.0150  
Batch 94/248, train\_loss: 0.2538, step time: 1.0187  
Batch 95/248, train\_loss: 0.1707, step time: 1.0153  
Batch 96/248, train\_loss: 0.1707, step time: 1.0199  
Batch 97/248, train\_loss: 0.5340, step time: 1.0212  
Batch 98/248, train\_loss: 0.1347, step time: 1.0206  
Batch 99/248, train\_loss: 0.3125, step time: 1.0193  
Batch 100/248, train\_loss: 0.2813, step time: 1.0212  
Batch 101/248, train\_loss: 0.0493, step time: 1.0159  
Batch 102/248, train\_loss: 0.1047, step time: 1.0170  
Batch 103/248, train\_loss: 0.7331, step time: 1.0200  
Batch 104/248, train\_loss: 0.3580, step time: 1.0182  
Batch 105/248, train\_loss: 0.0816, step time: 1.0170  
Batch 106/248, train\_loss: 0.1238, step time: 1.0199  
Batch 107/248, train\_loss: 0.3573, step time: 1.0222  
Batch 108/248, train\_loss: 0.6941, step time: 1.0209  
Batch 109/248, train\_loss: 0.8209, step time: 1.0204  
Batch 110/248, train\_loss: 0.2360, step time: 1.0213  
Batch 111/248, train\_loss: 0.1181, step time: 1.0183  
Batch 112/248, train\_loss: 0.1314, step time: 1.0199  
Batch 113/248, train\_loss: 0.8912, step time: 1.0192  
Batch 114/248, train\_loss: 0.1724, step time: 1.0157  
Batch 115/248, train\_loss: 0.1700, step time: 1.0186  
Batch 116/248, train\_loss: 0.1044, step time: 1.0183  
Batch 117/248, train\_loss: 0.7684, step time: 1.0197  
Batch 118/248, train\_loss: 0.7441, step time: 1.0196  
Batch 119/248, train\_loss: 0.3857, step time: 1.0197  
Batch 120/248, train\_loss: 0.2227, step time: 1.0184  
Batch 121/248, train\_loss: 0.3232, step time: 1.0210  
Batch 122/248, train\_loss: 0.4139, step time: 1.0215  
Batch 123/248, train\_loss: 0.0831, step time: 1.0178  
Batch 124/248, train\_loss: 0.3851, step time: 1.0205  
Batch 125/248, train\_loss: 0.6486, step time: 1.0304  
Batch 126/248, train\_loss: 0.2372, step time: 1.0199  
Batch 127/248, train\_loss: 0.1083, step time: 1.0145  
Batch 128/248, train\_loss: 0.3202, step time: 1.0212  
Batch 129/248, train\_loss: 0.1251, step time: 1.0189  
Batch 130/248, train\_loss: 0.1072, step time: 1.0179  
Batch 131/248, train\_loss: 0.4970, step time: 1.0197  
Batch 132/248, train\_loss: 0.4119, step time: 1.0197  
Batch 133/248, train\_loss: 0.1328, step time: 1.0166  
Batch 134/248, train\_loss: 0.8529, step time: 1.0219  
Batch 135/248, train\_loss: 0.6234, step time: 0.9855  
Batch 136/248, train\_loss: 0.1105, step time: 1.0141  
Batch 137/248, train\_loss: 0.1211, step time: 1.0149  
Batch 138/248, train\_loss: 0.0729, step time: 1.0161  
Batch 139/248, train\_loss: 0.1900, step time: 1.0158  
Batch 140/248, train\_loss: 0.1601, step time: 1.0209  
Batch 141/248, train\_loss: 0.1847, step time: 1.0166  
Batch 142/248, train\_loss: 0.6343, step time: 1.0198  
Batch 143/248, train\_loss: 0.2457, step time: 1.0165  
Batch 144/248, train\_loss: 0.1201, step time: 1.0140  
Batch 145/248, train\_loss: 0.0525, step time: 1.0146  
Batch 146/248, train\_loss: 0.9085, step time: 1.0190  
Batch 147/248, train\_loss: 0.0398, step time: 1.0150  
Batch 148/248, train\_loss: 0.8462, step time: 1.0192  
Batch 149/248, train\_loss: 0.1144, step time: 1.0131  
Batch 150/248, train\_loss: 0.6689, step time: 1.0186  
Batch 151/248, train\_loss: 0.3378, step time: 1.0188  
Batch 152/248, train\_loss: 0.0414, step time: 1.0155  
Batch 153/248, train\_loss: 0.2444, step time: 1.0172  
Batch 154/248, train\_loss: 0.8535, step time: 1.0225  
Batch 155/248, train\_loss: 0.1216, step time: 1.0184  
Batch 156/248, train\_loss: 0.2350, step time: 1.0202  
Batch 157/248, train\_loss: 0.2798, step time: 1.0181  
Batch 158/248, train\_loss: 0.9883, step time: 1.0137  
Batch 159/248, train\_loss: 0.5475, step time: 1.0195  
Batch 160/248, train\_loss: 0.0830, step time: 1.0140  
Batch 161/248, train\_loss: 0.1156, step time: 1.0197  
Batch 162/248, train\_loss: 0.1058, step time: 1.0174  
Batch 163/248, train\_loss: 0.1282, step time: 1.0209  
Batch 164/248, train\_loss: 0.1747, step time: 1.0156  
Batch 165/248, train\_loss: 0.7846, step time: 1.0201  
Batch 166/248, train\_loss: 0.1126, step time: 1.0168

Batch 167/248, train\_loss: 0.1708, step time: 1.0129  
Batch 168/248, train\_loss: 0.1593, step time: 1.0151  
Batch 169/248, train\_loss: 0.0802, step time: 1.0172  
Batch 170/248, train\_loss: 0.7828, step time: 1.0226  
Batch 171/248, train\_loss: 0.1056, step time: 1.0160  
Batch 172/248, train\_loss: 0.6811, step time: 1.0215  
Batch 173/248, train\_loss: 0.1026, step time: 1.0185  
Batch 174/248, train\_loss: 0.5603, step time: 1.0214  
Batch 175/248, train\_loss: 0.1743, step time: 1.0180  
Batch 176/248, train\_loss: 0.3721, step time: 1.0155  
Batch 177/248, train\_loss: 0.3510, step time: 1.0204  
Batch 178/248, train\_loss: 0.3517, step time: 1.0180  
Batch 179/248, train\_loss: 0.0911, step time: 1.0161  
Batch 180/248, train\_loss: 0.3597, step time: 1.0185  
Batch 181/248, train\_loss: 0.1118, step time: 1.0187  
Batch 182/248, train\_loss: 0.9716, step time: 1.0145  
Batch 183/248, train\_loss: 0.2049, step time: 1.0199  
Batch 184/248, train\_loss: 0.5580, step time: 1.0222  
Batch 185/248, train\_loss: 0.1160, step time: 1.0180  
Batch 186/248, train\_loss: 0.1233, step time: 1.0189  
Batch 187/248, train\_loss: 0.2157, step time: 1.0170  
Batch 188/248, train\_loss: 0.2353, step time: 1.0167  
Batch 189/248, train\_loss: 0.5632, step time: 1.0207  
Batch 190/248, train\_loss: 0.1312, step time: 1.0160  
Batch 191/248, train\_loss: 0.5961, step time: 1.0182  
Batch 192/248, train\_loss: 0.2824, step time: 1.0201  
Batch 193/248, train\_loss: 0.3189, step time: 1.0187  
Batch 194/248, train\_loss: 0.0732, step time: 1.0174  
Batch 195/248, train\_loss: 0.7042, step time: 1.0195  
Batch 196/248, train\_loss: 0.9919, step time: 1.0161  
Batch 197/248, train\_loss: 0.1807, step time: 1.0177  
Batch 198/248, train\_loss: 0.7308, step time: 1.0200  
Batch 199/248, train\_loss: 0.1197, step time: 1.0176  
Batch 200/248, train\_loss: 0.1312, step time: 1.0149  
Batch 201/248, train\_loss: 0.1216, step time: 1.0168  
Batch 202/248, train\_loss: 0.3656, step time: 1.0199  
Batch 203/248, train\_loss: 0.5015, step time: 1.0200  
Batch 204/248, train\_loss: 0.1028, step time: 1.0182  
Batch 205/248, train\_loss: 0.2358, step time: 1.0180  
Batch 206/248, train\_loss: 0.4450, step time: 1.0197  
Batch 207/248, train\_loss: 0.0906, step time: 1.0167  
Batch 208/248, train\_loss: 0.1585, step time: 1.0173  
Batch 209/248, train\_loss: 0.2443, step time: 1.0200  
Batch 210/248, train\_loss: 0.0548, step time: 1.0144  
Batch 211/248, train\_loss: 0.0590, step time: 1.0107  
Batch 212/248, train\_loss: 0.2950, step time: 1.0189  
Batch 213/248, train\_loss: 0.1736, step time: 1.0208  
Batch 214/248, train\_loss: 0.0663, step time: 1.0134  
Batch 215/248, train\_loss: 0.1686, step time: 1.0164  
Batch 216/248, train\_loss: 0.1629, step time: 1.0181  
Batch 217/248, train\_loss: 0.2626, step time: 1.0185  
Batch 218/248, train\_loss: 0.8068, step time: 1.0193  
Batch 219/248, train\_loss: 0.1030, step time: 1.0157  
Batch 220/248, train\_loss: 0.2061, step time: 1.0172  
Batch 221/248, train\_loss: 0.2461, step time: 1.0170  
Batch 222/248, train\_loss: 0.1982, step time: 1.0167  
Batch 223/248, train\_loss: 0.0428, step time: 1.0151  
Batch 224/248, train\_loss: 0.0819, step time: 1.0168  
Batch 225/248, train\_loss: 0.4687, step time: 1.0192  
Batch 226/248, train\_loss: 0.1447, step time: 1.0189  
Batch 227/248, train\_loss: 0.0804, step time: 1.0151  
Batch 228/248, train\_loss: 0.1387, step time: 1.0266  
Batch 229/248, train\_loss: 0.1159, step time: 1.0163  
Batch 230/248, train\_loss: 0.0733, step time: 1.0182  
Batch 231/248, train\_loss: 0.3546, step time: 1.0222  
Batch 232/248, train\_loss: 0.0850, step time: 1.0162  
Batch 233/248, train\_loss: 0.7735, step time: 1.0192  
Batch 234/248, train\_loss: 0.5674, step time: 1.0174  
Batch 235/248, train\_loss: 0.3604, step time: 1.0161  
Batch 236/248, train\_loss: 0.7413, step time: 1.0149  
Batch 237/248, train\_loss: 0.1146, step time: 1.0172  
Batch 238/248, train\_loss: 0.0988, step time: 1.0161  
Batch 239/248, train\_loss: 0.0797, step time: 1.0154  
Batch 240/248, train\_loss: 0.4681, step time: 1.0187  
Batch 241/248, train\_loss: 0.5580, step time: 1.0241  
Batch 242/248, train\_loss: 0.3170, step time: 1.0199  
Batch 243/248, train\_loss: 0.5668, step time: 1.0180  
Batch 244/248, train\_loss: 0.4719, step time: 1.0186  
Batch 245/248, train\_loss: 0.0574, step time: 1.0134  
Batch 246/248, train\_loss: 0.5476, step time: 1.0188  
Batch 247/248, train\_loss: 0.0831, step time: 1.0158  
Batch 248/248, train\_loss: 0.9999, step time: 1.0126

## Labels

— — — — —



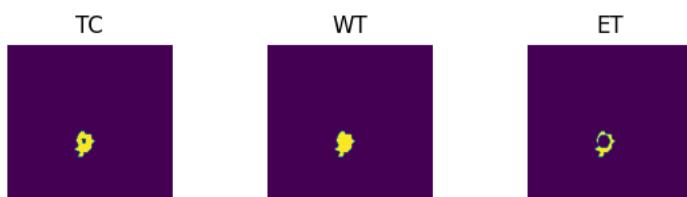
Predictions



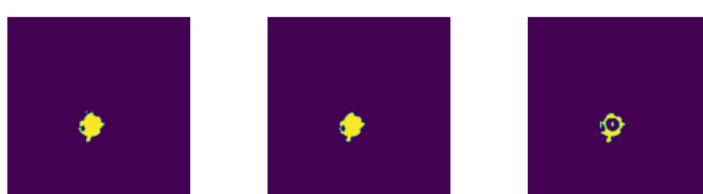
VAL

```
Batch 1/31, val_loss: 0.9487
Batch 2/31, val_loss: 0.9930
Batch 3/31, val_loss: 0.9609
Batch 4/31, val_loss: 0.9466
Batch 5/31, val_loss: 0.9924
Batch 6/31, val_loss: 0.6901
Batch 7/31, val_loss: 0.8231
Batch 8/31, val_loss: 0.9633
Batch 9/31, val_loss: 0.6902
Batch 10/31, val_loss: 0.9067
Batch 11/31, val_loss: 0.8251
Batch 12/31, val_loss: 0.9724
Batch 13/31, val_loss: 0.9782
Batch 14/31, val_loss: 0.9504
Batch 15/31, val_loss: 0.9953
Batch 16/31, val_loss: 0.9745
Batch 17/31, val_loss: 0.9725
Batch 18/31, val_loss: 0.9311
Batch 19/31, val_loss: 0.7391
Batch 20/31, val_loss: 0.8919
Batch 21/31, val_loss: 0.8602
Batch 22/31, val_loss: 0.9715
Batch 23/31, val_loss: 0.9793
Batch 24/31, val_loss: 0.7407
Batch 25/31, val_loss: 0.8051
Batch 26/31, val_loss: 0.9183
Batch 27/31, val_loss: 0.9702
Batch 28/31, val_loss: 0.7443
Batch 29/31, val_loss: 0.9917
Batch 30/31, val_loss: 0.9557
Batch 31/31, val_loss: 0.9844
```

Labels



Predictions



epoch 55

```
average train loss: 0.3053
average validation loss: 0.9054
saved as best model: False
current mean dice: 0.4520
current TC dice: 0.4683
current WT dice: 0.4775
current ET dice: 0.4521
```

Best Mean Metric: 0.5060

time consuming of epoch 55 is: 2917.0255

-----

epoch 56/100

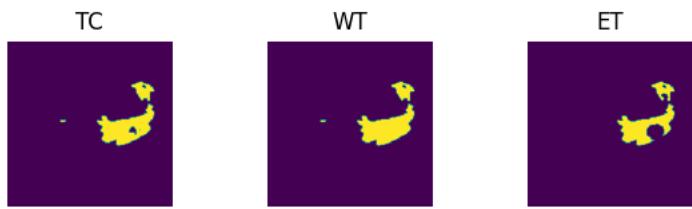
TRAIN

Batch 1/248, train\_loss: 0.0926, step time: 1.0175  
Batch 2/248, train\_loss: 0.7954, step time: 1.0173  
Batch 3/248, train\_loss: 0.4023, step time: 1.0189  
Batch 4/248, train\_loss: 0.9168, step time: 1.0167  
Batch 5/248, train\_loss: 0.2376, step time: 1.0178  
Batch 6/248, train\_loss: 0.6137, step time: 1.0148  
Batch 7/248, train\_loss: 0.0667, step time: 1.0166  
Batch 8/248, train\_loss: 0.7050, step time: 1.0154  
Batch 9/248, train\_loss: 0.0438, step time: 1.0158  
Batch 10/248, train\_loss: 0.2219, step time: 1.0173  
Batch 11/248, train\_loss: 0.1843, step time: 1.0154  
Batch 12/248, train\_loss: 0.5269, step time: 1.0227  
Batch 13/248, train\_loss: 0.3038, step time: 1.0172  
Batch 14/248, train\_loss: 0.0646, step time: 1.0153  
Batch 15/248, train\_loss: 0.3161, step time: 1.0166  
Batch 16/248, train\_loss: 0.1428, step time: 1.0160  
Batch 17/248, train\_loss: 0.2480, step time: 1.0184  
Batch 18/248, train\_loss: 0.4908, step time: 1.0149  
Batch 19/248, train\_loss: 0.1266, step time: 1.0175  
Batch 20/248, train\_loss: 0.1799, step time: 1.0148  
Batch 21/248, train\_loss: 0.0615, step time: 1.0124  
Batch 22/248, train\_loss: 0.7729, step time: 1.0173  
Batch 23/248, train\_loss: 0.9943, step time: 1.0110  
Batch 24/248, train\_loss: 0.1489, step time: 1.0177  
Batch 25/248, train\_loss: 0.0654, step time: 1.0130  
Batch 26/248, train\_loss: 0.5360, step time: 1.0214  
Batch 27/248, train\_loss: 0.0730, step time: 1.0157  
Batch 28/248, train\_loss: 0.1489, step time: 1.0148  
Batch 29/248, train\_loss: 0.3541, step time: 1.0203  
Batch 30/248, train\_loss: 0.3320, step time: 1.0172  
Batch 31/248, train\_loss: 0.3086, step time: 1.0163  
Batch 32/248, train\_loss: 0.0839, step time: 1.0125  
Batch 33/248, train\_loss: 0.0753, step time: 1.0137  
Batch 34/248, train\_loss: 0.0452, step time: 1.0153  
Batch 35/248, train\_loss: 0.0451, step time: 1.0128  
Batch 36/248, train\_loss: 0.5291, step time: 1.0184  
Batch 37/248, train\_loss: 0.1683, step time: 1.0160  
Batch 38/248, train\_loss: 0.2861, step time: 1.0156  
Batch 39/248, train\_loss: 0.2028, step time: 1.0168  
Batch 40/248, train\_loss: 0.7160, step time: 1.0186  
Batch 41/248, train\_loss: 0.2325, step time: 1.0201  
Batch 42/248, train\_loss: 0.0647, step time: 1.0176  
Batch 43/248, train\_loss: 0.0499, step time: 1.0152  
Batch 44/248, train\_loss: 0.4126, step time: 1.0170  
Batch 45/248, train\_loss: 0.4284, step time: 1.0165  
Batch 46/248, train\_loss: 0.2003, step time: 1.0183  
Batch 47/248, train\_loss: 0.0647, step time: 1.0128  
Batch 48/248, train\_loss: 0.2407, step time: 1.0148  
Batch 49/248, train\_loss: 0.5739, step time: 1.0173  
Batch 50/248, train\_loss: 0.1268, step time: 1.0102  
Batch 51/248, train\_loss: 0.1532, step time: 1.0152  
Batch 52/248, train\_loss: 0.0965, step time: 1.0166  
Batch 53/248, train\_loss: 0.4062, step time: 1.0210  
Batch 54/248, train\_loss: 0.2359, step time: 1.0172  
Batch 55/248, train\_loss: 0.3241, step time: 1.0175  
Batch 56/248, train\_loss: 0.2513, step time: 1.0185  
Batch 57/248, train\_loss: 0.2180, step time: 1.0167  
Batch 58/248, train\_loss: 0.0992, step time: 1.0183  
Batch 59/248, train\_loss: 0.0901, step time: 1.0147  
Batch 60/248, train\_loss: 0.0524, step time: 1.0134  
Batch 61/248, train\_loss: 0.0991, step time: 1.0170  
Batch 62/248, train\_loss: 0.2182, step time: 1.0180  
Batch 63/248, train\_loss: 0.5145, step time: 1.0170  
Batch 64/248, train\_loss: 0.4087, step time: 1.0190  
Batch 65/248, train\_loss: 0.4513, step time: 1.0166  
Batch 66/248, train\_loss: 0.1395, step time: 1.0124  
Batch 67/248, train\_loss: 0.0702, step time: 1.0128  
Batch 68/248, train\_loss: 0.1878, step time: 1.0176  
Batch 69/248, train\_loss: 0.4669, step time: 1.0197  
Batch 70/248, train\_loss: 0.1258, step time: 1.0170  
Batch 71/248, train\_loss: 0.1704, step time: 1.0180  
Batch 72/248, train\_loss: 0.0606, step time: 1.0154  
Batch 73/248, train\_loss: 0.2125, step time: 1.0186  
Batch 74/248, train\_loss: 0.9989, step time: 1.0155  
Batch 75/248, train\_loss: 0.1251, step time: 1.0185  
Batch 76/248, train\_loss: 0.5573, step time: 1.0205  
Batch 77/248, train\_loss: 0.8308, step time: 1.0165  
Batch 78/248, train\_loss: 0.1140, step time: 1.0159  
Batch 79/248, train\_loss: 0.1294, step time: 1.0150  
Batch 80/248, train\_loss: 0.2325, step time: 1.0164  
Batch 81/248, train\_loss: 0.1830, step time: 1.0153

Batch 82/248, train\_loss: 0.0820, step time: 1.0200  
Batch 83/248, train\_loss: 0.5188, step time: 1.0197  
Batch 84/248, train\_loss: 0.3021, step time: 1.0189  
Batch 85/248, train\_loss: 0.4572, step time: 1.0207  
Batch 86/248, train\_loss: 0.2514, step time: 1.0186  
Batch 87/248, train\_loss: 0.4868, step time: 1.0169  
Batch 88/248, train\_loss: 0.3326, step time: 1.0177  
Batch 89/248, train\_loss: 0.1068, step time: 1.0152  
Batch 90/248, train\_loss: 0.4346, step time: 1.0197  
Batch 91/248, train\_loss: 0.3390, step time: 1.0178  
Batch 92/248, train\_loss: 0.3403, step time: 1.0205  
Batch 93/248, train\_loss: 0.1441, step time: 1.0152  
Batch 94/248, train\_loss: 0.4053, step time: 1.0195  
Batch 95/248, train\_loss: 0.1769, step time: 1.0170  
Batch 96/248, train\_loss: 0.2206, step time: 1.0169  
Batch 97/248, train\_loss: 0.5004, step time: 1.0210  
Batch 98/248, train\_loss: 0.1027, step time: 1.0169  
Batch 99/248, train\_loss: 0.2985, step time: 1.0182  
Batch 100/248, train\_loss: 0.3611, step time: 1.0202  
Batch 101/248, train\_loss: 0.0570, step time: 1.0159  
Batch 102/248, train\_loss: 0.1265, step time: 1.0185  
Batch 103/248, train\_loss: 0.7194, step time: 1.0180  
Batch 104/248, train\_loss: 0.3325, step time: 1.0174  
Batch 105/248, train\_loss: 0.0824, step time: 1.0148  
Batch 106/248, train\_loss: 0.2447, step time: 1.0195  
Batch 107/248, train\_loss: 0.2861, step time: 1.0182  
Batch 108/248, train\_loss: 0.4730, step time: 1.0192  
Batch 109/248, train\_loss: 0.9187, step time: 1.0148  
Batch 110/248, train\_loss: 0.3232, step time: 1.0168  
Batch 111/248, train\_loss: 0.1034, step time: 1.0155  
Batch 112/248, train\_loss: 0.0970, step time: 1.0160  
Batch 113/248, train\_loss: 0.9176, step time: 1.0172  
Batch 114/248, train\_loss: 0.1353, step time: 1.0121  
Batch 115/248, train\_loss: 0.1852, step time: 1.0165  
Batch 116/248, train\_loss: 0.0855, step time: 1.0142  
Batch 117/248, train\_loss: 0.7017, step time: 1.0192  
Batch 118/248, train\_loss: 0.6380, step time: 1.0169  
Batch 119/248, train\_loss: 0.3696, step time: 1.0181  
Batch 120/248, train\_loss: 0.2194, step time: 1.0127  
Batch 121/248, train\_loss: 0.3182, step time: 1.0181  
Batch 122/248, train\_loss: 0.3861, step time: 1.0151  
Batch 123/248, train\_loss: 0.0649, step time: 1.0164  
Batch 124/248, train\_loss: 0.2938, step time: 1.0190  
Batch 125/248, train\_loss: 0.6314, step time: 1.0233  
Batch 126/248, train\_loss: 0.1976, step time: 1.0183  
Batch 127/248, train\_loss: 0.0888, step time: 1.0167  
Batch 128/248, train\_loss: 0.2821, step time: 1.0193  
Batch 129/248, train\_loss: 0.1718, step time: 1.0155  
Batch 130/248, train\_loss: 0.1278, step time: 1.0173  
Batch 131/248, train\_loss: 0.6891, step time: 1.0163  
Batch 132/248, train\_loss: 0.5697, step time: 1.0213  
Batch 133/248, train\_loss: 0.2779, step time: 1.0171  
Batch 134/248, train\_loss: 0.8429, step time: 1.0210  
Batch 135/248, train\_loss: 0.7980, step time: 1.0192  
Batch 136/248, train\_loss: 0.0975, step time: 1.0176  
Batch 137/248, train\_loss: 0.1759, step time: 1.0178  
Batch 138/248, train\_loss: 0.0700, step time: 1.0136  
Batch 139/248, train\_loss: 0.2034, step time: 1.0223  
Batch 140/248, train\_loss: 0.1715, step time: 1.0153  
Batch 141/248, train\_loss: 0.4675, step time: 1.0200  
Batch 142/248, train\_loss: 0.5589, step time: 1.0191  
Batch 143/248, train\_loss: 0.2744, step time: 1.0149  
Batch 144/248, train\_loss: 0.1268, step time: 1.0157  
Batch 145/248, train\_loss: 0.0487, step time: 1.0094  
Batch 146/248, train\_loss: 0.7949, step time: 1.0183  
Batch 147/248, train\_loss: 0.0420, step time: 1.0151  
Batch 148/248, train\_loss: 0.7685, step time: 1.0171  
Batch 149/248, train\_loss: 0.1201, step time: 1.0164  
Batch 150/248, train\_loss: 0.6808, step time: 1.0125  
Batch 151/248, train\_loss: 0.5980, step time: 1.0190  
Batch 152/248, train\_loss: 0.0460, step time: 1.0119  
Batch 153/248, train\_loss: 0.3347, step time: 1.0183  
Batch 154/248, train\_loss: 0.6652, step time: 1.0202  
Batch 155/248, train\_loss: 0.1207, step time: 1.0185  
Batch 156/248, train\_loss: 0.2341, step time: 1.0176  
Batch 157/248, train\_loss: 0.2609, step time: 1.0180  
Batch 158/248, train\_loss: 0.9777, step time: 1.0157  
Batch 159/248, train\_loss: 0.3706, step time: 1.0195  
Batch 160/248, train\_loss: 0.0745, step time: 1.0145  
Batch 161/248, train\_loss: 0.0832, step time: 1.0165  
Batch 162/248, train\_loss: 0.1390, step time: 1.0196  
Batch 163/248, train\_loss: 0.1057, step time: 1.0129  
Batch 164/248, train\_loss: 0.2520, step time: 1.0192  
Batch 165/248, train\_loss: 0.7073, step time: 1.0197  
Batch 166/248, train\_loss: 0.2063, step time: 1.0193

```
-----  
Batch 167/248, train_loss: 0.2036, step time: 1.0175  
Batch 168/248, train_loss: 0.1594, step time: 1.0183  
Batch 169/248, train_loss: 0.1017, step time: 1.0186  
Batch 170/248, train_loss: 0.6447, step time: 1.0177  
Batch 171/248, train_loss: 0.0999, step time: 1.0143  
Batch 172/248, train_loss: 0.5602, step time: 1.0187  
Batch 173/248, train_loss: 0.0833, step time: 1.0145  
Batch 174/248, train_loss: 0.5902, step time: 1.0197  
Batch 175/248, train_loss: 0.1723, step time: 1.0178  
Batch 176/248, train_loss: 0.3938, step time: 1.0171  
Batch 177/248, train_loss: 0.2594, step time: 1.0183  
Batch 178/248, train_loss: 0.3407, step time: 1.0171  
Batch 179/248, train_loss: 0.0865, step time: 1.0144  
Batch 180/248, train_loss: 0.4049, step time: 1.0155  
Batch 181/248, train_loss: 0.1097, step time: 1.0140  
Batch 182/248, train_loss: 0.9220, step time: 1.0117  
Batch 183/248, train_loss: 0.2389, step time: 1.0192  
Batch 184/248, train_loss: 0.5180, step time: 1.0178  
Batch 185/248, train_loss: 0.1105, step time: 1.0172  
Batch 186/248, train_loss: 0.1282, step time: 1.0144  
Batch 187/248, train_loss: 0.1828, step time: 1.0144  
Batch 188/248, train_loss: 0.2184, step time: 1.0181  
Batch 189/248, train_loss: 0.5729, step time: 1.0207  
Batch 190/248, train_loss: 0.1282, step time: 1.0167  
Batch 191/248, train_loss: 0.6129, step time: 1.0191  
Batch 192/248, train_loss: 0.2672, step time: 1.0173  
Batch 193/248, train_loss: 0.2995, step time: 1.0155  
Batch 194/248, train_loss: 0.0758, step time: 1.0167  
Batch 195/248, train_loss: 0.6695, step time: 1.0175  
Batch 196/248, train_loss: 0.9987, step time: 1.0115  
Batch 197/248, train_loss: 0.1919, step time: 1.0187  
Batch 198/248, train_loss: 0.6655, step time: 1.0202  
Batch 199/248, train_loss: 0.1197, step time: 1.0157  
Batch 200/248, train_loss: 0.1280, step time: 1.0163  
Batch 201/248, train_loss: 0.1325, step time: 1.0140  
Batch 202/248, train_loss: 0.3765, step time: 1.0169  
Batch 203/248, train_loss: 0.5213, step time: 1.0184  
Batch 204/248, train_loss: 0.0920, step time: 1.0162  
Batch 205/248, train_loss: 0.2417, step time: 1.0242  
Batch 206/248, train_loss: 0.4008, step time: 1.0184  
Batch 207/248, train_loss: 0.0838, step time: 1.0160  
Batch 208/248, train_loss: 0.1525, step time: 1.0181  
Batch 209/248, train_loss: 0.1490, step time: 1.0185  
Batch 210/248, train_loss: 0.0590, step time: 1.0139  
Batch 211/248, train_loss: 0.0632, step time: 1.0117  
Batch 212/248, train_loss: 0.2246, step time: 1.0205  
Batch 213/248, train_loss: 0.1809, step time: 1.0193  
Batch 214/248, train_loss: 0.0693, step time: 1.0159  
Batch 215/248, train_loss: 0.1821, step time: 1.0187  
Batch 216/248, train_loss: 0.1661, step time: 1.0167  
Batch 217/248, train_loss: 0.2445, step time: 1.0205  
Batch 218/248, train_loss: 0.7953, step time: 1.0208  
Batch 219/248, train_loss: 0.0748, step time: 1.0185  
Batch 220/248, train_loss: 0.2140, step time: 1.0162  
Batch 221/248, train_loss: 0.2899, step time: 1.0184  
Batch 222/248, train_loss: 0.1960, step time: 1.0154  
Batch 223/248, train_loss: 0.0427, step time: 1.0096  
Batch 224/248, train_loss: 0.0762, step time: 1.0141  
Batch 225/248, train_loss: 0.1755, step time: 1.0183  
Batch 226/248, train_loss: 0.1559, step time: 1.0176  
Batch 227/248, train_loss: 0.0873, step time: 1.0120  
Batch 228/248, train_loss: 0.1383, step time: 1.0136  
Batch 229/248, train_loss: 0.1013, step time: 1.0158  
Batch 230/248, train_loss: 0.0765, step time: 1.0154  
Batch 231/248, train_loss: 0.4644, step time: 1.0191  
Batch 232/248, train_loss: 0.0756, step time: 1.0128  
Batch 233/248, train_loss: 0.7798, step time: 1.0204  
Batch 234/248, train_loss: 0.4704, step time: 1.0173  
Batch 235/248, train_loss: 0.4048, step time: 1.0186  
Batch 236/248, train_loss: 0.7634, step time: 1.0192  
Batch 237/248, train_loss: 0.0980, step time: 1.0144  
Batch 238/248, train_loss: 0.1181, step time: 1.0163  
Batch 239/248, train_loss: 0.0695, step time: 1.0173  
Batch 240/248, train_loss: 0.3087, step time: 1.0179  
Batch 241/248, train_loss: 0.4886, step time: 1.0195  
Batch 242/248, train_loss: 0.2438, step time: 1.0167  
Batch 243/248, train_loss: 0.5415, step time: 1.0179  
Batch 244/248, train_loss: 0.5288, step time: 1.0202  
Batch 245/248, train_loss: 0.0735, step time: 1.0157  
Batch 246/248, train_loss: 0.5696, step time: 1.0181  
Batch 247/248, train_loss: 0.1167, step time: 1.0202  
Batch 248/248, train_loss: 0.9987, step time: 1.0137
```

Labels



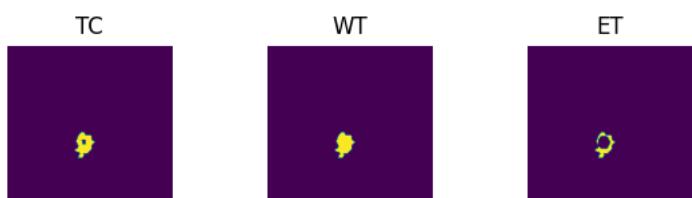
Predictions



VAL

```
Batch 1/31, val_loss: 0.9620
Batch 2/31, val_loss: 0.9931
Batch 3/31, val_loss: 0.9616
Batch 4/31, val_loss: 0.9410
Batch 5/31, val_loss: 0.9931
Batch 6/31, val_loss: 0.7025
Batch 7/31, val_loss: 0.8427
Batch 8/31, val_loss: 0.9553
Batch 9/31, val_loss: 0.6909
Batch 10/31, val_loss: 0.9143
Batch 11/31, val_loss: 0.8241
Batch 12/31, val_loss: 0.9730
Batch 13/31, val_loss: 0.9881
Batch 14/31, val_loss: 0.9417
Batch 15/31, val_loss: 0.9882
Batch 16/31, val_loss: 0.9750
Batch 17/31, val_loss: 0.9707
Batch 18/31, val_loss: 0.9369
Batch 19/31, val_loss: 0.7405
Batch 20/31, val_loss: 0.8773
Batch 21/31, val_loss: 0.8681
Batch 22/31, val_loss: 0.9730
Batch 23/31, val_loss: 0.9775
Batch 24/31, val_loss: 0.7463
Batch 25/31, val_loss: 0.8029
Batch 26/31, val_loss: 0.9194
Batch 27/31, val_loss: 0.9702
Batch 28/31, val_loss: 0.7528
Batch 29/31, val_loss: 0.9877
Batch 30/31, val_loss: 0.9548
Batch 31/31, val_loss: 0.9804
```

Labels



Predictions



epoch 56

```
average train loss: 0.3055
average validation loss: 0.9066
saved as best model: False
current mean dice: 0.4728
current TC dice: 0.4894
current WT dice: 0.4957
current ET dice: 0.4749
Best Mean Metric: 0.5060
```

time consuming of epoch 56 is: 1574.4471

-----  
epoch 57/100

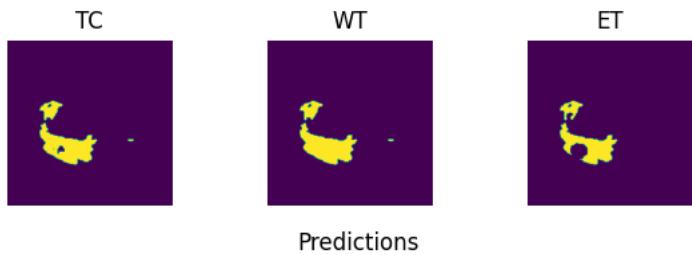
TRAIN

Batch 1/248, train\_loss: 0.0941, step time: 1.0168  
Batch 2/248, train\_loss: 0.8187, step time: 1.0292  
Batch 3/248, train\_loss: 0.3364, step time: 1.0162  
Batch 4/248, train\_loss: 0.8937, step time: 1.0200  
Batch 5/248, train\_loss: 0.2216, step time: 1.0174  
Batch 6/248, train\_loss: 0.5223, step time: 1.0199  
Batch 7/248, train\_loss: 0.0593, step time: 1.0141  
Batch 8/248, train\_loss: 0.7169, step time: 1.0161  
Batch 9/248, train\_loss: 0.0423, step time: 1.0146  
Batch 10/248, train\_loss: 0.2429, step time: 1.0214  
Batch 11/248, train\_loss: 0.1841, step time: 1.0187  
Batch 12/248, train\_loss: 0.5571, step time: 1.0242  
Batch 13/248, train\_loss: 0.3721, step time: 1.0217  
Batch 14/248, train\_loss: 0.0519, step time: 1.0154  
Batch 15/248, train\_loss: 0.3148, step time: 1.0180  
Batch 16/248, train\_loss: 0.1280, step time: 1.0150  
Batch 17/248, train\_loss: 0.2593, step time: 1.0169  
Batch 18/248, train\_loss: 0.5647, step time: 1.0174  
Batch 19/248, train\_loss: 0.0970, step time: 1.0129  
Batch 20/248, train\_loss: 0.1970, step time: 1.0185  
Batch 21/248, train\_loss: 0.0588, step time: 1.0167  
Batch 22/248, train\_loss: 0.9834, step time: 1.0153  
Batch 23/248, train\_loss: 0.9977, step time: 1.0135  
Batch 24/248, train\_loss: 0.1001, step time: 1.0177  
Batch 25/248, train\_loss: 0.0719, step time: 1.0132  
Batch 26/248, train\_loss: 0.5287, step time: 1.0223  
Batch 27/248, train\_loss: 0.0683, step time: 1.0168  
Batch 28/248, train\_loss: 0.1444, step time: 1.0190  
Batch 29/248, train\_loss: 0.3605, step time: 1.0186  
Batch 30/248, train\_loss: 0.5331, step time: 1.0192  
Batch 31/248, train\_loss: 0.3240, step time: 1.0203  
Batch 32/248, train\_loss: 0.0729, step time: 1.0156  
Batch 33/248, train\_loss: 0.0769, step time: 1.0148  
Batch 34/248, train\_loss: 0.0442, step time: 1.0093  
Batch 35/248, train\_loss: 0.0475, step time: 1.0138  
Batch 36/248, train\_loss: 0.4320, step time: 1.0189  
Batch 37/248, train\_loss: 0.1606, step time: 1.0149  
Batch 38/248, train\_loss: 0.2994, step time: 1.0175  
Batch 39/248, train\_loss: 0.1385, step time: 1.0121  
Batch 40/248, train\_loss: 0.7094, step time: 1.0186  
Batch 41/248, train\_loss: 0.2510, step time: 1.0174  
Batch 42/248, train\_loss: 0.0710, step time: 1.0136  
Batch 43/248, train\_loss: 0.0566, step time: 1.0171  
Batch 44/248, train\_loss: 0.3874, step time: 1.0160  
Batch 45/248, train\_loss: 0.3717, step time: 1.0145  
Batch 46/248, train\_loss: 0.1675, step time: 1.0207  
Batch 47/248, train\_loss: 0.0658, step time: 1.0148  
Batch 48/248, train\_loss: 0.2660, step time: 1.0169  
Batch 49/248, train\_loss: 0.5728, step time: 1.0153  
Batch 50/248, train\_loss: 0.1453, step time: 1.0173  
Batch 51/248, train\_loss: 0.1266, step time: 1.0190  
Batch 52/248, train\_loss: 0.0990, step time: 1.0172  
Batch 53/248, train\_loss: 0.3430, step time: 1.0151  
Batch 54/248, train\_loss: 0.2218, step time: 1.0173  
Batch 55/248, train\_loss: 0.2875, step time: 1.0179  
Batch 56/248, train\_loss: 0.1930, step time: 1.0196  
Batch 57/248, train\_loss: 0.2539, step time: 1.0195  
Batch 58/248, train\_loss: 0.0724, step time: 1.0114  
Batch 59/248, train\_loss: 0.0884, step time: 1.0137  
Batch 60/248, train\_loss: 0.0527, step time: 1.0135  
Batch 61/248, train\_loss: 0.0942, step time: 1.0120  
Batch 62/248, train\_loss: 0.1854, step time: 1.0178  
Batch 63/248, train\_loss: 0.5837, step time: 1.0182  
Batch 64/248, train\_loss: 0.3967, step time: 1.0206  
Batch 65/248, train\_loss: 0.3444, step time: 1.0167  
Batch 66/248, train\_loss: 0.1373, step time: 1.0174  
Batch 67/248, train\_loss: 0.0705, step time: 1.0153  
Batch 68/248, train\_loss: 0.1737, step time: 1.0152  
Batch 69/248, train\_loss: 0.4329, step time: 1.0196  
Batch 70/248, train\_loss: 0.1260, step time: 1.0166  
Batch 71/248, train\_loss: 0.1250, step time: 1.0183  
Batch 72/248, train\_loss: 0.0569, step time: 1.0141  
Batch 73/248, train\_loss: 0.4245, step time: 1.0144  
Batch 74/248, train\_loss: 0.9982, step time: 1.0133  
Batch 75/248, train\_loss: 0.1436, step time: 1.0174  
Batch 76/248, train\_loss: 0.5587, step time: 1.0208  
Batch 77/248, train\_loss: 0.7839, step time: 1.0279  
Batch 78/248, train\_loss: 0.1152, step time: 1.0215  
Batch 79/248, train\_loss: 0.1257, step time: 1.0139  
Batch 80/248, train\_loss: 0.1945, step time: 1.0173  
Batch 81/248, train\_loss: 0.2032, step time: 1.0188

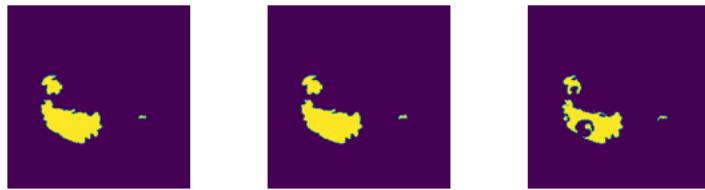
Batch 81/248, train\_loss: 0.2092, step time: 1.0100  
Batch 82/248, train\_loss: 0.0828, step time: 1.0160  
Batch 83/248, train\_loss: 0.6560, step time: 1.0191  
Batch 84/248, train\_loss: 0.2475, step time: 1.0183  
Batch 85/248, train\_loss: 0.3805, step time: 1.0219  
Batch 86/248, train\_loss: 0.4979, step time: 1.0191  
Batch 87/248, train\_loss: 0.5089, step time: 1.0210  
Batch 88/248, train\_loss: 0.3728, step time: 1.0184  
Batch 89/248, train\_loss: 0.1057, step time: 1.0158  
Batch 90/248, train\_loss: 0.5512, step time: 1.0174  
Batch 91/248, train\_loss: 0.4988, step time: 1.0184  
Batch 92/248, train\_loss: 0.2822, step time: 1.0164  
Batch 93/248, train\_loss: 0.1367, step time: 1.0131  
Batch 94/248, train\_loss: 0.3695, step time: 1.0210  
Batch 95/248, train\_loss: 0.1757, step time: 1.0121  
Batch 96/248, train\_loss: 0.1831, step time: 1.0151  
Batch 97/248, train\_loss: 0.4158, step time: 1.0162  
Batch 98/248, train\_loss: 0.1458, step time: 1.0170  
Batch 99/248, train\_loss: 0.3166, step time: 1.0155  
Batch 100/248, train\_loss: 0.2429, step time: 1.0176  
Batch 101/248, train\_loss: 0.0544, step time: 1.0108  
Batch 102/248, train\_loss: 0.1508, step time: 1.0149  
Batch 103/248, train\_loss: 0.4310, step time: 1.0195  
Batch 104/248, train\_loss: 0.3849, step time: 1.0173  
Batch 105/248, train\_loss: 0.0779, step time: 1.0204  
Batch 106/248, train\_loss: 0.2527, step time: 1.0167  
Batch 107/248, train\_loss: 0.2344, step time: 1.0207  
Batch 108/248, train\_loss: 0.4876, step time: 1.0176  
Batch 109/248, train\_loss: 0.9215, step time: 1.0170  
Batch 110/248, train\_loss: 0.2680, step time: 1.0186  
Batch 111/248, train\_loss: 0.1146, step time: 1.0156  
Batch 112/248, train\_loss: 0.1068, step time: 1.0154  
Batch 113/248, train\_loss: 0.9068, step time: 1.0154  
Batch 114/248, train\_loss: 0.1373, step time: 1.0130  
Batch 115/248, train\_loss: 0.1574, step time: 1.0158  
Batch 116/248, train\_loss: 0.0891, step time: 1.0158  
Batch 117/248, train\_loss: 0.8005, step time: 1.0206  
Batch 118/248, train\_loss: 0.7601, step time: 1.0190  
Batch 119/248, train\_loss: 0.3658, step time: 1.0181  
Batch 120/248, train\_loss: 0.2264, step time: 1.0158  
Batch 121/248, train\_loss: 0.3207, step time: 1.0160  
Batch 122/248, train\_loss: 0.3732, step time: 1.0180  
Batch 123/248, train\_loss: 0.0795, step time: 1.0161  
Batch 124/248, train\_loss: 0.3659, step time: 1.0210  
Batch 125/248, train\_loss: 0.6759, step time: 1.0207  
Batch 126/248, train\_loss: 0.2197, step time: 1.0151  
Batch 127/248, train\_loss: 0.0975, step time: 1.0157  
Batch 128/248, train\_loss: 0.2996, step time: 1.0202  
Batch 129/248, train\_loss: 0.1400, step time: 1.0190  
Batch 130/248, train\_loss: 0.1072, step time: 1.0170  
Batch 131/248, train\_loss: 0.5812, step time: 1.0165  
Batch 132/248, train\_loss: 0.4423, step time: 1.0173  
Batch 133/248, train\_loss: 0.1760, step time: 1.0165  
Batch 134/248, train\_loss: 0.8001, step time: 1.0176  
Batch 135/248, train\_loss: 0.4809, step time: 1.0187  
Batch 136/248, train\_loss: 0.1156, step time: 1.0168  
Batch 137/248, train\_loss: 0.1186, step time: 1.0167  
Batch 138/248, train\_loss: 0.0680, step time: 1.0145  
Batch 139/248, train\_loss: 0.1668, step time: 1.0171  
Batch 140/248, train\_loss: 0.1879, step time: 1.0178  
Batch 141/248, train\_loss: 0.3369, step time: 1.0168  
Batch 142/248, train\_loss: 0.4649, step time: 1.0183  
Batch 143/248, train\_loss: 0.2370, step time: 1.0198  
Batch 144/248, train\_loss: 0.1403, step time: 1.0147  
Batch 145/248, train\_loss: 0.0477, step time: 1.0097  
Batch 146/248, train\_loss: 0.8818, step time: 1.0189  
Batch 147/248, train\_loss: 0.0522, step time: 1.0162  
Batch 148/248, train\_loss: 0.7978, step time: 1.0184  
Batch 149/248, train\_loss: 0.1120, step time: 1.0185  
Batch 150/248, train\_loss: 0.6410, step time: 1.0162  
Batch 151/248, train\_loss: 0.3956, step time: 1.0156  
Batch 152/248, train\_loss: 0.0434, step time: 1.0104  
Batch 153/248, train\_loss: 0.2940, step time: 1.0177  
Batch 154/248, train\_loss: 0.6191, step time: 1.0182  
Batch 155/248, train\_loss: 0.1911, step time: 1.0190  
Batch 156/248, train\_loss: 0.1796, step time: 1.0188  
Batch 157/248, train\_loss: 0.2282, step time: 1.0184  
Batch 158/248, train\_loss: 0.9938, step time: 1.0121  
Batch 159/248, train\_loss: 0.6568, step time: 1.0226  
Batch 160/248, train\_loss: 0.1085, step time: 1.0272  
Batch 161/248, train\_loss: 0.0872, step time: 1.0184  
Batch 162/248, train\_loss: 0.0999, step time: 1.0206  
Batch 163/248, train\_loss: 0.1443, step time: 1.0187  
Batch 164/248, train\_loss: 0.2713, step time: 1.0184  
Batch 165/248, train\_loss: 0.6967, step time: 1.0193  
...  
...

Batch 165/248, train\_loss: 0.3558, step time: 1.0201  
Batch 167/248, train\_loss: 0.2020, step time: 1.0174  
Batch 168/248, train\_loss: 0.1673, step time: 1.0167  
Batch 169/248, train\_loss: 0.0881, step time: 1.0162  
Batch 170/248, train\_loss: 0.7628, step time: 1.0175  
Batch 171/248, train\_loss: 0.0890, step time: 1.0163  
Batch 172/248, train\_loss: 0.4701, step time: 1.0142  
Batch 173/248, train\_loss: 0.0920, step time: 1.0142  
Batch 174/248, train\_loss: 0.9654, step time: 1.0157  
Batch 175/248, train\_loss: 0.1559, step time: 1.0153  
Batch 176/248, train\_loss: 0.3440, step time: 1.0187  
Batch 177/248, train\_loss: 0.2888, step time: 1.0179  
Batch 178/248, train\_loss: 0.2878, step time: 1.0196  
Batch 179/248, train\_loss: 0.0868, step time: 1.0134  
Batch 180/248, train\_loss: 0.3582, step time: 1.0173  
Batch 181/248, train\_loss: 0.1153, step time: 1.0175  
Batch 182/248, train\_loss: 0.9117, step time: 1.0159  
Batch 183/248, train\_loss: 0.2219, step time: 1.0218  
Batch 184/248, train\_loss: 0.3340, step time: 1.0204  
Batch 185/248, train\_loss: 0.0849, step time: 1.0203  
Batch 186/248, train\_loss: 0.0872, step time: 1.0169  
Batch 187/248, train\_loss: 0.1667, step time: 1.0180  
Batch 188/248, train\_loss: 0.2892, step time: 1.0172  
Batch 189/248, train\_loss: 0.7124, step time: 1.0182  
Batch 190/248, train\_loss: 0.1266, step time: 1.0138  
Batch 191/248, train\_loss: 0.6283, step time: 1.0166  
Batch 192/248, train\_loss: 0.2980, step time: 1.0149  
Batch 193/248, train\_loss: 0.3306, step time: 1.0155  
Batch 194/248, train\_loss: 0.0763, step time: 1.0136  
Batch 195/248, train\_loss: 0.7649, step time: 1.0206  
Batch 196/248, train\_loss: 0.9995, step time: 1.0132  
Batch 197/248, train\_loss: 0.2132, step time: 1.0174  
Batch 198/248, train\_loss: 0.5250, step time: 1.0199  
Batch 199/248, train\_loss: 0.1180, step time: 1.0152  
Batch 200/248, train\_loss: 0.1219, step time: 1.0161  
Batch 201/248, train\_loss: 0.1240, step time: 1.0138  
Batch 202/248, train\_loss: 0.3219, step time: 1.0190  
Batch 203/248, train\_loss: 0.7125, step time: 1.0202  
Batch 204/248, train\_loss: 0.1163, step time: 1.0154  
Batch 205/248, train\_loss: 0.2404, step time: 1.0190  
Batch 206/248, train\_loss: 0.5314, step time: 1.0199  
Batch 207/248, train\_loss: 0.0864, step time: 1.0162  
Batch 208/248, train\_loss: 0.2151, step time: 1.0133  
Batch 209/248, train\_loss: 0.1608, step time: 1.0168  
Batch 210/248, train\_loss: 0.0578, step time: 1.0131  
Batch 211/248, train\_loss: 0.0658, step time: 1.0108  
Batch 212/248, train\_loss: 0.3486, step time: 1.0175  
Batch 213/248, train\_loss: 0.1833, step time: 1.0170  
Batch 214/248, train\_loss: 0.0842, step time: 1.0162  
Batch 215/248, train\_loss: 0.1661, step time: 1.0152  
Batch 216/248, train\_loss: 0.1873, step time: 1.0157  
Batch 217/248, train\_loss: 0.2594, step time: 1.0156  
Batch 218/248, train\_loss: 0.8076, step time: 1.0206  
Batch 219/248, train\_loss: 0.0626, step time: 1.0163  
Batch 220/248, train\_loss: 0.2378, step time: 1.0187  
Batch 221/248, train\_loss: 0.2926, step time: 1.0186  
Batch 222/248, train\_loss: 0.2322, step time: 1.0188  
Batch 223/248, train\_loss: 0.0400, step time: 1.0121  
Batch 224/248, train\_loss: 0.0815, step time: 1.0164  
Batch 225/248, train\_loss: 0.2854, step time: 1.0174  
Batch 226/248, train\_loss: 0.1938, step time: 1.0155  
Batch 227/248, train\_loss: 0.0837, step time: 1.0163  
Batch 228/248, train\_loss: 0.1415, step time: 1.0121  
Batch 229/248, train\_loss: 0.0989, step time: 1.0134  
Batch 230/248, train\_loss: 0.0660, step time: 1.0139  
Batch 231/248, train\_loss: 0.7141, step time: 1.0187  
Batch 232/248, train\_loss: 0.0713, step time: 1.0141  
Batch 233/248, train\_loss: 0.8025, step time: 1.0190  
Batch 234/248, train\_loss: 0.4892, step time: 1.0191  
Batch 235/248, train\_loss: 0.5258, step time: 1.0204  
Batch 236/248, train\_loss: 0.7358, step time: 1.0193  
Batch 237/248, train\_loss: 0.1031, step time: 1.0181  
Batch 238/248, train\_loss: 0.1215, step time: 1.0161  
Batch 239/248, train\_loss: 0.0628, step time: 1.0131  
Batch 240/248, train\_loss: 0.2689, step time: 1.0202  
Batch 241/248, train\_loss: 0.5836, step time: 1.0211  
Batch 242/248, train\_loss: 0.2515, step time: 1.0215  
Batch 243/248, train\_loss: 0.5500, step time: 1.0220  
Batch 244/248, train\_loss: 0.5236, step time: 1.0195  
Batch 245/248, train\_loss: 0.0641, step time: 1.0202  
Batch 246/248, train\_loss: 0.5334, step time: 1.0212  
Batch 247/248, train\_loss: 0.0917, step time: 1.0142  
Batch 248/248, train\_loss: 0.9998, step time: 1.0123

Labels



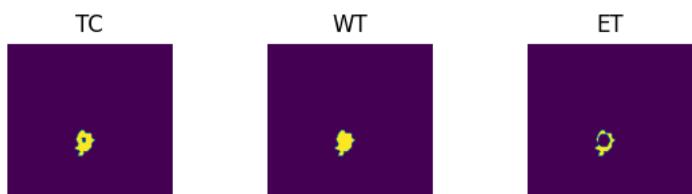
Predictions



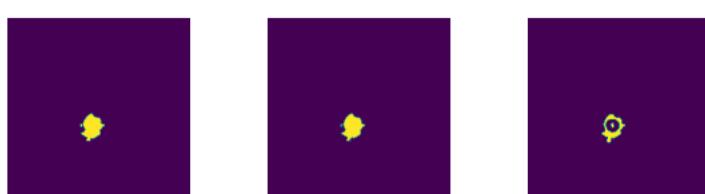
VAL

```
Batch 1/31, val_loss: 0.9532
Batch 2/31, val_loss: 0.9934
Batch 3/31, val_loss: 0.9638
Batch 4/31, val_loss: 0.9419
Batch 5/31, val_loss: 0.9935
Batch 6/31, val_loss: 0.7065
Batch 7/31, val_loss: 0.8345
Batch 8/31, val_loss: 0.9614
Batch 9/31, val_loss: 0.6907
Batch 10/31, val_loss: 0.9111
Batch 11/31, val_loss: 0.8212
Batch 12/31, val_loss: 0.9755
Batch 13/31, val_loss: 0.9910
Batch 14/31, val_loss: 0.9456
Batch 15/31, val_loss: 0.9923
Batch 16/31, val_loss: 0.9739
Batch 17/31, val_loss: 0.9731
Batch 18/31, val_loss: 0.9361
Batch 19/31, val_loss: 0.7456
Batch 20/31, val_loss: 0.8850
Batch 21/31, val_loss: 0.8683
Batch 22/31, val_loss: 0.9712
Batch 23/31, val_loss: 0.9766
Batch 24/31, val_loss: 0.7527
Batch 25/31, val_loss: 0.8056
Batch 26/31, val_loss: 0.9171
Batch 27/31, val_loss: 0.9732
Batch 28/31, val_loss: 0.7492
Batch 29/31, val_loss: 0.9828
Batch 30/31, val_loss: 0.9570
Batch 31/31, val_loss: 0.9836
```

Labels



Predictions



epoch 57

```
average train loss: 0.3090
average validation loss: 0.9073
saved as best model: False
current mean dice: 0.4914
current TC dice: 0.5161
current WT dice: 0.5203
current ET dice: 0.4813
Port Mean Metric: 0.5060
```

BEST MEAN METRIC: 0.5000  
time consuming of epoch 57 is: 1572.4320

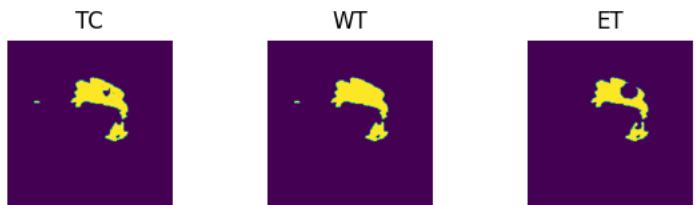
-----  
epoch 58/100  
TRAIN

Batch 1/248, train\_loss: 0.0800, step time: 1.0167  
Batch 2/248, train\_loss: 0.7239, step time: 1.0179  
Batch 3/248, train\_loss: 0.2689, step time: 1.0152  
Batch 4/248, train\_loss: 0.9226, step time: 1.0140  
Batch 5/248, train\_loss: 0.2186, step time: 1.0125  
Batch 6/248, train\_loss: 0.4505, step time: 1.0180  
Batch 7/248, train\_loss: 0.0620, step time: 1.0137  
Batch 8/248, train\_loss: 0.7243, step time: 1.0135  
Batch 9/248, train\_loss: 0.0484, step time: 1.0166  
Batch 10/248, train\_loss: 0.2362, step time: 1.0162  
Batch 11/248, train\_loss: 0.2419, step time: 1.0169  
Batch 12/248, train\_loss: 0.5180, step time: 1.0205  
Batch 13/248, train\_loss: 0.3006, step time: 1.0197  
Batch 14/248, train\_loss: 0.0534, step time: 1.0155  
Batch 15/248, train\_loss: 0.3170, step time: 1.0168  
Batch 16/248, train\_loss: 0.1368, step time: 1.0172  
Batch 17/248, train\_loss: 0.2739, step time: 1.0188  
Batch 18/248, train\_loss: 0.4944, step time: 1.0175  
Batch 19/248, train\_loss: 0.1084, step time: 1.0163  
Batch 20/248, train\_loss: 0.1678, step time: 1.0172  
Batch 21/248, train\_loss: 0.0641, step time: 1.0143  
Batch 22/248, train\_loss: 0.8504, step time: 1.0192  
Batch 23/248, train\_loss: 0.9939, step time: 1.0113  
Batch 24/248, train\_loss: 0.0888, step time: 1.0142  
Batch 25/248, train\_loss: 0.0687, step time: 1.0151  
Batch 26/248, train\_loss: 0.4210, step time: 1.0179  
Batch 27/248, train\_loss: 0.0638, step time: 1.0124  
Batch 28/248, train\_loss: 0.1480, step time: 1.0180  
Batch 29/248, train\_loss: 0.3383, step time: 1.0200  
Batch 30/248, train\_loss: 0.5478, step time: 1.0187  
Batch 31/248, train\_loss: 0.2648, step time: 1.0182  
Batch 32/248, train\_loss: 0.0770, step time: 1.0163  
Batch 33/248, train\_loss: 0.0853, step time: 1.0167  
Batch 34/248, train\_loss: 0.0440, step time: 1.0137  
Batch 35/248, train\_loss: 0.0425, step time: 1.0154  
Batch 36/248, train\_loss: 0.3998, step time: 1.0169  
Batch 37/248, train\_loss: 0.1444, step time: 1.0148  
Batch 38/248, train\_loss: 0.2690, step time: 1.0175  
Batch 39/248, train\_loss: 0.2010, step time: 1.0171  
Batch 40/248, train\_loss: 0.8553, step time: 1.0206  
Batch 41/248, train\_loss: 0.3531, step time: 1.0172  
Batch 42/248, train\_loss: 0.0703, step time: 1.0187  
Batch 43/248, train\_loss: 0.0477, step time: 1.0120  
Batch 44/248, train\_loss: 0.1874, step time: 1.0142  
Batch 45/248, train\_loss: 0.3865, step time: 1.0175  
Batch 46/248, train\_loss: 0.1519, step time: 1.0168  
Batch 47/248, train\_loss: 0.0691, step time: 1.0166  
Batch 48/248, train\_loss: 0.2547, step time: 1.0171  
Batch 49/248, train\_loss: 0.4861, step time: 1.0184  
Batch 50/248, train\_loss: 0.1359, step time: 1.0151  
Batch 51/248, train\_loss: 0.1386, step time: 1.0155  
Batch 52/248, train\_loss: 0.0952, step time: 1.0170  
Batch 53/248, train\_loss: 0.3737, step time: 1.0166  
Batch 54/248, train\_loss: 0.2421, step time: 1.0191  
Batch 55/248, train\_loss: 0.3488, step time: 1.0187  
Batch 56/248, train\_loss: 0.1900, step time: 1.0168  
Batch 57/248, train\_loss: 0.2777, step time: 1.0195  
Batch 58/248, train\_loss: 0.0792, step time: 1.0146  
Batch 59/248, train\_loss: 0.0764, step time: 1.0116  
Batch 60/248, train\_loss: 0.0514, step time: 1.0171  
Batch 61/248, train\_loss: 0.1009, step time: 1.0144  
Batch 62/248, train\_loss: 0.2378, step time: 1.0195  
Batch 63/248, train\_loss: 0.5324, step time: 1.0187  
Batch 64/248, train\_loss: 0.3888, step time: 1.0188  
Batch 65/248, train\_loss: 0.4322, step time: 1.0174  
Batch 66/248, train\_loss: 0.1388, step time: 1.0178  
Batch 67/248, train\_loss: 0.0716, step time: 1.0147  
Batch 68/248, train\_loss: 0.1679, step time: 1.0161  
Batch 69/248, train\_loss: 0.4971, step time: 1.0197  
Batch 70/248, train\_loss: 0.1200, step time: 1.0155  
Batch 71/248, train\_loss: 0.1417, step time: 1.0125  
Batch 72/248, train\_loss: 0.0715, step time: 1.0137  
Batch 73/248, train\_loss: 0.2347, step time: 1.0145  
Batch 74/248, train\_loss: 0.9977, step time: 1.0153  
Batch 75/248, train\_loss: 0.1181, step time: 1.0131  
Batch 76/248, train\_loss: 0.6117, step time: 1.0176  
Batch 77/248, train\_loss: 0.8094, step time: 1.0192  
Batch 78/248, train\_loss: 0.1204, step time: 1.0180  
Batch 79/248, train\_loss: 0.1203, step time: 1.0145  
Batch 80/248, train\_loss: 0.2340, step time: 1.0177

Batch 81/248, train\_loss: 0.2080, step time: 1.0189  
Batch 82/248, train\_loss: 0.0839, step time: 1.0163  
Batch 83/248, train\_loss: 0.4892, step time: 1.0176  
Batch 84/248, train\_loss: 0.2610, step time: 1.0152  
Batch 85/248, train\_loss: 0.3382, step time: 1.0159  
Batch 86/248, train\_loss: 0.1939, step time: 1.0171  
Batch 87/248, train\_loss: 0.4633, step time: 1.0149  
Batch 88/248, train\_loss: 0.3219, step time: 1.0162  
Batch 89/248, train\_loss: 0.0966, step time: 1.0180  
Batch 90/248, train\_loss: 0.2881, step time: 1.0159  
Batch 91/248, train\_loss: 0.3974, step time: 1.0198  
Batch 92/248, train\_loss: 0.3070, step time: 1.0187  
Batch 93/248, train\_loss: 0.1449, step time: 1.0176  
Batch 94/248, train\_loss: 0.3090, step time: 1.0217  
Batch 95/248, train\_loss: 0.1768, step time: 1.0147  
Batch 96/248, train\_loss: 0.1860, step time: 1.0181  
Batch 97/248, train\_loss: 0.4282, step time: 1.0197  
Batch 98/248, train\_loss: 0.1211, step time: 1.0180  
Batch 99/248, train\_loss: 0.3404, step time: 1.0190  
Batch 100/248, train\_loss: 0.2983, step time: 1.0198  
Batch 101/248, train\_loss: 0.0535, step time: 1.0148  
Batch 102/248, train\_loss: 0.1068, step time: 1.0152  
Batch 103/248, train\_loss: 0.6755, step time: 1.0144  
Batch 104/248, train\_loss: 0.3182, step time: 1.0163  
Batch 105/248, train\_loss: 0.0890, step time: 1.0147  
Batch 106/248, train\_loss: 0.1093, step time: 1.0161  
Batch 107/248, train\_loss: 0.2044, step time: 1.0189  
Batch 108/248, train\_loss: 0.4648, step time: 1.0197  
Batch 109/248, train\_loss: 0.8946, step time: 1.0186  
Batch 110/248, train\_loss: 0.2345, step time: 1.0192  
Batch 111/248, train\_loss: 0.1233, step time: 1.0176  
Batch 112/248, train\_loss: 0.1479, step time: 1.0176  
Batch 113/248, train\_loss: 0.8560, step time: 1.0211  
Batch 114/248, train\_loss: 0.1521, step time: 1.0175  
Batch 115/248, train\_loss: 0.2315, step time: 1.0206  
Batch 116/248, train\_loss: 0.0810, step time: 1.0151  
Batch 117/248, train\_loss: 0.5330, step time: 1.0188  
Batch 118/248, train\_loss: 0.5645, step time: 1.0183  
Batch 119/248, train\_loss: 0.3483, step time: 1.0150  
Batch 120/248, train\_loss: 0.2384, step time: 1.0138  
Batch 121/248, train\_loss: 0.3100, step time: 1.0173  
Batch 122/248, train\_loss: 0.4063, step time: 1.0161  
Batch 123/248, train\_loss: 0.1064, step time: 1.0175  
Batch 124/248, train\_loss: 0.3007, step time: 1.0179  
Batch 125/248, train\_loss: 0.7268, step time: 1.0227  
Batch 126/248, train\_loss: 0.2115, step time: 1.0154  
Batch 127/248, train\_loss: 0.1088, step time: 1.0206  
Batch 128/248, train\_loss: 0.4363, step time: 1.0195  
Batch 129/248, train\_loss: 0.1273, step time: 1.0162  
Batch 130/248, train\_loss: 0.0888, step time: 1.0152  
Batch 131/248, train\_loss: 0.5123, step time: 1.0185  
Batch 132/248, train\_loss: 0.4131, step time: 1.0186  
Batch 133/248, train\_loss: 0.1378, step time: 1.0162  
Batch 134/248, train\_loss: 0.8429, step time: 1.0212  
Batch 135/248, train\_loss: 0.2312, step time: 1.0191  
Batch 136/248, train\_loss: 0.1135, step time: 1.0128  
Batch 137/248, train\_loss: 0.1160, step time: 1.0136  
Batch 138/248, train\_loss: 0.0643, step time: 1.0112  
Batch 139/248, train\_loss: 0.2456, step time: 1.0178  
Batch 140/248, train\_loss: 0.2878, step time: 1.0179  
Batch 141/248, train\_loss: 0.2538, step time: 1.0163  
Batch 142/248, train\_loss: 0.6384, step time: 1.0160  
Batch 143/248, train\_loss: 0.2524, step time: 1.0161  
Batch 144/248, train\_loss: 0.1216, step time: 1.0129  
Batch 145/248, train\_loss: 0.0559, step time: 1.0141  
Batch 146/248, train\_loss: 0.9102, step time: 1.0172  
Batch 147/248, train\_loss: 0.0373, step time: 1.0137  
Batch 148/248, train\_loss: 0.7255, step time: 1.0263  
Batch 149/248, train\_loss: 0.1134, step time: 1.0166  
Batch 150/248, train\_loss: 0.6738, step time: 1.0173  
Batch 151/248, train\_loss: 0.3925, step time: 1.0157  
Batch 152/248, train\_loss: 0.0394, step time: 1.0099  
Batch 153/248, train\_loss: 0.3977, step time: 1.0188  
Batch 154/248, train\_loss: 0.6938, step time: 1.0190  
Batch 155/248, train\_loss: 0.1397, step time: 1.0185  
Batch 156/248, train\_loss: 0.1679, step time: 1.0194  
Batch 157/248, train\_loss: 0.2258, step time: 1.0182  
Batch 158/248, train\_loss: 0.9887, step time: 1.0155  
Batch 159/248, train\_loss: 0.2781, step time: 1.0200  
Batch 160/248, train\_loss: 0.0935, step time: 1.0149  
Batch 161/248, train\_loss: 0.0825, step time: 1.0183  
Batch 162/248, train\_loss: 0.1013, step time: 1.0175  
Batch 163/248, train\_loss: 0.1366, step time: 1.0183  
Batch 164/248, train\_loss: 0.2529, step time: 1.0162  
Batch 165/248, train\_loss: 0.6502, step time: 1.0161

Batch 166/248, train\_loss: 0.1027, step time: 1.0166  
Batch 167/248, train\_loss: 0.1856, step time: 1.0155  
Batch 168/248, train\_loss: 0.1989, step time: 1.0176  
Batch 169/248, train\_loss: 0.0822, step time: 1.0175  
Batch 170/248, train\_loss: 0.6834, step time: 1.0145  
Batch 171/248, train\_loss: 0.0945, step time: 1.0140  
Batch 172/248, train\_loss: 0.3862, step time: 1.0188  
Batch 173/248, train\_loss: 0.0768, step time: 1.0138  
Batch 174/248, train\_loss: 0.5605, step time: 1.0180  
Batch 175/248, train\_loss: 0.1630, step time: 1.0163  
Batch 176/248, train\_loss: 0.3367, step time: 1.0154  
Batch 177/248, train\_loss: 0.2757, step time: 1.0198  
Batch 178/248, train\_loss: 0.2777, step time: 1.0195  
Batch 179/248, train\_loss: 0.0866, step time: 1.0133  
Batch 180/248, train\_loss: 0.3909, step time: 1.0193  
Batch 181/248, train\_loss: 0.1023, step time: 1.0151  
Batch 182/248, train\_loss: 0.9756, step time: 1.0173  
Batch 183/248, train\_loss: 0.2333, step time: 1.0170  
Batch 184/248, train\_loss: 0.4007, step time: 1.0208  
Batch 185/248, train\_loss: 0.1051, step time: 1.0167  
Batch 186/248, train\_loss: 0.1434, step time: 1.0140  
Batch 187/248, train\_loss: 0.1779, step time: 1.0132  
Batch 188/248, train\_loss: 0.2814, step time: 1.0151  
Batch 189/248, train\_loss: 0.5335, step time: 1.0175  
Batch 190/248, train\_loss: 0.1433, step time: 1.0143  
Batch 191/248, train\_loss: 0.5892, step time: 1.0155  
Batch 192/248, train\_loss: 0.2646, step time: 1.0162  
Batch 193/248, train\_loss: 0.2995, step time: 1.0172  
Batch 194/248, train\_loss: 0.0819, step time: 1.0198  
Batch 195/248, train\_loss: 0.6485, step time: 1.0173  
Batch 196/248, train\_loss: 0.9996, step time: 1.0094  
Batch 197/248, train\_loss: 0.1877, step time: 1.0176  
Batch 198/248, train\_loss: 0.7729, step time: 1.0180  
Batch 199/248, train\_loss: 0.1107, step time: 1.0158  
Batch 200/248, train\_loss: 0.1180, step time: 1.0131  
Batch 201/248, train\_loss: 0.1227, step time: 1.0159  
Batch 202/248, train\_loss: 0.3754, step time: 1.0170  
Batch 203/248, train\_loss: 0.5043, step time: 1.0189  
Batch 204/248, train\_loss: 0.0770, step time: 1.0152  
Batch 205/248, train\_loss: 0.2307, step time: 1.0148  
Batch 206/248, train\_loss: 0.3333, step time: 1.0238  
Batch 207/248, train\_loss: 0.0879, step time: 1.0151  
Batch 208/248, train\_loss: 0.2389, step time: 1.0175  
Batch 209/248, train\_loss: 0.1671, step time: 1.0159  
Batch 210/248, train\_loss: 0.0632, step time: 1.0131  
Batch 211/248, train\_loss: 0.0580, step time: 1.0155  
Batch 212/248, train\_loss: 0.2584, step time: 1.0186  
Batch 213/248, train\_loss: 0.1725, step time: 1.0187  
Batch 214/248, train\_loss: 0.0681, step time: 1.0147  
Batch 215/248, train\_loss: 0.1781, step time: 1.0156  
Batch 216/248, train\_loss: 0.1437, step time: 1.0183  
Batch 217/248, train\_loss: 0.2623, step time: 1.0180  
Batch 218/248, train\_loss: 0.7754, step time: 1.0192  
Batch 219/248, train\_loss: 0.0636, step time: 1.0140  
Batch 220/248, train\_loss: 0.2060, step time: 1.0189  
Batch 221/248, train\_loss: 0.2803, step time: 1.0170  
Batch 222/248, train\_loss: 0.1966, step time: 1.0156  
Batch 223/248, train\_loss: 0.0401, step time: 1.0126  
Batch 224/248, train\_loss: 0.0840, step time: 1.0141  
Batch 225/248, train\_loss: 0.2706, step time: 1.0139  
Batch 226/248, train\_loss: 0.1585, step time: 1.0155  
Batch 227/248, train\_loss: 0.0820, step time: 1.0162  
Batch 228/248, train\_loss: 0.1636, step time: 1.0141  
Batch 229/248, train\_loss: 0.0992, step time: 1.0155  
Batch 230/248, train\_loss: 0.0702, step time: 1.0168  
Batch 231/248, train\_loss: 0.3048, step time: 1.0216  
Batch 232/248, train\_loss: 0.0704, step time: 1.0160  
Batch 233/248, train\_loss: 0.8637, step time: 1.0188  
Batch 234/248, train\_loss: 0.5043, step time: 1.0194  
Batch 235/248, train\_loss: 0.4775, step time: 1.0262  
Batch 236/248, train\_loss: 0.7364, step time: 1.0182  
Batch 237/248, train\_loss: 0.0996, step time: 1.0185  
Batch 238/248, train\_loss: 0.1058, step time: 1.0175  
Batch 239/248, train\_loss: 0.0694, step time: 1.0162  
Batch 240/248, train\_loss: 0.3346, step time: 1.0197  
Batch 241/248, train\_loss: 0.5733, step time: 1.0200  
Batch 242/248, train\_loss: 0.1346, step time: 1.0148  
Batch 243/248, train\_loss: 0.5810, step time: 1.0181  
Batch 244/248, train\_loss: 0.4364, step time: 1.0164  
Batch 245/248, train\_loss: 0.0708, step time: 1.0137  
Batch 246/248, train\_loss: 0.5814, step time: 1.0172  
Batch 247/248, train\_loss: 0.0860, step time: 1.0161  
Batch 248/248, train\_loss: 0.9996, step time: 1.0105

Labels



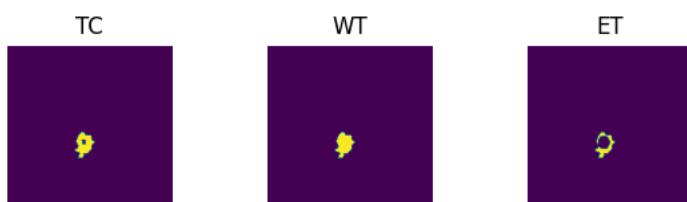
Predictions



VAL

```
Batch 1/31, val_loss: 0.9499
Batch 2/31, val_loss: 0.9914
Batch 3/31, val_loss: 0.9644
Batch 4/31, val_loss: 0.9405
Batch 5/31, val_loss: 0.9935
Batch 6/31, val_loss: 0.6994
Batch 7/31, val_loss: 0.8297
Batch 8/31, val_loss: 0.9648
Batch 9/31, val_loss: 0.6920
Batch 10/31, val_loss: 0.9100
Batch 11/31, val_loss: 0.8233
Batch 12/31, val_loss: 0.9727
Batch 13/31, val_loss: 0.9847
Batch 14/31, val_loss: 0.9452
Batch 15/31, val_loss: 0.9921
Batch 16/31, val_loss: 0.9737
Batch 17/31, val_loss: 0.9752
Batch 18/31, val_loss: 0.9367
Batch 19/31, val_loss: 0.7408
Batch 20/31, val_loss: 0.8841
Batch 21/31, val_loss: 0.8642
Batch 22/31, val_loss: 0.9696
Batch 23/31, val_loss: 0.9770
Batch 24/31, val_loss: 0.7577
Batch 25/31, val_loss: 0.8002
Batch 26/31, val_loss: 0.9153
Batch 27/31, val_loss: 0.9714
Batch 28/31, val_loss: 0.7542
Batch 29/31, val_loss: 0.9815
Batch 30/31, val_loss: 0.9599
Batch 31/31, val_loss: 0.9818
```

Labels



Predictions



epoch 58

```
average train loss: 0.2923
average validation loss: 0.9064
saved as best model: False
current mean dice: 0.4983
current TC dice: 0.5224
current WT dice: 0.5300
current ET dice: 0.4842
```

Best Mean Metric: 0.5060  
time consuming of epoch 58 is: 1587.9095

-----  
epoch 59/100

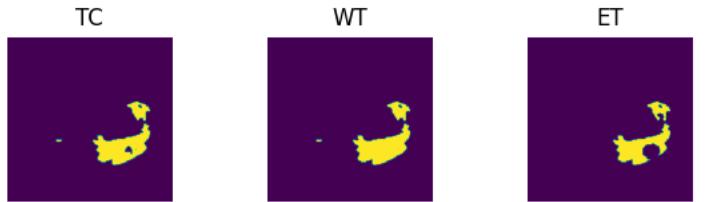
TRAIN

Batch 1/248, train\_loss: 0.0829, step time: 1.0132  
Batch 2/248, train\_loss: 0.6721, step time: 1.0171  
Batch 3/248, train\_loss: 0.2910, step time: 1.0165  
Batch 4/248, train\_loss: 0.8533, step time: 1.0147  
Batch 5/248, train\_loss: 0.2331, step time: 1.0173  
Batch 6/248, train\_loss: 0.4473, step time: 1.0184  
Batch 7/248, train\_loss: 0.0670, step time: 1.0186  
Batch 8/248, train\_loss: 0.7227, step time: 1.0154  
Batch 9/248, train\_loss: 0.0415, step time: 1.0146  
Batch 10/248, train\_loss: 0.2127, step time: 1.0173  
Batch 11/248, train\_loss: 0.1832, step time: 1.0204  
Batch 12/248, train\_loss: 0.4246, step time: 1.0203  
Batch 13/248, train\_loss: 0.3637, step time: 1.0218  
Batch 14/248, train\_loss: 0.0563, step time: 1.0128  
Batch 15/248, train\_loss: 0.3022, step time: 1.0134  
Batch 16/248, train\_loss: 0.1264, step time: 1.0145  
Batch 17/248, train\_loss: 0.3393, step time: 1.0183  
Batch 18/248, train\_loss: 0.3564, step time: 1.0171  
Batch 19/248, train\_loss: 0.0861, step time: 1.0137  
Batch 20/248, train\_loss: 0.1770, step time: 1.0162  
Batch 21/248, train\_loss: 0.0684, step time: 1.0107  
Batch 22/248, train\_loss: 0.9763, step time: 1.0163  
Batch 23/248, train\_loss: 0.9954, step time: 1.0136  
Batch 24/248, train\_loss: 0.0811, step time: 1.0118  
Batch 25/248, train\_loss: 0.0586, step time: 1.0142  
Batch 26/248, train\_loss: 0.4204, step time: 1.0170  
Batch 27/248, train\_loss: 0.0700, step time: 1.0137  
Batch 28/248, train\_loss: 0.1572, step time: 1.0166  
Batch 29/248, train\_loss: 0.4351, step time: 1.0206  
Batch 30/248, train\_loss: 0.2158, step time: 1.0184  
Batch 31/248, train\_loss: 0.2867, step time: 1.0168  
Batch 32/248, train\_loss: 0.0817, step time: 1.0169  
Batch 33/248, train\_loss: 0.0697, step time: 1.0166  
Batch 34/248, train\_loss: 0.0455, step time: 1.0142  
Batch 35/248, train\_loss: 0.0395, step time: 1.0135  
Batch 36/248, train\_loss: 0.4160, step time: 1.0182  
Batch 37/248, train\_loss: 0.1765, step time: 1.0157  
Batch 38/248, train\_loss: 0.2817, step time: 1.0165  
Batch 39/248, train\_loss: 0.1780, step time: 1.0168  
Batch 40/248, train\_loss: 0.5626, step time: 1.0171  
Batch 41/248, train\_loss: 0.2295, step time: 1.0172  
Batch 42/248, train\_loss: 0.0718, step time: 1.0148  
Batch 43/248, train\_loss: 0.0495, step time: 1.0108  
Batch 44/248, train\_loss: 0.5715, step time: 1.0166  
Batch 45/248, train\_loss: 0.3827, step time: 1.0183  
Batch 46/248, train\_loss: 0.1551, step time: 1.0173  
Batch 47/248, train\_loss: 0.0691, step time: 1.0167  
Batch 48/248, train\_loss: 0.2530, step time: 1.0229  
Batch 49/248, train\_loss: 0.5482, step time: 1.0188  
Batch 50/248, train\_loss: 0.1515, step time: 1.0177  
Batch 51/248, train\_loss: 0.1603, step time: 1.0195  
Batch 52/248, train\_loss: 0.1068, step time: 1.0192  
Batch 53/248, train\_loss: 0.3928, step time: 1.0186  
Batch 54/248, train\_loss: 0.2342, step time: 1.0201  
Batch 55/248, train\_loss: 0.3275, step time: 1.0175  
Batch 56/248, train\_loss: 0.2362, step time: 1.0196  
Batch 57/248, train\_loss: 0.3252, step time: 1.0170  
Batch 58/248, train\_loss: 0.0759, step time: 1.0138  
Batch 59/248, train\_loss: 0.0847, step time: 1.0127  
Batch 60/248, train\_loss: 0.0513, step time: 1.0137  
Batch 61/248, train\_loss: 0.0949, step time: 1.0167  
Batch 62/248, train\_loss: 0.2039, step time: 1.0139  
Batch 63/248, train\_loss: 0.6556, step time: 1.0177  
Batch 64/248, train\_loss: 0.3825, step time: 1.0180  
Batch 65/248, train\_loss: 0.2720, step time: 1.0145  
Batch 66/248, train\_loss: 0.1305, step time: 1.0184  
Batch 67/248, train\_loss: 0.0676, step time: 1.0154  
Batch 68/248, train\_loss: 0.1591, step time: 1.0163  
Batch 69/248, train\_loss: 0.4214, step time: 1.0210  
Batch 70/248, train\_loss: 0.1311, step time: 1.0183  
Batch 71/248, train\_loss: 0.1709, step time: 1.0199  
Batch 72/248, train\_loss: 0.0658, step time: 1.0203  
Batch 73/248, train\_loss: 0.3115, step time: 1.0170  
Batch 74/248, train\_loss: 0.9954, step time: 1.0138  
Batch 75/248, train\_loss: 0.1343, step time: 1.0178  
Batch 76/248, train\_loss: 0.5947, step time: 1.0191  
Batch 77/248, train\_loss: 0.8213, step time: 1.0157  
Batch 78/248, train\_loss: 0.1449, step time: 1.0155  
Batch 79/248, train\_loss: 0.1146, step time: 1.0175  
Batch 80/248, train\_loss: 0.2160, step time: 1.0157

Batch 81/248, train\_loss: 0.2277, step time: 1.0162  
Batch 82/248, train\_loss: 0.0842, step time: 1.0148  
Batch 83/248, train\_loss: 0.5442, step time: 1.0204  
Batch 84/248, train\_loss: 0.2407, step time: 1.0168  
Batch 85/248, train\_loss: 0.3758, step time: 1.0208  
Batch 86/248, train\_loss: 0.3256, step time: 1.0160  
Batch 87/248, train\_loss: 0.5293, step time: 1.0222  
Batch 88/248, train\_loss: 0.3331, step time: 1.0193  
Batch 89/248, train\_loss: 0.1078, step time: 1.0153  
Batch 90/248, train\_loss: 0.7155, step time: 1.0165  
Batch 91/248, train\_loss: 0.3956, step time: 1.0181  
Batch 92/248, train\_loss: 0.3815, step time: 1.0171  
Batch 93/248, train\_loss: 0.1787, step time: 1.0175  
Batch 94/248, train\_loss: 0.3256, step time: 1.0198  
Batch 95/248, train\_loss: 0.1748, step time: 1.0143  
Batch 96/248, train\_loss: 0.1762, step time: 1.0167  
Batch 97/248, train\_loss: 0.5353, step time: 1.0214  
Batch 98/248, train\_loss: 0.1567, step time: 1.0193  
Batch 99/248, train\_loss: 0.2855, step time: 1.0183  
Batch 100/248, train\_loss: 0.2464, step time: 1.0207  
Batch 101/248, train\_loss: 0.0555, step time: 1.0194  
Batch 102/248, train\_loss: 0.1105, step time: 1.0181  
Batch 103/248, train\_loss: 0.4219, step time: 1.0210  
Batch 104/248, train\_loss: 0.3452, step time: 1.0184  
Batch 105/248, train\_loss: 0.0852, step time: 1.0112  
Batch 106/248, train\_loss: 0.1110, step time: 1.0128  
Batch 107/248, train\_loss: 0.3491, step time: 1.0177  
Batch 108/248, train\_loss: 0.6638, step time: 1.0165  
Batch 109/248, train\_loss: 0.9838, step time: 1.0153  
Batch 110/248, train\_loss: 0.2061, step time: 1.0200  
Batch 111/248, train\_loss: 0.1106, step time: 1.0163  
Batch 112/248, train\_loss: 0.1834, step time: 1.0179  
Batch 113/248, train\_loss: 0.8156, step time: 1.0185  
Batch 114/248, train\_loss: 0.2062, step time: 1.0173  
Batch 115/248, train\_loss: 0.1592, step time: 1.0175  
Batch 116/248, train\_loss: 0.0843, step time: 1.0150  
Batch 117/248, train\_loss: 0.8749, step time: 1.0180  
Batch 118/248, train\_loss: 0.6247, step time: 1.0180  
Batch 119/248, train\_loss: 0.3429, step time: 1.0139  
Batch 120/248, train\_loss: 0.2300, step time: 1.0142  
Batch 121/248, train\_loss: 0.3132, step time: 1.0180  
Batch 122/248, train\_loss: 0.3506, step time: 1.0181  
Batch 123/248, train\_loss: 0.0864, step time: 1.0148  
Batch 124/248, train\_loss: 0.5056, step time: 1.0177  
Batch 125/248, train\_loss: 0.6436, step time: 1.0174  
Batch 126/248, train\_loss: 0.1844, step time: 1.0126  
Batch 127/248, train\_loss: 0.1038, step time: 1.0170  
Batch 128/248, train\_loss: 0.2147, step time: 1.0195  
Batch 129/248, train\_loss: 0.1314, step time: 1.0148  
Batch 130/248, train\_loss: 0.0929, step time: 1.0162  
Batch 131/248, train\_loss: 0.5414, step time: 1.0190  
Batch 132/248, train\_loss: 0.4893, step time: 1.0157  
Batch 133/248, train\_loss: 0.1857, step time: 1.0166  
Batch 134/248, train\_loss: 0.8655, step time: 1.0179  
Batch 135/248, train\_loss: 0.3741, step time: 1.0201  
Batch 136/248, train\_loss: 0.1125, step time: 1.0166  
Batch 137/248, train\_loss: 0.1203, step time: 1.0181  
Batch 138/248, train\_loss: 0.0696, step time: 1.0112  
Batch 139/248, train\_loss: 0.1706, step time: 1.0165  
Batch 140/248, train\_loss: 0.1818, step time: 1.0160  
Batch 141/248, train\_loss: 0.2624, step time: 1.0185  
Batch 142/248, train\_loss: 0.5057, step time: 1.0165  
Batch 143/248, train\_loss: 0.2609, step time: 1.0152  
Batch 144/248, train\_loss: 0.1200, step time: 1.0149  
Batch 145/248, train\_loss: 0.0758, step time: 1.0154  
Batch 146/248, train\_loss: 0.9353, step time: 1.0185  
Batch 147/248, train\_loss: 0.0406, step time: 1.0151  
Batch 148/248, train\_loss: 0.7667, step time: 1.0153  
Batch 149/248, train\_loss: 0.1145, step time: 1.0117  
Batch 150/248, train\_loss: 0.6536, step time: 1.0156  
Batch 151/248, train\_loss: 0.3169, step time: 1.0177  
Batch 152/248, train\_loss: 0.0383, step time: 1.0145  
Batch 153/248, train\_loss: 0.2755, step time: 1.0189  
Batch 154/248, train\_loss: 0.7935, step time: 1.0197  
Batch 155/248, train\_loss: 0.1488, step time: 1.0202  
Batch 156/248, train\_loss: 0.1739, step time: 1.0174  
Batch 157/248, train\_loss: 0.2100, step time: 1.0158  
Batch 158/248, train\_loss: 0.9925, step time: 1.0152  
Batch 159/248, train\_loss: 0.3198, step time: 1.0322  
Batch 160/248, train\_loss: 0.0917, step time: 1.0134  
Batch 161/248, train\_loss: 0.0780, step time: 1.0151  
Batch 162/248, train\_loss: 0.0826, step time: 1.0141  
Batch 163/248, train\_loss: 0.1268, step time: 1.0188  
Batch 164/248, train\_loss: 0.2722, step time: 1.0141  
Batch 165/248, train\_loss: 0.7185, step time: 1.0174

Batch 100/248, train\_loss: 0.1000, step time: 1.0171  
Batch 166/248, train\_loss: 0.0768, step time: 1.0128  
Batch 167/248, train\_loss: 0.1724, step time: 1.0133  
Batch 168/248, train\_loss: 0.1597, step time: 1.0165  
Batch 169/248, train\_loss: 0.0900, step time: 1.0164  
Batch 170/248, train\_loss: 0.7400, step time: 1.0186  
Batch 171/248, train\_loss: 0.0854, step time: 1.0142  
Batch 172/248, train\_loss: 0.4873, step time: 1.0167  
Batch 173/248, train\_loss: 0.0802, step time: 1.0148  
Batch 174/248, train\_loss: 0.5446, step time: 1.0171  
Batch 175/248, train\_loss: 0.1646, step time: 1.0153  
Batch 176/248, train\_loss: 0.4034, step time: 1.0200  
Batch 177/248, train\_loss: 0.2519, step time: 1.0189  
Batch 178/248, train\_loss: 0.3046, step time: 1.0192  
Batch 179/248, train\_loss: 0.0811, step time: 1.0133  
Batch 180/248, train\_loss: 0.3578, step time: 1.0140  
Batch 181/248, train\_loss: 0.1091, step time: 1.0152  
Batch 182/248, train\_loss: 0.9316, step time: 1.0179  
Batch 183/248, train\_loss: 0.2275, step time: 1.0194  
Batch 184/248, train\_loss: 0.4197, step time: 1.0187  
Batch 185/248, train\_loss: 0.1231, step time: 1.0177  
Batch 186/248, train\_loss: 0.1081, step time: 1.0167  
Batch 187/248, train\_loss: 0.1780, step time: 1.0175  
Batch 188/248, train\_loss: 0.2364, step time: 1.0194  
Batch 189/248, train\_loss: 0.6005, step time: 1.0199  
Batch 190/248, train\_loss: 0.1323, step time: 1.0152  
Batch 191/248, train\_loss: 0.5815, step time: 1.0196  
Batch 192/248, train\_loss: 0.2628, step time: 1.0157  
Batch 193/248, train\_loss: 0.2893, step time: 1.0193  
Batch 194/248, train\_loss: 0.0840, step time: 1.0153  
Batch 195/248, train\_loss: 0.6375, step time: 1.0155  
Batch 196/248, train\_loss: 0.9992, step time: 1.0084  
Batch 197/248, train\_loss: 0.1851, step time: 1.0189  
Batch 198/248, train\_loss: 0.7083, step time: 1.0212  
Batch 199/248, train\_loss: 0.1340, step time: 1.0180  
Batch 200/248, train\_loss: 0.1320, step time: 1.0169  
Batch 201/248, train\_loss: 0.1167, step time: 1.0153  
Batch 202/248, train\_loss: 0.3991, step time: 1.0195  
Batch 203/248, train\_loss: 0.5025, step time: 1.0160  
Batch 204/248, train\_loss: 0.0840, step time: 1.0132  
Batch 205/248, train\_loss: 0.2301, step time: 1.0161  
Batch 206/248, train\_loss: 0.3132, step time: 1.0169  
Batch 207/248, train\_loss: 0.1045, step time: 1.0160  
Batch 208/248, train\_loss: 0.2088, step time: 1.0161  
Batch 209/248, train\_loss: 0.1859, step time: 1.0139  
Batch 210/248, train\_loss: 0.0579, step time: 1.0118  
Batch 211/248, train\_loss: 0.0581, step time: 1.0089  
Batch 212/248, train\_loss: 0.3137, step time: 1.0185  
Batch 213/248, train\_loss: 0.1609, step time: 1.0173  
Batch 214/248, train\_loss: 0.0695, step time: 1.0148  
Batch 215/248, train\_loss: 0.1668, step time: 1.0145  
Batch 216/248, train\_loss: 0.1765, step time: 1.0176  
Batch 217/248, train\_loss: 0.2354, step time: 1.0155  
Batch 218/248, train\_loss: 0.7746, step time: 1.0257  
Batch 219/248, train\_loss: 0.0823, step time: 1.0184  
Batch 220/248, train\_loss: 0.2076, step time: 1.0185  
Batch 221/248, train\_loss: 0.2819, step time: 1.0178  
Batch 222/248, train\_loss: 0.1690, step time: 1.0166  
Batch 223/248, train\_loss: 0.0425, step time: 1.0139  
Batch 224/248, train\_loss: 0.0718, step time: 1.0141  
Batch 225/248, train\_loss: 0.1793, step time: 1.0168  
Batch 226/248, train\_loss: 0.1344, step time: 1.0181  
Batch 227/248, train\_loss: 0.1040, step time: 1.0147  
Batch 228/248, train\_loss: 0.1404, step time: 1.0162  
Batch 229/248, train\_loss: 0.0931, step time: 1.0150  
Batch 230/248, train\_loss: 0.0631, step time: 1.0158  
Batch 231/248, train\_loss: 0.4301, step time: 1.0188  
Batch 232/248, train\_loss: 0.0720, step time: 1.0171  
Batch 233/248, train\_loss: 0.7981, step time: 1.0160  
Batch 234/248, train\_loss: 0.5089, step time: 1.0197  
Batch 235/248, train\_loss: 0.3879, step time: 1.0202  
Batch 236/248, train\_loss: 0.7692, step time: 1.0169  
Batch 237/248, train\_loss: 0.0990, step time: 1.0163  
Batch 238/248, train\_loss: 0.1042, step time: 1.0196  
Batch 239/248, train\_loss: 0.0872, step time: 1.0147  
Batch 240/248, train\_loss: 0.3052, step time: 1.0208  
Batch 241/248, train\_loss: 0.4693, step time: 1.0196  
Batch 242/248, train\_loss: 0.1393, step time: 1.0186  
Batch 243/248, train\_loss: 0.5321, step time: 1.0155  
Batch 244/248, train\_loss: 0.4390, step time: 1.0180  
Batch 245/248, train\_loss: 0.0786, step time: 1.0131  
Batch 246/248, train\_loss: 0.6500, step time: 1.0185  
Batch 247/248, train\_loss: 0.0915, step time: 1.0126  
Batch 248/248, train\_loss: 0.9996, step time: 1.0105

Labels



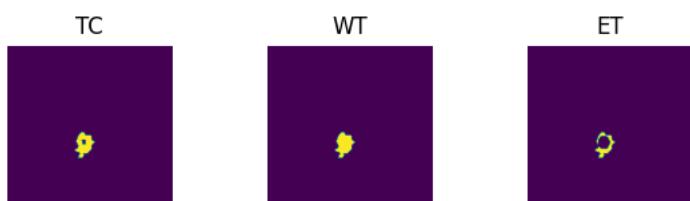
Predictions



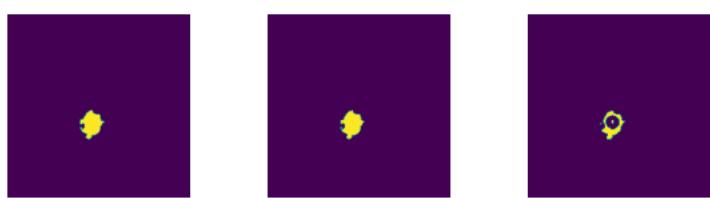
VAL

```
Batch 1/31, val_loss: 0.9301
Batch 2/31, val_loss: 0.9968
Batch 3/31, val_loss: 0.9602
Batch 4/31, val_loss: 0.9407
Batch 5/31, val_loss: 0.9935
Batch 6/31, val_loss: 0.7079
Batch 7/31, val_loss: 0.8399
Batch 8/31, val_loss: 0.9593
Batch 9/31, val_loss: 0.6994
Batch 10/31, val_loss: 0.9062
Batch 11/31, val_loss: 0.8251
Batch 12/31, val_loss: 0.9769
Batch 13/31, val_loss: 0.9800
Batch 14/31, val_loss: 0.9441
Batch 15/31, val_loss: 0.9975
Batch 16/31, val_loss: 0.9738
Batch 17/31, val_loss: 0.9725
Batch 18/31, val_loss: 0.9342
Batch 19/31, val_loss: 0.7462
Batch 20/31, val_loss: 0.8819
Batch 21/31, val_loss: 0.8649
Batch 22/31, val_loss: 0.9706
Batch 23/31, val_loss: 0.9790
Batch 24/31, val_loss: 0.7545
Batch 25/31, val_loss: 0.7981
Batch 26/31, val_loss: 0.9175
Batch 27/31, val_loss: 0.9722
Batch 28/31, val_loss: 0.7491
Batch 29/31, val_loss: 0.9815
Batch 30/31, val_loss: 0.9607
Batch 31/31, val_loss: 0.9821
```

Labels



Predictions



epoch 59

```
average train loss: 0.2960
average validation loss: 0.9063
saved as best model: False
current mean dice: 0.4934
current TC dice: 0.5136
current WT dice: 0.5209
current ET dice: 0.4899
```

Best Mean Metric: 0.5060  
time consuming of epoch 59 is: 1582.4462

-----  
epoch 60/100

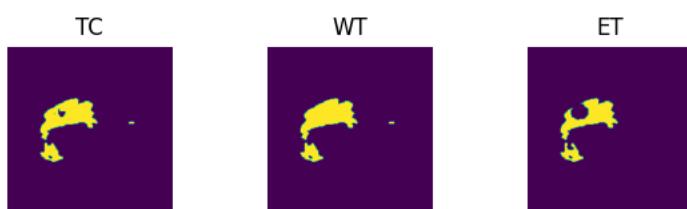
TRAIN

Batch 1/248, train\_loss: 0.0900, step time: 1.0164  
Batch 2/248, train\_loss: 0.7235, step time: 1.0235  
Batch 3/248, train\_loss: 0.2607, step time: 1.0163  
Batch 4/248, train\_loss: 0.9492, step time: 1.0172  
Batch 5/248, train\_loss: 0.2117, step time: 1.0170  
Batch 6/248, train\_loss: 0.4620, step time: 1.0168  
Batch 7/248, train\_loss: 0.1008, step time: 1.0145  
Batch 8/248, train\_loss: 0.7179, step time: 1.0175  
Batch 9/248, train\_loss: 0.0500, step time: 1.0140  
Batch 10/248, train\_loss: 0.2470, step time: 1.0176  
Batch 11/248, train\_loss: 0.2200, step time: 1.0152  
Batch 12/248, train\_loss: 0.4876, step time: 1.0208  
Batch 13/248, train\_loss: 0.2682, step time: 1.0189  
Batch 14/248, train\_loss: 0.0531, step time: 1.0143  
Batch 15/248, train\_loss: 0.3154, step time: 1.0184  
Batch 16/248, train\_loss: 0.1412, step time: 1.0150  
Batch 17/248, train\_loss: 0.2926, step time: 1.0160  
Batch 18/248, train\_loss: 0.4473, step time: 1.0136  
Batch 19/248, train\_loss: 0.0935, step time: 1.0106  
Batch 20/248, train\_loss: 0.1106, step time: 1.0165  
Batch 21/248, train\_loss: 0.0600, step time: 1.0134  
Batch 22/248, train\_loss: 0.6892, step time: 1.0203  
Batch 23/248, train\_loss: 0.9981, step time: 1.0123  
Batch 24/248, train\_loss: 0.0911, step time: 1.0171  
Batch 25/248, train\_loss: 0.0653, step time: 1.0161  
Batch 26/248, train\_loss: 0.4117, step time: 1.0204  
Batch 27/248, train\_loss: 0.0671, step time: 1.0142  
Batch 28/248, train\_loss: 0.1595, step time: 1.0169  
Batch 29/248, train\_loss: 0.3783, step time: 1.0189  
Batch 30/248, train\_loss: 0.2118, step time: 1.0181  
Batch 31/248, train\_loss: 0.2513, step time: 1.0144  
Batch 32/248, train\_loss: 0.0757, step time: 1.0177  
Batch 33/248, train\_loss: 0.0615, step time: 1.0125  
Batch 34/248, train\_loss: 0.0441, step time: 1.0151  
Batch 35/248, train\_loss: 0.0448, step time: 1.0144  
Batch 36/248, train\_loss: 0.3889, step time: 1.0149  
Batch 37/248, train\_loss: 0.1539, step time: 1.0148  
Batch 38/248, train\_loss: 0.2665, step time: 1.0163  
Batch 39/248, train\_loss: 0.1682, step time: 1.0130  
Batch 40/248, train\_loss: 0.5723, step time: 1.0180  
Batch 41/248, train\_loss: 0.2977, step time: 1.0165  
Batch 42/248, train\_loss: 0.0747, step time: 1.0154  
Batch 43/248, train\_loss: 0.0556, step time: 1.0136  
Batch 44/248, train\_loss: 0.2894, step time: 1.0177  
Batch 45/248, train\_loss: 0.4056, step time: 1.0195  
Batch 46/248, train\_loss: 0.1550, step time: 1.0182  
Batch 47/248, train\_loss: 0.0755, step time: 1.0161  
Batch 48/248, train\_loss: 0.2243, step time: 1.0179  
Batch 49/248, train\_loss: 0.4882, step time: 1.0171  
Batch 50/248, train\_loss: 0.1515, step time: 1.0141  
Batch 51/248, train\_loss: 0.1448, step time: 1.0139  
Batch 52/248, train\_loss: 0.0975, step time: 1.0172  
Batch 53/248, train\_loss: 0.3804, step time: 1.0179  
Batch 54/248, train\_loss: 0.2304, step time: 1.0160  
Batch 55/248, train\_loss: 0.3416, step time: 1.0164  
Batch 56/248, train\_loss: 0.2110, step time: 1.0161  
Batch 57/248, train\_loss: 0.3003, step time: 1.0133  
Batch 58/248, train\_loss: 0.0851, step time: 1.0145  
Batch 59/248, train\_loss: 0.0779, step time: 1.0135  
Batch 60/248, train\_loss: 0.0506, step time: 1.0135  
Batch 61/248, train\_loss: 0.1000, step time: 1.0173  
Batch 62/248, train\_loss: 0.2711, step time: 1.0162  
Batch 63/248, train\_loss: 0.5575, step time: 1.0184  
Batch 64/248, train\_loss: 0.3436, step time: 1.0149  
Batch 65/248, train\_loss: 0.2915, step time: 1.0176  
Batch 66/248, train\_loss: 0.1611, step time: 1.0180  
Batch 67/248, train\_loss: 0.0674, step time: 1.0142  
Batch 68/248, train\_loss: 0.1694, step time: 1.0191  
Batch 69/248, train\_loss: 0.3832, step time: 1.0191  
Batch 70/248, train\_loss: 0.1359, step time: 1.0161  
Batch 71/248, train\_loss: 0.1334, step time: 1.0162  
Batch 72/248, train\_loss: 0.0589, step time: 1.0127  
Batch 73/248, train\_loss: 0.4624, step time: 1.0173  
Batch 74/248, train\_loss: 0.9958, step time: 1.0142  
Batch 75/248, train\_loss: 0.1375, step time: 1.0163  
Batch 76/248, train\_loss: 0.5736, step time: 1.0189  
Batch 77/248, train\_loss: 0.7931, step time: 1.0182  
Batch 78/248, train\_loss: 0.1333, step time: 1.0182  
Batch 79/248, train\_loss: 0.1213, step time: 1.0178  
Batch 80/248, train\_loss: 0.1000, step time: 1.0150

Batch 80/248, train\_loss: 0.1900, step time: 1.0159  
Batch 81/248, train\_loss: 0.1902, step time: 1.0188  
Batch 82/248, train\_loss: 0.0768, step time: 1.0147  
Batch 83/248, train\_loss: 0.6074, step time: 1.0215  
Batch 84/248, train\_loss: 0.2406, step time: 1.0163  
Batch 85/248, train\_loss: 0.4137, step time: 1.0177  
Batch 86/248, train\_loss: 0.3937, step time: 1.0175  
Batch 87/248, train\_loss: 0.4500, step time: 1.0137  
Batch 88/248, train\_loss: 0.3640, step time: 1.0170  
Batch 89/248, train\_loss: 0.1096, step time: 1.0134  
Batch 90/248, train\_loss: 0.4260, step time: 1.0194  
Batch 91/248, train\_loss: 0.3362, step time: 1.0192  
Batch 92/248, train\_loss: 0.3176, step time: 1.0181  
Batch 93/248, train\_loss: 0.1469, step time: 1.0146  
Batch 94/248, train\_loss: 0.2951, step time: 1.0199  
Batch 95/248, train\_loss: 0.1685, step time: 1.0138  
Batch 96/248, train\_loss: 0.1594, step time: 1.0149  
Batch 97/248, train\_loss: 0.4103, step time: 1.0182  
Batch 98/248, train\_loss: 0.1060, step time: 1.0149  
Batch 99/248, train\_loss: 0.3370, step time: 1.0158  
Batch 100/248, train\_loss: 0.2222, step time: 1.0201  
Batch 101/248, train\_loss: 0.0570, step time: 1.0158  
Batch 102/248, train\_loss: 0.0927, step time: 1.0144  
Batch 103/248, train\_loss: 0.4091, step time: 1.0203  
Batch 104/248, train\_loss: 0.3403, step time: 1.0138  
Batch 105/248, train\_loss: 0.0878, step time: 1.0151  
Batch 106/248, train\_loss: 0.1709, step time: 1.0184  
Batch 107/248, train\_loss: 0.2704, step time: 1.0157  
Batch 108/248, train\_loss: 0.6573, step time: 1.0196  
Batch 109/248, train\_loss: 0.9314, step time: 1.0179  
Batch 110/248, train\_loss: 0.3348, step time: 1.0210  
Batch 111/248, train\_loss: 0.0986, step time: 1.0150  
Batch 112/248, train\_loss: 0.0986, step time: 1.0169  
Batch 113/248, train\_loss: 0.9188, step time: 1.0175  
Batch 114/248, train\_loss: 0.1365, step time: 1.0155  
Batch 115/248, train\_loss: 0.1442, step time: 1.0165  
Batch 116/248, train\_loss: 0.0791, step time: 1.0138  
Batch 117/248, train\_loss: 0.6577, step time: 1.0219  
Batch 118/248, train\_loss: 0.5786, step time: 1.0180  
Batch 119/248, train\_loss: 0.2826, step time: 1.0162  
Batch 120/248, train\_loss: 0.2449, step time: 1.0154  
Batch 121/248, train\_loss: 0.3098, step time: 1.0178  
Batch 122/248, train\_loss: 0.4309, step time: 1.0178  
Batch 123/248, train\_loss: 0.0855, step time: 1.0138  
Batch 124/248, train\_loss: 0.6692, step time: 1.0200  
Batch 125/248, train\_loss: 0.8337, step time: 1.0185  
Batch 126/248, train\_loss: 0.2545, step time: 1.0193  
Batch 127/248, train\_loss: 0.1147, step time: 1.0174  
Batch 128/248, train\_loss: 0.3767, step time: 1.0202  
Batch 129/248, train\_loss: 0.1150, step time: 1.0147  
Batch 130/248, train\_loss: 0.0980, step time: 1.0150  
Batch 131/248, train\_loss: 0.5635, step time: 1.0168  
Batch 132/248, train\_loss: 0.5033, step time: 1.0183  
Batch 133/248, train\_loss: 0.1769, step time: 1.0174  
Batch 134/248, train\_loss: 0.8424, step time: 1.0195  
Batch 135/248, train\_loss: 0.2599, step time: 1.0185  
Batch 136/248, train\_loss: 0.1218, step time: 1.0165  
Batch 137/248, train\_loss: 0.1590, step time: 1.0169  
Batch 138/248, train\_loss: 0.0779, step time: 1.0144  
Batch 139/248, train\_loss: 0.2883, step time: 1.0181  
Batch 140/248, train\_loss: 0.2376, step time: 1.0182  
Batch 141/248, train\_loss: 0.2670, step time: 1.0142  
Batch 142/248, train\_loss: 0.5119, step time: 1.0194  
Batch 143/248, train\_loss: 0.2741, step time: 1.0132  
Batch 144/248, train\_loss: 0.1329, step time: 1.0129  
Batch 145/248, train\_loss: 0.0514, step time: 1.0117  
Batch 146/248, train\_loss: 0.5984, step time: 1.0145  
Batch 147/248, train\_loss: 0.0359, step time: 1.0088  
Batch 148/248, train\_loss: 0.8261, step time: 1.0164  
Batch 149/248, train\_loss: 0.1166, step time: 1.0146  
Batch 150/248, train\_loss: 0.6820, step time: 1.0178  
Batch 151/248, train\_loss: 0.3454, step time: 1.0157  
Batch 152/248, train\_loss: 0.0393, step time: 1.0155  
Batch 153/248, train\_loss: 0.2156, step time: 1.0184  
Batch 154/248, train\_loss: 0.7737, step time: 1.0207  
Batch 155/248, train\_loss: 0.1675, step time: 1.0184  
Batch 156/248, train\_loss: 0.1561, step time: 1.0180  
Batch 157/248, train\_loss: 0.2450, step time: 1.0172  
Batch 158/248, train\_loss: 0.9874, step time: 1.0163  
Batch 159/248, train\_loss: 0.3719, step time: 1.0174  
Batch 160/248, train\_loss: 0.1020, step time: 1.0158  
Batch 161/248, train\_loss: 0.1064, step time: 1.0205  
Batch 162/248, train\_loss: 0.1030, step time: 1.0151  
Batch 163/248, train\_loss: 0.1164, step time: 1.0178  
Batch 164/248, train\_loss: 0.2585, step time: 1.0206

Batch 165/248, train\_loss: 0.6335, step time: 1.0190  
Batch 166/248, train\_loss: 0.0756, step time: 1.0130  
Batch 167/248, train\_loss: 0.2242, step time: 1.0180  
Batch 168/248, train\_loss: 0.1699, step time: 1.0117  
Batch 169/248, train\_loss: 0.0886, step time: 1.0155  
Batch 170/248, train\_loss: 0.7732, step time: 1.0182  
Batch 171/248, train\_loss: 0.0948, step time: 1.0137  
Batch 172/248, train\_loss: 0.5212, step time: 1.0179  
Batch 173/248, train\_loss: 0.0921, step time: 1.0163  
Batch 174/248, train\_loss: 0.4354, step time: 1.0165  
Batch 175/248, train\_loss: 0.1644, step time: 1.0170  
Batch 176/248, train\_loss: 0.3571, step time: 1.0172  
Batch 177/248, train\_loss: 0.2551, step time: 1.0166  
Batch 178/248, train\_loss: 0.3122, step time: 1.0177  
Batch 179/248, train\_loss: 0.0843, step time: 1.0166  
Batch 180/248, train\_loss: 0.3271, step time: 1.0171  
Batch 181/248, train\_loss: 0.1087, step time: 1.0128  
Batch 182/248, train\_loss: 0.9248, step time: 1.0129  
Batch 183/248, train\_loss: 0.1868, step time: 1.0157  
Batch 184/248, train\_loss: 0.3351, step time: 1.0162  
Batch 185/248, train\_loss: 0.0986, step time: 1.0192  
Batch 186/248, train\_loss: 0.1188, step time: 1.0140  
Batch 187/248, train\_loss: 0.2292, step time: 1.0125  
Batch 188/248, train\_loss: 0.2864, step time: 1.0145  
Batch 189/248, train\_loss: 0.5349, step time: 1.0192  
Batch 190/248, train\_loss: 0.1243, step time: 1.0154  
Batch 191/248, train\_loss: 0.5740, step time: 1.0175  
Batch 192/248, train\_loss: 0.3553, step time: 1.0162  
Batch 193/248, train\_loss: 0.3180, step time: 1.0146  
Batch 194/248, train\_loss: 0.0752, step time: 1.0117  
Batch 195/248, train\_loss: 0.5882, step time: 1.0194  
Batch 196/248, train\_loss: 0.9975, step time: 1.0125  
Batch 197/248, train\_loss: 0.1933, step time: 1.0169  
Batch 198/248, train\_loss: 0.8611, step time: 1.0180  
Batch 199/248, train\_loss: 0.1234, step time: 1.0158  
Batch 200/248, train\_loss: 0.1156, step time: 1.0138  
Batch 201/248, train\_loss: 0.1278, step time: 1.0159  
Batch 202/248, train\_loss: 0.3229, step time: 1.0174  
Batch 203/248, train\_loss: 0.5591, step time: 1.0150  
Batch 204/248, train\_loss: 0.0872, step time: 1.0170  
Batch 205/248, train\_loss: 0.2654, step time: 1.0181  
Batch 206/248, train\_loss: 0.5195, step time: 1.0211  
Batch 207/248, train\_loss: 0.0906, step time: 1.0147  
Batch 208/248, train\_loss: 0.1826, step time: 1.0197  
Batch 209/248, train\_loss: 0.1630, step time: 1.0163  
Batch 210/248, train\_loss: 0.0545, step time: 1.0133  
Batch 211/248, train\_loss: 0.0619, step time: 1.0141  
Batch 212/248, train\_loss: 0.2307, step time: 1.0196  
Batch 213/248, train\_loss: 0.1832, step time: 1.0191  
Batch 214/248, train\_loss: 0.0677, step time: 1.0147  
Batch 215/248, train\_loss: 0.1600, step time: 1.0161  
Batch 216/248, train\_loss: 0.1346, step time: 1.0158  
Batch 217/248, train\_loss: 0.2636, step time: 1.0173  
Batch 218/248, train\_loss: 0.7778, step time: 1.0222  
Batch 219/248, train\_loss: 0.0648, step time: 1.0165  
Batch 220/248, train\_loss: 0.2030, step time: 1.0166  
Batch 221/248, train\_loss: 0.2423, step time: 1.0154  
Batch 222/248, train\_loss: 0.1796, step time: 1.0145  
Batch 223/248, train\_loss: 0.0399, step time: 1.0134  
Batch 224/248, train\_loss: 0.0844, step time: 1.0141  
Batch 225/248, train\_loss: 0.2019, step time: 1.0160  
Batch 226/248, train\_loss: 0.1682, step time: 1.0164  
Batch 227/248, train\_loss: 0.0843, step time: 1.0116  
Batch 228/248, train\_loss: 0.1255, step time: 1.0145  
Batch 229/248, train\_loss: 0.1084, step time: 1.0147  
Batch 230/248, train\_loss: 0.0762, step time: 1.0154  
Batch 231/248, train\_loss: 0.3225, step time: 1.0174  
Batch 232/248, train\_loss: 0.0774, step time: 1.0147  
Batch 233/248, train\_loss: 0.7584, step time: 1.0176  
Batch 234/248, train\_loss: 0.4961, step time: 1.0183  
Batch 235/248, train\_loss: 0.2921, step time: 1.0192  
Batch 236/248, train\_loss: 0.7708, step time: 1.0182  
Batch 237/248, train\_loss: 0.1096, step time: 1.0185  
Batch 238/248, train\_loss: 0.1104, step time: 1.0200  
Batch 239/248, train\_loss: 0.0664, step time: 1.0174  
Batch 240/248, train\_loss: 0.2971, step time: 1.0183  
Batch 241/248, train\_loss: 0.4542, step time: 1.0179  
Batch 242/248, train\_loss: 0.1713, step time: 1.0179  
Batch 243/248, train\_loss: 0.6370, step time: 1.0181  
Batch 244/248, train\_loss: 0.3455, step time: 1.0170  
Batch 245/248, train\_loss: 0.0653, step time: 1.0168  
Batch 246/248, train\_loss: 0.6128, step time: 1.0236  
Batch 247/248, train\_loss: 0.0760, step time: 1.0141  
Batch 248/248, train\_loss: 0.9996, step time: 1.0123

LANDS



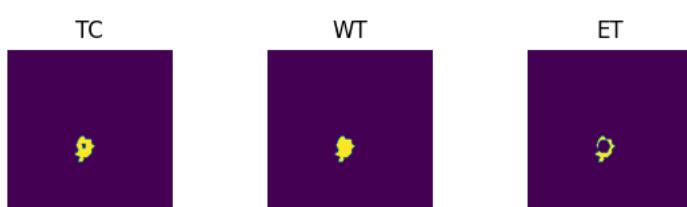
Predictions



VAL

Batch 1/31, val\_loss: 0.9009  
Batch 2/31, val\_loss: 0.9953  
Batch 3/31, val\_loss: 0.9628  
Batch 4/31, val\_loss: 0.9410  
Batch 5/31, val\_loss: 0.9935  
Batch 6/31, val\_loss: 0.6924  
Batch 7/31, val\_loss: 0.8265  
Batch 8/31, val\_loss: 0.9627  
Batch 9/31, val\_loss: 0.6928  
Batch 10/31, val\_loss: 0.9052  
Batch 11/31, val\_loss: 0.8261  
Batch 12/31, val\_loss: 0.9747  
Batch 13/31, val\_loss: 0.9827  
Batch 14/31, val\_loss: 0.9463  
Batch 15/31, val\_loss: 0.9989  
Batch 16/31, val\_loss: 0.9745  
Batch 17/31, val\_loss: 0.9713  
Batch 18/31, val\_loss: 0.9340  
Batch 19/31, val\_loss: 0.7459  
Batch 20/31, val\_loss: 0.8800  
Batch 21/31, val\_loss: 0.8627  
Batch 22/31, val\_loss: 0.9684  
Batch 23/31, val\_loss: 0.9801  
Batch 24/31, val\_loss: 0.7519  
Batch 25/31, val\_loss: 0.8008  
Batch 26/31, val\_loss: 0.9173  
Batch 27/31, val\_loss: 0.9711  
Batch 28/31, val\_loss: 0.7408  
Batch 29/31, val\_loss: 0.9836  
Batch 30/31, val\_loss: 0.9592  
Batch 31/31, val\_loss: 0.9835

Labels



Predictions



epoch 60

average train loss: 0.2913  
average validation loss: 0.9041  
saved as best model: False  
current mean dice: 0.4924  
current TC dice: 0.5116  
current WT dice: 0.5185  
current ET dice: 0.4011

current  $\epsilon_1$  dice: 0.4911  
Best Mean Metric: 0.5060  
time consuming of epoch 60 is: 1579.8534  
-----  
epoch 61/100  
TRAIN  
Batch 1/248, train\_loss: 0.0825, step time: 1.0161  
Batch 2/248, train\_loss: 0.7560, step time: 1.0173  
Batch 3/248, train\_loss: 0.2809, step time: 1.0178  
Batch 4/248, train\_loss: 0.8975, step time: 1.0195  
Batch 5/248, train\_loss: 0.2043, step time: 1.0187  
Batch 6/248, train\_loss: 0.5909, step time: 1.0155  
Batch 7/248, train\_loss: 0.0587, step time: 1.0124  
Batch 8/248, train\_loss: 0.7288, step time: 1.0152  
Batch 9/248, train\_loss: 0.0439, step time: 1.0183  
Batch 10/248, train\_loss: 0.2323, step time: 1.0165  
Batch 11/248, train\_loss: 0.1982, step time: 1.0147  
Batch 12/248, train\_loss: 0.4428, step time: 1.0183  
Batch 13/248, train\_loss: 0.2909, step time: 1.0168  
Batch 14/248, train\_loss: 0.0528, step time: 1.0101  
Batch 15/248, train\_loss: 0.3169, step time: 1.0186  
Batch 16/248, train\_loss: 0.1287, step time: 1.0118  
Batch 17/248, train\_loss: 0.3239, step time: 1.0175  
Batch 18/248, train\_loss: 0.4252, step time: 1.0162  
Batch 19/248, train\_loss: 0.0964, step time: 1.0151  
Batch 20/248, train\_loss: 0.1725, step time: 1.0167  
Batch 21/248, train\_loss: 0.0647, step time: 1.0152  
Batch 22/248, train\_loss: 0.8812, step time: 1.0174  
Batch 23/248, train\_loss: 0.9894, step time: 1.0134  
Batch 24/248, train\_loss: 0.0978, step time: 1.0157  
Batch 25/248, train\_loss: 0.0649, step time: 1.0127  
Batch 26/248, train\_loss: 0.4284, step time: 1.0245  
Batch 27/248, train\_loss: 0.0656, step time: 1.0152  
Batch 28/248, train\_loss: 0.1528, step time: 1.0194  
Batch 29/248, train\_loss: 0.3383, step time: 1.0188  
Batch 30/248, train\_loss: 0.2266, step time: 1.0164  
Batch 31/248, train\_loss: 0.3136, step time: 1.0178  
Batch 32/248, train\_loss: 0.0902, step time: 1.0127  
Batch 33/248, train\_loss: 0.0835, step time: 1.0148  
Batch 34/248, train\_loss: 0.0441, step time: 1.0107  
Batch 35/248, train\_loss: 0.0463, step time: 1.0136  
Batch 36/248, train\_loss: 0.4449, step time: 1.0175  
Batch 37/248, train\_loss: 0.1357, step time: 1.0135  
Batch 38/248, train\_loss: 0.3082, step time: 1.0155  
Batch 39/248, train\_loss: 0.1944, step time: 1.0149  
Batch 40/248, train\_loss: 0.6884, step time: 1.0192  
Batch 41/248, train\_loss: 0.2831, step time: 1.0150  
Batch 42/248, train\_loss: 0.0690, step time: 1.0131  
Batch 43/248, train\_loss: 0.0516, step time: 1.0237  
Batch 44/248, train\_loss: 0.3635, step time: 1.0161  
Batch 45/248, train\_loss: 0.3957, step time: 1.0182  
Batch 46/248, train\_loss: 0.1630, step time: 1.0157  
Batch 47/248, train\_loss: 0.0760, step time: 1.0152  
Batch 48/248, train\_loss: 0.2667, step time: 1.0152  
Batch 49/248, train\_loss: 0.4951, step time: 1.0161  
Batch 50/248, train\_loss: 0.1381, step time: 1.0162  
Batch 51/248, train\_loss: 0.1261, step time: 1.0170  
Batch 52/248, train\_loss: 0.1127, step time: 1.0159  
Batch 53/248, train\_loss: 0.3825, step time: 1.0193  
Batch 54/248, train\_loss: 0.2461, step time: 1.0150  
Batch 55/248, train\_loss: 0.2763, step time: 1.0164  
Batch 56/248, train\_loss: 0.1850, step time: 1.0134  
Batch 57/248, train\_loss: 0.2596, step time: 1.0168  
Batch 58/248, train\_loss: 0.0760, step time: 1.0150  
Batch 59/248, train\_loss: 0.0918, step time: 1.0086  
Batch 60/248, train\_loss: 0.0556, step time: 1.0183  
Batch 61/248, train\_loss: 0.0926, step time: 1.0125  
Batch 62/248, train\_loss: 0.2535, step time: 1.0187  
Batch 63/248, train\_loss: 0.6515, step time: 1.0164  
Batch 64/248, train\_loss: 0.3335, step time: 1.0170  
Batch 65/248, train\_loss: 0.4340, step time: 1.0202  
Batch 66/248, train\_loss: 0.1356, step time: 1.0178  
Batch 67/248, train\_loss: 0.0715, step time: 1.0128  
Batch 68/248, train\_loss: 0.1132, step time: 1.0164  
Batch 69/248, train\_loss: 0.5468, step time: 1.0195  
Batch 70/248, train\_loss: 0.1321, step time: 1.0173  
Batch 71/248, train\_loss: 0.1349, step time: 1.0154  
Batch 72/248, train\_loss: 0.0686, step time: 1.0128  
Batch 73/248, train\_loss: 0.1576, step time: 1.0149  
Batch 74/248, train\_loss: 0.9963, step time: 1.0127  
Batch 75/248, train\_loss: 0.1237, step time: 1.0172  
Batch 76/248, train\_loss: 0.5644, step time: 1.0196  
Batch 77/248, train\_loss: 0.7603, step time: 1.0205  
Batch 78/248, train\_loss: 0.1234, step time: 1.0140  
Batch 79/248, train\_loss: 0.1997, step time: 1.0174

Batch 80/248, train\_loss: 0.1751, step time: 1.0130  
Batch 81/248, train\_loss: 0.1818, step time: 1.0174  
Batch 82/248, train\_loss: 0.0798, step time: 1.0171  
Batch 83/248, train\_loss: 0.4898, step time: 1.0198  
Batch 84/248, train\_loss: 0.2747, step time: 1.0164  
Batch 85/248, train\_loss: 0.3264, step time: 1.0178  
Batch 86/248, train\_loss: 0.2202, step time: 1.0133  
Batch 87/248, train\_loss: 0.4784, step time: 1.0185  
Batch 88/248, train\_loss: 0.3096, step time: 1.0142  
Batch 89/248, train\_loss: 0.0968, step time: 1.0157  
Batch 90/248, train\_loss: 0.2788, step time: 1.0162  
Batch 91/248, train\_loss: 0.3677, step time: 1.0185  
Batch 92/248, train\_loss: 0.2768, step time: 1.0138  
Batch 93/248, train\_loss: 0.1504, step time: 1.0171  
Batch 94/248, train\_loss: 0.3247, step time: 1.0163  
Batch 95/248, train\_loss: 0.1755, step time: 1.0146  
Batch 96/248, train\_loss: 0.2180, step time: 1.0149  
Batch 97/248, train\_loss: 0.3941, step time: 1.0207  
Batch 98/248, train\_loss: 0.1058, step time: 1.0135  
Batch 99/248, train\_loss: 0.3644, step time: 1.0160  
Batch 100/248, train\_loss: 0.3761, step time: 1.0191  
Batch 101/248, train\_loss: 0.0517, step time: 1.0139  
Batch 102/248, train\_loss: 0.1101, step time: 1.0136  
Batch 103/248, train\_loss: 0.3856, step time: 1.0169  
Batch 104/248, train\_loss: 0.3320, step time: 1.0148  
Batch 105/248, train\_loss: 0.0826, step time: 1.0105  
Batch 106/248, train\_loss: 0.1055, step time: 1.0149  
Batch 107/248, train\_loss: 0.4312, step time: 1.0169  
Batch 108/248, train\_loss: 0.6906, step time: 1.0219  
Batch 109/248, train\_loss: 0.9687, step time: 1.0132  
Batch 110/248, train\_loss: 0.3133, step time: 1.0156  
Batch 111/248, train\_loss: 0.1210, step time: 1.0171  
Batch 112/248, train\_loss: 0.1427, step time: 1.0154  
Batch 113/248, train\_loss: 0.9096, step time: 1.0207  
Batch 114/248, train\_loss: 0.1428, step time: 1.0146  
Batch 115/248, train\_loss: 0.1646, step time: 1.0163  
Batch 116/248, train\_loss: 0.0906, step time: 1.0252  
Batch 117/248, train\_loss: 0.6392, step time: 1.0197  
Batch 118/248, train\_loss: 0.7448, step time: 1.0192  
Batch 119/248, train\_loss: 0.3102, step time: 1.0142  
Batch 120/248, train\_loss: 0.2191, step time: 1.0215  
Batch 121/248, train\_loss: 0.3029, step time: 1.0172  
Batch 122/248, train\_loss: 0.4020, step time: 1.0180  
Batch 123/248, train\_loss: 0.0701, step time: 1.0165  
Batch 124/248, train\_loss: 0.3522, step time: 1.0191  
Batch 125/248, train\_loss: 0.5873, step time: 1.0187  
Batch 126/248, train\_loss: 0.2962, step time: 1.0179  
Batch 127/248, train\_loss: 0.1137, step time: 1.0132  
Batch 128/248, train\_loss: 0.3116, step time: 1.0173  
Batch 129/248, train\_loss: 0.1376, step time: 1.0168  
Batch 130/248, train\_loss: 0.0992, step time: 1.0159  
Batch 131/248, train\_loss: 0.5680, step time: 1.0186  
Batch 132/248, train\_loss: 0.3567, step time: 1.0159  
Batch 133/248, train\_loss: 0.1373, step time: 1.0133  
Batch 134/248, train\_loss: 0.8062, step time: 1.0192  
Batch 135/248, train\_loss: 0.2559, step time: 1.0156  
Batch 136/248, train\_loss: 0.1185, step time: 1.0117  
Batch 137/248, train\_loss: 0.1105, step time: 1.0118  
Batch 138/248, train\_loss: 0.0646, step time: 1.0133  
Batch 139/248, train\_loss: 0.2404, step time: 1.0144  
Batch 140/248, train\_loss: 0.1913, step time: 1.0169  
Batch 141/248, train\_loss: 0.1824, step time: 1.0148  
Batch 142/248, train\_loss: 0.6089, step time: 1.0210  
Batch 143/248, train\_loss: 0.2021, step time: 1.0130  
Batch 144/248, train\_loss: 0.1295, step time: 1.0153  
Batch 145/248, train\_loss: 0.0666, step time: 1.0151  
Batch 146/248, train\_loss: 0.6938, step time: 1.0152  
Batch 147/248, train\_loss: 0.0444, step time: 1.0124  
Batch 148/248, train\_loss: 0.7245, step time: 1.0178  
Batch 149/248, train\_loss: 0.1252, step time: 1.0133  
Batch 150/248, train\_loss: 0.6529, step time: 1.0166  
Batch 151/248, train\_loss: 0.2783, step time: 1.0167  
Batch 152/248, train\_loss: 0.0458, step time: 1.0127  
Batch 153/248, train\_loss: 0.2633, step time: 1.0172  
Batch 154/248, train\_loss: 0.5226, step time: 1.0165  
Batch 155/248, train\_loss: 0.1161, step time: 1.0169  
Batch 156/248, train\_loss: 0.6908, step time: 1.0175  
Batch 157/248, train\_loss: 0.2420, step time: 1.0183  
Batch 158/248, train\_loss: 0.9965, step time: 1.0133  
Batch 159/248, train\_loss: 0.3423, step time: 1.0225  
Batch 160/248, train\_loss: 0.1048, step time: 1.0183  
Batch 161/248, train\_loss: 0.1243, step time: 1.0148  
Batch 162/248, train\_loss: 0.0844, step time: 1.0138  
Batch 163/248, train\_loss: 0.1590, step time: 1.0178  
Batch 164/248, train\_loss: 0.1682, step time: 1.0168

Batch 165/248, train\_loss: 0.7798, step time: 1.0171  
Batch 166/248, train\_loss: 0.0924, step time: 1.0161  
Batch 167/248, train\_loss: 0.1572, step time: 1.0153  
Batch 168/248, train\_loss: 0.1563, step time: 1.0162  
Batch 169/248, train\_loss: 0.0738, step time: 1.0121  
Batch 170/248, train\_loss: 0.6173, step time: 1.0169  
Batch 171/248, train\_loss: 0.0904, step time: 1.0186  
Batch 172/248, train\_loss: 0.3891, step time: 1.0159  
Batch 173/248, train\_loss: 0.1094, step time: 1.0151  
Batch 174/248, train\_loss: 0.8265, step time: 1.0176  
Batch 175/248, train\_loss: 0.1645, step time: 1.0176  
Batch 176/248, train\_loss: 0.3561, step time: 1.0179  
Batch 177/248, train\_loss: 0.2238, step time: 1.0166  
Batch 178/248, train\_loss: 0.3193, step time: 1.0176  
Batch 179/248, train\_loss: 0.1102, step time: 1.0161  
Batch 180/248, train\_loss: 0.3820, step time: 1.0155  
Batch 181/248, train\_loss: 0.1203, step time: 1.0160  
Batch 182/248, train\_loss: 0.9557, step time: 1.0145  
Batch 183/248, train\_loss: 0.1481, step time: 1.0156  
Batch 184/248, train\_loss: 0.5948, step time: 1.0237  
Batch 185/248, train\_loss: 0.1219, step time: 1.0162  
Batch 186/248, train\_loss: 0.1312, step time: 1.0162  
Batch 187/248, train\_loss: 0.2132, step time: 1.0140  
Batch 188/248, train\_loss: 0.2259, step time: 1.0171  
Batch 189/248, train\_loss: 0.4632, step time: 1.0152  
Batch 190/248, train\_loss: 0.1372, step time: 1.0156  
Batch 191/248, train\_loss: 0.5811, step time: 1.0165  
Batch 192/248, train\_loss: 0.2508, step time: 1.0159  
Batch 193/248, train\_loss: 0.2860, step time: 1.0177  
Batch 194/248, train\_loss: 0.0907, step time: 1.0164  
Batch 195/248, train\_loss: 0.6562, step time: 1.0176  
Batch 196/248, train\_loss: 0.9987, step time: 1.0163  
Batch 197/248, train\_loss: 0.1614, step time: 1.0181  
Batch 198/248, train\_loss: 0.9241, step time: 1.0194  
Batch 199/248, train\_loss: 0.1285, step time: 1.0159  
Batch 200/248, train\_loss: 0.1181, step time: 1.0156  
Batch 201/248, train\_loss: 0.1179, step time: 1.0151  
Batch 202/248, train\_loss: 0.3427, step time: 1.0138  
Batch 203/248, train\_loss: 0.5087, step time: 1.0195  
Batch 204/248, train\_loss: 0.0845, step time: 1.0122  
Batch 205/248, train\_loss: 0.2260, step time: 1.0112  
Batch 206/248, train\_loss: 0.4279, step time: 1.0196  
Batch 207/248, train\_loss: 0.0992, step time: 1.0149  
Batch 208/248, train\_loss: 0.1749, step time: 1.0145  
Batch 209/248, train\_loss: 0.1797, step time: 1.0157  
Batch 210/248, train\_loss: 0.0707, step time: 1.0161  
Batch 211/248, train\_loss: 0.0691, step time: 1.0166  
Batch 212/248, train\_loss: 0.3233, step time: 1.0185  
Batch 213/248, train\_loss: 0.1376, step time: 1.0160  
Batch 214/248, train\_loss: 0.0686, step time: 1.0136  
Batch 215/248, train\_loss: 0.2234, step time: 1.0189  
Batch 216/248, train\_loss: 0.1222, step time: 1.0156  
Batch 217/248, train\_loss: 0.2598, step time: 1.0181  
Batch 218/248, train\_loss: 0.8092, step time: 1.0201  
Batch 219/248, train\_loss: 0.0960, step time: 1.0169  
Batch 220/248, train\_loss: 0.1999, step time: 1.0152  
Batch 221/248, train\_loss: 0.3025, step time: 1.0208  
Batch 222/248, train\_loss: 0.1949, step time: 1.0134  
Batch 223/248, train\_loss: 0.0492, step time: 1.0145  
Batch 224/248, train\_loss: 0.0737, step time: 1.0102  
Batch 225/248, train\_loss: 0.2064, step time: 1.0190  
Batch 226/248, train\_loss: 0.2610, step time: 1.0198  
Batch 227/248, train\_loss: 0.0930, step time: 1.0113  
Batch 228/248, train\_loss: 0.1814, step time: 1.0152  
Batch 229/248, train\_loss: 0.0967, step time: 1.0118  
Batch 230/248, train\_loss: 0.0680, step time: 1.0162  
Batch 231/248, train\_loss: 0.3773, step time: 1.0197  
Batch 232/248, train\_loss: 0.0747, step time: 1.0128  
Batch 233/248, train\_loss: 0.8205, step time: 1.0190  
Batch 234/248, train\_loss: 0.4673, step time: 1.0169  
Batch 235/248, train\_loss: 0.4023, step time: 1.0219  
Batch 236/248, train\_loss: 0.7499, step time: 1.0188  
Batch 237/248, train\_loss: 0.1002, step time: 1.0165  
Batch 238/248, train\_loss: 0.1017, step time: 1.0159  
Batch 239/248, train\_loss: 0.0632, step time: 1.0119  
Batch 240/248, train\_loss: 0.3251, step time: 1.0149  
Batch 241/248, train\_loss: 0.4878, step time: 1.0185  
Batch 242/248, train\_loss: 0.1488, step time: 1.0134  
Batch 243/248, train\_loss: 0.5748, step time: 1.0189  
Batch 244/248, train\_loss: 0.4930, step time: 1.0149  
Batch 245/248, train\_loss: 0.0608, step time: 1.0103  
Batch 246/248, train\_loss: 0.5556, step time: 1.0149  
Batch 247/248, train\_loss: 0.0775, step time: 1.0109  
Batch 248/248, train\_loss: 0.9999, step time: 1.0112

Labels

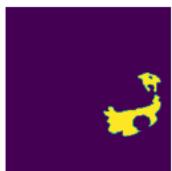
TC



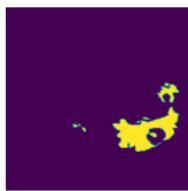
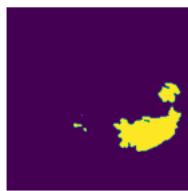
WT



ET



Predictions

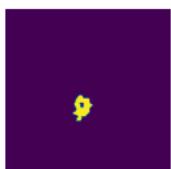


VAL

```
Batch 1/31, val_loss: 0.9425
Batch 2/31, val_loss: 0.9942
Batch 3/31, val_loss: 0.9603
Batch 4/31, val_loss: 0.9395
Batch 5/31, val_loss: 0.9930
Batch 6/31, val_loss: 0.6916
Batch 7/31, val_loss: 0.8283
Batch 8/31, val_loss: 0.9568
Batch 9/31, val_loss: 0.6890
Batch 10/31, val_loss: 0.9053
Batch 11/31, val_loss: 0.8248
Batch 12/31, val_loss: 0.9719
Batch 13/31, val_loss: 0.9772
Batch 14/31, val_loss: 0.9413
Batch 15/31, val_loss: 0.9987
Batch 16/31, val_loss: 0.9728
Batch 17/31, val_loss: 0.9712
Batch 18/31, val_loss: 0.9356
Batch 19/31, val_loss: 0.7432
Batch 20/31, val_loss: 0.8818
Batch 21/31, val_loss: 0.8639
Batch 22/31, val_loss: 0.9720
Batch 23/31, val_loss: 0.9801
Batch 24/31, val_loss: 0.7523
Batch 25/31, val_loss: 0.7990
Batch 26/31, val_loss: 0.9175
Batch 27/31, val_loss: 0.9699
Batch 28/31, val_loss: 0.7410
Batch 29/31, val_loss: 0.9817
Batch 30/31, val_loss: 0.9579
Batch 31/31, val_loss: 0.9770
```

Labels

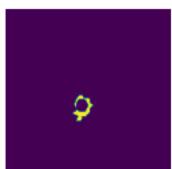
TC



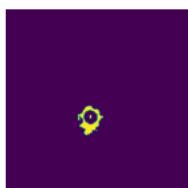
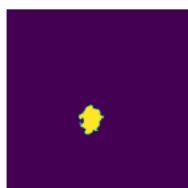
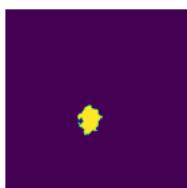
WT



ET



Predictions



epoch 61

```
average train loss: 0.2936
average validation loss: 0.9042
saved as best model: False
current mean dice: 0.4735
current TC dice: 0.4891
current WT dice: 0.4962
```

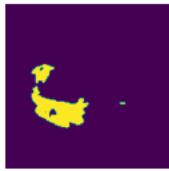
current ET dice: 0.4788  
Best Mean Metric: 0.5060  
time consuming of epoch 61 is: 1560.4941  
-----  
epoch 62/100  
TRAIN  
Batch 1/248, train\_loss: 0.0857, step time: 1.0166  
Batch 2/248, train\_loss: 0.8003, step time: 1.0259  
Batch 3/248, train\_loss: 0.3375, step time: 1.0174  
Batch 4/248, train\_loss: 0.8995, step time: 1.0166  
Batch 5/248, train\_loss: 0.1721, step time: 1.0118  
Batch 6/248, train\_loss: 0.5262, step time: 1.0176  
Batch 7/248, train\_loss: 0.0625, step time: 1.0153  
Batch 8/248, train\_loss: 0.7258, step time: 1.0126  
Batch 9/248, train\_loss: 0.0480, step time: 1.0166  
Batch 10/248, train\_loss: 0.2227, step time: 1.0191  
Batch 11/248, train\_loss: 0.1867, step time: 1.0226  
Batch 12/248, train\_loss: 0.3703, step time: 1.0227  
Batch 13/248, train\_loss: 0.3869, step time: 1.0192  
Batch 14/248, train\_loss: 0.0654, step time: 1.0179  
Batch 15/248, train\_loss: 0.3394, step time: 1.0144  
Batch 16/248, train\_loss: 0.1360, step time: 1.0165  
Batch 17/248, train\_loss: 0.2730, step time: 1.0208  
Batch 18/248, train\_loss: 0.3975, step time: 1.0176  
Batch 19/248, train\_loss: 0.2002, step time: 1.0179  
Batch 20/248, train\_loss: 0.1637, step time: 1.0162  
Batch 21/248, train\_loss: 0.0813, step time: 1.0155  
Batch 22/248, train\_loss: 0.7356, step time: 1.0140  
Batch 23/248, train\_loss: 0.9949, step time: 1.0134  
Batch 24/248, train\_loss: 0.0785, step time: 1.0151  
Batch 25/248, train\_loss: 0.0546, step time: 1.0132  
Batch 26/248, train\_loss: 0.3826, step time: 1.0176  
Batch 27/248, train\_loss: 0.0871, step time: 1.0155  
Batch 28/248, train\_loss: 0.1620, step time: 1.0179  
Batch 29/248, train\_loss: 0.3828, step time: 1.0218  
Batch 30/248, train\_loss: 0.5148, step time: 1.0188  
Batch 31/248, train\_loss: 0.2896, step time: 1.0199  
Batch 32/248, train\_loss: 0.0743, step time: 1.0142  
Batch 33/248, train\_loss: 0.0709, step time: 1.0128  
Batch 34/248, train\_loss: 0.0461, step time: 1.0138  
Batch 35/248, train\_loss: 0.0511, step time: 1.0113  
Batch 36/248, train\_loss: 0.8562, step time: 1.0290  
Batch 37/248, train\_loss: 0.1765, step time: 1.0158  
Batch 38/248, train\_loss: 0.2709, step time: 1.0144  
Batch 39/248, train\_loss: 0.2322, step time: 1.0126  
Batch 40/248, train\_loss: 0.5665, step time: 1.0183  
Batch 41/248, train\_loss: 0.3018, step time: 1.0181  
Batch 42/248, train\_loss: 0.0646, step time: 1.0121  
Batch 43/248, train\_loss: 0.0513, step time: 1.0152  
Batch 44/248, train\_loss: 0.2169, step time: 1.0171  
Batch 45/248, train\_loss: 0.4324, step time: 1.0188  
Batch 46/248, train\_loss: 0.1815, step time: 1.0170  
Batch 47/248, train\_loss: 0.0604, step time: 1.0142  
Batch 48/248, train\_loss: 0.2255, step time: 1.0172  
Batch 49/248, train\_loss: 0.4947, step time: 1.0183  
Batch 50/248, train\_loss: 0.1274, step time: 1.0145  
Batch 51/248, train\_loss: 0.1692, step time: 1.0176  
Batch 52/248, train\_loss: 0.0976, step time: 1.0130  
Batch 53/248, train\_loss: 0.3909, step time: 1.0190  
Batch 54/248, train\_loss: 0.2207, step time: 1.0175  
Batch 55/248, train\_loss: 0.3476, step time: 1.0183  
Batch 56/248, train\_loss: 0.2115, step time: 1.0141  
Batch 57/248, train\_loss: 0.2200, step time: 1.0158  
Batch 58/248, train\_loss: 0.0701, step time: 1.0144  
Batch 59/248, train\_loss: 0.0886, step time: 1.0156  
Batch 60/248, train\_loss: 0.0513, step time: 1.0145  
Batch 61/248, train\_loss: 0.0921, step time: 1.0129  
Batch 62/248, train\_loss: 0.2142, step time: 1.0168  
Batch 63/248, train\_loss: 0.5862, step time: 1.0184  
Batch 64/248, train\_loss: 0.3828, step time: 1.0176  
Batch 65/248, train\_loss: 0.4760, step time: 1.0179  
Batch 66/248, train\_loss: 0.1295, step time: 1.0164  
Batch 67/248, train\_loss: 0.0751, step time: 1.0158  
Batch 68/248, train\_loss: 0.1328, step time: 1.0167  
Batch 69/248, train\_loss: 0.3665, step time: 1.0195  
Batch 70/248, train\_loss: 0.1324, step time: 1.0176  
Batch 71/248, train\_loss: 0.1456, step time: 1.0187  
Batch 72/248, train\_loss: 0.0641, step time: 1.0112  
Batch 73/248, train\_loss: 0.1565, step time: 1.0136  
Batch 74/248, train\_loss: 0.9974, step time: 1.0121  
Batch 75/248, train\_loss: 0.1116, step time: 1.0159  
Batch 76/248, train\_loss: 0.4677, step time: 1.0185  
Batch 77/248, train\_loss: 0.8565, step time: 1.0156  
Batch 78/248, train\_loss: 0.1235, step time: 1.0162  
Batch 79/248, train\_loss: 0.1098, step time: 1.0157

Batch 80/248, train\_loss: 0.1876, step time: 1.0166  
Batch 81/248, train\_loss: 0.1988, step time: 1.0169  
Batch 82/248, train\_loss: 0.0817, step time: 1.0158  
Batch 83/248, train\_loss: 0.6164, step time: 1.0190  
Batch 84/248, train\_loss: 0.2644, step time: 1.0166  
Batch 85/248, train\_loss: 0.2998, step time: 1.0178  
Batch 86/248, train\_loss: 0.2237, step time: 1.0153  
Batch 87/248, train\_loss: 0.4688, step time: 1.0163  
Batch 88/248, train\_loss: 0.3084, step time: 1.0173  
Batch 89/248, train\_loss: 0.0891, step time: 1.0159  
Batch 90/248, train\_loss: 0.3486, step time: 1.0190  
Batch 91/248, train\_loss: 0.4501, step time: 1.0203  
Batch 92/248, train\_loss: 0.3247, step time: 1.0176  
Batch 93/248, train\_loss: 0.1550, step time: 1.0148  
Batch 94/248, train\_loss: 0.4050, step time: 1.0165  
Batch 95/248, train\_loss: 0.1697, step time: 1.0162  
Batch 96/248, train\_loss: 0.1604, step time: 1.0174  
Batch 97/248, train\_loss: 0.3599, step time: 1.0210  
Batch 98/248, train\_loss: 0.1081, step time: 1.0183  
Batch 99/248, train\_loss: 0.3311, step time: 1.0201  
Batch 100/248, train\_loss: 0.2638, step time: 1.0191  
Batch 101/248, train\_loss: 0.0529, step time: 1.0102  
Batch 102/248, train\_loss: 0.1118, step time: 1.0161  
Batch 103/248, train\_loss: 0.3563, step time: 1.0152  
Batch 104/248, train\_loss: 0.3085, step time: 1.0146  
Batch 105/248, train\_loss: 0.0821, step time: 1.0164  
Batch 106/248, train\_loss: 0.1013, step time: 1.0166  
Batch 107/248, train\_loss: 0.2014, step time: 1.0199  
Batch 108/248, train\_loss: 0.7070, step time: 1.0197  
Batch 109/248, train\_loss: 0.9789, step time: 1.0162  
Batch 110/248, train\_loss: 0.2501, step time: 1.0181  
Batch 111/248, train\_loss: 0.1142, step time: 1.0162  
Batch 112/248, train\_loss: 0.1202, step time: 1.0145  
Batch 113/248, train\_loss: 0.8709, step time: 1.0141  
Batch 114/248, train\_loss: 0.1360, step time: 1.0114  
Batch 115/248, train\_loss: 0.1577, step time: 1.0135  
Batch 116/248, train\_loss: 0.0858, step time: 1.0155  
Batch 117/248, train\_loss: 0.8758, step time: 1.0174  
Batch 118/248, train\_loss: 0.5353, step time: 1.0184  
Batch 119/248, train\_loss: 0.3227, step time: 1.0168  
Batch 120/248, train\_loss: 0.2320, step time: 1.0153  
Batch 121/248, train\_loss: 0.2627, step time: 1.0195  
Batch 122/248, train\_loss: 0.3747, step time: 1.0188  
Batch 123/248, train\_loss: 0.0884, step time: 1.0167  
Batch 124/248, train\_loss: 0.2782, step time: 1.0187  
Batch 125/248, train\_loss: 0.6663, step time: 1.0204  
Batch 126/248, train\_loss: 0.2756, step time: 1.0170  
Batch 127/248, train\_loss: 0.1025, step time: 1.0174  
Batch 128/248, train\_loss: 0.3321, step time: 1.0194  
Batch 129/248, train\_loss: 0.1280, step time: 1.0140  
Batch 130/248, train\_loss: 0.0960, step time: 1.0167  
Batch 131/248, train\_loss: 0.4662, step time: 1.0164  
Batch 132/248, train\_loss: 0.4398, step time: 1.0183  
Batch 133/248, train\_loss: 0.1619, step time: 1.0169  
Batch 134/248, train\_loss: 0.7125, step time: 1.0184  
Batch 135/248, train\_loss: 0.2343, step time: 1.0177  
Batch 136/248, train\_loss: 0.0999, step time: 1.0125  
Batch 137/248, train\_loss: 0.1608, step time: 1.0173  
Batch 138/248, train\_loss: 0.0799, step time: 1.0168  
Batch 139/248, train\_loss: 0.2614, step time: 1.0158  
Batch 140/248, train\_loss: 0.1967, step time: 1.0138  
Batch 141/248, train\_loss: 0.2819, step time: 1.0152  
Batch 142/248, train\_loss: 0.5020, step time: 1.0184  
Batch 143/248, train\_loss: 0.2541, step time: 1.0165  
Batch 144/248, train\_loss: 0.1170, step time: 1.0119  
Batch 145/248, train\_loss: 0.1059, step time: 1.0163  
Batch 146/248, train\_loss: 0.7446, step time: 1.0177  
Batch 147/248, train\_loss: 0.0379, step time: 1.0099  
Batch 148/248, train\_loss: 0.7331, step time: 1.0175  
Batch 149/248, train\_loss: 0.1113, step time: 1.0137  
Batch 150/248, train\_loss: 0.6526, step time: 1.0130  
Batch 151/248, train\_loss: 0.3050, step time: 1.0199  
Batch 152/248, train\_loss: 0.0396, step time: 1.0171  
Batch 153/248, train\_loss: 0.3777, step time: 1.0201  
Batch 154/248, train\_loss: 0.6538, step time: 1.0200  
Batch 155/248, train\_loss: 0.1889, step time: 1.0168  
Batch 156/248, train\_loss: 0.1704, step time: 1.0179  
Batch 157/248, train\_loss: 0.2079, step time: 1.0147  
Batch 158/248, train\_loss: 0.9939, step time: 1.0130  
Batch 159/248, train\_loss: 0.3403, step time: 1.0188  
Batch 160/248, train\_loss: 0.1165, step time: 1.0155  
Batch 161/248, train\_loss: 0.1155, step time: 1.0159  
Batch 162/248, train\_loss: 0.0757, step time: 1.0154  
Batch 163/248, train\_loss: 0.1440, step time: 1.0166  
Batch 164/248, train\_loss: 0.1400, step time: 1.0149

Batch 104/248, train\_loss: 0.1400, step time: 1.0147  
Batch 165/248, train\_loss: 0.5341, step time: 1.0176  
Batch 166/248, train\_loss: 0.0765, step time: 1.0156  
Batch 167/248, train\_loss: 0.1817, step time: 1.0153  
Batch 168/248, train\_loss: 0.1605, step time: 1.0166  
Batch 169/248, train\_loss: 0.0827, step time: 1.0152  
Batch 170/248, train\_loss: 0.6757, step time: 1.0161  
Batch 171/248, train\_loss: 0.0906, step time: 1.0140  
Batch 172/248, train\_loss: 0.5690, step time: 1.0183  
Batch 173/248, train\_loss: 0.0817, step time: 1.0151  
Batch 174/248, train\_loss: 0.8717, step time: 1.0170  
Batch 175/248, train\_loss: 0.1659, step time: 1.0166  
Batch 176/248, train\_loss: 0.4246, step time: 1.0187  
Batch 177/248, train\_loss: 0.3337, step time: 1.0192  
Batch 178/248, train\_loss: 0.2779, step time: 1.0165  
Batch 179/248, train\_loss: 0.0897, step time: 1.0165  
Batch 180/248, train\_loss: 0.3519, step time: 1.0136  
Batch 181/248, train\_loss: 0.1157, step time: 1.0137  
Batch 182/248, train\_loss: 0.9251, step time: 1.0173  
Batch 183/248, train\_loss: 0.1918, step time: 1.0174  
Batch 184/248, train\_loss: 0.5142, step time: 1.0174  
Batch 185/248, train\_loss: 0.0861, step time: 1.0157  
Batch 186/248, train\_loss: 0.0979, step time: 1.0151  
Batch 187/248, train\_loss: 0.1435, step time: 1.0141  
Batch 188/248, train\_loss: 0.2342, step time: 1.0173  
Batch 189/248, train\_loss: 0.6293, step time: 1.0198  
Batch 190/248, train\_loss: 0.1313, step time: 1.0136  
Batch 191/248, train\_loss: 0.5835, step time: 1.0179  
Batch 192/248, train\_loss: 0.3291, step time: 1.0177  
Batch 193/248, train\_loss: 0.3153, step time: 1.0147  
Batch 194/248, train\_loss: 0.0759, step time: 1.0148  
Batch 195/248, train\_loss: 0.6269, step time: 1.0208  
Batch 196/248, train\_loss: 0.9931, step time: 1.0146  
Batch 197/248, train\_loss: 0.1956, step time: 1.0160  
Batch 198/248, train\_loss: 0.5635, step time: 1.0187  
Batch 199/248, train\_loss: 0.1226, step time: 1.0136  
Batch 200/248, train\_loss: 0.1246, step time: 1.0150  
Batch 201/248, train\_loss: 0.1240, step time: 1.0110  
Batch 202/248, train\_loss: 0.3483, step time: 1.0145  
Batch 203/248, train\_loss: 0.5424, step time: 1.0175  
Batch 204/248, train\_loss: 0.0801, step time: 1.0156  
Batch 205/248, train\_loss: 0.2291, step time: 1.0164  
Batch 206/248, train\_loss: 0.4082, step time: 1.0195  
Batch 207/248, train\_loss: 0.0793, step time: 1.0165  
Batch 208/248, train\_loss: 0.1304, step time: 1.0158  
Batch 209/248, train\_loss: 0.1317, step time: 1.0153  
Batch 210/248, train\_loss: 0.0645, step time: 1.0155  
Batch 211/248, train\_loss: 0.0627, step time: 1.0156  
Batch 212/248, train\_loss: 0.3207, step time: 1.0174  
Batch 213/248, train\_loss: 0.1709, step time: 1.0191  
Batch 214/248, train\_loss: 0.0723, step time: 1.0140  
Batch 215/248, train\_loss: 0.1768, step time: 1.0181  
Batch 216/248, train\_loss: 0.1268, step time: 1.0139  
Batch 217/248, train\_loss: 0.2506, step time: 1.0186  
Batch 218/248, train\_loss: 0.7769, step time: 1.0196  
Batch 219/248, train\_loss: 0.0645, step time: 1.0160  
Batch 220/248, train\_loss: 0.2068, step time: 1.0164  
Batch 221/248, train\_loss: 0.2926, step time: 1.0163  
Batch 222/248, train\_loss: 0.1979, step time: 1.0134  
Batch 223/248, train\_loss: 0.0387, step time: 1.0100  
Batch 224/248, train\_loss: 0.0785, step time: 1.0115  
Batch 225/248, train\_loss: 0.1723, step time: 1.0170  
Batch 226/248, train\_loss: 0.2630, step time: 1.0178  
Batch 227/248, train\_loss: 0.0840, step time: 1.0132  
Batch 228/248, train\_loss: 0.1384, step time: 1.0126  
Batch 229/248, train\_loss: 0.1103, step time: 1.0113  
Batch 230/248, train\_loss: 0.0863, step time: 1.0219  
Batch 231/248, train\_loss: 0.2994, step time: 1.0162  
Batch 232/248, train\_loss: 0.0761, step time: 1.0142  
Batch 233/248, train\_loss: 0.7740, step time: 1.0186  
Batch 234/248, train\_loss: 0.5546, step time: 1.0187  
Batch 235/248, train\_loss: 0.5297, step time: 1.0186  
Batch 236/248, train\_loss: 0.7149, step time: 1.0179  
Batch 237/248, train\_loss: 0.1089, step time: 1.0183  
Batch 238/248, train\_loss: 0.1025, step time: 1.0155  
Batch 239/248, train\_loss: 0.0703, step time: 1.0178  
Batch 240/248, train\_loss: 0.2866, step time: 1.0180  
Batch 241/248, train\_loss: 0.5168, step time: 1.0185  
Batch 242/248, train\_loss: 0.1606, step time: 1.0168  
Batch 243/248, train\_loss: 0.5800, step time: 1.0183  
Batch 244/248, train\_loss: 0.4465, step time: 1.0153  
Batch 245/248, train\_loss: 0.0619, step time: 1.0152  
Batch 246/248, train\_loss: 0.5514, step time: 1.0149  
Batch 247/248, train\_loss: 0.0794, step time: 1.0141  
Batch 248/248, train\_loss: 0.9997, step time: 1.0119

Labels

TC



WT



ET



Predictions



VAL

```
Batch 1/31, val_loss: 0.9347
Batch 2/31, val_loss: 0.9942
Batch 3/31, val_loss: 0.9596
Batch 4/31, val_loss: 0.9386
Batch 5/31, val_loss: 0.9929
Batch 6/31, val_loss: 0.6980
Batch 7/31, val_loss: 0.8258
Batch 8/31, val_loss: 0.9546
Batch 9/31, val_loss: 0.6918
Batch 10/31, val_loss: 0.9067
Batch 11/31, val_loss: 0.8230
Batch 12/31, val_loss: 0.9722
Batch 13/31, val_loss: 0.9804
Batch 14/31, val_loss: 0.9460
Batch 15/31, val_loss: 0.9959
Batch 16/31, val_loss: 0.9729
Batch 17/31, val_loss: 0.9722
Batch 18/31, val_loss: 0.9355
Batch 19/31, val_loss: 0.7439
Batch 20/31, val_loss: 0.8852
Batch 21/31, val_loss: 0.8639
Batch 22/31, val_loss: 0.9717
Batch 23/31, val_loss: 0.9778
Batch 24/31, val_loss: 0.7472
Batch 25/31, val_loss: 0.8005
Batch 26/31, val_loss: 0.9167
Batch 27/31, val_loss: 0.9705
Batch 28/31, val_loss: 0.7687
Batch 29/31, val_loss: 0.9845
Batch 30/31, val_loss: 0.9578
Batch 31/31, val_loss: 0.9783
```

Labels

TC



WT



ET



Predictions



epoch 62

```
average train loss: 0.2907
average validation loss: 0.9052
saved as best model: False
current mean dice: 0.4981
current TC dice: 0.5164
current WT dice: 0.5248
```

```
-----  
current ET dice: 0.4964  
Best Mean Metric: 0.5060  
time consuming of epoch 62 is: 1572.2525  
-----  
epoch 63/100  
TRAIN  
Batch 1/248, train_loss: 0.0967, step time: 1.0155  
Batch 2/248, train_loss: 0.7380, step time: 1.0192  
Batch 3/248, train_loss: 0.2755, step time: 1.0154  
Batch 4/248, train_loss: 0.9191, step time: 1.0173  
Batch 5/248, train_loss: 0.1918, step time: 1.0150  
Batch 6/248, train_loss: 0.4344, step time: 1.0211  
Batch 7/248, train_loss: 0.0750, step time: 1.0133  
Batch 8/248, train_loss: 0.7096, step time: 1.0138  
Batch 9/248, train_loss: 0.0448, step time: 1.0124  
Batch 10/248, train_loss: 0.2231, step time: 1.0184  
Batch 11/248, train_loss: 0.1572, step time: 1.0149  
Batch 12/248, train_loss: 0.4129, step time: 1.0191  
Batch 13/248, train_loss: 0.3279, step time: 1.0175  
Batch 14/248, train_loss: 0.0582, step time: 1.0151  
Batch 15/248, train_loss: 0.3092, step time: 1.0162  
Batch 16/248, train_loss: 0.1342, step time: 1.0150  
Batch 17/248, train_loss: 0.2581, step time: 1.0188  
Batch 18/248, train_loss: 0.4254, step time: 1.0182  
Batch 19/248, train_loss: 0.1268, step time: 1.0148  
Batch 20/248, train_loss: 0.1612, step time: 1.0172  
Batch 21/248, train_loss: 0.0637, step time: 1.0154  
Batch 22/248, train_loss: 0.8417, step time: 1.0191  
Batch 23/248, train_loss: 0.9983, step time: 1.0119  
Batch 24/248, train_loss: 0.0809, step time: 1.0166  
Batch 25/248, train_loss: 0.0587, step time: 1.0162  
Batch 26/248, train_loss: 0.4381, step time: 1.0222  
Batch 27/248, train_loss: 0.0712, step time: 1.0153  
Batch 28/248, train_loss: 0.1677, step time: 1.0226  
Batch 29/248, train_loss: 0.4260, step time: 1.0191  
Batch 30/248, train_loss: 0.2234, step time: 1.0197  
Batch 31/248, train_loss: 0.2475, step time: 1.0168  
Batch 32/248, train_loss: 0.0724, step time: 1.0172  
Batch 33/248, train_loss: 0.0683, step time: 1.0148  
Batch 34/248, train_loss: 0.0470, step time: 1.0123  
Batch 35/248, train_loss: 0.0479, step time: 1.0135  
Batch 36/248, train_loss: 0.6174, step time: 1.0237  
Batch 37/248, train_loss: 0.1405, step time: 1.0132  
Batch 38/248, train_loss: 0.2497, step time: 1.0149  
Batch 39/248, train_loss: 0.4550, step time: 1.0159  
Batch 40/248, train_loss: 0.7038, step time: 1.0187  
Batch 41/248, train_loss: 0.2328, step time: 1.0173  
Batch 42/248, train_loss: 0.0573, step time: 1.0178  
Batch 43/248, train_loss: 0.0574, step time: 1.0164  
Batch 44/248, train_loss: 0.1698, step time: 1.0182  
Batch 45/248, train_loss: 0.4134, step time: 1.0171  
Batch 46/248, train_loss: 0.1773, step time: 1.0186  
Batch 47/248, train_loss: 0.0684, step time: 1.0132  
Batch 48/248, train_loss: 0.2019, step time: 1.0157  
Batch 49/248, train_loss: 0.5315, step time: 1.0194  
Batch 50/248, train_loss: 0.1345, step time: 1.0165  
Batch 51/248, train_loss: 0.1345, step time: 1.0158  
Batch 52/248, train_loss: 0.0999, step time: 1.0175  
Batch 53/248, train_loss: 0.4375, step time: 1.0215  
Batch 54/248, train_loss: 0.2335, step time: 1.0184  
Batch 55/248, train_loss: 0.3424, step time: 1.0169  
Batch 56/248, train_loss: 0.2637, step time: 1.0163  
Batch 57/248, train_loss: 0.3506, step time: 1.0151  
Batch 58/248, train_loss: 0.0911, step time: 1.0182  
Batch 59/248, train_loss: 0.0987, step time: 1.0126  
Batch 60/248, train_loss: 0.0526, step time: 1.0158  
Batch 61/248, train_loss: 0.0964, step time: 1.0138  
Batch 62/248, train_loss: 0.2004, step time: 1.0170  
Batch 63/248, train_loss: 0.7091, step time: 1.0184  
Batch 64/248, train_loss: 0.5592, step time: 1.0196  
Batch 65/248, train_loss: 0.3221, step time: 1.0182  
Batch 66/248, train_loss: 0.1472, step time: 1.0187  
Batch 67/248, train_loss: 0.0676, step time: 1.0155  
Batch 68/248, train_loss: 0.1284, step time: 1.0176  
Batch 69/248, train_loss: 0.3522, step time: 1.0188  
Batch 70/248, train_loss: 0.1327, step time: 1.0163  
Batch 71/248, train_loss: 0.1460, step time: 1.0170  
Batch 72/248, train_loss: 0.0655, step time: 1.0134  
Batch 73/248, train_loss: 0.2772, step time: 1.0125  
Batch 74/248, train_loss: 0.9971, step time: 1.0126  
Batch 75/248, train_loss: 0.1383, step time: 1.0155  
Batch 76/248, train_loss: 0.5077, step time: 1.0181  
Batch 77/248, train_loss: 0.8157, step time: 1.0170  
Batch 78/248, train_loss: 0.1056, step time: 1.0154  
Batch 79/248, train_loss: 0.1501, step time: 1.0152
```

Batch 79/248, train\_loss: 0.1551, step time: 1.0164  
Batch 80/248, train\_loss: 0.1816, step time: 1.0164  
Batch 81/248, train\_loss: 0.1572, step time: 1.0186  
Batch 82/248, train\_loss: 0.0835, step time: 1.0174  
Batch 83/248, train\_loss: 0.4971, step time: 1.0154  
Batch 84/248, train\_loss: 0.2505, step time: 1.0147  
Batch 85/248, train\_loss: 0.3736, step time: 1.0148  
Batch 86/248, train\_loss: 0.2924, step time: 1.0177  
Batch 87/248, train\_loss: 0.5323, step time: 1.0185  
Batch 88/248, train\_loss: 0.3442, step time: 1.0173  
Batch 89/248, train\_loss: 0.0936, step time: 1.0123  
Batch 90/248, train\_loss: 0.2485, step time: 1.0173  
Batch 91/248, train\_loss: 0.3930, step time: 1.0177  
Batch 92/248, train\_loss: 0.2623, step time: 1.0140  
Batch 93/248, train\_loss: 0.1319, step time: 1.0136  
Batch 94/248, train\_loss: 0.3756, step time: 1.0196  
Batch 95/248, train\_loss: 0.1802, step time: 1.0149  
Batch 96/248, train\_loss: 0.1419, step time: 1.0149  
Batch 97/248, train\_loss: 0.3532, step time: 1.0165  
Batch 98/248, train\_loss: 0.0961, step time: 1.0164  
Batch 99/248, train\_loss: 0.3069, step time: 1.0139  
Batch 100/248, train\_loss: 0.2643, step time: 1.0170  
Batch 101/248, train\_loss: 0.0537, step time: 1.0096  
Batch 102/248, train\_loss: 0.1004, step time: 1.0148  
Batch 103/248, train\_loss: 0.3767, step time: 1.0178  
Batch 104/248, train\_loss: 0.3363, step time: 1.0169  
Batch 105/248, train\_loss: 0.0792, step time: 1.0134  
Batch 106/248, train\_loss: 0.1056, step time: 1.0142  
Batch 107/248, train\_loss: 0.2122, step time: 1.0165  
Batch 108/248, train\_loss: 0.4144, step time: 1.0183  
Batch 109/248, train\_loss: 0.9728, step time: 1.0163  
Batch 110/248, train\_loss: 0.2368, step time: 1.0174  
Batch 111/248, train\_loss: 0.0915, step time: 1.0162  
Batch 112/248, train\_loss: 0.1417, step time: 1.0175  
Batch 113/248, train\_loss: 0.9107, step time: 1.0187  
Batch 114/248, train\_loss: 0.1830, step time: 1.0173  
Batch 115/248, train\_loss: 0.2095, step time: 1.0177  
Batch 116/248, train\_loss: 0.0860, step time: 1.0135  
Batch 117/248, train\_loss: 0.6712, step time: 1.0179  
Batch 118/248, train\_loss: 0.8129, step time: 1.0188  
Batch 119/248, train\_loss: 0.4744, step time: 1.0164  
Batch 120/248, train\_loss: 0.2505, step time: 1.0140  
Batch 121/248, train\_loss: 0.2761, step time: 1.0170  
Batch 122/248, train\_loss: 0.4649, step time: 1.0186  
Batch 123/248, train\_loss: 0.1041, step time: 1.0168  
Batch 124/248, train\_loss: 0.2546, step time: 1.0191  
Batch 125/248, train\_loss: 0.6866, step time: 1.0215  
Batch 126/248, train\_loss: 0.2466, step time: 1.0177  
Batch 127/248, train\_loss: 0.1290, step time: 1.0190  
Batch 128/248, train\_loss: 0.3973, step time: 1.0194  
Batch 129/248, train\_loss: 0.1273, step time: 1.0165  
Batch 130/248, train\_loss: 0.0865, step time: 1.0148  
Batch 131/248, train\_loss: 0.5935, step time: 1.0203  
Batch 132/248, train\_loss: 0.4633, step time: 1.0173  
Batch 133/248, train\_loss: 0.1551, step time: 1.0152  
Batch 134/248, train\_loss: 0.7668, step time: 1.0219  
Batch 135/248, train\_loss: 0.2731, step time: 1.0177  
Batch 136/248, train\_loss: 0.0933, step time: 1.0136  
Batch 137/248, train\_loss: 0.1141, step time: 1.0145  
Batch 138/248, train\_loss: 0.0652, step time: 1.0141  
Batch 139/248, train\_loss: 0.2451, step time: 1.0145  
Batch 140/248, train\_loss: 0.1775, step time: 1.0166  
Batch 141/248, train\_loss: 0.2104, step time: 1.0161  
Batch 142/248, train\_loss: 0.5609, step time: 1.0213  
Batch 143/248, train\_loss: 0.2368, step time: 1.0171  
Batch 144/248, train\_loss: 0.1178, step time: 1.0125  
Batch 145/248, train\_loss: 0.1241, step time: 1.0158  
Batch 146/248, train\_loss: 0.6563, step time: 1.0177  
Batch 147/248, train\_loss: 0.0374, step time: 1.0129  
Batch 148/248, train\_loss: 0.8108, step time: 1.0175  
Batch 149/248, train\_loss: 0.1096, step time: 1.0165  
Batch 150/248, train\_loss: 0.6560, step time: 1.0140  
Batch 151/248, train\_loss: 0.2860, step time: 1.0156  
Batch 152/248, train\_loss: 0.0411, step time: 1.0133  
Batch 153/248, train\_loss: 0.2940, step time: 1.0194  
Batch 154/248, train\_loss: 0.7606, step time: 1.0191  
Batch 155/248, train\_loss: 0.1637, step time: 1.0197  
Batch 156/248, train\_loss: 0.1743, step time: 1.0170  
Batch 157/248, train\_loss: 0.2503, step time: 1.0176  
Batch 158/248, train\_loss: 0.9917, step time: 1.0105  
Batch 159/248, train\_loss: 0.3850, step time: 1.0197  
Batch 160/248, train\_loss: 0.0985, step time: 1.0147  
Batch 161/248, train\_loss: 0.1074, step time: 1.0192  
Batch 162/248, train\_loss: 0.0854, step time: 1.0165  
Batch 163/248, train\_loss: 0.1148, step time: 1.0162

Batch 164/248, train\_loss: 0.2565, step time: 1.0145  
Batch 165/248, train\_loss: 0.5295, step time: 1.0182  
Batch 166/248, train\_loss: 0.0922, step time: 1.0156  
Batch 167/248, train\_loss: 0.2007, step time: 1.0203  
Batch 168/248, train\_loss: 0.1606, step time: 1.0166  
Batch 169/248, train\_loss: 0.0849, step time: 1.0169  
Batch 170/248, train\_loss: 0.6732, step time: 1.0195  
Batch 171/248, train\_loss: 0.1011, step time: 1.0136  
Batch 172/248, train\_loss: 0.3686, step time: 1.0179  
Batch 173/248, train\_loss: 0.0819, step time: 1.0144  
Batch 174/248, train\_loss: 0.5270, step time: 1.0165  
Batch 175/248, train\_loss: 0.1530, step time: 1.0144  
Batch 176/248, train\_loss: 0.3272, step time: 1.0180  
Batch 177/248, train\_loss: 0.2095, step time: 1.0191  
Batch 178/248, train\_loss: 0.3122, step time: 1.0233  
Batch 179/248, train\_loss: 0.0905, step time: 1.0153  
Batch 180/248, train\_loss: 0.3367, step time: 1.0170  
Batch 181/248, train\_loss: 0.1110, step time: 1.0159  
Batch 182/248, train\_loss: 0.9418, step time: 1.0181  
Batch 183/248, train\_loss: 0.1359, step time: 1.0167  
Batch 184/248, train\_loss: 0.3287, step time: 1.0175  
Batch 185/248, train\_loss: 0.0905, step time: 1.0188  
Batch 186/248, train\_loss: 0.1125, step time: 1.0183  
Batch 187/248, train\_loss: 0.1646, step time: 1.0177  
Batch 188/248, train\_loss: 0.2959, step time: 1.0164  
Batch 189/248, train\_loss: 0.5696, step time: 1.0179  
Batch 190/248, train\_loss: 0.1245, step time: 1.0145  
Batch 191/248, train\_loss: 0.5879, step time: 1.0162  
Batch 192/248, train\_loss: 0.3007, step time: 1.0182  
Batch 193/248, train\_loss: 0.3282, step time: 1.0177  
Batch 194/248, train\_loss: 0.0764, step time: 1.0176  
Batch 195/248, train\_loss: 0.6330, step time: 1.0158  
Batch 196/248, train\_loss: 0.9957, step time: 1.0132  
Batch 197/248, train\_loss: 0.1788, step time: 1.0182  
Batch 198/248, train\_loss: 0.5167, step time: 1.0190  
Batch 199/248, train\_loss: 0.1226, step time: 1.0200  
Batch 200/248, train\_loss: 0.1336, step time: 1.0142  
Batch 201/248, train\_loss: 0.1192, step time: 1.0149  
Batch 202/248, train\_loss: 0.3425, step time: 1.0176  
Batch 203/248, train\_loss: 0.6088, step time: 1.0188  
Batch 204/248, train\_loss: 0.0866, step time: 1.0153  
Batch 205/248, train\_loss: 0.2329, step time: 1.0154  
Batch 206/248, train\_loss: 0.3680, step time: 1.0194  
Batch 207/248, train\_loss: 0.1027, step time: 1.0186  
Batch 208/248, train\_loss: 0.1863, step time: 1.0193  
Batch 209/248, train\_loss: 0.1644, step time: 1.0188  
Batch 210/248, train\_loss: 0.0591, step time: 1.0116  
Batch 211/248, train\_loss: 0.0543, step time: 1.0120  
Batch 212/248, train\_loss: 0.1945, step time: 1.0121  
Batch 213/248, train\_loss: 0.1569, step time: 1.0188  
Batch 214/248, train\_loss: 0.0724, step time: 1.0157  
Batch 215/248, train\_loss: 0.1685, step time: 1.0181  
Batch 216/248, train\_loss: 0.1331, step time: 1.0243  
Batch 217/248, train\_loss: 0.3031, step time: 1.0188  
Batch 218/248, train\_loss: 0.8199, step time: 1.0182  
Batch 219/248, train\_loss: 0.0664, step time: 1.0174  
Batch 220/248, train\_loss: 0.2005, step time: 1.0182  
Batch 221/248, train\_loss: 0.2635, step time: 1.0161  
Batch 222/248, train\_loss: 0.1759, step time: 1.0160  
Batch 223/248, train\_loss: 0.0412, step time: 1.0134  
Batch 224/248, train\_loss: 0.0772, step time: 1.0129  
Batch 225/248, train\_loss: 0.2414, step time: 1.0191  
Batch 226/248, train\_loss: 0.1287, step time: 1.0169  
Batch 227/248, train\_loss: 0.0814, step time: 1.0126  
Batch 228/248, train\_loss: 0.1437, step time: 1.0169  
Batch 229/248, train\_loss: 0.1073, step time: 1.0149  
Batch 230/248, train\_loss: 0.0738, step time: 1.0173  
Batch 231/248, train\_loss: 0.3242, step time: 1.0259  
Batch 232/248, train\_loss: 0.0839, step time: 1.0171  
Batch 233/248, train\_loss: 0.7874, step time: 1.0197  
Batch 234/248, train\_loss: 0.4533, step time: 1.0155  
Batch 235/248, train\_loss: 0.3426, step time: 1.0212  
Batch 236/248, train\_loss: 0.7714, step time: 1.0198  
Batch 237/248, train\_loss: 0.1088, step time: 1.0158  
Batch 238/248, train\_loss: 0.0997, step time: 1.0149  
Batch 239/248, train\_loss: 0.0719, step time: 1.0188  
Batch 240/248, train\_loss: 0.3842, step time: 1.0237  
Batch 241/248, train\_loss: 0.4438, step time: 1.0194  
Batch 242/248, train\_loss: 0.1435, step time: 1.0146  
Batch 243/248, train\_loss: 0.5978, step time: 1.0182  
Batch 244/248, train\_loss: 0.5065, step time: 1.0178  
Batch 245/248, train\_loss: 0.0693, step time: 1.0118  
Batch 246/248, train\_loss: 0.5634, step time: 1.0174  
Batch 247/248, train\_loss: 0.0820, step time: 1.0144  
Batch 248/248, train\_loss: 0.9997, step time: 1.0080

Labels

TC



WT



ET



Predictions



VAL

```
Batch 1/31, val_loss: 0.9423
Batch 2/31, val_loss: 0.9933
Batch 3/31, val_loss: 0.9620
Batch 4/31, val_loss: 0.9401
Batch 5/31, val_loss: 0.9926
Batch 6/31, val_loss: 0.6945
Batch 7/31, val_loss: 0.8237
Batch 8/31, val_loss: 0.9581
Batch 9/31, val_loss: 0.6932
Batch 10/31, val_loss: 0.9059
Batch 11/31, val_loss: 0.8212
Batch 12/31, val_loss: 0.9728
Batch 13/31, val_loss: 0.9885
Batch 14/31, val_loss: 0.9385
Batch 15/31, val_loss: 0.9922
Batch 16/31, val_loss: 0.9739
Batch 17/31, val_loss: 0.9697
Batch 18/31, val_loss: 0.9362
Batch 19/31, val_loss: 0.7447
Batch 20/31, val_loss: 0.8763
Batch 21/31, val_loss: 0.8614
Batch 22/31, val_loss: 0.9698
Batch 23/31, val_loss: 0.9749
Batch 24/31, val_loss: 0.7509
Batch 25/31, val_loss: 0.8015
Batch 26/31, val_loss: 0.9172
Batch 27/31, val_loss: 0.9690
Batch 28/31, val_loss: 0.7465
Batch 29/31, val_loss: 0.9843
Batch 30/31, val_loss: 0.9589
Batch 31/31, val_loss: 0.9803
```

Labels

TC



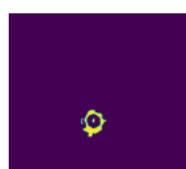
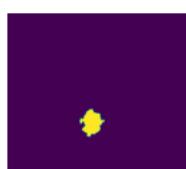
WT



ET



Predictions



epoch 63

```
average train loss: 0.2875
average validation loss: 0.9043
saved as best model: False
current mean dice: 0.4978
current TC dice: 0.5145
    0.0000000000000000
    0.0000000000000000
    0.0000000000000000
```

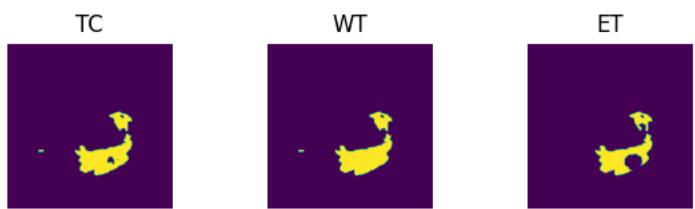
```
current WI dice: 0.5233
current ET dice: 0.4994
Best Mean Metric: 0.5060
time consuming of epoch 63 is: 1568.1414
-----
epoch 64/100
TRAIN
Batch 1/248, train_loss: 0.0989, step time: 1.0170
Batch 2/248, train_loss: 0.7833, step time: 1.0222
Batch 3/248, train_loss: 0.3036, step time: 1.0191
Batch 4/248, train_loss: 0.9012, step time: 1.0175
Batch 5/248, train_loss: 0.2165, step time: 1.0164
Batch 6/248, train_loss: 0.4452, step time: 1.0178
Batch 7/248, train_loss: 0.0684, step time: 1.0246
Batch 8/248, train_loss: 0.6884, step time: 1.0171
Batch 9/248, train_loss: 0.0435, step time: 1.0174
Batch 10/248, train_loss: 0.2358, step time: 1.0196
Batch 11/248, train_loss: 0.2491, step time: 1.0168
Batch 12/248, train_loss: 0.3916, step time: 1.0203
Batch 13/248, train_loss: 0.3284, step time: 1.0192
Batch 14/248, train_loss: 0.0573, step time: 1.0150
Batch 15/248, train_loss: 0.2954, step time: 1.0183
Batch 16/248, train_loss: 0.1369, step time: 1.0155
Batch 17/248, train_loss: 0.2904, step time: 1.0168
Batch 18/248, train_loss: 0.3527, step time: 1.0170
Batch 19/248, train_loss: 0.1304, step time: 1.0161
Batch 20/248, train_loss: 0.1342, step time: 1.0171
Batch 21/248, train_loss: 0.0633, step time: 1.0158
Batch 22/248, train_loss: 0.5236, step time: 1.0211
Batch 23/248, train_loss: 0.9977, step time: 1.0094
Batch 24/248, train_loss: 0.0861, step time: 1.0176
Batch 25/248, train_loss: 0.0609, step time: 1.0148
Batch 26/248, train_loss: 0.5385, step time: 1.0210
Batch 27/248, train_loss: 0.0724, step time: 1.0165
Batch 28/248, train_loss: 0.1953, step time: 1.0198
Batch 29/248, train_loss: 0.3793, step time: 1.0184
Batch 30/248, train_loss: 0.2323, step time: 1.0188
Batch 31/248, train_loss: 0.2635, step time: 1.0181
Batch 32/248, train_loss: 0.0798, step time: 1.0183
Batch 33/248, train_loss: 0.0707, step time: 1.0135
Batch 34/248, train_loss: 0.0449, step time: 1.0130
Batch 35/248, train_loss: 0.0482, step time: 1.0230
Batch 36/248, train_loss: 0.4374, step time: 1.0186
Batch 37/248, train_loss: 0.1836, step time: 1.0161
Batch 38/248, train_loss: 0.2925, step time: 1.0165
Batch 39/248, train_loss: 0.1911, step time: 1.0144
Batch 40/248, train_loss: 0.5300, step time: 1.0164
Batch 41/248, train_loss: 0.3202, step time: 1.0159
Batch 42/248, train_loss: 0.0730, step time: 1.0144
Batch 43/248, train_loss: 0.0515, step time: 1.0152
Batch 44/248, train_loss: 0.3023, step time: 1.0188
Batch 45/248, train_loss: 0.3783, step time: 1.0169
Batch 46/248, train_loss: 0.1858, step time: 1.0194
Batch 47/248, train_loss: 0.0675, step time: 1.0173
Batch 48/248, train_loss: 0.1892, step time: 1.0184
Batch 49/248, train_loss: 0.4916, step time: 1.0189
Batch 50/248, train_loss: 0.1374, step time: 1.0143
Batch 51/248, train_loss: 0.1262, step time: 1.0170
Batch 52/248, train_loss: 0.1015, step time: 1.0130
Batch 53/248, train_loss: 0.3842, step time: 1.0176
Batch 54/248, train_loss: 0.2639, step time: 1.0193
Batch 55/248, train_loss: 0.2359, step time: 1.0185
Batch 56/248, train_loss: 0.2299, step time: 1.0186
Batch 57/248, train_loss: 0.2249, step time: 1.0181
Batch 58/248, train_loss: 0.0878, step time: 1.0136
Batch 59/248, train_loss: 0.0847, step time: 1.0146
Batch 60/248, train_loss: 0.0556, step time: 1.0159
Batch 61/248, train_loss: 0.0988, step time: 1.0150
Batch 62/248, train_loss: 0.2020, step time: 1.0164
Batch 63/248, train_loss: 0.5640, step time: 1.0178
Batch 64/248, train_loss: 0.3820, step time: 1.0179
Batch 65/248, train_loss: 0.3128, step time: 1.0183
Batch 66/248, train_loss: 0.1614, step time: 1.0195
Batch 67/248, train_loss: 0.0670, step time: 1.0126
Batch 68/248, train_loss: 0.1370, step time: 1.0201
Batch 69/248, train_loss: 0.3412, step time: 1.0232
Batch 70/248, train_loss: 0.1255, step time: 1.0196
Batch 71/248, train_loss: 0.1590, step time: 1.0171
Batch 72/248, train_loss: 0.0626, step time: 1.0124
Batch 73/248, train_loss: 0.2346, step time: 1.0156
Batch 74/248, train_loss: 0.9989, step time: 1.0134
Batch 75/248, train_loss: 0.1371, step time: 1.0168
Batch 76/248, train_loss: 0.5963, step time: 1.0197
Batch 77/248, train_loss: 0.7834, step time: 1.0194
Batch 78/248, train_loss: 0.1190, step time: 1.0288
```

Batch 79/248, train\_loss: 0.1173, step time: 1.0191  
Batch 80/248, train\_loss: 0.1890, step time: 1.0155  
Batch 81/248, train\_loss: 0.1602, step time: 1.0156  
Batch 82/248, train\_loss: 0.0778, step time: 1.0137  
Batch 83/248, train\_loss: 0.5194, step time: 1.0201  
Batch 84/248, train\_loss: 0.2755, step time: 1.0180  
Batch 85/248, train\_loss: 0.8226, step time: 1.0192  
Batch 86/248, train\_loss: 0.2835, step time: 1.0169  
Batch 87/248, train\_loss: 0.4884, step time: 1.0150  
Batch 88/248, train\_loss: 0.3092, step time: 1.0160  
Batch 89/248, train\_loss: 0.1024, step time: 1.0154  
Batch 90/248, train\_loss: 0.3589, step time: 1.0189  
Batch 91/248, train\_loss: 0.3817, step time: 1.0232  
Batch 92/248, train\_loss: 0.3067, step time: 1.0182  
Batch 93/248, train\_loss: 0.1462, step time: 1.0184  
Batch 94/248, train\_loss: 0.3223, step time: 1.0225  
Batch 95/248, train\_loss: 0.1630, step time: 1.0171  
Batch 96/248, train\_loss: 0.1373, step time: 1.0203  
Batch 97/248, train\_loss: 0.4916, step time: 1.0209  
Batch 98/248, train\_loss: 0.1028, step time: 1.0168  
Batch 99/248, train\_loss: 0.2862, step time: 1.0185  
Batch 100/248, train\_loss: 0.3290, step time: 1.0196  
Batch 101/248, train\_loss: 0.0552, step time: 1.0153  
Batch 102/248, train\_loss: 0.1193, step time: 1.0181  
Batch 103/248, train\_loss: 0.6521, step time: 1.0224  
Batch 104/248, train\_loss: 0.3418, step time: 1.0159  
Batch 105/248, train\_loss: 0.0848, step time: 1.0148  
Batch 106/248, train\_loss: 0.2083, step time: 1.0172  
Batch 107/248, train\_loss: 0.1971, step time: 1.0207  
Batch 108/248, train\_loss: 0.7482, step time: 1.0201  
Batch 109/248, train\_loss: 0.8226, step time: 1.0182  
Batch 110/248, train\_loss: 0.2495, step time: 1.0175  
Batch 111/248, train\_loss: 0.2079, step time: 1.0186  
Batch 112/248, train\_loss: 0.1741, step time: 1.0203  
Batch 113/248, train\_loss: 0.9392, step time: 1.0182  
Batch 114/248, train\_loss: 0.1446, step time: 1.0148  
Batch 115/248, train\_loss: 0.1943, step time: 1.0173  
Batch 116/248, train\_loss: 0.0908, step time: 1.0151  
Batch 117/248, train\_loss: 0.7700, step time: 1.0171  
Batch 118/248, train\_loss: 0.5895, step time: 1.0159  
Batch 119/248, train\_loss: 0.2820, step time: 1.0157  
Batch 120/248, train\_loss: 0.2050, step time: 1.0130  
Batch 121/248, train\_loss: 0.2902, step time: 1.0164  
Batch 122/248, train\_loss: 0.4283, step time: 1.0252  
Batch 123/248, train\_loss: 0.0690, step time: 1.0155  
Batch 124/248, train\_loss: 0.3449, step time: 1.0176  
Batch 125/248, train\_loss: 0.5786, step time: 1.0204  
Batch 126/248, train\_loss: 0.1930, step time: 1.0152  
Batch 127/248, train\_loss: 0.0928, step time: 1.0141  
Batch 128/248, train\_loss: 0.1843, step time: 1.0196  
Batch 129/248, train\_loss: 0.1282, step time: 1.0156  
Batch 130/248, train\_loss: 0.1105, step time: 1.0163  
Batch 131/248, train\_loss: 0.4979, step time: 1.0206  
Batch 132/248, train\_loss: 0.5415, step time: 1.0153  
Batch 133/248, train\_loss: 0.1672, step time: 1.0146  
Batch 134/248, train\_loss: 0.8235, step time: 1.0157  
Batch 135/248, train\_loss: 0.4365, step time: 0.9812  
Batch 136/248, train\_loss: 0.1032, step time: 1.0148  
Batch 137/248, train\_loss: 0.1243, step time: 1.0130  
Batch 138/248, train\_loss: 0.0631, step time: 1.0122  
Batch 139/248, train\_loss: 0.2051, step time: 1.0189  
Batch 140/248, train\_loss: 0.1650, step time: 1.0175  
Batch 141/248, train\_loss: 0.2131, step time: 1.0169  
Batch 142/248, train\_loss: 0.5197, step time: 1.0183  
Batch 143/248, train\_loss: 0.2633, step time: 1.0156  
Batch 144/248, train\_loss: 0.1307, step time: 1.0120  
Batch 145/248, train\_loss: 0.0511, step time: 1.0133  
Batch 146/248, train\_loss: 0.5837, step time: 1.0181  
Batch 147/248, train\_loss: 0.0378, step time: 1.0132  
Batch 148/248, train\_loss: 0.7939, step time: 1.0235  
Batch 149/248, train\_loss: 0.1129, step time: 1.0138  
Batch 150/248, train\_loss: 0.7097, step time: 1.0159  
Batch 151/248, train\_loss: 0.4241, step time: 1.0178  
Batch 152/248, train\_loss: 0.0436, step time: 1.0135  
Batch 153/248, train\_loss: 0.2850, step time: 1.0229  
Batch 154/248, train\_loss: 0.6615, step time: 1.0193  
Batch 155/248, train\_loss: 0.1561, step time: 1.0184  
Batch 156/248, train\_loss: 0.2406, step time: 1.0179  
Batch 157/248, train\_loss: 0.2752, step time: 1.0178  
Batch 158/248, train\_loss: 0.9909, step time: 1.0132  
Batch 159/248, train\_loss: 0.7381, step time: 1.0168  
Batch 160/248, train\_loss: 0.0977, step time: 1.0178  
Batch 161/248, train\_loss: 0.0769, step time: 1.0141  
Batch 162/248, train\_loss: 0.0752, step time: 1.0160  
Batch 163/248, train\_loss: 0.1201, step time: 1.0187

Batch 164/248, train\_loss: 0.2013, step time: 1.0187  
Batch 165/248, train\_loss: 0.4411, step time: 1.0187  
Batch 166/248, train\_loss: 0.0774, step time: 1.0153  
Batch 167/248, train\_loss: 0.2016, step time: 1.0149  
Batch 168/248, train\_loss: 0.1579, step time: 1.0171  
Batch 169/248, train\_loss: 0.1039, step time: 1.0175  
Batch 170/248, train\_loss: 0.7254, step time: 1.0170  
Batch 171/248, train\_loss: 0.1062, step time: 1.0147  
Batch 172/248, train\_loss: 0.4802, step time: 1.0170  
Batch 173/248, train\_loss: 0.0877, step time: 1.0153  
Batch 174/248, train\_loss: 0.6586, step time: 1.0194  
Batch 175/248, train\_loss: 0.1443, step time: 1.0199  
Batch 176/248, train\_loss: 0.3321, step time: 1.0186  
Batch 177/248, train\_loss: 0.2482, step time: 1.0193  
Batch 178/248, train\_loss: 0.2525, step time: 1.0154  
Batch 179/248, train\_loss: 0.0879, step time: 1.0153  
Batch 180/248, train\_loss: 0.3502, step time: 1.0161  
Batch 181/248, train\_loss: 0.1188, step time: 1.0130  
Batch 182/248, train\_loss: 0.9474, step time: 1.0158  
Batch 183/248, train\_loss: 0.1445, step time: 1.0177  
Batch 184/248, train\_loss: 0.5634, step time: 1.0197  
Batch 185/248, train\_loss: 0.1054, step time: 1.0154  
Batch 186/248, train\_loss: 0.1115, step time: 1.0112  
Batch 187/248, train\_loss: 0.1846, step time: 1.0155  
Batch 188/248, train\_loss: 0.2860, step time: 1.0187  
Batch 189/248, train\_loss: 0.4276, step time: 1.0211  
Batch 190/248, train\_loss: 0.1254, step time: 1.0168  
Batch 191/248, train\_loss: 0.5869, step time: 1.0189  
Batch 192/248, train\_loss: 0.2859, step time: 1.0175  
Batch 193/248, train\_loss: 0.3039, step time: 1.0160  
Batch 194/248, train\_loss: 0.0753, step time: 1.0168  
Batch 195/248, train\_loss: 0.6339, step time: 1.0197  
Batch 196/248, train\_loss: 0.9998, step time: 1.0056  
Batch 197/248, train\_loss: 0.1641, step time: 1.0161  
Batch 198/248, train\_loss: 0.8809, step time: 1.0179  
Batch 199/248, train\_loss: 0.1235, step time: 1.0165  
Batch 200/248, train\_loss: 0.1377, step time: 1.0154  
Batch 201/248, train\_loss: 0.1157, step time: 1.0144  
Batch 202/248, train\_loss: 0.3576, step time: 1.0172  
Batch 203/248, train\_loss: 0.5699, step time: 1.0175  
Batch 204/248, train\_loss: 0.0794, step time: 1.0129  
Batch 205/248, train\_loss: 0.2129, step time: 1.0131  
Batch 206/248, train\_loss: 0.3529, step time: 1.0171  
Batch 207/248, train\_loss: 0.0923, step time: 1.0157  
Batch 208/248, train\_loss: 0.1703, step time: 1.0158  
Batch 209/248, train\_loss: 0.1507, step time: 1.0156  
Batch 210/248, train\_loss: 0.0575, step time: 1.0167  
Batch 211/248, train\_loss: 0.0598, step time: 1.0146  
Batch 212/248, train\_loss: 0.2262, step time: 1.0148  
Batch 213/248, train\_loss: 0.1454, step time: 1.0162  
Batch 214/248, train\_loss: 0.0685, step time: 1.0108  
Batch 215/248, train\_loss: 0.1911, step time: 1.0199  
Batch 216/248, train\_loss: 0.1240, step time: 1.0132  
Batch 217/248, train\_loss: 0.2429, step time: 1.0154  
Batch 218/248, train\_loss: 0.8076, step time: 1.0198  
Batch 219/248, train\_loss: 0.0666, step time: 1.0141  
Batch 220/248, train\_loss: 0.1916, step time: 1.0157  
Batch 221/248, train\_loss: 0.2776, step time: 1.0192  
Batch 222/248, train\_loss: 0.1732, step time: 1.0145  
Batch 223/248, train\_loss: 0.0429, step time: 1.0164  
Batch 224/248, train\_loss: 0.0788, step time: 1.0136  
Batch 225/248, train\_loss: 0.1857, step time: 1.0174  
Batch 226/248, train\_loss: 0.1180, step time: 1.0177  
Batch 227/248, train\_loss: 0.0896, step time: 1.0116  
Batch 228/248, train\_loss: 0.1387, step time: 1.0206  
Batch 229/248, train\_loss: 0.0983, step time: 1.0142  
Batch 230/248, train\_loss: 0.0647, step time: 1.0142  
Batch 231/248, train\_loss: 0.3575, step time: 1.0187  
Batch 232/248, train\_loss: 0.0703, step time: 1.0127  
Batch 233/248, train\_loss: 0.7696, step time: 1.0179  
Batch 234/248, train\_loss: 0.5173, step time: 1.0213  
Batch 235/248, train\_loss: 0.5071, step time: 1.0191  
Batch 236/248, train\_loss: 0.7222, step time: 1.0158  
Batch 237/248, train\_loss: 0.1075, step time: 1.0133  
Batch 238/248, train\_loss: 0.0945, step time: 1.0173  
Batch 239/248, train\_loss: 0.1081, step time: 1.0174  
Batch 240/248, train\_loss: 0.3351, step time: 1.0184  
Batch 241/248, train\_loss: 0.5289, step time: 1.0196  
Batch 242/248, train\_loss: 0.1442, step time: 1.0151  
Batch 243/248, train\_loss: 0.5620, step time: 1.0180  
Batch 244/248, train\_loss: 0.3887, step time: 1.0171  
Batch 245/248, train\_loss: 0.0664, step time: 1.0138  
Batch 246/248, train\_loss: 0.6091, step time: 1.0176  
Batch 247/248, train\_loss: 0.0833, step time: 1.0129  
Batch 248/248, train\_loss: 0.0000, step time: 1.0101

Batch 240/240, training loss: 0.7990, step time: 1.0164

Labels



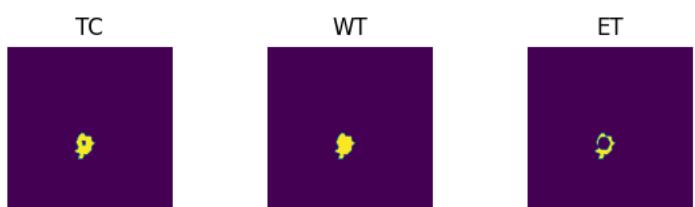
Predictions



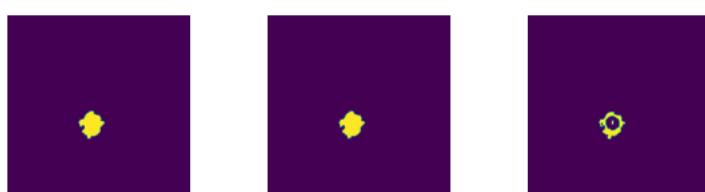
VAL

Batch 1/31, val\_loss: 0.9420  
Batch 2/31, val\_loss: 0.9923  
Batch 3/31, val\_loss: 0.9624  
Batch 4/31, val\_loss: 0.9409  
Batch 5/31, val\_loss: 0.9912  
Batch 6/31, val\_loss: 0.7007  
Batch 7/31, val\_loss: 0.8370  
Batch 8/31, val\_loss: 0.9565  
Batch 9/31, val\_loss: 0.6991  
Batch 10/31, val\_loss: 0.9086  
Batch 11/31, val\_loss: 0.8255  
Batch 12/31, val\_loss: 0.9716  
Batch 13/31, val\_loss: 0.9875  
Batch 14/31, val\_loss: 0.9437  
Batch 15/31, val\_loss: 0.9912  
Batch 16/31, val\_loss: 0.9743  
Batch 17/31, val\_loss: 0.9723  
Batch 18/31, val\_loss: 0.9359  
Batch 19/31, val\_loss: 0.7428  
Batch 20/31, val\_loss: 0.8758  
Batch 21/31, val\_loss: 0.8645  
Batch 22/31, val\_loss: 0.9743  
Batch 23/31, val\_loss: 0.9750  
Batch 24/31, val\_loss: 0.7503  
Batch 25/31, val\_loss: 0.8017  
Batch 26/31, val\_loss: 0.9189  
Batch 27/31, val\_loss: 0.9669  
Batch 28/31, val\_loss: 0.7469  
Batch 29/31, val\_loss: 0.9841  
Batch 30/31, val\_loss: 0.9523  
Batch 31/31, val\_loss: 0.9862

Labels



Predictions



epoch 64

average train loss: 0.2899  
average validation loss: 0.9056  
saved as best model: False  
current mean dice: 0.4900  
current TC dice: 0.5052

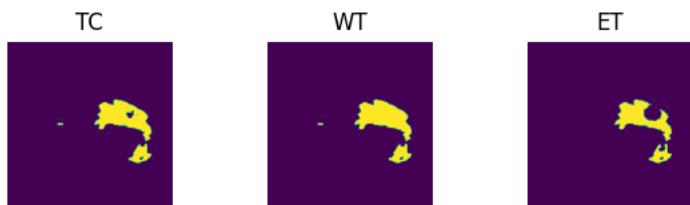
```
current WT dice: 0.5155
current ET dice: 0.4952
Best Mean Metric: 0.5060
time consuming of epoch 64 is: 1570.5801
-----
epoch 65/100
TRAIN
Batch 1/248, train_loss: 0.0983, step time: 1.0159
Batch 2/248, train_loss: 0.7651, step time: 1.0196
Batch 3/248, train_loss: 0.2691, step time: 1.0146
Batch 4/248, train_loss: 0.8725, step time: 1.0171
Batch 5/248, train_loss: 0.1954, step time: 1.0186
Batch 6/248, train_loss: 0.5044, step time: 1.0189
Batch 7/248, train_loss: 0.0936, step time: 1.0132
Batch 8/248, train_loss: 0.6486, step time: 1.0150
Batch 9/248, train_loss: 0.0493, step time: 1.0136
Batch 10/248, train_loss: 0.2269, step time: 1.0154
Batch 11/248, train_loss: 0.1639, step time: 1.0171
Batch 12/248, train_loss: 0.4227, step time: 1.0190
Batch 13/248, train_loss: 0.3277, step time: 1.0183
Batch 14/248, train_loss: 0.0580, step time: 1.0143
Batch 15/248, train_loss: 0.3057, step time: 1.0167
Batch 16/248, train_loss: 0.1374, step time: 1.0121
Batch 17/248, train_loss: 0.2501, step time: 1.0170
Batch 18/248, train_loss: 0.4413, step time: 1.0227
Batch 19/248, train_loss: 0.4055, step time: 1.0149
Batch 20/248, train_loss: 0.1408, step time: 1.0189
Batch 21/248, train_loss: 0.0640, step time: 1.0136
Batch 22/248, train_loss: 0.4403, step time: 1.0194
Batch 23/248, train_loss: 0.9959, step time: 1.0126
Batch 24/248, train_loss: 0.1920, step time: 1.0156
Batch 25/248, train_loss: 0.0699, step time: 1.0158
Batch 26/248, train_loss: 0.4157, step time: 1.0185
Batch 27/248, train_loss: 0.0724, step time: 1.0165
Batch 28/248, train_loss: 0.1562, step time: 1.0181
Batch 29/248, train_loss: 0.3824, step time: 1.0193
Batch 30/248, train_loss: 0.2199, step time: 1.0179
Batch 31/248, train_loss: 0.2559, step time: 1.0136
Batch 32/248, train_loss: 0.0731, step time: 1.0156
Batch 33/248, train_loss: 0.0633, step time: 1.0113
Batch 34/248, train_loss: 0.0448, step time: 1.0146
Batch 35/248, train_loss: 0.0468, step time: 1.0137
Batch 36/248, train_loss: 0.4928, step time: 1.0136
Batch 37/248, train_loss: 0.1592, step time: 1.0145
Batch 38/248, train_loss: 0.2775, step time: 1.0143
Batch 39/248, train_loss: 0.1682, step time: 1.0156
Batch 40/248, train_loss: 0.7763, step time: 1.0202
Batch 41/248, train_loss: 0.2105, step time: 1.0164
Batch 42/248, train_loss: 0.0635, step time: 1.0124
Batch 43/248, train_loss: 0.0529, step time: 1.0167
Batch 44/248, train_loss: 0.1796, step time: 1.0179
Batch 45/248, train_loss: 0.6372, step time: 1.0188
Batch 46/248, train_loss: 0.1561, step time: 1.0184
Batch 47/248, train_loss: 0.0667, step time: 1.0153
Batch 48/248, train_loss: 0.2103, step time: 1.0159
Batch 49/248, train_loss: 0.5336, step time: 1.0195
Batch 50/248, train_loss: 0.1262, step time: 1.0150
Batch 51/248, train_loss: 0.1453, step time: 1.0143
Batch 52/248, train_loss: 0.0958, step time: 1.0150
Batch 53/248, train_loss: 0.3539, step time: 1.0277
Batch 54/248, train_loss: 0.2233, step time: 1.0142
Batch 55/248, train_loss: 0.2998, step time: 1.0149
Batch 56/248, train_loss: 0.2249, step time: 1.0158
Batch 57/248, train_loss: 0.3061, step time: 1.0176
Batch 58/248, train_loss: 0.0927, step time: 1.0110
Batch 59/248, train_loss: 0.0880, step time: 1.0121
Batch 60/248, train_loss: 0.0508, step time: 1.0161
Batch 61/248, train_loss: 0.0975, step time: 1.0148
Batch 62/248, train_loss: 0.2107, step time: 1.0166
Batch 63/248, train_loss: 0.5421, step time: 1.0137
Batch 64/248, train_loss: 0.3961, step time: 1.0201
Batch 65/248, train_loss: 0.5076, step time: 1.0180
Batch 66/248, train_loss: 0.1488, step time: 1.0167
Batch 67/248, train_loss: 0.0649, step time: 1.0164
Batch 68/248, train_loss: 0.2589, step time: 1.0174
Batch 69/248, train_loss: 0.4225, step time: 1.0186
Batch 70/248, train_loss: 0.1288, step time: 1.0169
Batch 71/248, train_loss: 0.1437, step time: 1.0161
Batch 72/248, train_loss: 0.0574, step time: 1.0118
Batch 73/248, train_loss: 0.2338, step time: 1.0150
Batch 74/248, train_loss: 0.9988, step time: 1.0130
Batch 75/248, train_loss: 0.1151, step time: 1.0124
Batch 76/248, train_loss: 0.5239, step time: 1.0189
Batch 77/248, train_loss: 0.8129, step time: 1.0116
Batch 78/248, train_loss: 0.1323, step time: 1.0163
```

Batch 79/248, train\_loss: 0.1177, step time: 1.0156  
Batch 80/248, train\_loss: 0.1947, step time: 1.0183  
Batch 81/248, train\_loss: 0.1891, step time: 1.0193  
Batch 82/248, train\_loss: 0.0822, step time: 1.0170  
Batch 83/248, train\_loss: 0.5399, step time: 1.0201  
Batch 84/248, train\_loss: 0.2445, step time: 1.0154  
Batch 85/248, train\_loss: 0.4049, step time: 1.0173  
Batch 86/248, train\_loss: 0.2079, step time: 1.0147  
Batch 87/248, train\_loss: 0.4734, step time: 1.0166  
Batch 88/248, train\_loss: 0.2995, step time: 1.0193  
Batch 89/248, train\_loss: 0.0950, step time: 1.0138  
Batch 90/248, train\_loss: 0.4481, step time: 1.0148  
Batch 91/248, train\_loss: 0.3850, step time: 1.0179  
Batch 92/248, train\_loss: 0.3127, step time: 1.0131  
Batch 93/248, train\_loss: 0.1799, step time: 1.0132  
Batch 94/248, train\_loss: 0.2839, step time: 1.0181  
Batch 95/248, train\_loss: 0.1789, step time: 1.0157  
Batch 96/248, train\_loss: 0.1898, step time: 1.0160  
Batch 97/248, train\_loss: 0.4147, step time: 1.0173  
Batch 98/248, train\_loss: 0.1556, step time: 1.0173  
Batch 99/248, train\_loss: 0.2692, step time: 1.0156  
Batch 100/248, train\_loss: 0.2957, step time: 1.0146  
Batch 101/248, train\_loss: 0.0540, step time: 1.0139  
Batch 102/248, train\_loss: 0.1332, step time: 1.0172  
Batch 103/248, train\_loss: 0.4237, step time: 1.0177  
Batch 104/248, train\_loss: 0.3507, step time: 1.0147  
Batch 105/248, train\_loss: 0.0751, step time: 1.0132  
Batch 106/248, train\_loss: 0.1053, step time: 1.0119  
Batch 107/248, train\_loss: 0.2760, step time: 1.0160  
Batch 108/248, train\_loss: 0.4260, step time: 1.0183  
Batch 109/248, train\_loss: 0.8731, step time: 1.0156  
Batch 110/248, train\_loss: 0.2560, step time: 1.0179  
Batch 111/248, train\_loss: 0.1078, step time: 1.0166  
Batch 112/248, train\_loss: 0.1323, step time: 1.0161  
Batch 113/248, train\_loss: 0.9603, step time: 1.0163  
Batch 114/248, train\_loss: 0.1361, step time: 1.0149  
Batch 115/248, train\_loss: 0.1552, step time: 1.0167  
Batch 116/248, train\_loss: 0.0948, step time: 1.0123  
Batch 117/248, train\_loss: 0.6061, step time: 1.0207  
Batch 118/248, train\_loss: 0.6149, step time: 1.0176  
Batch 119/248, train\_loss: 0.3089, step time: 1.0171  
Batch 120/248, train\_loss: 0.2471, step time: 1.0136  
Batch 121/248, train\_loss: 0.2895, step time: 1.0156  
Batch 122/248, train\_loss: 0.3641, step time: 1.0158  
Batch 123/248, train\_loss: 0.0960, step time: 1.0171  
Batch 124/248, train\_loss: 0.3459, step time: 1.0180  
Batch 125/248, train\_loss: 0.5448, step time: 1.0179  
Batch 126/248, train\_loss: 0.1872, step time: 1.0131  
Batch 127/248, train\_loss: 0.1177, step time: 1.0173  
Batch 128/248, train\_loss: 0.2770, step time: 1.0204  
Batch 129/248, train\_loss: 0.1205, step time: 1.0137  
Batch 130/248, train\_loss: 0.0823, step time: 1.0161  
Batch 131/248, train\_loss: 0.5483, step time: 1.0167  
Batch 132/248, train\_loss: 0.5322, step time: 1.0163  
Batch 133/248, train\_loss: 0.1417, step time: 1.0171  
Batch 134/248, train\_loss: 0.7706, step time: 1.0160  
Batch 135/248, train\_loss: 0.3259, step time: 1.0185  
Batch 136/248, train\_loss: 0.0960, step time: 1.0124  
Batch 137/248, train\_loss: 0.1317, step time: 1.0147  
Batch 138/248, train\_loss: 0.0660, step time: 1.0139  
Batch 139/248, train\_loss: 0.1532, step time: 1.0140  
Batch 140/248, train\_loss: 0.1856, step time: 1.0178  
Batch 141/248, train\_loss: 0.2503, step time: 1.0155  
Batch 142/248, train\_loss: 0.4514, step time: 1.0167  
Batch 143/248, train\_loss: 0.2949, step time: 1.0153  
Batch 144/248, train\_loss: 0.1151, step time: 1.0139  
Batch 145/248, train\_loss: 0.0846, step time: 1.0150  
Batch 146/248, train\_loss: 0.8548, step time: 1.0186  
Batch 147/248, train\_loss: 0.0386, step time: 1.0136  
Batch 148/248, train\_loss: 0.7954, step time: 1.0173  
Batch 149/248, train\_loss: 0.1196, step time: 1.0125  
Batch 150/248, train\_loss: 0.6589, step time: 1.0180  
Batch 151/248, train\_loss: 0.3080, step time: 1.0155  
Batch 152/248, train\_loss: 0.0391, step time: 1.0118  
Batch 153/248, train\_loss: 0.2700, step time: 1.0179  
Batch 154/248, train\_loss: 0.7420, step time: 1.0174  
Batch 155/248, train\_loss: 0.1315, step time: 1.0189  
Batch 156/248, train\_loss: 0.2274, step time: 1.0194  
Batch 157/248, train\_loss: 0.2017, step time: 1.0137  
Batch 158/248, train\_loss: 0.9910, step time: 1.0136  
Batch 159/248, train\_loss: 0.3208, step time: 1.0232  
Batch 160/248, train\_loss: 0.0985, step time: 1.0215  
Batch 161/248, train\_loss: 0.0773, step time: 1.0152  
Batch 162/248, train\_loss: 0.0726, step time: 1.0135  
Batch 163/248, train\_loss: 0.1451, step time: 1.0144

Batch 105/248, train\_loss: 0.1454, step time: 1.0144  
Batch 164/248, train\_loss: 0.2233, step time: 1.0167  
Batch 165/248, train\_loss: 0.4991, step time: 1.0165  
Batch 166/248, train\_loss: 0.0830, step time: 1.0126  
Batch 167/248, train\_loss: 0.2044, step time: 1.0160  
Batch 168/248, train\_loss: 0.1438, step time: 1.0158  
Batch 169/248, train\_loss: 0.0928, step time: 1.0150  
Batch 170/248, train\_loss: 0.6051, step time: 1.0163  
Batch 171/248, train\_loss: 0.0853, step time: 1.0131  
Batch 172/248, train\_loss: 0.3455, step time: 1.0210  
Batch 173/248, train\_loss: 0.1076, step time: 1.0149  
Batch 174/248, train\_loss: 0.9240, step time: 1.0162  
Batch 175/248, train\_loss: 0.1525, step time: 1.0164  
Batch 176/248, train\_loss: 0.3944, step time: 1.0192  
Batch 177/248, train\_loss: 0.2537, step time: 1.0190  
Batch 178/248, train\_loss: 0.2373, step time: 1.0168  
Batch 179/248, train\_loss: 0.0838, step time: 1.0105  
Batch 180/248, train\_loss: 0.3430, step time: 1.0153  
Batch 181/248, train\_loss: 0.1249, step time: 1.0119  
Batch 182/248, train\_loss: 0.9114, step time: 1.0121  
Batch 183/248, train\_loss: 0.1672, step time: 1.0162  
Batch 184/248, train\_loss: 0.3960, step time: 1.0185  
Batch 185/248, train\_loss: 0.0895, step time: 1.0217  
Batch 186/248, train\_loss: 0.0981, step time: 1.0128  
Batch 187/248, train\_loss: 0.1827, step time: 1.0171  
Batch 188/248, train\_loss: 0.2458, step time: 1.0158  
Batch 189/248, train\_loss: 0.5689, step time: 1.0162  
Batch 190/248, train\_loss: 0.1092, step time: 1.0139  
Batch 191/248, train\_loss: 0.5505, step time: 1.0158  
Batch 192/248, train\_loss: 0.2914, step time: 1.0151  
Batch 193/248, train\_loss: 0.2579, step time: 1.0146  
Batch 194/248, train\_loss: 0.0787, step time: 1.0137  
Batch 195/248, train\_loss: 0.6300, step time: 1.0176  
Batch 196/248, train\_loss: 0.9990, step time: 1.0107  
Batch 197/248, train\_loss: 0.1894, step time: 1.0156  
Batch 198/248, train\_loss: 0.4933, step time: 1.0195  
Batch 199/248, train\_loss: 0.1579, step time: 1.0182  
Batch 200/248, train\_loss: 0.1347, step time: 1.0136  
Batch 201/248, train\_loss: 0.1277, step time: 1.0129  
Batch 202/248, train\_loss: 0.3314, step time: 1.0164  
Batch 203/248, train\_loss: 0.4785, step time: 1.0182  
Batch 204/248, train\_loss: 0.0832, step time: 1.0137  
Batch 205/248, train\_loss: 0.2262, step time: 1.0140  
Batch 206/248, train\_loss: 0.2908, step time: 1.0156  
Batch 207/248, train\_loss: 0.0835, step time: 1.0136  
Batch 208/248, train\_loss: 0.1230, step time: 1.0133  
Batch 209/248, train\_loss: 0.1828, step time: 1.0172  
Batch 210/248, train\_loss: 0.0563, step time: 1.0098  
Batch 211/248, train\_loss: 0.0537, step time: 1.0107  
Batch 212/248, train\_loss: 0.1809, step time: 1.0153  
Batch 213/248, train\_loss: 0.1610, step time: 1.0215  
Batch 214/248, train\_loss: 0.0652, step time: 1.0110  
Batch 215/248, train\_loss: 0.1628, step time: 1.0162  
Batch 216/248, train\_loss: 0.1487, step time: 1.0151  
Batch 217/248, train\_loss: 0.2627, step time: 1.0174  
Batch 218/248, train\_loss: 0.8137, step time: 1.0145  
Batch 219/248, train\_loss: 0.0664, step time: 1.0228  
Batch 220/248, train\_loss: 0.2086, step time: 1.0163  
Batch 221/248, train\_loss: 0.2250, step time: 1.0182  
Batch 222/248, train\_loss: 0.1854, step time: 1.0168  
Batch 223/248, train\_loss: 0.0396, step time: 1.0119  
Batch 224/248, train\_loss: 0.0849, step time: 1.0166  
Batch 225/248, train\_loss: 0.1759, step time: 1.0150  
Batch 226/248, train\_loss: 0.1244, step time: 1.0168  
Batch 227/248, train\_loss: 0.0830, step time: 1.0140  
Batch 228/248, train\_loss: 0.2722, step time: 1.0169  
Batch 229/248, train\_loss: 0.1032, step time: 1.0150  
Batch 230/248, train\_loss: 0.0653, step time: 1.0139  
Batch 231/248, train\_loss: 0.2700, step time: 1.0166  
Batch 232/248, train\_loss: 0.0735, step time: 1.0199  
Batch 233/248, train\_loss: 0.7748, step time: 1.0145  
Batch 234/248, train\_loss: 0.4364, step time: 1.0155  
Batch 235/248, train\_loss: 0.3884, step time: 1.0182  
Batch 236/248, train\_loss: 0.8418, step time: 1.0189  
Batch 237/248, train\_loss: 0.0955, step time: 1.0116  
Batch 238/248, train\_loss: 0.1037, step time: 1.0141  
Batch 239/248, train\_loss: 0.0537, step time: 1.0153  
Batch 240/248, train\_loss: 0.2488, step time: 1.0148  
Batch 241/248, train\_loss: 0.4751, step time: 1.0207  
Batch 242/248, train\_loss: 0.1275, step time: 1.0160  
Batch 243/248, train\_loss: 0.5950, step time: 1.0150  
Batch 244/248, train\_loss: 0.3551, step time: 1.0183  
Batch 245/248, train\_loss: 0.0582, step time: 1.0140  
Batch 246/248, train\_loss: 0.6305, step time: 1.0179  
Batch 247/248, train\_loss: 0.0832, step time: 1.0143

Batch 248/248, train\_loss: 0.9999, step time: 1.0040

Labels



Predictions



VAL

Batch 1/31, val\_loss: 0.9069

Batch 2/31, val\_loss: 0.9938

Batch 3/31, val\_loss: 0.9626

Batch 4/31, val\_loss: 0.9406

Batch 5/31, val\_loss: 0.9925

Batch 6/31, val\_loss: 0.6891

Batch 7/31, val\_loss: 0.8258

Batch 8/31, val\_loss: 0.9687

Batch 9/31, val\_loss: 0.6877

Batch 10/31, val\_loss: 0.9066

Batch 11/31, val\_loss: 0.8240

Batch 12/31, val\_loss: 0.9739

Batch 13/31, val\_loss: 0.9788

Batch 14/31, val\_loss: 0.9448

Batch 15/31, val\_loss: 0.9934

Batch 16/31, val\_loss: 0.9732

Batch 17/31, val\_loss: 0.9745

Batch 18/31, val\_loss: 0.9390

Batch 19/31, val\_loss: 0.7402

Batch 20/31, val\_loss: 0.8794

Batch 21/31, val\_loss: 0.8641

Batch 22/31, val\_loss: 0.9736

Batch 23/31, val\_loss: 0.9816

Batch 24/31, val\_loss: 0.7472

Batch 25/31, val\_loss: 0.7983

Batch 26/31, val\_loss: 0.9164

Batch 27/31, val\_loss: 0.9743

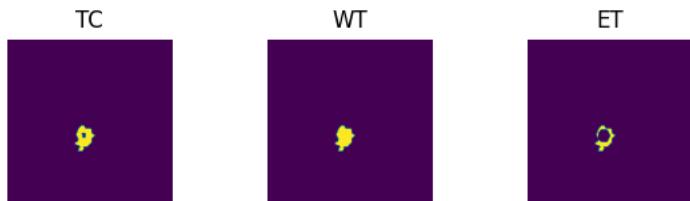
Batch 28/31, val\_loss: 0.7476

Batch 29/31, val\_loss: 0.9822

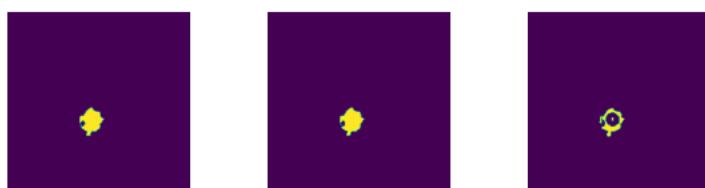
Batch 30/31, val\_loss: 0.9596

Batch 31/31, val\_loss: 0.9799

Labels



Predictions



epoch 65

average train loss: 0.2829

average validation loss: 0.9039

saved as best model: False

current mean dice: 0.4891

current TC dice: 0.5091

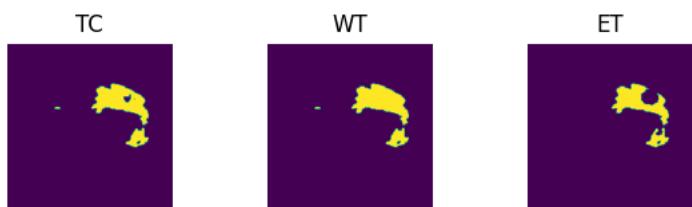
current WT dice: 0.5191  
current ET dice: 0.4817  
Best Mean Metric: 0.5060  
time consuming of epoch 65 is: 1577.5158  
-----  
epoch 66/100  
TRAIN  
Batch 1/248, train\_loss: 0.0783, step time: 1.0166  
Batch 2/248, train\_loss: 0.6512, step time: 1.0191  
Batch 3/248, train\_loss: 0.2572, step time: 1.0141  
Batch 4/248, train\_loss: 0.9395, step time: 1.0123  
Batch 5/248, train\_loss: 0.2129, step time: 1.0110  
Batch 6/248, train\_loss: 0.6124, step time: 1.0165  
Batch 7/248, train\_loss: 0.0551, step time: 1.0107  
Batch 8/248, train\_loss: 0.7300, step time: 1.0124  
Batch 9/248, train\_loss: 0.0446, step time: 1.0134  
Batch 10/248, train\_loss: 0.2188, step time: 1.0169  
Batch 11/248, train\_loss: 0.1701, step time: 1.0165  
Batch 12/248, train\_loss: 0.4034, step time: 1.0176  
Batch 13/248, train\_loss: 0.2832, step time: 1.0188  
Batch 14/248, train\_loss: 0.0532, step time: 1.0110  
Batch 15/248, train\_loss: 0.2948, step time: 1.0172  
Batch 16/248, train\_loss: 0.1319, step time: 1.0138  
Batch 17/248, train\_loss: 0.2641, step time: 1.0200  
Batch 18/248, train\_loss: 0.3274, step time: 1.0165  
Batch 19/248, train\_loss: 0.1017, step time: 1.0153  
Batch 20/248, train\_loss: 0.1818, step time: 1.0175  
Batch 21/248, train\_loss: 0.0629, step time: 1.0138  
Batch 22/248, train\_loss: 0.4482, step time: 1.0180  
Batch 23/248, train\_loss: 0.9979, step time: 1.0117  
Batch 24/248, train\_loss: 0.0685, step time: 1.0096  
Batch 25/248, train\_loss: 0.0598, step time: 1.0157  
Batch 26/248, train\_loss: 0.4160, step time: 1.0201  
Batch 27/248, train\_loss: 0.0710, step time: 1.0136  
Batch 28/248, train\_loss: 0.1505, step time: 1.0145  
Batch 29/248, train\_loss: 0.4011, step time: 1.0200  
Batch 30/248, train\_loss: 0.5631, step time: 1.0227  
Batch 31/248, train\_loss: 0.2472, step time: 1.0133  
Batch 32/248, train\_loss: 0.0788, step time: 1.0149  
Batch 33/248, train\_loss: 0.0596, step time: 1.0133  
Batch 34/248, train\_loss: 0.0461, step time: 1.0110  
Batch 35/248, train\_loss: 0.0395, step time: 1.0145  
Batch 36/248, train\_loss: 0.4647, step time: 1.0241  
Batch 37/248, train\_loss: 0.1534, step time: 1.0152  
Batch 38/248, train\_loss: 0.2803, step time: 1.0144  
Batch 39/248, train\_loss: 0.1521, step time: 1.0113  
Batch 40/248, train\_loss: 0.5543, step time: 1.0168  
Batch 41/248, train\_loss: 0.2658, step time: 1.0161  
Batch 42/248, train\_loss: 0.0607, step time: 1.0147  
Batch 43/248, train\_loss: 0.0499, step time: 1.0091  
Batch 44/248, train\_loss: 0.2244, step time: 1.0170  
Batch 45/248, train\_loss: 0.3607, step time: 1.0131  
Batch 46/248, train\_loss: 0.1995, step time: 1.0187  
Batch 47/248, train\_loss: 0.0632, step time: 1.0151  
Batch 48/248, train\_loss: 0.2255, step time: 1.0153  
Batch 49/248, train\_loss: 0.5232, step time: 1.0212  
Batch 50/248, train\_loss: 0.1386, step time: 1.0135  
Batch 51/248, train\_loss: 0.1561, step time: 1.0169  
Batch 52/248, train\_loss: 0.0993, step time: 1.0153  
Batch 53/248, train\_loss: 0.4216, step time: 1.0180  
Batch 54/248, train\_loss: 0.2201, step time: 1.0195  
Batch 55/248, train\_loss: 0.2670, step time: 1.0186  
Batch 56/248, train\_loss: 0.2035, step time: 1.0182  
Batch 57/248, train\_loss: 0.2554, step time: 1.0135  
Batch 58/248, train\_loss: 0.0858, step time: 1.0119  
Batch 59/248, train\_loss: 0.0870, step time: 1.0119  
Batch 60/248, train\_loss: 0.0475, step time: 1.0137  
Batch 61/248, train\_loss: 0.0887, step time: 1.0118  
Batch 62/248, train\_loss: 0.1939, step time: 1.0160  
Batch 63/248, train\_loss: 0.5595, step time: 1.0180  
Batch 64/248, train\_loss: 0.3765, step time: 1.0178  
Batch 65/248, train\_loss: 0.3976, step time: 1.0193  
Batch 66/248, train\_loss: 0.1121, step time: 1.0137  
Batch 67/248, train\_loss: 0.0708, step time: 1.0134  
Batch 68/248, train\_loss: 0.1971, step time: 1.0164  
Batch 69/248, train\_loss: 0.3387, step time: 1.0217  
Batch 70/248, train\_loss: 0.1367, step time: 1.0163  
Batch 71/248, train\_loss: 0.1550, step time: 1.0152  
Batch 72/248, train\_loss: 0.0576, step time: 1.0119  
Batch 73/248, train\_loss: 0.7135, step time: 1.0172  
Batch 74/248, train\_loss: 0.9971, step time: 1.0094  
Batch 75/248, train\_loss: 0.1146, step time: 1.0149  
Batch 76/248, train\_loss: 0.5341, step time: 1.0180  
Batch 77/248, train\_loss: 0.7820, step time: 1.0167

Batch 78/248, train\_loss: 0.1216, step time: 1.0184  
Batch 79/248, train\_loss: 0.1335, step time: 1.0171  
Batch 80/248, train\_loss: 0.1985, step time: 1.0184  
Batch 81/248, train\_loss: 0.1923, step time: 1.0182  
Batch 82/248, train\_loss: 0.0792, step time: 1.0165  
Batch 83/248, train\_loss: 0.6323, step time: 1.0160  
Batch 84/248, train\_loss: 0.2514, step time: 1.0181  
Batch 85/248, train\_loss: 0.6951, step time: 1.0168  
Batch 86/248, train\_loss: 0.3545, step time: 1.0161  
Batch 87/248, train\_loss: 0.5089, step time: 1.0151  
Batch 88/248, train\_loss: 0.3170, step time: 1.0155  
Batch 89/248, train\_loss: 0.1033, step time: 1.0160  
Batch 90/248, train\_loss: 0.3036, step time: 1.0173  
Batch 91/248, train\_loss: 0.3395, step time: 1.0173  
Batch 92/248, train\_loss: 0.2784, step time: 1.0196  
Batch 93/248, train\_loss: 0.1625, step time: 1.0173  
Batch 94/248, train\_loss: 0.2663, step time: 1.0184  
Batch 95/248, train\_loss: 0.1886, step time: 1.0174  
Batch 96/248, train\_loss: 0.1993, step time: 1.0175  
Batch 97/248, train\_loss: 0.3630, step time: 1.0185  
Batch 98/248, train\_loss: 0.1344, step time: 1.0174  
Batch 99/248, train\_loss: 0.3729, step time: 1.0179  
Batch 100/248, train\_loss: 0.2481, step time: 1.0225  
Batch 101/248, train\_loss: 0.0586, step time: 1.0142  
Batch 102/248, train\_loss: 0.1231, step time: 1.0162  
Batch 103/248, train\_loss: 0.3488, step time: 1.0173  
Batch 104/248, train\_loss: 0.3291, step time: 1.0141  
Batch 105/248, train\_loss: 0.0808, step time: 1.0125  
Batch 106/248, train\_loss: 0.1178, step time: 1.0159  
Batch 107/248, train\_loss: 0.2247, step time: 1.0139  
Batch 108/248, train\_loss: 0.5038, step time: 1.0191  
Batch 109/248, train\_loss: 0.9027, step time: 1.0199  
Batch 110/248, train\_loss: 0.2979, step time: 1.0176  
Batch 111/248, train\_loss: 0.0960, step time: 1.0159  
Batch 112/248, train\_loss: 0.1101, step time: 1.0164  
Batch 113/248, train\_loss: 0.8324, step time: 1.0150  
Batch 114/248, train\_loss: 0.1472, step time: 1.0135  
Batch 115/248, train\_loss: 0.1637, step time: 1.0188  
Batch 116/248, train\_loss: 0.0734, step time: 1.0129  
Batch 117/248, train\_loss: 0.7089, step time: 1.0214  
Batch 118/248, train\_loss: 0.3934, step time: 1.0186  
Batch 119/248, train\_loss: 0.3257, step time: 1.0162  
Batch 120/248, train\_loss: 0.2200, step time: 1.0137  
Batch 121/248, train\_loss: 0.2743, step time: 1.0169  
Batch 122/248, train\_loss: 0.3628, step time: 1.0175  
Batch 123/248, train\_loss: 0.0899, step time: 1.0152  
Batch 124/248, train\_loss: 0.2664, step time: 1.0173  
Batch 125/248, train\_loss: 0.6747, step time: 1.0198  
Batch 126/248, train\_loss: 0.3105, step time: 1.0143  
Batch 127/248, train\_loss: 0.1077, step time: 1.0161  
Batch 128/248, train\_loss: 0.4030, step time: 1.0215  
Batch 129/248, train\_loss: 0.1102, step time: 1.0118  
Batch 130/248, train\_loss: 0.0861, step time: 1.0124  
Batch 131/248, train\_loss: 0.4543, step time: 1.0172  
Batch 132/248, train\_loss: 0.4196, step time: 1.0173  
Batch 133/248, train\_loss: 0.1433, step time: 1.0155  
Batch 134/248, train\_loss: 0.7496, step time: 1.0175  
Batch 135/248, train\_loss: 0.2686, step time: 1.0177  
Batch 136/248, train\_loss: 0.1047, step time: 1.0155  
Batch 137/248, train\_loss: 0.1252, step time: 1.0151  
Batch 138/248, train\_loss: 0.0670, step time: 1.0103  
Batch 139/248, train\_loss: 0.2136, step time: 1.0126  
Batch 140/248, train\_loss: 0.1677, step time: 1.0175  
Batch 141/248, train\_loss: 0.3070, step time: 1.0158  
Batch 142/248, train\_loss: 0.5127, step time: 1.0176  
Batch 143/248, train\_loss: 0.2649, step time: 1.0157  
Batch 144/248, train\_loss: 0.1264, step time: 1.0137  
Batch 145/248, train\_loss: 0.0605, step time: 1.0138  
Batch 146/248, train\_loss: 0.6779, step time: 1.0170  
Batch 147/248, train\_loss: 0.0387, step time: 1.0111  
Batch 148/248, train\_loss: 0.8258, step time: 1.0164  
Batch 149/248, train\_loss: 0.1067, step time: 1.0147  
Batch 150/248, train\_loss: 0.6778, step time: 1.0160  
Batch 151/248, train\_loss: 0.3782, step time: 1.0201  
Batch 152/248, train\_loss: 0.0379, step time: 1.0139  
Batch 153/248, train\_loss: 0.3562, step time: 1.0160  
Batch 154/248, train\_loss: 0.6567, step time: 1.0176  
Batch 155/248, train\_loss: 0.1270, step time: 1.0212  
Batch 156/248, train\_loss: 0.2596, step time: 1.0161  
Batch 157/248, train\_loss: 0.2247, step time: 1.0163  
Batch 158/248, train\_loss: 0.9726, step time: 1.0150  
Batch 159/248, train\_loss: 0.2626, step time: 1.0189  
Batch 160/248, train\_loss: 0.0833, step time: 1.0154  
Batch 161/248, train\_loss: 0.0888, step time: 1.0173  
Batch 162/248, train\_loss: 0.1235, step time: 1.0220

Batch 163/248, train\_loss: 0.1196, step time: 1.0163  
Batch 164/248, train\_loss: 0.1427, step time: 1.0149  
Batch 165/248, train\_loss: 0.3856, step time: 1.0162  
Batch 166/248, train\_loss: 0.1124, step time: 1.0165  
Batch 167/248, train\_loss: 0.1733, step time: 1.0152  
Batch 168/248, train\_loss: 0.1585, step time: 1.0128  
Batch 169/248, train\_loss: 0.0911, step time: 1.0151  
Batch 170/248, train\_loss: 0.6916, step time: 1.0180  
Batch 171/248, train\_loss: 0.0905, step time: 1.0188  
Batch 172/248, train\_loss: 0.4549, step time: 1.0156  
Batch 173/248, train\_loss: 0.0868, step time: 1.0126  
Batch 174/248, train\_loss: 0.8941, step time: 1.0202  
Batch 175/248, train\_loss: 0.1452, step time: 1.0167  
Batch 176/248, train\_loss: 0.3329, step time: 1.0176  
Batch 177/248, train\_loss: 0.2113, step time: 1.0181  
Batch 178/248, train\_loss: 0.2323, step time: 1.0186  
Batch 179/248, train\_loss: 0.0881, step time: 1.0161  
Batch 180/248, train\_loss: 0.3468, step time: 1.0145  
Batch 181/248, train\_loss: 0.1126, step time: 1.0156  
Batch 182/248, train\_loss: 0.9524, step time: 1.0163  
Batch 183/248, train\_loss: 0.1901, step time: 1.0173  
Batch 184/248, train\_loss: 0.2906, step time: 1.0175  
Batch 185/248, train\_loss: 0.1044, step time: 1.0139  
Batch 186/248, train\_loss: 0.1031, step time: 1.0172  
Batch 187/248, train\_loss: 0.1696, step time: 1.0158  
Batch 188/248, train\_loss: 0.2616, step time: 1.0124  
Batch 189/248, train\_loss: 0.5554, step time: 1.0138  
Batch 190/248, train\_loss: 0.1237, step time: 1.0111  
Batch 191/248, train\_loss: 0.5750, step time: 1.0145  
Batch 192/248, train\_loss: 0.3133, step time: 1.0163  
Batch 193/248, train\_loss: 0.3261, step time: 1.0169  
Batch 194/248, train\_loss: 0.0770, step time: 1.0110  
Batch 195/248, train\_loss: 0.6292, step time: 1.0174  
Batch 196/248, train\_loss: 0.9991, step time: 1.0089  
Batch 197/248, train\_loss: 0.1768, step time: 1.0141  
Batch 198/248, train\_loss: 0.5471, step time: 1.0219  
Batch 199/248, train\_loss: 0.1408, step time: 1.0181  
Batch 200/248, train\_loss: 0.1373, step time: 1.0150  
Batch 201/248, train\_loss: 0.1224, step time: 1.0152  
Batch 202/248, train\_loss: 0.3443, step time: 1.0158  
Batch 203/248, train\_loss: 0.5756, step time: 1.0182  
Batch 204/248, train\_loss: 0.0854, step time: 1.0144  
Batch 205/248, train\_loss: 0.2388, step time: 1.0155  
Batch 206/248, train\_loss: 0.3519, step time: 1.0174  
Batch 207/248, train\_loss: 0.0936, step time: 1.0166  
Batch 208/248, train\_loss: 0.2084, step time: 1.0154  
Batch 209/248, train\_loss: 0.1836, step time: 1.0154  
Batch 210/248, train\_loss: 0.0533, step time: 1.0125  
Batch 211/248, train\_loss: 0.0571, step time: 1.0161  
Batch 212/248, train\_loss: 0.2089, step time: 1.0159  
Batch 213/248, train\_loss: 0.1522, step time: 1.0159  
Batch 214/248, train\_loss: 0.0695, step time: 1.0162  
Batch 215/248, train\_loss: 0.1971, step time: 1.0182  
Batch 216/248, train\_loss: 0.1380, step time: 1.0176  
Batch 217/248, train\_loss: 0.2419, step time: 1.0171  
Batch 218/248, train\_loss: 0.8439, step time: 1.0201  
Batch 219/248, train\_loss: 0.0816, step time: 1.0191  
Batch 220/248, train\_loss: 0.1992, step time: 1.0192  
Batch 221/248, train\_loss: 0.2687, step time: 1.0140  
Batch 222/248, train\_loss: 0.1846, step time: 1.0160  
Batch 223/248, train\_loss: 0.0414, step time: 1.0093  
Batch 224/248, train\_loss: 0.0739, step time: 1.0142  
Batch 225/248, train\_loss: 0.1577, step time: 1.0161  
Batch 226/248, train\_loss: 0.1290, step time: 1.0166  
Batch 227/248, train\_loss: 0.0877, step time: 1.0131  
Batch 228/248, train\_loss: 0.1397, step time: 1.0139  
Batch 229/248, train\_loss: 0.1072, step time: 1.0193  
Batch 230/248, train\_loss: 0.0601, step time: 1.0163  
Batch 231/248, train\_loss: 0.3023, step time: 1.0178  
Batch 232/248, train\_loss: 0.0709, step time: 1.0122  
Batch 233/248, train\_loss: 0.8060, step time: 1.0188  
Batch 234/248, train\_loss: 0.4232, step time: 1.0159  
Batch 235/248, train\_loss: 0.3683, step time: 1.0189  
Batch 236/248, train\_loss: 0.7819, step time: 1.0181  
Batch 237/248, train\_loss: 0.1055, step time: 1.0153  
Batch 238/248, train\_loss: 0.1017, step time: 1.0148  
Batch 239/248, train\_loss: 0.0626, step time: 1.0157  
Batch 240/248, train\_loss: 0.2644, step time: 1.0157  
Batch 241/248, train\_loss: 0.4258, step time: 1.0173  
Batch 242/248, train\_loss: 0.1576, step time: 1.0130  
Batch 243/248, train\_loss: 0.5438, step time: 1.0166  
Batch 244/248, train\_loss: 0.3604, step time: 1.0113  
Batch 245/248, train\_loss: 0.0569, step time: 1.0146  
Batch 246/248, train\_loss: 0.6125, step time: 1.0176  
Batch 247/248, train\_loss: 0.0727, step time: 1.0177

Batch 248/248, train\_loss: 0.9997, step time: 1.0087

Labels



Predictions



VAL

Batch 1/31, val\_loss: 0.8954

Batch 2/31, val\_loss: 0.9928

Batch 3/31, val\_loss: 0.9611

Batch 4/31, val\_loss: 0.9369

Batch 5/31, val\_loss: 0.9919

Batch 6/31, val\_loss: 0.6861

Batch 7/31, val\_loss: 0.8312

Batch 8/31, val\_loss: 0.9603

Batch 9/31, val\_loss: 0.6906

Batch 10/31, val\_loss: 0.9057

Batch 11/31, val\_loss: 0.8248

Batch 12/31, val\_loss: 0.9715

Batch 13/31, val\_loss: 0.9847

Batch 14/31, val\_loss: 0.9461

Batch 15/31, val\_loss: 0.9957

Batch 16/31, val\_loss: 0.9737

Batch 17/31, val\_loss: 0.9738

Batch 18/31, val\_loss: 0.9377

Batch 19/31, val\_loss: 0.7379

Batch 20/31, val\_loss: 0.8844

Batch 21/31, val\_loss: 0.8648

Batch 22/31, val\_loss: 0.9741

Batch 23/31, val\_loss: 0.9800

Batch 24/31, val\_loss: 0.7434

Batch 25/31, val\_loss: 0.7984

Batch 26/31, val\_loss: 0.9163

Batch 27/31, val\_loss: 0.9687

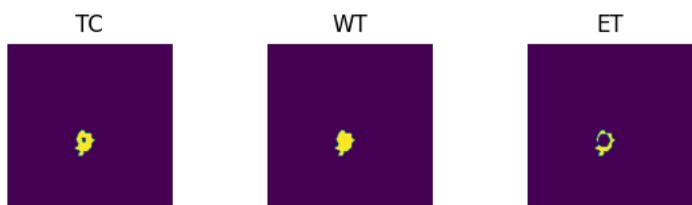
Batch 28/31, val\_loss: 0.7443

Batch 29/31, val\_loss: 0.9806

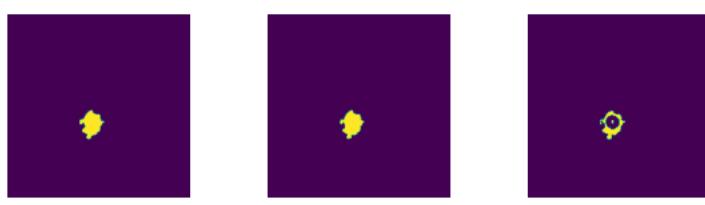
Batch 30/31, val\_loss: 0.9576

Batch 31/31, val\_loss: 0.9827

Labels



Predictions



epoch 66

average train loss: 0.2820

average validation loss: 0.9030

saved as best model: True

current mean dice: 0.5068

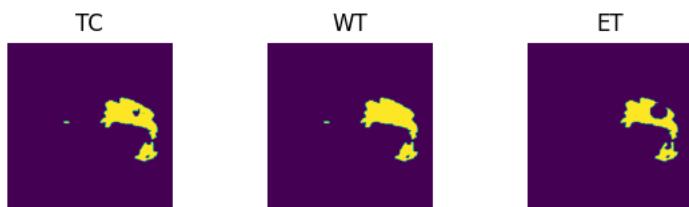
```
current TC dice: 0.5235
current WT dice: 0.5329
current ET dice: 0.5084
Best Mean Metric: 0.5068
time consuming of epoch 66 is: 1573.3338
-----
epoch 67/100
TRAIN
Batch 1/248, train_loss: 0.0775, step time: 1.0168
Batch 2/248, train_loss: 0.7116, step time: 1.0278
Batch 3/248, train_loss: 0.3001, step time: 1.0170
Batch 4/248, train_loss: 0.8960, step time: 1.0156
Batch 5/248, train_loss: 0.1938, step time: 1.0159
Batch 6/248, train_loss: 0.5037, step time: 1.0162
Batch 7/248, train_loss: 0.0621, step time: 1.0154
Batch 8/248, train_loss: 0.6996, step time: 1.0159
Batch 9/248, train_loss: 0.0395, step time: 1.0144
Batch 10/248, train_loss: 0.2325, step time: 1.0170
Batch 11/248, train_loss: 0.1704, step time: 1.0144
Batch 12/248, train_loss: 0.4039, step time: 1.0169
Batch 13/248, train_loss: 0.3228, step time: 1.0163
Batch 14/248, train_loss: 0.0605, step time: 1.0146
Batch 15/248, train_loss: 0.3083, step time: 1.0153
Batch 16/248, train_loss: 0.1316, step time: 1.0175
Batch 17/248, train_loss: 0.2391, step time: 1.0172
Batch 18/248, train_loss: 0.3452, step time: 1.0184
Batch 19/248, train_loss: 0.1565, step time: 1.0158
Batch 20/248, train_loss: 0.1320, step time: 1.0173
Batch 21/248, train_loss: 0.0652, step time: 1.0146
Batch 22/248, train_loss: 0.3790, step time: 1.0161
Batch 23/248, train_loss: 0.9981, step time: 1.0106
Batch 24/248, train_loss: 0.1614, step time: 1.0157
Batch 25/248, train_loss: 0.0773, step time: 1.0154
Batch 26/248, train_loss: 0.4542, step time: 1.0192
Batch 27/248, train_loss: 0.0654, step time: 1.0116
Batch 28/248, train_loss: 0.1469, step time: 1.0158
Batch 29/248, train_loss: 0.4103, step time: 1.0187
Batch 30/248, train_loss: 0.4706, step time: 1.0160
Batch 31/248, train_loss: 0.2654, step time: 1.0154
Batch 32/248, train_loss: 0.0739, step time: 1.0174
Batch 33/248, train_loss: 0.0598, step time: 1.0125
Batch 34/248, train_loss: 0.0435, step time: 1.0135
Batch 35/248, train_loss: 0.0433, step time: 1.0137
Batch 36/248, train_loss: 0.4792, step time: 1.0194
Batch 37/248, train_loss: 0.1400, step time: 1.0125
Batch 38/248, train_loss: 0.2672, step time: 1.0164
Batch 39/248, train_loss: 0.1711, step time: 1.0138
Batch 40/248, train_loss: 0.5410, step time: 1.0184
Batch 41/248, train_loss: 0.2313, step time: 1.0172
Batch 42/248, train_loss: 0.0654, step time: 1.0155
Batch 43/248, train_loss: 0.0505, step time: 1.0145
Batch 44/248, train_loss: 0.3576, step time: 1.0180
Batch 45/248, train_loss: 0.3585, step time: 1.0144
Batch 46/248, train_loss: 0.1489, step time: 1.0170
Batch 47/248, train_loss: 0.2833, step time: 1.0191
Batch 48/248, train_loss: 0.2122, step time: 1.0197
Batch 49/248, train_loss: 0.5059, step time: 1.0177
Batch 50/248, train_loss: 0.1251, step time: 1.0160
Batch 51/248, train_loss: 0.1202, step time: 1.0162
Batch 52/248, train_loss: 0.0953, step time: 1.0157
Batch 53/248, train_loss: 0.4491, step time: 1.0190
Batch 54/248, train_loss: 0.2445, step time: 1.0185
Batch 55/248, train_loss: 0.3447, step time: 1.0176
Batch 56/248, train_loss: 0.1781, step time: 1.0158
Batch 57/248, train_loss: 0.2708, step time: 1.0166
Batch 58/248, train_loss: 0.0686, step time: 1.0116
Batch 59/248, train_loss: 0.0889, step time: 1.0119
Batch 60/248, train_loss: 0.0523, step time: 1.0123
Batch 61/248, train_loss: 0.0914, step time: 1.0131
Batch 62/248, train_loss: 0.2034, step time: 1.0169
Batch 63/248, train_loss: 0.7010, step time: 1.0162
Batch 64/248, train_loss: 0.3381, step time: 1.0161
Batch 65/248, train_loss: 0.3169, step time: 1.0158
Batch 66/248, train_loss: 0.1294, step time: 1.0155
Batch 67/248, train_loss: 0.0695, step time: 1.0095
Batch 68/248, train_loss: 0.1663, step time: 1.0159
Batch 69/248, train_loss: 0.5781, step time: 1.0199
Batch 70/248, train_loss: 0.1279, step time: 1.0130
Batch 71/248, train_loss: 0.1228, step time: 1.0147
Batch 72/248, train_loss: 0.0551, step time: 1.0135
Batch 73/248, train_loss: 0.1864, step time: 1.0163
Batch 74/248, train_loss: 0.9952, step time: 1.0175
Batch 75/248, train_loss: 0.1184, step time: 1.0146
Batch 76/248, train_loss: 0.5194, step time: 1.0189
Batch 77/248, train_loss: 0.7416, step time: 1.0157
```

Batch 78/248, train\_loss: 0.1301, step time: 1.0159  
Batch 79/248, train\_loss: 0.1228, step time: 1.0151  
Batch 80/248, train\_loss: 0.1871, step time: 1.0171  
Batch 81/248, train\_loss: 0.1809, step time: 1.0162  
Batch 82/248, train\_loss: 0.0779, step time: 1.0145  
Batch 83/248, train\_loss: 0.6805, step time: 1.0197  
Batch 84/248, train\_loss: 0.2581, step time: 1.0180  
Batch 85/248, train\_loss: 0.3283, step time: 1.0154  
Batch 86/248, train\_loss: 0.2128, step time: 1.0135  
Batch 87/248, train\_loss: 0.4434, step time: 1.0181  
Batch 88/248, train\_loss: 0.3364, step time: 1.0182  
Batch 89/248, train\_loss: 0.0986, step time: 1.0137  
Batch 90/248, train\_loss: 0.4837, step time: 1.0191  
Batch 91/248, train\_loss: 0.3865, step time: 1.0186  
Batch 92/248, train\_loss: 0.2793, step time: 1.0128  
Batch 93/248, train\_loss: 0.1640, step time: 1.0260  
Batch 94/248, train\_loss: 0.2860, step time: 1.0177  
Batch 95/248, train\_loss: 0.1668, step time: 1.0156  
Batch 96/248, train\_loss: 0.1602, step time: 1.0175  
Batch 97/248, train\_loss: 0.4376, step time: 1.0194  
Batch 98/248, train\_loss: 0.1086, step time: 1.0156  
Batch 99/248, train\_loss: 0.3076, step time: 1.0159  
Batch 100/248, train\_loss: 0.2494, step time: 1.0183  
Batch 101/248, train\_loss: 0.0496, step time: 1.0132  
Batch 102/248, train\_loss: 0.1001, step time: 1.0127  
Batch 103/248, train\_loss: 0.7186, step time: 1.0141  
Batch 104/248, train\_loss: 0.3237, step time: 1.0190  
Batch 105/248, train\_loss: 0.0765, step time: 1.0150  
Batch 106/248, train\_loss: 0.1417, step time: 1.0151  
Batch 107/248, train\_loss: 0.1763, step time: 1.0159  
Batch 108/248, train\_loss: 0.5998, step time: 1.0202  
Batch 109/248, train\_loss: 0.9700, step time: 1.0176  
Batch 110/248, train\_loss: 0.1907, step time: 1.0168  
Batch 111/248, train\_loss: 0.1148, step time: 1.0150  
Batch 112/248, train\_loss: 0.1398, step time: 1.0134  
Batch 113/248, train\_loss: 0.9088, step time: 1.0144  
Batch 114/248, train\_loss: 0.1742, step time: 1.0132  
Batch 115/248, train\_loss: 0.1883, step time: 1.0159  
Batch 116/248, train\_loss: 0.0836, step time: 1.0164  
Batch 117/248, train\_loss: 0.5515, step time: 1.0178  
Batch 118/248, train\_loss: 0.4937, step time: 1.0177  
Batch 119/248, train\_loss: 0.3010, step time: 1.0138  
Batch 120/248, train\_loss: 0.2310, step time: 1.0139  
Batch 121/248, train\_loss: 0.3109, step time: 1.0171  
Batch 122/248, train\_loss: 0.3417, step time: 1.0145  
Batch 123/248, train\_loss: 0.0743, step time: 1.0156  
Batch 124/248, train\_loss: 0.3740, step time: 1.0169  
Batch 125/248, train\_loss: 0.6721, step time: 1.0185  
Batch 126/248, train\_loss: 0.2138, step time: 1.0133  
Batch 127/248, train\_loss: 0.0982, step time: 1.0163  
Batch 128/248, train\_loss: 0.2090, step time: 1.0191  
Batch 129/248, train\_loss: 0.1304, step time: 1.0180  
Batch 130/248, train\_loss: 0.1045, step time: 1.0152  
Batch 131/248, train\_loss: 0.5900, step time: 1.0168  
Batch 132/248, train\_loss: 0.2992, step time: 1.0158  
Batch 133/248, train\_loss: 0.1896, step time: 1.0166  
Batch 134/248, train\_loss: 0.8055, step time: 1.0157  
Batch 135/248, train\_loss: 0.5282, step time: 1.0197  
Batch 136/248, train\_loss: 0.1101, step time: 1.0149  
Batch 137/248, train\_loss: 0.1123, step time: 1.0125  
Batch 138/248, train\_loss: 0.0654, step time: 1.0141  
Batch 139/248, train\_loss: 0.2297, step time: 1.0150  
Batch 140/248, train\_loss: 0.1997, step time: 1.0179  
Batch 141/248, train\_loss: 0.1866, step time: 1.0134  
Batch 142/248, train\_loss: 0.4861, step time: 1.0158  
Batch 143/248, train\_loss: 0.2746, step time: 1.0177  
Batch 144/248, train\_loss: 0.1250, step time: 1.0158  
Batch 145/248, train\_loss: 0.0435, step time: 1.0122  
Batch 146/248, train\_loss: 0.5261, step time: 1.0290  
Batch 147/248, train\_loss: 0.0367, step time: 1.0140  
Batch 148/248, train\_loss: 0.7783, step time: 1.0186  
Batch 149/248, train\_loss: 0.1077, step time: 1.0156  
Batch 150/248, train\_loss: 0.6662, step time: 1.0158  
Batch 151/248, train\_loss: 0.2964, step time: 1.0172  
Batch 152/248, train\_loss: 0.0438, step time: 1.0133  
Batch 153/248, train\_loss: 0.2704, step time: 1.0184  
Batch 154/248, train\_loss: 0.7314, step time: 1.0189  
Batch 155/248, train\_loss: 0.1518, step time: 1.0171  
Batch 156/248, train\_loss: 0.1558, step time: 1.0175  
Batch 157/248, train\_loss: 0.2370, step time: 1.0183  
Batch 158/248, train\_loss: 0.9867, step time: 1.0120  
Batch 159/248, train\_loss: 0.3124, step time: 1.0183  
Batch 160/248, train\_loss: 0.0828, step time: 1.0164  
Batch 161/248, train\_loss: 0.1130, step time: 1.0170  
Batch 162/248, train\_loss: 0.0890, step time: 1.0127

--  
Batch 163/248, train\_loss: 0.1123, step time: 1.0150  
Batch 164/248, train\_loss: 0.1714, step time: 1.0140  
Batch 165/248, train\_loss: 0.4348, step time: 1.0140  
Batch 166/248, train\_loss: 0.0902, step time: 1.0152  
Batch 167/248, train\_loss: 0.1710, step time: 1.0143  
Batch 168/248, train\_loss: 0.1713, step time: 1.0172  
Batch 169/248, train\_loss: 0.0900, step time: 1.0131  
Batch 170/248, train\_loss: 0.7142, step time: 1.0152  
Batch 171/248, train\_loss: 0.1036, step time: 1.0138  
Batch 172/248, train\_loss: 0.3664, step time: 1.0176  
Batch 173/248, train\_loss: 0.0881, step time: 1.0137  
Batch 174/248, train\_loss: 0.8857, step time: 1.0172  
Batch 175/248, train\_loss: 0.1645, step time: 1.0145  
Batch 176/248, train\_loss: 0.3745, step time: 1.0195  
Batch 177/248, train\_loss: 0.2222, step time: 1.0187  
Batch 178/248, train\_loss: 0.3132, step time: 1.0149  
Batch 179/248, train\_loss: 0.0803, step time: 1.0150  
Batch 180/248, train\_loss: 0.3208, step time: 1.0172  
Batch 181/248, train\_loss: 0.1017, step time: 1.0136  
Batch 182/248, train\_loss: 0.9577, step time: 1.0148  
Batch 183/248, train\_loss: 0.2212, step time: 1.0157  
Batch 184/248, train\_loss: 0.4697, step time: 1.0173  
Batch 185/248, train\_loss: 0.1107, step time: 1.0148  
Batch 186/248, train\_loss: 0.1182, step time: 1.0174  
Batch 187/248, train\_loss: 0.1961, step time: 1.0168  
Batch 188/248, train\_loss: 0.3790, step time: 1.0143  
Batch 189/248, train\_loss: 0.4453, step time: 1.0177  
Batch 190/248, train\_loss: 0.1355, step time: 1.0137  
Batch 191/248, train\_loss: 0.5869, step time: 1.0141  
Batch 192/248, train\_loss: 0.2487, step time: 1.0155  
Batch 193/248, train\_loss: 0.2787, step time: 1.0162  
Batch 194/248, train\_loss: 0.0715, step time: 1.0143  
Batch 195/248, train\_loss: 0.5771, step time: 1.0173  
Batch 196/248, train\_loss: 0.9991, step time: 1.0144  
Batch 197/248, train\_loss: 0.1818, step time: 1.0153  
Batch 198/248, train\_loss: 0.8421, step time: 1.0219  
Batch 199/248, train\_loss: 0.1336, step time: 1.0173  
Batch 200/248, train\_loss: 0.1558, step time: 1.0165  
Batch 201/248, train\_loss: 0.1171, step time: 1.0132  
Batch 202/248, train\_loss: 0.4379, step time: 1.0180  
Batch 203/248, train\_loss: 0.4746, step time: 1.0205  
Batch 204/248, train\_loss: 0.0854, step time: 1.0111  
Batch 205/248, train\_loss: 0.2294, step time: 1.0156  
Batch 206/248, train\_loss: 0.2881, step time: 1.0221  
Batch 207/248, train\_loss: 0.1314, step time: 1.0173  
Batch 208/248, train\_loss: 0.1479, step time: 1.0151  
Batch 209/248, train\_loss: 0.2066, step time: 1.0164  
Batch 210/248, train\_loss: 0.0585, step time: 1.0119  
Batch 211/248, train\_loss: 0.0555, step time: 1.0099  
Batch 212/248, train\_loss: 0.2381, step time: 1.0180  
Batch 213/248, train\_loss: 0.1629, step time: 1.0148  
Batch 214/248, train\_loss: 0.0661, step time: 1.0130  
Batch 215/248, train\_loss: 0.1684, step time: 1.0141  
Batch 216/248, train\_loss: 0.1255, step time: 1.0171  
Batch 217/248, train\_loss: 0.2536, step time: 1.0156  
Batch 218/248, train\_loss: 0.7762, step time: 1.0187  
Batch 219/248, train\_loss: 0.0696, step time: 1.0177  
Batch 220/248, train\_loss: 0.2097, step time: 1.0157  
Batch 221/248, train\_loss: 0.2665, step time: 1.0171  
Batch 222/248, train\_loss: 0.1813, step time: 1.0145  
Batch 223/248, train\_loss: 0.0422, step time: 1.0133  
Batch 224/248, train\_loss: 0.0857, step time: 1.0124  
Batch 225/248, train\_loss: 0.1919, step time: 1.0159  
Batch 226/248, train\_loss: 0.1793, step time: 1.0159  
Batch 227/248, train\_loss: 0.0798, step time: 1.0136  
Batch 228/248, train\_loss: 0.1502, step time: 1.0168  
Batch 229/248, train\_loss: 0.0905, step time: 1.0098  
Batch 230/248, train\_loss: 0.0697, step time: 1.0171  
Batch 231/248, train\_loss: 0.4007, step time: 1.0155  
Batch 232/248, train\_loss: 0.0743, step time: 1.0157  
Batch 233/248, train\_loss: 0.7582, step time: 1.0172  
Batch 234/248, train\_loss: 0.4262, step time: 1.0174  
Batch 235/248, train\_loss: 0.3555, step time: 1.0180  
Batch 236/248, train\_loss: 0.8250, step time: 1.0174  
Batch 237/248, train\_loss: 0.1004, step time: 1.0151  
Batch 238/248, train\_loss: 0.1003, step time: 1.0173  
Batch 239/248, train\_loss: 0.1068, step time: 1.0160  
Batch 240/248, train\_loss: 0.3610, step time: 1.0183  
Batch 241/248, train\_loss: 0.5105, step time: 1.0198  
Batch 242/248, train\_loss: 0.1486, step time: 1.0168  
Batch 243/248, train\_loss: 0.5918, step time: 1.0160  
Batch 244/248, train\_loss: 0.6966, step time: 1.0188  
Batch 245/248, train\_loss: 0.0632, step time: 1.0115  
Batch 246/248, train\_loss: 0.5651, step time: 1.0184  
Batch 247/248, train\_loss: 0.1021, step time: 1.0157

Batch 247/248, train\_loss: 0.9998, step time: 1.0084  
Batch 248/248, train\_loss: 0.9998, step time: 1.0084

Labels



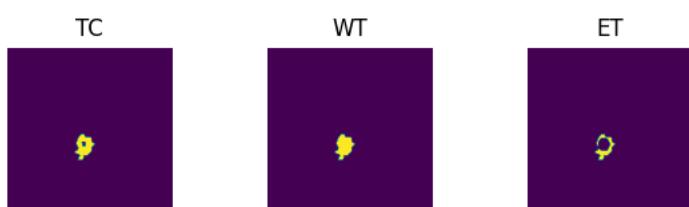
Predictions



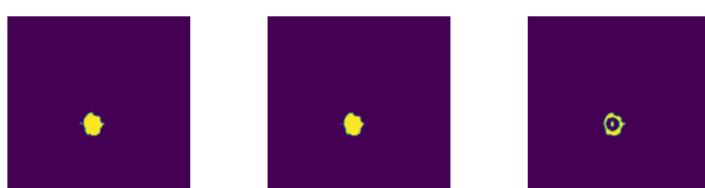
VAL

Batch 1/31, val\_loss: 0.9508  
Batch 2/31, val\_loss: 0.9922  
Batch 3/31, val\_loss: 0.9632  
Batch 4/31, val\_loss: 0.9409  
Batch 5/31, val\_loss: 0.9928  
Batch 6/31, val\_loss: 0.7408  
Batch 7/31, val\_loss: 0.8708  
Batch 8/31, val\_loss: 0.9473  
Batch 9/31, val\_loss: 0.7140  
Batch 10/31, val\_loss: 0.9066  
Batch 11/31, val\_loss: 0.8259  
Batch 12/31, val\_loss: 0.9729  
Batch 13/31, val\_loss: 0.9857  
Batch 14/31, val\_loss: 0.9418  
Batch 15/31, val\_loss: 0.9926  
Batch 16/31, val\_loss: 0.9751  
Batch 17/31, val\_loss: 0.9723  
Batch 18/31, val\_loss: 0.9334  
Batch 19/31, val\_loss: 0.7442  
Batch 20/31, val\_loss: 0.8817  
Batch 21/31, val\_loss: 0.8787  
Batch 22/31, val\_loss: 0.9738  
Batch 23/31, val\_loss: 0.9760  
Batch 24/31, val\_loss: 0.7460  
Batch 25/31, val\_loss: 0.8075  
Batch 26/31, val\_loss: 0.9163  
Batch 27/31, val\_loss: 0.9655  
Batch 28/31, val\_loss: 0.7775  
Batch 29/31, val\_loss: 0.9821  
Batch 30/31, val\_loss: 0.9557  
Batch 31/31, val\_loss: 0.9825

Labels



Predictions



epoch 67

average train loss: 0.2859  
average validation loss: 0.9099  
saved as best model: False  
current mean dice: 0.4800

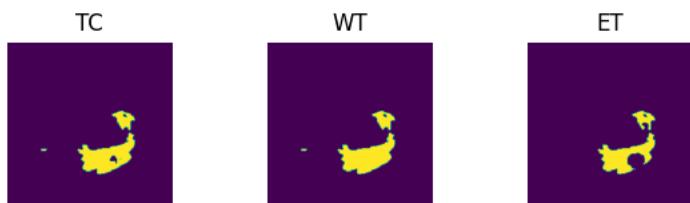
```
current TC dice: 0.5023
current WT dice: 0.5075
current ET dice: 0.4713
Best Mean Metric: 0.5068
time consuming of epoch 67 is: 1572.4474
-----
epoch 68/100
TRAIN
Batch 1/248, train_loss: 0.1262, step time: 1.0160
Batch 2/248, train_loss: 0.7899, step time: 1.0202
Batch 3/248, train_loss: 0.3448, step time: 1.0163
Batch 4/248, train_loss: 0.9106, step time: 1.0160
Batch 5/248, train_loss: 0.2079, step time: 1.0141
Batch 6/248, train_loss: 0.4613, step time: 1.0181
Batch 7/248, train_loss: 0.0649, step time: 1.0143
Batch 8/248, train_loss: 0.7196, step time: 1.0162
Batch 9/248, train_loss: 0.0512, step time: 1.0148
Batch 10/248, train_loss: 0.2554, step time: 1.0177
Batch 11/248, train_loss: 0.2509, step time: 1.0147
Batch 12/248, train_loss: 0.4875, step time: 1.0200
Batch 13/248, train_loss: 0.4025, step time: 1.0203
Batch 14/248, train_loss: 0.0588, step time: 1.0139
Batch 15/248, train_loss: 0.2894, step time: 1.0146
Batch 16/248, train_loss: 0.1248, step time: 1.0118
Batch 17/248, train_loss: 0.2378, step time: 1.0125
Batch 18/248, train_loss: 0.6017, step time: 1.0192
Batch 19/248, train_loss: 0.0963, step time: 1.0128
Batch 20/248, train_loss: 0.2274, step time: 1.0169
Batch 21/248, train_loss: 0.0599, step time: 1.0129
Batch 22/248, train_loss: 0.5817, step time: 1.0205
Batch 23/248, train_loss: 0.9876, step time: 1.0142
Batch 24/248, train_loss: 0.0824, step time: 1.0152
Batch 25/248, train_loss: 0.0653, step time: 1.0117
Batch 26/248, train_loss: 0.4757, step time: 1.0157
Batch 27/248, train_loss: 0.0742, step time: 1.0156
Batch 28/248, train_loss: 0.1803, step time: 1.0171
Batch 29/248, train_loss: 0.3259, step time: 1.0179
Batch 30/248, train_loss: 0.4977, step time: 1.0192
Batch 31/248, train_loss: 0.3822, step time: 1.0170
Batch 32/248, train_loss: 0.0798, step time: 1.0138
Batch 33/248, train_loss: 0.0688, step time: 1.0144
Batch 34/248, train_loss: 0.0440, step time: 1.0130
Batch 35/248, train_loss: 0.0526, step time: 1.0130
Batch 36/248, train_loss: 0.4489, step time: 1.0178
Batch 37/248, train_loss: 0.1727, step time: 1.0136
Batch 38/248, train_loss: 0.2599, step time: 1.0172
Batch 39/248, train_loss: 0.1767, step time: 1.0090
Batch 40/248, train_loss: 0.6983, step time: 1.0175
Batch 41/248, train_loss: 0.1968, step time: 1.0115
Batch 42/248, train_loss: 0.0725, step time: 1.0147
Batch 43/248, train_loss: 0.0477, step time: 1.0140
Batch 44/248, train_loss: 0.3437, step time: 1.0153
Batch 45/248, train_loss: 0.3757, step time: 1.0190
Batch 46/248, train_loss: 0.1385, step time: 1.0184
Batch 47/248, train_loss: 0.0679, step time: 1.0170
Batch 48/248, train_loss: 0.2726, step time: 1.0157
Batch 49/248, train_loss: 0.5026, step time: 1.0176
Batch 50/248, train_loss: 0.1460, step time: 1.0153
Batch 51/248, train_loss: 0.1291, step time: 1.0141
Batch 52/248, train_loss: 0.0950, step time: 1.0157
Batch 53/248, train_loss: 0.3931, step time: 1.0161
Batch 54/248, train_loss: 0.2310, step time: 1.0157
Batch 55/248, train_loss: 0.4782, step time: 1.0169
Batch 56/248, train_loss: 0.2162, step time: 1.0177
Batch 57/248, train_loss: 0.2961, step time: 1.0144
Batch 58/248, train_loss: 0.0821, step time: 1.0151
Batch 59/248, train_loss: 0.0882, step time: 1.0142
Batch 60/248, train_loss: 0.0491, step time: 1.0093
Batch 61/248, train_loss: 0.0944, step time: 1.0100
Batch 62/248, train_loss: 0.2349, step time: 1.0171
Batch 63/248, train_loss: 0.7060, step time: 1.0166
Batch 64/248, train_loss: 0.4558, step time: 1.0176
Batch 65/248, train_loss: 0.2440, step time: 1.0170
Batch 66/248, train_loss: 0.1712, step time: 1.0200
Batch 67/248, train_loss: 0.0646, step time: 1.0112
Batch 68/248, train_loss: 0.1188, step time: 1.0185
Batch 69/248, train_loss: 0.3884, step time: 1.0185
Batch 70/248, train_loss: 0.1361, step time: 1.0166
Batch 71/248, train_loss: 0.1358, step time: 1.0123
Batch 72/248, train_loss: 0.0619, step time: 1.0141
Batch 73/248, train_loss: 0.3907, step time: 1.0146
Batch 74/248, train_loss: 0.9945, step time: 1.0121
Batch 75/248, train_loss: 0.1315, step time: 1.0114
Batch 76/248, train_loss: 0.6119, step time: 1.0173
Batch 77/248, train_loss: 0.7674, step time: 1.0204
```

Batch 77/248, train\_loss: 0.1511, step time: 1.0120  
Batch 78/248, train\_loss: 0.1514, step time: 1.0151  
Batch 79/248, train\_loss: 0.2070, step time: 1.0170  
Batch 80/248, train\_loss: 0.2027, step time: 1.0160  
Batch 81/248, train\_loss: 0.1970, step time: 1.0180  
Batch 82/248, train\_loss: 0.0825, step time: 1.0167  
Batch 83/248, train\_loss: 0.5494, step time: 1.0190  
Batch 84/248, train\_loss: 0.2256, step time: 1.0151  
Batch 85/248, train\_loss: 0.3962, step time: 1.0157  
Batch 86/248, train\_loss: 0.3323, step time: 1.0151  
Batch 87/248, train\_loss: 0.4839, step time: 1.0148  
Batch 88/248, train\_loss: 0.3257, step time: 1.0159  
Batch 89/248, train\_loss: 0.0897, step time: 1.0109  
Batch 90/248, train\_loss: 0.2753, step time: 1.0153  
Batch 91/248, train\_loss: 0.3351, step time: 1.0162  
Batch 92/248, train\_loss: 0.2588, step time: 1.0137  
Batch 93/248, train\_loss: 0.1555, step time: 1.0156  
Batch 94/248, train\_loss: 0.2734, step time: 1.0202  
Batch 95/248, train\_loss: 0.1698, step time: 1.0157  
Batch 96/248, train\_loss: 0.1720, step time: 1.0158  
Batch 97/248, train\_loss: 0.3989, step time: 1.0161  
Batch 98/248, train\_loss: 0.1095, step time: 1.0139  
Batch 99/248, train\_loss: 0.3611, step time: 1.0176  
Batch 100/248, train\_loss: 0.2294, step time: 1.0163  
Batch 101/248, train\_loss: 0.0553, step time: 1.0098  
Batch 102/248, train\_loss: 0.1010, step time: 1.0161  
Batch 103/248, train\_loss: 0.3627, step time: 1.0183  
Batch 104/248, train\_loss: 0.2822, step time: 1.0154  
Batch 105/248, train\_loss: 0.0763, step time: 1.0110  
Batch 106/248, train\_loss: 0.1220, step time: 1.0130  
Batch 107/248, train\_loss: 0.2149, step time: 1.0151  
Batch 108/248, train\_loss: 0.4423, step time: 1.0156  
Batch 109/248, train\_loss: 0.9637, step time: 1.0169  
Batch 110/248, train\_loss: 0.2054, step time: 1.0168  
Batch 111/248, train\_loss: 0.0983, step time: 1.0153  
Batch 112/248, train\_loss: 0.1386, step time: 1.0170  
Batch 113/248, train\_loss: 0.8019, step time: 1.0181  
Batch 114/248, train\_loss: 0.1529, step time: 1.0142  
Batch 115/248, train\_loss: 0.1614, step time: 1.0225  
Batch 116/248, train\_loss: 0.0821, step time: 1.0122  
Batch 117/248, train\_loss: 0.7084, step time: 1.0187  
Batch 118/248, train\_loss: 0.6349, step time: 1.0166  
Batch 119/248, train\_loss: 0.3139, step time: 1.0167  
Batch 120/248, train\_loss: 0.2402, step time: 1.0144  
Batch 121/248, train\_loss: 0.2761, step time: 1.0174  
Batch 122/248, train\_loss: 0.3386, step time: 1.0155  
Batch 123/248, train\_loss: 0.0808, step time: 1.0153  
Batch 124/248, train\_loss: 0.2488, step time: 1.0179  
Batch 125/248, train\_loss: 0.5748, step time: 1.0190  
Batch 126/248, train\_loss: 0.1832, step time: 1.0150  
Batch 127/248, train\_loss: 0.1052, step time: 1.0157  
Batch 128/248, train\_loss: 0.3883, step time: 1.0163  
Batch 129/248, train\_loss: 0.1148, step time: 1.0150  
Batch 130/248, train\_loss: 0.0970, step time: 1.0159  
Batch 131/248, train\_loss: 0.4640, step time: 1.0167  
Batch 132/248, train\_loss: 0.4779, step time: 1.0164  
Batch 133/248, train\_loss: 0.1372, step time: 1.0116  
Batch 134/248, train\_loss: 0.7971, step time: 1.0188  
Batch 135/248, train\_loss: 0.2555, step time: 1.0169  
Batch 136/248, train\_loss: 0.1088, step time: 1.0138  
Batch 137/248, train\_loss: 0.1395, step time: 1.0144  
Batch 138/248, train\_loss: 0.0650, step time: 1.0131  
Batch 139/248, train\_loss: 0.2489, step time: 1.0154  
Batch 140/248, train\_loss: 0.2053, step time: 1.0152  
Batch 141/248, train\_loss: 0.2712, step time: 1.0162  
Batch 142/248, train\_loss: 0.4493, step time: 1.0167  
Batch 143/248, train\_loss: 0.2306, step time: 1.0144  
Batch 144/248, train\_loss: 0.1290, step time: 1.0113  
Batch 145/248, train\_loss: 0.0542, step time: 1.0132  
Batch 146/248, train\_loss: 0.5144, step time: 1.0173  
Batch 147/248, train\_loss: 0.0364, step time: 1.0088  
Batch 148/248, train\_loss: 0.6349, step time: 1.0167  
Batch 149/248, train\_loss: 0.1029, step time: 1.0136  
Batch 150/248, train\_loss: 0.6516, step time: 1.0159  
Batch 151/248, train\_loss: 0.4986, step time: 1.0161  
Batch 152/248, train\_loss: 0.0392, step time: 1.0119  
Batch 153/248, train\_loss: 0.3328, step time: 1.0149  
Batch 154/248, train\_loss: 0.6939, step time: 1.0197  
Batch 155/248, train\_loss: 0.1513, step time: 1.0160  
Batch 156/248, train\_loss: 0.3585, step time: 1.0175  
Batch 157/248, train\_loss: 0.2318, step time: 1.0147  
Batch 158/248, train\_loss: 0.9787, step time: 1.0167  
Batch 159/248, train\_loss: 0.3089, step time: 1.0173  
Batch 160/248, train\_loss: 0.0879, step time: 1.0154  
Batch 161/248, train\_loss: 0.0990, step time: 1.0159

Batch 162/248, train\_loss: 0.0892, step time: 1.0165  
Batch 163/248, train\_loss: 0.1139, step time: 1.0178  
Batch 164/248, train\_loss: 0.1421, step time: 1.0155  
Batch 165/248, train\_loss: 0.5019, step time: 1.0183  
Batch 166/248, train\_loss: 0.0730, step time: 1.0159  
Batch 167/248, train\_loss: 0.1641, step time: 1.0165  
Batch 168/248, train\_loss: 0.1515, step time: 1.0124  
Batch 169/248, train\_loss: 0.0855, step time: 1.0157  
Batch 170/248, train\_loss: 0.7059, step time: 1.0168  
Batch 171/248, train\_loss: 0.0938, step time: 1.0121  
Batch 172/248, train\_loss: 0.3196, step time: 1.0157  
Batch 173/248, train\_loss: 0.1047, step time: 1.0143  
Batch 174/248, train\_loss: 0.4818, step time: 1.0162  
Batch 175/248, train\_loss: 0.2837, step time: 1.0180  
Batch 176/248, train\_loss: 0.3582, step time: 1.0185  
Batch 177/248, train\_loss: 0.1928, step time: 1.0168  
Batch 178/248, train\_loss: 0.4425, step time: 1.0181  
Batch 179/248, train\_loss: 0.0863, step time: 1.0152  
Batch 180/248, train\_loss: 0.2929, step time: 1.0132  
Batch 181/248, train\_loss: 0.1081, step time: 1.0155  
Batch 182/248, train\_loss: 0.9355, step time: 1.0157  
Batch 183/248, train\_loss: 0.2425, step time: 1.0151  
Batch 184/248, train\_loss: 0.4948, step time: 1.0172  
Batch 185/248, train\_loss: 0.1293, step time: 1.0120  
Batch 186/248, train\_loss: 0.1463, step time: 1.0154  
Batch 187/248, train\_loss: 0.2301, step time: 1.0146  
Batch 188/248, train\_loss: 0.3165, step time: 1.0189  
Batch 189/248, train\_loss: 0.4392, step time: 1.0153  
Batch 190/248, train\_loss: 0.1404, step time: 1.0146  
Batch 191/248, train\_loss: 0.6759, step time: 1.0172  
Batch 192/248, train\_loss: 0.2791, step time: 1.0138  
Batch 193/248, train\_loss: 0.2712, step time: 1.0161  
Batch 194/248, train\_loss: 0.0817, step time: 1.0118  
Batch 195/248, train\_loss: 0.6994, step time: 1.0185  
Batch 196/248, train\_loss: 0.9994, step time: 1.0075  
Batch 197/248, train\_loss: 0.2361, step time: 1.0163  
Batch 198/248, train\_loss: 0.5985, step time: 1.0196  
Batch 199/248, train\_loss: 0.1211, step time: 1.0123  
Batch 200/248, train\_loss: 0.1401, step time: 1.0133  
Batch 201/248, train\_loss: 0.1238, step time: 1.0099  
Batch 202/248, train\_loss: 0.3637, step time: 1.0164  
Batch 203/248, train\_loss: 0.5277, step time: 1.0157  
Batch 204/248, train\_loss: 0.0823, step time: 1.0137  
Batch 205/248, train\_loss: 0.2307, step time: 1.0119  
Batch 206/248, train\_loss: 0.3736, step time: 1.0157  
Batch 207/248, train\_loss: 0.0874, step time: 1.0134  
Batch 208/248, train\_loss: 0.1605, step time: 1.0147  
Batch 209/248, train\_loss: 0.1449, step time: 1.0128  
Batch 210/248, train\_loss: 0.0597, step time: 1.0142  
Batch 211/248, train\_loss: 0.0562, step time: 1.0134  
Batch 212/248, train\_loss: 0.2200, step time: 1.0172  
Batch 213/248, train\_loss: 0.1597, step time: 1.0164  
Batch 214/248, train\_loss: 0.0729, step time: 1.0116  
Batch 215/248, train\_loss: 0.1672, step time: 1.0177  
Batch 216/248, train\_loss: 0.1158, step time: 1.0175  
Batch 217/248, train\_loss: 0.2539, step time: 1.0182  
Batch 218/248, train\_loss: 0.7978, step time: 1.0182  
Batch 219/248, train\_loss: 0.0669, step time: 1.0154  
Batch 220/248, train\_loss: 0.2086, step time: 1.0187  
Batch 221/248, train\_loss: 0.2645, step time: 1.0201  
Batch 222/248, train\_loss: 0.1977, step time: 1.0128  
Batch 223/248, train\_loss: 0.0405, step time: 1.0118  
Batch 224/248, train\_loss: 0.0703, step time: 1.0140  
Batch 225/248, train\_loss: 0.1685, step time: 1.0167  
Batch 226/248, train\_loss: 0.1323, step time: 1.0152  
Batch 227/248, train\_loss: 0.1012, step time: 1.0162  
Batch 228/248, train\_loss: 0.1535, step time: 1.0162  
Batch 229/248, train\_loss: 0.1184, step time: 1.0141  
Batch 230/248, train\_loss: 0.0632, step time: 1.0190  
Batch 231/248, train\_loss: 0.3222, step time: 1.0179  
Batch 232/248, train\_loss: 0.0759, step time: 1.0175  
Batch 233/248, train\_loss: 0.8046, step time: 1.0169  
Batch 234/248, train\_loss: 0.4075, step time: 1.0128  
Batch 235/248, train\_loss: 0.3126, step time: 1.0190  
Batch 236/248, train\_loss: 0.7809, step time: 1.0175  
Batch 237/248, train\_loss: 0.0927, step time: 1.0127  
Batch 238/248, train\_loss: 0.1052, step time: 1.0151  
Batch 239/248, train\_loss: 0.0534, step time: 1.0119  
Batch 240/248, train\_loss: 0.2729, step time: 1.0171  
Batch 241/248, train\_loss: 0.4443, step time: 1.0194  
Batch 242/248, train\_loss: 0.1431, step time: 1.0160  
Batch 243/248, train\_loss: 0.5529, step time: 1.0155  
Batch 244/248, train\_loss: 0.4031, step time: 1.0176  
Batch 245/248, train\_loss: 0.0611, step time: 1.0126  
Batch 246/248, train\_loss: 0.5581, step time: 1.0165

```
Batch 247/248, train_loss: 0.0709, step time: 1.0138  
Batch 248/248, train_loss: 0.9997, step time: 1.0078
```

Labels



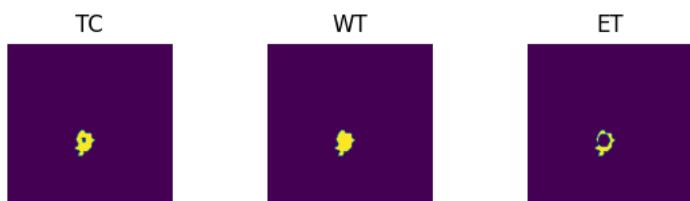
Predictions



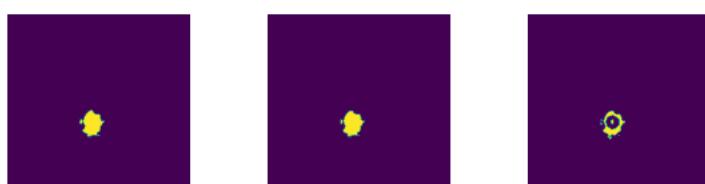
VAL

```
Batch 1/31, val_loss: 0.9257  
Batch 2/31, val_loss: 0.9906  
Batch 3/31, val_loss: 0.9608  
Batch 4/31, val_loss: 0.9372  
Batch 5/31, val_loss: 0.9925  
Batch 6/31, val_loss: 0.6897  
Batch 7/31, val_loss: 0.8302  
Batch 8/31, val_loss: 0.9725  
Batch 9/31, val_loss: 0.6887  
Batch 10/31, val_loss: 0.9006  
Batch 11/31, val_loss: 0.8235  
Batch 12/31, val_loss: 0.9719  
Batch 13/31, val_loss: 0.9924  
Batch 14/31, val_loss: 0.9464  
Batch 15/31, val_loss: 0.9929  
Batch 16/31, val_loss: 0.9737  
Batch 17/31, val_loss: 0.9754  
Batch 18/31, val_loss: 0.9440  
Batch 19/31, val_loss: 0.7393  
Batch 20/31, val_loss: 0.8826  
Batch 21/31, val_loss: 0.8595  
Batch 22/31, val_loss: 0.9703  
Batch 23/31, val_loss: 0.9806  
Batch 24/31, val_loss: 0.7468  
Batch 25/31, val_loss: 0.7984  
Batch 26/31, val_loss: 0.9167  
Batch 27/31, val_loss: 0.9711  
Batch 28/31, val_loss: 0.7441  
Batch 29/31, val_loss: 0.9806  
Batch 30/31, val_loss: 0.9559  
Batch 31/31, val_loss: 0.9830
```

Labels



Predictions



epoch 68

```
average train loss: 0.2850  
average validation loss: 0.9044  
saved as best model: True  
current mean dice: 0.5125
```

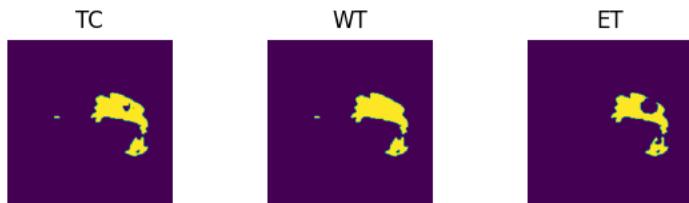
current mean dice: 0.5135  
current TC dice: 0.5331  
current WT dice: 0.5436  
current ET dice: 0.5057  
Best Mean Metric: 0.5135  
time consuming of epoch 68 is: 1569.2486  
-----  
epoch 69/100  
TRAIN  
Batch 1/248, train\_loss: 0.0798, step time: 1.0150  
Batch 2/248, train\_loss: 0.5851, step time: 1.0195  
Batch 3/248, train\_loss: 0.2733, step time: 1.0172  
Batch 4/248, train\_loss: 0.9632, step time: 1.0175  
Batch 5/248, train\_loss: 0.2151, step time: 1.0164  
Batch 6/248, train\_loss: 0.6117, step time: 1.0123  
Batch 7/248, train\_loss: 0.0599, step time: 1.0151  
Batch 8/248, train\_loss: 0.7231, step time: 1.0156  
Batch 9/248, train\_loss: 0.0417, step time: 1.0195  
Batch 10/248, train\_loss: 0.2276, step time: 1.0148  
Batch 11/248, train\_loss: 0.1613, step time: 1.0170  
Batch 12/248, train\_loss: 0.5049, step time: 1.0197  
Batch 13/248, train\_loss: 0.2758, step time: 1.0170  
Batch 14/248, train\_loss: 0.0501, step time: 1.0115  
Batch 15/248, train\_loss: 0.2829, step time: 1.0168  
Batch 16/248, train\_loss: 0.1338, step time: 1.0120  
Batch 17/248, train\_loss: 0.2168, step time: 1.0175  
Batch 18/248, train\_loss: 0.3221, step time: 1.0148  
Batch 19/248, train\_loss: 0.0897, step time: 1.0148  
Batch 20/248, train\_loss: 0.1788, step time: 1.0155  
Batch 21/248, train\_loss: 0.0640, step time: 1.0144  
Batch 22/248, train\_loss: 0.8008, step time: 1.0190  
Batch 23/248, train\_loss: 0.9970, step time: 1.0108  
Batch 24/248, train\_loss: 0.0740, step time: 1.0146  
Batch 25/248, train\_loss: 0.0632, step time: 1.0150  
Batch 26/248, train\_loss: 0.3750, step time: 1.0177  
Batch 27/248, train\_loss: 0.0709, step time: 1.0131  
Batch 28/248, train\_loss: 0.1462, step time: 1.0175  
Batch 29/248, train\_loss: 0.3437, step time: 1.0184  
Batch 30/248, train\_loss: 0.1946, step time: 1.0164  
Batch 31/248, train\_loss: 0.2509, step time: 1.0137  
Batch 32/248, train\_loss: 0.0704, step time: 1.0148  
Batch 33/248, train\_loss: 0.0677, step time: 1.0143  
Batch 34/248, train\_loss: 0.0459, step time: 1.0134  
Batch 35/248, train\_loss: 0.0430, step time: 1.0110  
Batch 36/248, train\_loss: 0.3981, step time: 1.0184  
Batch 37/248, train\_loss: 0.1348, step time: 1.0119  
Batch 38/248, train\_loss: 0.2490, step time: 1.0146  
Batch 39/248, train\_loss: 0.1768, step time: 1.0158  
Batch 40/248, train\_loss: 0.5579, step time: 1.0174  
Batch 41/248, train\_loss: 0.2964, step time: 1.0164  
Batch 42/248, train\_loss: 0.0638, step time: 1.0160  
Batch 43/248, train\_loss: 0.0495, step time: 1.0102  
Batch 44/248, train\_loss: 0.2907, step time: 1.0164  
Batch 45/248, train\_loss: 0.3661, step time: 1.0161  
Batch 46/248, train\_loss: 0.1343, step time: 1.0163  
Batch 47/248, train\_loss: 0.0688, step time: 1.0161  
Batch 48/248, train\_loss: 0.1934, step time: 1.0156  
Batch 49/248, train\_loss: 0.5565, step time: 1.0177  
Batch 50/248, train\_loss: 0.1324, step time: 1.0162  
Batch 51/248, train\_loss: 0.1238, step time: 1.0173  
Batch 52/248, train\_loss: 0.0960, step time: 1.0159  
Batch 53/248, train\_loss: 0.4068, step time: 1.0203  
Batch 54/248, train\_loss: 0.2417, step time: 1.0191  
Batch 55/248, train\_loss: 0.5086, step time: 1.0162  
Batch 56/248, train\_loss: 0.2165, step time: 1.0173  
Batch 57/248, train\_loss: 0.2396, step time: 1.0176  
Batch 58/248, train\_loss: 0.0820, step time: 1.0153  
Batch 59/248, train\_loss: 0.0855, step time: 1.0168  
Batch 60/248, train\_loss: 0.0558, step time: 1.0128  
Batch 61/248, train\_loss: 0.0964, step time: 1.0137  
Batch 62/248, train\_loss: 0.2019, step time: 1.0149  
Batch 63/248, train\_loss: 0.5692, step time: 1.0146  
Batch 64/248, train\_loss: 0.3419, step time: 1.0141  
Batch 65/248, train\_loss: 0.2475, step time: 1.0155  
Batch 66/248, train\_loss: 0.1364, step time: 1.0174  
Batch 67/248, train\_loss: 0.0663, step time: 1.0133  
Batch 68/248, train\_loss: 0.2527, step time: 1.0181  
Batch 69/248, train\_loss: 0.4057, step time: 1.0203  
Batch 70/248, train\_loss: 0.1377, step time: 1.0167  
Batch 71/248, train\_loss: 0.1349, step time: 1.0150  
Batch 72/248, train\_loss: 0.0622, step time: 1.0127  
Batch 73/248, train\_loss: 0.2409, step time: 1.0163  
Batch 74/248, train\_loss: 0.9968, step time: 1.0085  
Batch 75/248, train\_loss: 0.1269, step time: 1.0160  
Batch 76/248, train\_loss: 0.5271, step time: 1.0186

Batch 77/248, train\_loss: 0.7609, step time: 1.0166  
Batch 78/248, train\_loss: 0.1255, step time: 1.0147  
Batch 79/248, train\_loss: 0.1225, step time: 1.0149  
Batch 80/248, train\_loss: 0.1860, step time: 1.0129  
Batch 81/248, train\_loss: 0.1732, step time: 1.0178  
Batch 82/248, train\_loss: 0.0825, step time: 1.0149  
Batch 83/248, train\_loss: 0.5192, step time: 1.0185  
Batch 84/248, train\_loss: 0.2736, step time: 1.0187  
Batch 85/248, train\_loss: 0.3616, step time: 1.0170  
Batch 86/248, train\_loss: 0.2956, step time: 1.0170  
Batch 87/248, train\_loss: 0.4961, step time: 1.0162  
Batch 88/248, train\_loss: 0.3212, step time: 1.0144  
Batch 89/248, train\_loss: 0.0986, step time: 1.0192  
Batch 90/248, train\_loss: 0.2287, step time: 1.0165  
Batch 91/248, train\_loss: 0.3637, step time: 1.0170  
Batch 92/248, train\_loss: 0.2690, step time: 1.0164  
Batch 93/248, train\_loss: 0.1452, step time: 1.0159  
Batch 94/248, train\_loss: 0.2726, step time: 1.0168  
Batch 95/248, train\_loss: 0.1654, step time: 1.0158  
Batch 96/248, train\_loss: 0.1708, step time: 1.0173  
Batch 97/248, train\_loss: 0.3532, step time: 1.0170  
Batch 98/248, train\_loss: 0.1888, step time: 1.0212  
Batch 99/248, train\_loss: 0.3230, step time: 1.0141  
Batch 100/248, train\_loss: 0.2759, step time: 1.0161  
Batch 101/248, train\_loss: 0.0557, step time: 1.0142  
Batch 102/248, train\_loss: 0.1238, step time: 1.0164  
Batch 103/248, train\_loss: 0.5461, step time: 1.0175  
Batch 104/248, train\_loss: 0.3871, step time: 1.0172  
Batch 105/248, train\_loss: 0.0740, step time: 1.0154  
Batch 106/248, train\_loss: 0.3365, step time: 1.0180  
Batch 107/248, train\_loss: 0.2126, step time: 1.0182  
Batch 108/248, train\_loss: 0.3770, step time: 1.0157  
Batch 109/248, train\_loss: 0.8548, step time: 1.0167  
Batch 110/248, train\_loss: 0.3486, step time: 1.0173  
Batch 111/248, train\_loss: 0.1930, step time: 1.0178  
Batch 112/248, train\_loss: 0.1502, step time: 1.0175  
Batch 113/248, train\_loss: 0.8050, step time: 1.0190  
Batch 114/248, train\_loss: 0.1510, step time: 1.0150  
Batch 115/248, train\_loss: 0.1661, step time: 1.0130  
Batch 116/248, train\_loss: 0.0795, step time: 1.0152  
Batch 117/248, train\_loss: 0.6726, step time: 1.0196  
Batch 118/248, train\_loss: 0.7758, step time: 1.0173  
Batch 119/248, train\_loss: 0.2992, step time: 1.0143  
Batch 120/248, train\_loss: 0.2509, step time: 1.0150  
Batch 121/248, train\_loss: 0.3124, step time: 1.0161  
Batch 122/248, train\_loss: 0.3618, step time: 1.0167  
Batch 123/248, train\_loss: 0.0747, step time: 1.0165  
Batch 124/248, train\_loss: 0.4659, step time: 1.0200  
Batch 125/248, train\_loss: 0.5563, step time: 1.0202  
Batch 126/248, train\_loss: 0.2139, step time: 1.0157  
Batch 127/248, train\_loss: 0.1121, step time: 1.0161  
Batch 128/248, train\_loss: 0.3994, step time: 1.0178  
Batch 129/248, train\_loss: 0.1013, step time: 1.0224  
Batch 130/248, train\_loss: 0.1016, step time: 1.0146  
Batch 131/248, train\_loss: 0.5676, step time: 1.0173  
Batch 132/248, train\_loss: 0.3542, step time: 1.0164  
Batch 133/248, train\_loss: 0.1604, step time: 1.0163  
Batch 134/248, train\_loss: 0.6967, step time: 1.0184  
Batch 135/248, train\_loss: 0.2547, step time: 1.0195  
Batch 136/248, train\_loss: 0.1042, step time: 1.0156  
Batch 137/248, train\_loss: 0.1253, step time: 1.0152  
Batch 138/248, train\_loss: 0.0616, step time: 1.0141  
Batch 139/248, train\_loss: 0.2187, step time: 1.0173  
Batch 140/248, train\_loss: 0.1556, step time: 1.0154  
Batch 141/248, train\_loss: 0.2523, step time: 1.0183  
Batch 142/248, train\_loss: 0.4285, step time: 1.0172  
Batch 143/248, train\_loss: 0.2196, step time: 1.0139  
Batch 144/248, train\_loss: 0.1227, step time: 1.0147  
Batch 145/248, train\_loss: 0.0589, step time: 1.0125  
Batch 146/248, train\_loss: 0.5881, step time: 1.0177  
Batch 147/248, train\_loss: 0.0388, step time: 1.0115  
Batch 148/248, train\_loss: 0.7485, step time: 1.0196  
Batch 149/248, train\_loss: 0.1040, step time: 1.0095  
Batch 150/248, train\_loss: 0.6641, step time: 1.0163  
Batch 151/248, train\_loss: 0.2772, step time: 1.0142  
Batch 152/248, train\_loss: 0.0393, step time: 1.0147  
Batch 153/248, train\_loss: 0.2224, step time: 1.0161  
Batch 154/248, train\_loss: 0.7140, step time: 1.0199  
Batch 155/248, train\_loss: 0.1251, step time: 1.0167  
Batch 156/248, train\_loss: 0.1864, step time: 1.0190  
Batch 157/248, train\_loss: 0.2034, step time: 1.0154  
Batch 158/248, train\_loss: 0.9880, step time: 1.0141  
Batch 159/248, train\_loss: 0.4391, step time: 1.0207  
Batch 160/248, train\_loss: 0.0841, step time: 1.0178  
Batch 161/248, train\_loss: 0.0980, step time: 1.0152

Batch 162/248, train\_loss: 0.1050, step time: 1.0166  
Batch 163/248, train\_loss: 0.1205, step time: 1.0179  
Batch 164/248, train\_loss: 0.4501, step time: 1.0179  
Batch 165/248, train\_loss: 0.5055, step time: 1.0187  
Batch 166/248, train\_loss: 0.0830, step time: 1.0152  
Batch 167/248, train\_loss: 0.2111, step time: 1.0131  
Batch 168/248, train\_loss: 0.1499, step time: 1.0168  
Batch 169/248, train\_loss: 0.0876, step time: 1.0136  
Batch 170/248, train\_loss: 0.6686, step time: 1.0175  
Batch 171/248, train\_loss: 0.0836, step time: 1.0139  
Batch 172/248, train\_loss: 0.5246, step time: 1.0191  
Batch 173/248, train\_loss: 0.0793, step time: 1.0146  
Batch 174/248, train\_loss: 0.5799, step time: 1.0173  
Batch 175/248, train\_loss: 0.1413, step time: 1.0138  
Batch 176/248, train\_loss: 0.3278, step time: 1.0176  
Batch 177/248, train\_loss: 0.2293, step time: 1.0164  
Batch 178/248, train\_loss: 0.3463, step time: 1.0188  
Batch 179/248, train\_loss: 0.0761, step time: 1.0144  
Batch 180/248, train\_loss: 0.3692, step time: 1.0150  
Batch 181/248, train\_loss: 0.1136, step time: 1.0168  
Batch 182/248, train\_loss: 0.9506, step time: 1.0160  
Batch 183/248, train\_loss: 0.2496, step time: 1.0255  
Batch 184/248, train\_loss: 0.4916, step time: 1.0168  
Batch 185/248, train\_loss: 0.1282, step time: 1.0161  
Batch 186/248, train\_loss: 0.1611, step time: 1.0175  
Batch 187/248, train\_loss: 0.2388, step time: 1.0148  
Batch 188/248, train\_loss: 0.2224, step time: 1.0125  
Batch 189/248, train\_loss: 0.5405, step time: 1.0196  
Batch 190/248, train\_loss: 0.1233, step time: 1.0249  
Batch 191/248, train\_loss: 0.5818, step time: 1.0190  
Batch 192/248, train\_loss: 0.2723, step time: 1.0144  
Batch 193/248, train\_loss: 0.2357, step time: 1.0160  
Batch 194/248, train\_loss: 0.0770, step time: 1.0139  
Batch 195/248, train\_loss: 0.5945, step time: 1.0173  
Batch 196/248, train\_loss: 0.9961, step time: 1.0125  
Batch 197/248, train\_loss: 0.1730, step time: 1.0194  
Batch 198/248, train\_loss: 0.6014, step time: 1.0171  
Batch 199/248, train\_loss: 0.1388, step time: 1.0177  
Batch 200/248, train\_loss: 0.1444, step time: 1.0163  
Batch 201/248, train\_loss: 0.1155, step time: 1.0132  
Batch 202/248, train\_loss: 0.3569, step time: 1.0165  
Batch 203/248, train\_loss: 0.5010, step time: 1.0172  
Batch 204/248, train\_loss: 0.0863, step time: 1.0114  
Batch 205/248, train\_loss: 0.2224, step time: 1.0164  
Batch 206/248, train\_loss: 0.4812, step time: 1.0183  
Batch 207/248, train\_loss: 0.1183, step time: 1.0129  
Batch 208/248, train\_loss: 0.1366, step time: 1.0139  
Batch 209/248, train\_loss: 0.1767, step time: 1.0183  
Batch 210/248, train\_loss: 0.0687, step time: 1.0148  
Batch 211/248, train\_loss: 0.0670, step time: 1.0153  
Batch 212/248, train\_loss: 0.3020, step time: 1.0141  
Batch 213/248, train\_loss: 0.1547, step time: 1.0120  
Batch 214/248, train\_loss: 0.0735, step time: 1.0140  
Batch 215/248, train\_loss: 0.1506, step time: 1.0175  
Batch 216/248, train\_loss: 0.1399, step time: 1.0162  
Batch 217/248, train\_loss: 0.3085, step time: 1.0180  
Batch 218/248, train\_loss: 0.7951, step time: 1.0191  
Batch 219/248, train\_loss: 0.0636, step time: 1.0180  
Batch 220/248, train\_loss: 0.1902, step time: 1.0143  
Batch 221/248, train\_loss: 0.2864, step time: 1.0151  
Batch 222/248, train\_loss: 0.1977, step time: 1.0135  
Batch 223/248, train\_loss: 0.0433, step time: 1.0147  
Batch 224/248, train\_loss: 0.0723, step time: 1.0133  
Batch 225/248, train\_loss: 0.1797, step time: 1.0171  
Batch 226/248, train\_loss: 0.1302, step time: 1.0170  
Batch 227/248, train\_loss: 0.0831, step time: 1.0104  
Batch 228/248, train\_loss: 0.1340, step time: 1.0147  
Batch 229/248, train\_loss: 0.1086, step time: 1.0154  
Batch 230/248, train\_loss: 0.0635, step time: 1.0140  
Batch 231/248, train\_loss: 0.3058, step time: 1.0191  
Batch 232/248, train\_loss: 0.0809, step time: 1.0156  
Batch 233/248, train\_loss: 0.7555, step time: 1.0175  
Batch 234/248, train\_loss: 0.4624, step time: 1.0173  
Batch 235/248, train\_loss: 0.3252, step time: 1.0153  
Batch 236/248, train\_loss: 0.7498, step time: 1.0229  
Batch 237/248, train\_loss: 0.1124, step time: 1.0151  
Batch 238/248, train\_loss: 0.0967, step time: 1.0152  
Batch 239/248, train\_loss: 0.0734, step time: 1.0168  
Batch 240/248, train\_loss: 0.3151, step time: 1.0190  
Batch 241/248, train\_loss: 0.4344, step time: 1.0162  
Batch 242/248, train\_loss: 0.1588, step time: 1.0185  
Batch 243/248, train\_loss: 0.5987, step time: 1.0158  
Batch 244/248, train\_loss: 0.4134, step time: 1.0180  
Batch 245/248, train\_loss: 0.0594, step time: 1.0139  
Batch 246/248, train\_loss: 0.5412, step time: 1.0154

```
Batch 247/248, train_loss: 0.0805, step time: 1.0133
Batch 248/248, train_loss: 0.9998, step time: 1.0116
```

Labels



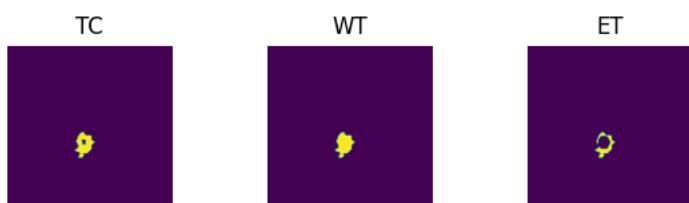
Predictions



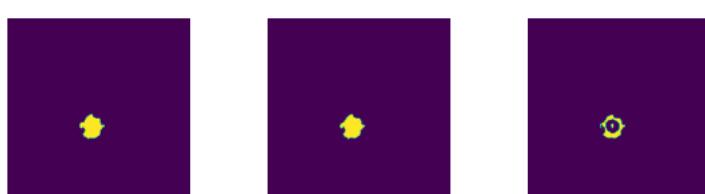
VAL

```
Batch 1/31, val_loss: 0.9346
Batch 2/31, val_loss: 0.9942
Batch 3/31, val_loss: 0.9612
Batch 4/31, val_loss: 0.9352
Batch 5/31, val_loss: 0.9920
Batch 6/31, val_loss: 0.7041
Batch 7/31, val_loss: 0.8311
Batch 8/31, val_loss: 0.9479
Batch 9/31, val_loss: 0.6899
Batch 10/31, val_loss: 0.9064
Batch 11/31, val_loss: 0.8230
Batch 12/31, val_loss: 0.9732
Batch 13/31, val_loss: 0.9900
Batch 14/31, val_loss: 0.9411
Batch 15/31, val_loss: 0.9961
Batch 16/31, val_loss: 0.9740
Batch 17/31, val_loss: 0.9709
Batch 18/31, val_loss: 0.9373
Batch 19/31, val_loss: 0.7440
Batch 20/31, val_loss: 0.8819
Batch 21/31, val_loss: 0.8643
Batch 22/31, val_loss: 0.9688
Batch 23/31, val_loss: 0.9787
Batch 24/31, val_loss: 0.7484
Batch 25/31, val_loss: 0.7987
Batch 26/31, val_loss: 0.9167
Batch 27/31, val_loss: 0.9701
Batch 28/31, val_loss: 0.7534
Batch 29/31, val_loss: 0.9829
Batch 30/31, val_loss: 0.9547
Batch 31/31, val_loss: 0.9809
```

Labels



Predictions



epoch 69

```
average train loss: 0.2813
average validation loss: 0.9047
saved as best model: False
```

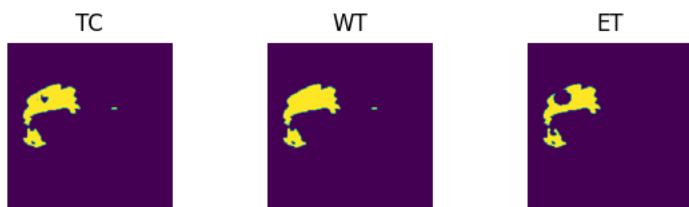
```
current mean dice: 0.4915
current TC dice: 0.5069
current WT dice: 0.5171
current ET dice: 0.4944
Best Mean Metric: 0.5135
time consuming of epoch 69 is: 1574.9069
-----
epoch 70/100
TRAIN
Batch 1/248, train_loss: 0.0759, step time: 1.0130
Batch 2/248, train_loss: 0.7738, step time: 1.0172
Batch 3/248, train_loss: 0.3948, step time: 1.0187
Batch 4/248, train_loss: 0.8791, step time: 1.0189
Batch 5/248, train_loss: 0.2268, step time: 1.0175
Batch 6/248, train_loss: 0.4615, step time: 1.0158
Batch 7/248, train_loss: 0.0708, step time: 1.0194
Batch 8/248, train_loss: 0.6929, step time: 1.0157
Batch 9/248, train_loss: 0.0445, step time: 1.0152
Batch 10/248, train_loss: 0.2344, step time: 1.0179
Batch 11/248, train_loss: 0.1829, step time: 1.0159
Batch 12/248, train_loss: 0.4431, step time: 1.0154
Batch 13/248, train_loss: 0.2952, step time: 1.0178
Batch 14/248, train_loss: 0.0582, step time: 1.0135
Batch 15/248, train_loss: 0.2999, step time: 1.0159
Batch 16/248, train_loss: 0.1370, step time: 1.0145
Batch 17/248, train_loss: 0.2640, step time: 1.0179
Batch 18/248, train_loss: 0.3323, step time: 1.0160
Batch 19/248, train_loss: 0.1144, step time: 1.0117
Batch 20/248, train_loss: 0.1004, step time: 1.0152
Batch 21/248, train_loss: 0.0637, step time: 1.0134
Batch 22/248, train_loss: 0.3979, step time: 1.0187
Batch 23/248, train_loss: 0.9971, step time: 1.0126
Batch 24/248, train_loss: 0.0779, step time: 1.0141
Batch 25/248, train_loss: 0.0606, step time: 1.0143
Batch 26/248, train_loss: 0.4109, step time: 1.0167
Batch 27/248, train_loss: 0.0664, step time: 1.0120
Batch 28/248, train_loss: 0.1512, step time: 1.0166
Batch 29/248, train_loss: 0.3633, step time: 1.0201
Batch 30/248, train_loss: 0.2360, step time: 1.0155
Batch 31/248, train_loss: 0.2752, step time: 1.0163
Batch 32/248, train_loss: 0.0714, step time: 1.0160
Batch 33/248, train_loss: 0.0597, step time: 1.0109
Batch 34/248, train_loss: 0.0474, step time: 1.0097
Batch 35/248, train_loss: 0.0435, step time: 1.0139
Batch 36/248, train_loss: 0.3740, step time: 1.0126
Batch 37/248, train_loss: 0.1605, step time: 1.0138
Batch 38/248, train_loss: 0.2797, step time: 1.0139
Batch 39/248, train_loss: 0.1740, step time: 1.0148
Batch 40/248, train_loss: 0.5219, step time: 1.0167
Batch 41/248, train_loss: 0.2436, step time: 1.0190
Batch 42/248, train_loss: 0.0616, step time: 1.0143
Batch 43/248, train_loss: 0.0560, step time: 1.0152
Batch 44/248, train_loss: 0.2303, step time: 1.0171
Batch 45/248, train_loss: 0.3663, step time: 1.0160
Batch 46/248, train_loss: 0.1460, step time: 1.0153
Batch 47/248, train_loss: 0.0582, step time: 1.0157
Batch 48/248, train_loss: 0.2140, step time: 1.0133
Batch 49/248, train_loss: 0.5648, step time: 1.0191
Batch 50/248, train_loss: 0.1258, step time: 1.0141
Batch 51/248, train_loss: 0.1459, step time: 1.0175
Batch 52/248, train_loss: 0.0920, step time: 1.0157
Batch 53/248, train_loss: 0.4251, step time: 1.0193
Batch 54/248, train_loss: 0.2218, step time: 1.0141
Batch 55/248, train_loss: 0.3859, step time: 1.0177
Batch 56/248, train_loss: 0.2031, step time: 1.0154
Batch 57/248, train_loss: 0.2426, step time: 1.0149
Batch 58/248, train_loss: 0.0829, step time: 1.0135
Batch 59/248, train_loss: 0.0810, step time: 1.0138
Batch 60/248, train_loss: 0.0508, step time: 1.0085
Batch 61/248, train_loss: 0.0949, step time: 1.0175
Batch 62/248, train_loss: 0.2117, step time: 1.0157
Batch 63/248, train_loss: 0.6830, step time: 1.0172
Batch 64/248, train_loss: 0.4384, step time: 1.0159
Batch 65/248, train_loss: 0.2814, step time: 1.0155
Batch 66/248, train_loss: 0.1283, step time: 1.0175
Batch 67/248, train_loss: 0.0685, step time: 1.0145
Batch 68/248, train_loss: 0.1404, step time: 1.0166
Batch 69/248, train_loss: 0.3165, step time: 1.0185
Batch 70/248, train_loss: 0.1253, step time: 1.0150
Batch 71/248, train_loss: 0.2096, step time: 1.0155
Batch 72/248, train_loss: 0.0613, step time: 1.0123
Batch 73/248, train_loss: 0.3687, step time: 1.0188
Batch 74/248, train_loss: 0.9967, step time: 1.0125
Batch 75/248, train_loss: 0.1388, step time: 1.0149
Batch 76/248, train_loss: 0.6050, step time: 1.0157
```

Batch 77/248, train\_loss: 0.7928, step time: 1.0190  
Batch 78/248, train\_loss: 0.1295, step time: 1.0173  
Batch 79/248, train\_loss: 0.1157, step time: 1.0136  
Batch 80/248, train\_loss: 0.1656, step time: 1.0170  
Batch 81/248, train\_loss: 0.1836, step time: 1.0205  
Batch 82/248, train\_loss: 0.0796, step time: 1.0140  
Batch 83/248, train\_loss: 0.5207, step time: 1.0189  
Batch 84/248, train\_loss: 0.2777, step time: 1.0177  
Batch 85/248, train\_loss: 0.5019, step time: 1.0178  
Batch 86/248, train\_loss: 0.3786, step time: 1.0165  
Batch 87/248, train\_loss: 0.5123, step time: 1.0167  
Batch 88/248, train\_loss: 0.3023, step time: 1.0151  
Batch 89/248, train\_loss: 0.0985, step time: 1.0159  
Batch 90/248, train\_loss: 0.3894, step time: 1.0156  
Batch 91/248, train\_loss: 0.3264, step time: 1.0190  
Batch 92/248, train\_loss: 0.2962, step time: 1.0162  
Batch 93/248, train\_loss: 0.1593, step time: 1.0130  
Batch 94/248, train\_loss: 0.3774, step time: 1.0193  
Batch 95/248, train\_loss: 0.1779, step time: 1.0158  
Batch 96/248, train\_loss: 0.2173, step time: 1.0156  
Batch 97/248, train\_loss: 0.3556, step time: 1.0192  
Batch 98/248, train\_loss: 0.1244, step time: 1.0158  
Batch 99/248, train\_loss: 0.3238, step time: 1.0187  
Batch 100/248, train\_loss: 0.2533, step time: 1.0175  
Batch 101/248, train\_loss: 0.0665, step time: 1.0148  
Batch 102/248, train\_loss: 0.1481, step time: 1.0140  
Batch 103/248, train\_loss: 0.3031, step time: 1.0184  
Batch 104/248, train\_loss: 0.2924, step time: 1.0162  
Batch 105/248, train\_loss: 0.0828, step time: 1.0148  
Batch 106/248, train\_loss: 0.1229, step time: 1.0139  
Batch 107/248, train\_loss: 0.2902, step time: 1.0149  
Batch 108/248, train\_loss: 0.4478, step time: 1.0181  
Batch 109/248, train\_loss: 0.9883, step time: 1.0170  
Batch 110/248, train\_loss: 0.2058, step time: 1.0155  
Batch 111/248, train\_loss: 0.1256, step time: 1.0156  
Batch 112/248, train\_loss: 0.1226, step time: 1.0164  
Batch 113/248, train\_loss: 0.8167, step time: 1.0149  
Batch 114/248, train\_loss: 0.1511, step time: 1.0141  
Batch 115/248, train\_loss: 0.1397, step time: 1.0139  
Batch 116/248, train\_loss: 0.0797, step time: 1.0146  
Batch 117/248, train\_loss: 0.5815, step time: 1.0178  
Batch 118/248, train\_loss: 0.8374, step time: 1.0187  
Batch 119/248, train\_loss: 0.3096, step time: 1.0159  
Batch 120/248, train\_loss: 0.2420, step time: 1.0148  
Batch 121/248, train\_loss: 0.2586, step time: 1.0176  
Batch 122/248, train\_loss: 0.4139, step time: 1.0197  
Batch 123/248, train\_loss: 0.0858, step time: 1.0173  
Batch 124/248, train\_loss: 0.2439, step time: 1.0197  
Batch 125/248, train\_loss: 0.5568, step time: 1.0184  
Batch 126/248, train\_loss: 0.2204, step time: 1.0171  
Batch 127/248, train\_loss: 0.1220, step time: 1.0164  
Batch 128/248, train\_loss: 0.3765, step time: 1.0186  
Batch 129/248, train\_loss: 0.0966, step time: 1.0162  
Batch 130/248, train\_loss: 0.0959, step time: 1.0110  
Batch 131/248, train\_loss: 0.4110, step time: 1.0162  
Batch 132/248, train\_loss: 0.3166, step time: 1.0179  
Batch 133/248, train\_loss: 0.1356, step time: 1.0173  
Batch 134/248, train\_loss: 0.7334, step time: 1.0156  
Batch 135/248, train\_loss: 0.4033, step time: 1.0203  
Batch 136/248, train\_loss: 0.1120, step time: 1.0157  
Batch 137/248, train\_loss: 0.1162, step time: 1.0147  
Batch 138/248, train\_loss: 0.0628, step time: 1.0138  
Batch 139/248, train\_loss: 0.2673, step time: 1.0171  
Batch 140/248, train\_loss: 0.2089, step time: 1.0169  
Batch 141/248, train\_loss: 0.2330, step time: 1.0174  
Batch 142/248, train\_loss: 0.6047, step time: 1.0192  
Batch 143/248, train\_loss: 0.2328, step time: 1.0139  
Batch 144/248, train\_loss: 0.1282, step time: 1.0119  
Batch 145/248, train\_loss: 0.1208, step time: 1.0152  
Batch 146/248, train\_loss: 0.7478, step time: 1.0165  
Batch 147/248, train\_loss: 0.0415, step time: 1.0108  
Batch 148/248, train\_loss: 0.7262, step time: 1.0175  
Batch 149/248, train\_loss: 0.1154, step time: 1.0169  
Batch 150/248, train\_loss: 0.6970, step time: 1.0117  
Batch 151/248, train\_loss: 0.3829, step time: 1.0136  
Batch 152/248, train\_loss: 0.0400, step time: 1.0138  
Batch 153/248, train\_loss: 0.2426, step time: 1.0191  
Batch 154/248, train\_loss: 0.7475, step time: 1.0193  
Batch 155/248, train\_loss: 0.1287, step time: 1.0136  
Batch 156/248, train\_loss: 0.1730, step time: 1.0167  
Batch 157/248, train\_loss: 0.2451, step time: 1.0150  
Batch 158/248, train\_loss: 0.9450, step time: 1.0149  
Batch 159/248, train\_loss: 0.2639, step time: 1.0195  
Batch 160/248, train\_loss: 0.0898, step time: 1.0129  
Batch 161/248, train\_loss: 0.0012, step time: 1.0141

Batch 121/248, train\_loss: 0.0911, step time: 1.0171  
Batch 122/248, train\_loss: 0.1022, step time: 1.0150  
Batch 123/248, train\_loss: 0.1212, step time: 1.0160  
Batch 124/248, train\_loss: 0.2718, step time: 1.0146  
Batch 125/248, train\_loss: 0.4765, step time: 1.0164  
Batch 126/248, train\_loss: 0.0942, step time: 1.0137  
Batch 127/248, train\_loss: 0.2361, step time: 1.0154  
Batch 128/248, train\_loss: 0.1543, step time: 1.0121  
Batch 129/248, train\_loss: 0.1153, step time: 1.0149  
Batch 130/248, train\_loss: 0.6685, step time: 1.0155  
Batch 131/248, train\_loss: 0.0886, step time: 1.0168  
Batch 132/248, train\_loss: 0.3434, step time: 1.0181  
Batch 133/248, train\_loss: 0.0822, step time: 1.0151  
Batch 134/248, train\_loss: 0.5208, step time: 1.0187  
Batch 135/248, train\_loss: 0.1519, step time: 1.0139  
Batch 136/248, train\_loss: 0.3638, step time: 1.0136  
Batch 137/248, train\_loss: 0.2287, step time: 1.0194  
Batch 138/248, train\_loss: 0.3735, step time: 1.0194  
Batch 139/248, train\_loss: 0.0891, step time: 1.0161  
Batch 140/248, train\_loss: 0.3109, step time: 1.0177  
Batch 141/248, train\_loss: 0.1118, step time: 1.0136  
Batch 142/248, train\_loss: 0.9345, step time: 1.0171  
Batch 143/248, train\_loss: 0.2009, step time: 1.0142  
Batch 144/248, train\_loss: 0.3046, step time: 1.0190  
Batch 145/248, train\_loss: 0.0929, step time: 1.0167  
Batch 146/248, train\_loss: 0.1114, step time: 1.0151  
Batch 147/248, train\_loss: 0.1834, step time: 1.0144  
Batch 148/248, train\_loss: 0.2626, step time: 1.0172  
Batch 149/248, train\_loss: 0.4738, step time: 1.0168  
Batch 150/248, train\_loss: 0.1270, step time: 1.0103  
Batch 151/248, train\_loss: 0.5677, step time: 1.0131  
Batch 152/248, train\_loss: 0.3023, step time: 1.0236  
Batch 153/248, train\_loss: 0.2813, step time: 1.0151  
Batch 154/248, train\_loss: 0.0761, step time: 1.0126  
Batch 155/248, train\_loss: 0.6053, step time: 1.0213  
Batch 156/248, train\_loss: 0.9970, step time: 1.0140  
Batch 157/248, train\_loss: 0.1775, step time: 1.0146  
Batch 158/248, train\_loss: 0.5742, step time: 1.0202  
Batch 159/248, train\_loss: 0.1430, step time: 1.0161  
Batch 160/248, train\_loss: 0.1349, step time: 1.0134  
Batch 161/248, train\_loss: 0.1218, step time: 1.0140  
Batch 162/248, train\_loss: 0.3356, step time: 1.0139  
Batch 163/248, train\_loss: 0.5240, step time: 1.0148  
Batch 164/248, train\_loss: 0.0746, step time: 1.0092  
Batch 165/248, train\_loss: 0.2216, step time: 1.0154  
Batch 166/248, train\_loss: 0.3199, step time: 1.0193  
Batch 167/248, train\_loss: 0.0979, step time: 1.0151  
Batch 168/248, train\_loss: 0.2024, step time: 1.0123  
Batch 169/248, train\_loss: 0.1640, step time: 1.0150  
Batch 170/248, train\_loss: 0.0541, step time: 1.0124  
Batch 171/248, train\_loss: 0.0556, step time: 1.0125  
Batch 172/248, train\_loss: 0.2294, step time: 1.0161  
Batch 173/248, train\_loss: 0.1414, step time: 1.0139  
Batch 174/248, train\_loss: 0.0697, step time: 1.0117  
Batch 175/248, train\_loss: 0.1981, step time: 1.0217  
Batch 176/248, train\_loss: 0.1455, step time: 1.0153  
Batch 177/248, train\_loss: 0.3715, step time: 1.0198  
Batch 178/248, train\_loss: 0.8920, step time: 1.0188  
Batch 179/248, train\_loss: 0.0705, step time: 1.0151  
Batch 180/248, train\_loss: 0.1990, step time: 1.0171  
Batch 181/248, train\_loss: 0.2259, step time: 1.0174  
Batch 182/248, train\_loss: 0.1840, step time: 1.0155  
Batch 183/248, train\_loss: 0.0435, step time: 1.0141  
Batch 184/248, train\_loss: 0.0732, step time: 1.0103  
Batch 185/248, train\_loss: 0.1492, step time: 1.0163  
Batch 186/248, train\_loss: 0.1411, step time: 1.0147  
Batch 187/248, train\_loss: 0.0921, step time: 1.0110  
Batch 188/248, train\_loss: 0.1408, step time: 1.0111  
Batch 189/248, train\_loss: 0.1061, step time: 1.0125  
Batch 190/248, train\_loss: 0.0611, step time: 1.0140  
Batch 191/248, train\_loss: 0.2989, step time: 1.0172  
Batch 192/248, train\_loss: 0.0713, step time: 1.0143  
Batch 193/248, train\_loss: 0.7664, step time: 1.0188  
Batch 194/248, train\_loss: 0.4059, step time: 1.0203  
Batch 195/248, train\_loss: 0.3146, step time: 1.0154  
Batch 196/248, train\_loss: 0.7462, step time: 1.0150  
Batch 197/248, train\_loss: 0.0943, step time: 1.0143  
Batch 198/248, train\_loss: 0.0963, step time: 1.0143  
Batch 199/248, train\_loss: 0.0626, step time: 1.0141  
Batch 200/248, train\_loss: 0.2653, step time: 1.0218  
Batch 201/248, train\_loss: 0.5039, step time: 1.0178  
Batch 202/248, train\_loss: 0.1483, step time: 1.0162  
Batch 203/248, train\_loss: 0.5273, step time: 1.0131  
Batch 204/248, train\_loss: 0.7227, step time: 1.0168  
Batch 205/248, train\_loss: 0.0617, step time: 1.0131  
Batch 206/248, train\_loss: 0.2220, step time: 1.0170

```
Batch 246/248, train_loss: 0.5524, step time: 1.0179  
Batch 247/248, train_loss: 0.0743, step time: 1.0137  
Batch 248/248, train_loss: 0.9999, step time: 1.0096
```

Labels



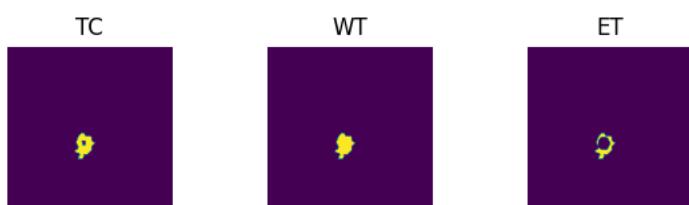
Predictions



VAL

```
Batch 1/31, val_loss: 0.9348  
Batch 2/31, val_loss: 0.9960  
Batch 3/31, val_loss: 0.9585  
Batch 4/31, val_loss: 0.9407  
Batch 5/31, val_loss: 0.9932  
Batch 6/31, val_loss: 0.6933  
Batch 7/31, val_loss: 0.8287  
Batch 8/31, val_loss: 0.9635  
Batch 9/31, val_loss: 0.6887  
Batch 10/31, val_loss: 0.9058  
Batch 11/31, val_loss: 0.8193  
Batch 12/31, val_loss: 0.9759  
Batch 13/31, val_loss: 0.9913  
Batch 14/31, val_loss: 0.9451  
Batch 15/31, val_loss: 0.9961  
Batch 16/31, val_loss: 0.9727  
Batch 17/31, val_loss: 0.9704  
Batch 18/31, val_loss: 0.9411  
Batch 19/31, val_loss: 0.7366  
Batch 20/31, val_loss: 0.8781  
Batch 21/31, val_loss: 0.8634  
Batch 22/31, val_loss: 0.9677  
Batch 23/31, val_loss: 0.9767  
Batch 24/31, val_loss: 0.7399  
Batch 25/31, val_loss: 0.7948  
Batch 26/31, val_loss: 0.9169  
Batch 27/31, val_loss: 0.9687  
Batch 28/31, val_loss: 0.7422  
Batch 29/31, val_loss: 0.9810  
Batch 30/31, val_loss: 0.9595  
Batch 31/31, val_loss: 0.9848
```

Labels



Predictions



epoch 70

```
average train loss: 0.2794  
average validation loss: 0.9040  
saved as best model: False
```

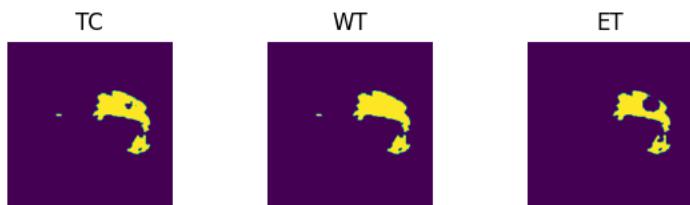
```
current mean dice: 0.4984
current TC dice: 0.5166
current WT dice: 0.5240
current ET dice: 0.4984
Best Mean Metric: 0.5135
time consuming of epoch 70 is: 1576.1683
-----
epoch 71/100
TRAIN
Batch 1/248, train_loss: 0.0705, step time: 1.0155
Batch 2/248, train_loss: 0.7375, step time: 1.0234
Batch 3/248, train_loss: 0.2434, step time: 1.0150
Batch 4/248, train_loss: 0.8929, step time: 1.0169
Batch 5/248, train_loss: 0.1984, step time: 1.0151
Batch 6/248, train_loss: 0.3987, step time: 1.0203
Batch 7/248, train_loss: 0.0728, step time: 1.0142
Batch 8/248, train_loss: 0.7064, step time: 1.0129
Batch 9/248, train_loss: 0.0379, step time: 1.0161
Batch 10/248, train_loss: 0.2342, step time: 1.0163
Batch 11/248, train_loss: 0.1812, step time: 1.0190
Batch 12/248, train_loss: 0.4967, step time: 1.0187
Batch 13/248, train_loss: 0.3592, step time: 1.0185
Batch 14/248, train_loss: 0.0552, step time: 1.0150
Batch 15/248, train_loss: 0.2831, step time: 1.0158
Batch 16/248, train_loss: 0.1293, step time: 1.0135
Batch 17/248, train_loss: 0.2190, step time: 1.0164
Batch 18/248, train_loss: 0.5594, step time: 1.0209
Batch 19/248, train_loss: 0.0800, step time: 1.0150
Batch 20/248, train_loss: 0.1820, step time: 1.0138
Batch 21/248, train_loss: 0.0529, step time: 1.0147
Batch 22/248, train_loss: 0.6837, step time: 1.0183
Batch 23/248, train_loss: 0.9969, step time: 1.0124
Batch 24/248, train_loss: 0.0751, step time: 1.0160
Batch 25/248, train_loss: 0.0670, step time: 1.0135
Batch 26/248, train_loss: 0.4634, step time: 1.0172
Batch 27/248, train_loss: 0.0708, step time: 1.0141
Batch 28/248, train_loss: 0.2349, step time: 1.0184
Batch 29/248, train_loss: 0.3407, step time: 1.0176
Batch 30/248, train_loss: 0.6333, step time: 1.0194
Batch 31/248, train_loss: 0.3205, step time: 1.0189
Batch 32/248, train_loss: 0.0649, step time: 1.0152
Batch 33/248, train_loss: 0.0777, step time: 1.0169
Batch 34/248, train_loss: 0.0469, step time: 1.0103
Batch 35/248, train_loss: 0.0544, step time: 1.0154
Batch 36/248, train_loss: 0.4525, step time: 1.0176
Batch 37/248, train_loss: 0.1750, step time: 1.0149
Batch 38/248, train_loss: 0.2827, step time: 1.0132
Batch 39/248, train_loss: 0.1597, step time: 1.0131
Batch 40/248, train_loss: 0.5357, step time: 1.0175
Batch 41/248, train_loss: 0.2085, step time: 1.0138
Batch 42/248, train_loss: 0.0704, step time: 1.0114
Batch 43/248, train_loss: 0.0439, step time: 1.0114
Batch 44/248, train_loss: 0.5534, step time: 1.0138
Batch 45/248, train_loss: 0.4298, step time: 1.0161
Batch 46/248, train_loss: 0.1709, step time: 1.0198
Batch 47/248, train_loss: 0.0699, step time: 1.0173
Batch 48/248, train_loss: 0.2346, step time: 1.0155
Batch 49/248, train_loss: 0.5269, step time: 1.0165
Batch 50/248, train_loss: 0.1418, step time: 1.0149
Batch 51/248, train_loss: 0.1805, step time: 1.0177
Batch 52/248, train_loss: 0.0981, step time: 1.0158
Batch 53/248, train_loss: 0.3957, step time: 1.0165
Batch 54/248, train_loss: 0.2170, step time: 1.0172
Batch 55/248, train_loss: 0.2723, step time: 1.0175
Batch 56/248, train_loss: 0.2432, step time: 1.0165
Batch 57/248, train_loss: 0.2388, step time: 1.0182
Batch 58/248, train_loss: 0.0706, step time: 1.0154
Batch 59/248, train_loss: 0.0892, step time: 1.0127
Batch 60/248, train_loss: 0.0541, step time: 1.0141
Batch 61/248, train_loss: 0.0892, step time: 1.0098
Batch 62/248, train_loss: 0.2360, step time: 1.0150
Batch 63/248, train_loss: 0.6196, step time: 1.0168
Batch 64/248, train_loss: 0.4573, step time: 1.0160
Batch 65/248, train_loss: 0.6422, step time: 1.0158
Batch 66/248, train_loss: 0.1409, step time: 1.0183
Batch 67/248, train_loss: 0.0660, step time: 1.0126
Batch 68/248, train_loss: 0.1060, step time: 1.0150
Batch 69/248, train_loss: 0.3423, step time: 1.0196
Batch 70/248, train_loss: 0.1163, step time: 1.0158
Batch 71/248, train_loss: 0.1980, step time: 1.0163
Batch 72/248, train_loss: 0.0617, step time: 1.0128
Batch 73/248, train_loss: 0.2722, step time: 1.0166
Batch 74/248, train_loss: 0.9957, step time: 1.0130
Batch 75/248, train_loss: 0.1196, step time: 1.0148
Batch 76/248, train_loss: 0.1927, step time: 1.0100
```

Batch 75/248, train\_loss: 0.4027, step time: 1.0122  
Batch 77/248, train\_loss: 0.9195, step time: 1.0188  
Batch 78/248, train\_loss: 0.1536, step time: 1.0162  
Batch 79/248, train\_loss: 0.1056, step time: 1.0164  
Batch 80/248, train\_loss: 0.2197, step time: 1.0183  
Batch 81/248, train\_loss: 0.3404, step time: 1.0203  
Batch 82/248, train\_loss: 0.0899, step time: 1.0177  
Batch 83/248, train\_loss: 0.5094, step time: 1.0233  
Batch 84/248, train\_loss: 0.2510, step time: 1.0204  
Batch 85/248, train\_loss: 0.3603, step time: 1.0154  
Batch 86/248, train\_loss: 0.4460, step time: 1.0149  
Batch 87/248, train\_loss: 0.7343, step time: 1.0163  
Batch 88/248, train\_loss: 0.3096, step time: 1.0137  
Batch 89/248, train\_loss: 0.0980, step time: 1.0128  
Batch 90/248, train\_loss: 0.6082, step time: 1.0167  
Batch 91/248, train\_loss: 0.3552, step time: 1.0170  
Batch 92/248, train\_loss: 0.2604, step time: 1.0127  
Batch 93/248, train\_loss: 0.1586, step time: 1.0128  
Batch 94/248, train\_loss: 0.2985, step time: 1.0183  
Batch 95/248, train\_loss: 0.1664, step time: 1.0157  
Batch 96/248, train\_loss: 0.1554, step time: 1.0161  
Batch 97/248, train\_loss: 0.3993, step time: 1.0183  
Batch 98/248, train\_loss: 0.1397, step time: 1.0158  
Batch 99/248, train\_loss: 0.3767, step time: 1.0193  
Batch 100/248, train\_loss: 0.2310, step time: 1.0158  
Batch 101/248, train\_loss: 0.0597, step time: 1.0134  
Batch 102/248, train\_loss: 0.1510, step time: 1.0175  
Batch 103/248, train\_loss: 0.7596, step time: 1.0166  
Batch 104/248, train\_loss: 0.3726, step time: 1.0178  
Batch 105/248, train\_loss: 0.0761, step time: 1.0123  
Batch 106/248, train\_loss: 0.1505, step time: 1.0196  
Batch 107/248, train\_loss: 0.3777, step time: 1.0171  
Batch 108/248, train\_loss: 0.5491, step time: 1.0192  
Batch 109/248, train\_loss: 0.7290, step time: 1.0197  
Batch 110/248, train\_loss: 0.2587, step time: 1.0172  
Batch 111/248, train\_loss: 0.1325, step time: 1.0160  
Batch 112/248, train\_loss: 0.2437, step time: 1.0155  
Batch 113/248, train\_loss: 0.8435, step time: 1.0179  
Batch 114/248, train\_loss: 0.1540, step time: 1.0155  
Batch 115/248, train\_loss: 0.1709, step time: 1.0159  
Batch 116/248, train\_loss: 0.0992, step time: 1.0130  
Batch 117/248, train\_loss: 0.6075, step time: 1.0190  
Batch 118/248, train\_loss: 0.6653, step time: 1.0184  
Batch 119/248, train\_loss: 0.3517, step time: 1.0162  
Batch 120/248, train\_loss: 0.2450, step time: 1.0129  
Batch 121/248, train\_loss: 0.2785, step time: 1.0157  
Batch 122/248, train\_loss: 0.4252, step time: 1.0164  
Batch 123/248, train\_loss: 0.0827, step time: 1.0185  
Batch 124/248, train\_loss: 0.3114, step time: 1.0157  
Batch 125/248, train\_loss: 0.5325, step time: 1.0159  
Batch 126/248, train\_loss: 0.2003, step time: 1.0159  
Batch 127/248, train\_loss: 0.1222, step time: 1.0145  
Batch 128/248, train\_loss: 0.1998, step time: 1.0216  
Batch 129/248, train\_loss: 0.1134, step time: 1.0158  
Batch 130/248, train\_loss: 0.0884, step time: 1.0154  
Batch 131/248, train\_loss: 0.5505, step time: 1.0191  
Batch 132/248, train\_loss: 0.3396, step time: 1.0171  
Batch 133/248, train\_loss: 0.1280, step time: 1.0141  
Batch 134/248, train\_loss: 0.7050, step time: 1.0155  
Batch 135/248, train\_loss: 0.3438, step time: 1.0177  
Batch 136/248, train\_loss: 0.1071, step time: 1.0156  
Batch 137/248, train\_loss: 0.1226, step time: 1.0150  
Batch 138/248, train\_loss: 0.0618, step time: 1.0116  
Batch 139/248, train\_loss: 0.1536, step time: 1.0170  
Batch 140/248, train\_loss: 0.1834, step time: 1.0161  
Batch 141/248, train\_loss: 0.2322, step time: 1.0167  
Batch 142/248, train\_loss: 0.5009, step time: 1.0190  
Batch 143/248, train\_loss: 0.3116, step time: 1.0173  
Batch 144/248, train\_loss: 0.1280, step time: 1.0152  
Batch 145/248, train\_loss: 0.0814, step time: 1.0153  
Batch 146/248, train\_loss: 0.7201, step time: 1.0186  
Batch 147/248, train\_loss: 0.0377, step time: 1.0132  
Batch 148/248, train\_loss: 0.7110, step time: 1.0160  
Batch 149/248, train\_loss: 0.1132, step time: 1.0160  
Batch 150/248, train\_loss: 0.6893, step time: 1.0141  
Batch 151/248, train\_loss: 0.3156, step time: 1.0183  
Batch 152/248, train\_loss: 0.0381, step time: 1.0143  
Batch 153/248, train\_loss: 0.2151, step time: 1.0172  
Batch 154/248, train\_loss: 0.6424, step time: 1.0199  
Batch 155/248, train\_loss: 0.1158, step time: 1.0176  
Batch 156/248, train\_loss: 0.1794, step time: 1.0188  
Batch 157/248, train\_loss: 0.2242, step time: 1.0140  
Batch 158/248, train\_loss: 0.9882, step time: 1.0112  
Batch 159/248, train\_loss: 0.3381, step time: 1.0187  
Batch 160/248, train\_loss: 0.0735, step time: 1.0147  
...

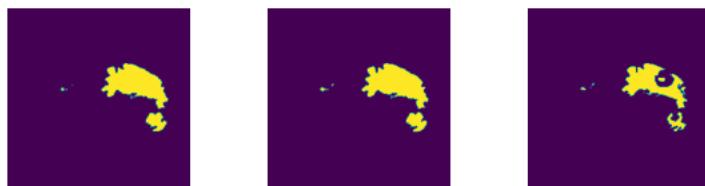
Batch 161/248, train\_loss: 0.0/15, step time: 1.0145  
Batch 162/248, train\_loss: 0.1037, step time: 1.0138  
Batch 163/248, train\_loss: 0.1232, step time: 1.0146  
Batch 164/248, train\_loss: 0.1844, step time: 1.0192  
Batch 165/248, train\_loss: 0.3277, step time: 1.0157  
Batch 166/248, train\_loss: 0.0832, step time: 1.0116  
Batch 167/248, train\_loss: 0.1687, step time: 1.0159  
Batch 168/248, train\_loss: 0.1686, step time: 1.0168  
Batch 169/248, train\_loss: 0.0798, step time: 1.0131  
Batch 170/248, train\_loss: 0.7493, step time: 1.0156  
Batch 171/248, train\_loss: 0.0886, step time: 1.0124  
Batch 172/248, train\_loss: 0.5403, step time: 1.0205  
Batch 173/248, train\_loss: 0.0802, step time: 1.0129  
Batch 174/248, train\_loss: 0.6676, step time: 1.0175  
Batch 175/248, train\_loss: 0.1462, step time: 1.0138  
Batch 176/248, train\_loss: 0.3663, step time: 1.0168  
Batch 177/248, train\_loss: 0.2617, step time: 1.0194  
Batch 178/248, train\_loss: 0.2297, step time: 1.0184  
Batch 179/248, train\_loss: 0.0773, step time: 1.0125  
Batch 180/248, train\_loss: 0.3453, step time: 1.0163  
Batch 181/248, train\_loss: 0.1282, step time: 1.0146  
Batch 182/248, train\_loss: 0.9079, step time: 1.0103  
Batch 183/248, train\_loss: 0.1489, step time: 1.0140  
Batch 184/248, train\_loss: 0.5193, step time: 1.0152  
Batch 185/248, train\_loss: 0.1062, step time: 1.0158  
Batch 186/248, train\_loss: 0.1118, step time: 1.0155  
Batch 187/248, train\_loss: 0.1543, step time: 1.0139  
Batch 188/248, train\_loss: 0.2345, step time: 1.0163  
Batch 189/248, train\_loss: 0.4971, step time: 1.0201  
Batch 190/248, train\_loss: 0.1197, step time: 1.0144  
Batch 191/248, train\_loss: 0.5894, step time: 1.0173  
Batch 192/248, train\_loss: 0.2875, step time: 1.0186  
Batch 193/248, train\_loss: 0.2724, step time: 1.0125  
Batch 194/248, train\_loss: 0.0791, step time: 1.0154  
Batch 195/248, train\_loss: 0.6804, step time: 1.0175  
Batch 196/248, train\_loss: 0.9994, step time: 1.0109  
Batch 197/248, train\_loss: 0.1768, step time: 1.0168  
Batch 198/248, train\_loss: 0.7934, step time: 1.0189  
Batch 199/248, train\_loss: 0.1213, step time: 1.0153  
Batch 200/248, train\_loss: 0.1366, step time: 1.0106  
Batch 201/248, train\_loss: 0.1112, step time: 1.0154  
Batch 202/248, train\_loss: 0.3647, step time: 1.0178  
Batch 203/248, train\_loss: 0.4980, step time: 1.0195  
Batch 204/248, train\_loss: 0.0944, step time: 1.0137  
Batch 205/248, train\_loss: 0.2301, step time: 1.0166  
Batch 206/248, train\_loss: 0.4321, step time: 1.0152  
Batch 207/248, train\_loss: 0.0997, step time: 1.0163  
Batch 208/248, train\_loss: 0.1474, step time: 1.0111  
Batch 209/248, train\_loss: 0.2070, step time: 1.0161  
Batch 210/248, train\_loss: 0.0534, step time: 1.0105  
Batch 211/248, train\_loss: 0.0626, step time: 1.0127  
Batch 212/248, train\_loss: 0.1911, step time: 1.0152  
Batch 213/248, train\_loss: 0.1284, step time: 1.0171  
Batch 214/248, train\_loss: 0.0748, step time: 1.0146  
Batch 215/248, train\_loss: 0.2179, step time: 1.0190  
Batch 216/248, train\_loss: 0.2097, step time: 1.0158  
Batch 217/248, train\_loss: 0.3729, step time: 1.0194  
Batch 218/248, train\_loss: 0.8024, step time: 1.0201  
Batch 219/248, train\_loss: 0.0723, step time: 1.0193  
Batch 220/248, train\_loss: 0.1888, step time: 1.0173  
Batch 221/248, train\_loss: 0.2727, step time: 1.0136  
Batch 222/248, train\_loss: 0.1728, step time: 1.0178  
Batch 223/248, train\_loss: 0.0471, step time: 1.0127  
Batch 224/248, train\_loss: 0.0820, step time: 1.0150  
Batch 225/248, train\_loss: 0.3746, step time: 1.0164  
Batch 226/248, train\_loss: 0.4894, step time: 1.0173  
Batch 227/248, train\_loss: 0.0964, step time: 1.0113  
Batch 228/248, train\_loss: 0.1348, step time: 1.0135  
Batch 229/248, train\_loss: 0.0954, step time: 1.0131  
Batch 230/248, train\_loss: 0.0588, step time: 1.0131  
Batch 231/248, train\_loss: 0.4349, step time: 1.0162  
Batch 232/248, train\_loss: 0.0745, step time: 1.0146  
Batch 233/248, train\_loss: 0.9332, step time: 1.0184  
Batch 234/248, train\_loss: 0.4776, step time: 1.0179  
Batch 235/248, train\_loss: 0.3845, step time: 1.0193  
Batch 236/248, train\_loss: 0.7911, step time: 1.0163  
Batch 237/248, train\_loss: 0.1055, step time: 1.0143  
Batch 238/248, train\_loss: 0.0837, step time: 1.0154  
Batch 239/248, train\_loss: 0.0666, step time: 1.0156  
Batch 240/248, train\_loss: 0.3480, step time: 1.0210  
Batch 241/248, train\_loss: 0.4125, step time: 1.0196  
Batch 242/248, train\_loss: 0.2490, step time: 1.0190  
Batch 243/248, train\_loss: 0.5257, step time: 1.0149  
Batch 244/248, train\_loss: 0.4843, step time: 1.0177  
Batch 245/248, train\_loss: 0.0708, step time: 1.0147

```
Batch 246/248, train_loss: 0.5046, step time: 1.0227  
Batch 247/248, train_loss: 0.0826, step time: 1.0141  
Batch 248/248, train_loss: 0.9999, step time: 1.0049
```

Labels



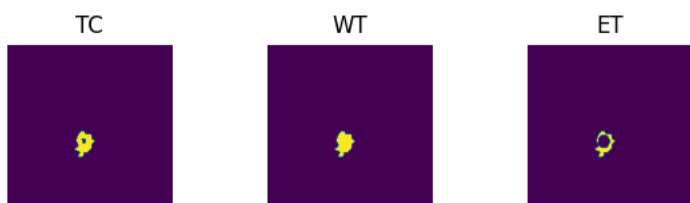
Predictions



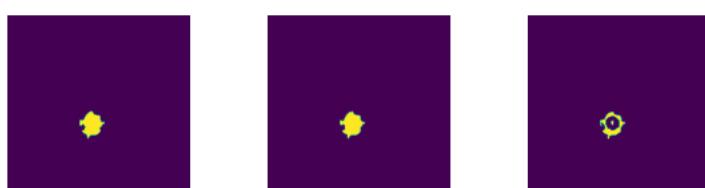
VAL

```
Batch 1/31, val_loss: 0.9383  
Batch 2/31, val_loss: 0.9924  
Batch 3/31, val_loss: 0.9608  
Batch 4/31, val_loss: 0.9370  
Batch 5/31, val_loss: 0.9912  
Batch 6/31, val_loss: 0.6972  
Batch 7/31, val_loss: 0.8256  
Batch 8/31, val_loss: 0.9452  
Batch 9/31, val_loss: 0.6850  
Batch 10/31, val_loss: 0.9154  
Batch 11/31, val_loss: 0.8216  
Batch 12/31, val_loss: 0.9726  
Batch 13/31, val_loss: 0.9845  
Batch 14/31, val_loss: 0.9410  
Batch 15/31, val_loss: 0.9932  
Batch 16/31, val_loss: 0.9733  
Batch 17/31, val_loss: 0.9683  
Batch 18/31, val_loss: 0.9344  
Batch 19/31, val_loss: 0.7359  
Batch 20/31, val_loss: 0.8959  
Batch 21/31, val_loss: 0.8615  
Batch 22/31, val_loss: 0.9705  
Batch 23/31, val_loss: 0.9775  
Batch 24/31, val_loss: 0.7391  
Batch 25/31, val_loss: 0.7962  
Batch 26/31, val_loss: 0.9163  
Batch 27/31, val_loss: 0.9644  
Batch 28/31, val_loss: 0.7435  
Batch 29/31, val_loss: 0.9850  
Batch 30/31, val_loss: 0.9549  
Batch 31/31, val_loss: 0.9776
```

Labels



Predictions



epoch 71

```
average train loss: 0.2940  
average validation loss: 0.9031
```

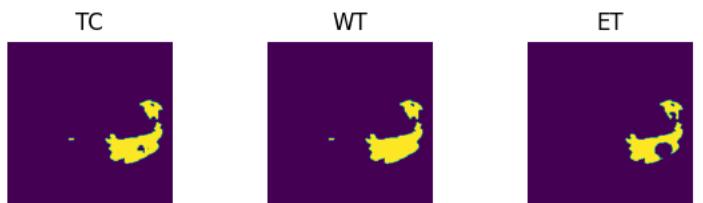
```
saved as best model: false
current mean dice: 0.4836
current TC dice: 0.4976
current WT dice: 0.5059
current ET dice: 0.4909
Best Mean Metric: 0.5135
time consuming of epoch 71 is: 1569.5180
-----
epoch 72/100
TRAIN
    Batch 1/248, train_loss: 0.0760, step time: 1.0147
    Batch 2/248, train_loss: 0.7542, step time: 1.0203
    Batch 3/248, train_loss: 0.2593, step time: 1.0163
    Batch 4/248, train_loss: 0.8956, step time: 1.0167
    Batch 5/248, train_loss: 0.1798, step time: 1.0153
    Batch 6/248, train_loss: 0.6234, step time: 1.0127
    Batch 7/248, train_loss: 0.0688, step time: 1.0131
    Batch 8/248, train_loss: 0.7251, step time: 1.0157
    Batch 9/248, train_loss: 0.0401, step time: 1.0122
    Batch 10/248, train_loss: 0.2321, step time: 1.0166
    Batch 11/248, train_loss: 0.2117, step time: 1.0168
    Batch 12/248, train_loss: 0.4185, step time: 1.0200
    Batch 13/248, train_loss: 0.3266, step time: 1.0167
    Batch 14/248, train_loss: 0.0594, step time: 1.0155
    Batch 15/248, train_loss: 0.3141, step time: 1.0163
    Batch 16/248, train_loss: 0.1311, step time: 1.0157
    Batch 17/248, train_loss: 0.2664, step time: 1.0170
    Batch 18/248, train_loss: 0.5040, step time: 1.0155
    Batch 19/248, train_loss: 0.0990, step time: 1.0150
    Batch 20/248, train_loss: 0.1522, step time: 1.0144
    Batch 21/248, train_loss: 0.0803, step time: 1.0140
    Batch 22/248, train_loss: 0.8377, step time: 1.0199
    Batch 23/248, train_loss: 0.9968, step time: 1.0130
    Batch 24/248, train_loss: 0.0752, step time: 1.0137
    Batch 25/248, train_loss: 0.0579, step time: 1.0154
    Batch 26/248, train_loss: 0.4168, step time: 1.0185
    Batch 27/248, train_loss: 0.0750, step time: 1.0159
    Batch 28/248, train_loss: 0.1451, step time: 1.0164
    Batch 29/248, train_loss: 0.3959, step time: 1.0176
    Batch 30/248, train_loss: 0.4522, step time: 1.0180
    Batch 31/248, train_loss: 0.2678, step time: 1.0168
    Batch 32/248, train_loss: 0.0707, step time: 1.0136
    Batch 33/248, train_loss: 0.0630, step time: 1.0120
    Batch 34/248, train_loss: 0.0436, step time: 1.0132
    Batch 35/248, train_loss: 0.0525, step time: 1.0143
    Batch 36/248, train_loss: 0.4265, step time: 1.0196
    Batch 37/248, train_loss: 0.1490, step time: 1.0141
    Batch 38/248, train_loss: 0.2602, step time: 1.0101
    Batch 39/248, train_loss: 0.1878, step time: 1.0158
    Batch 40/248, train_loss: 0.6005, step time: 1.0200
    Batch 41/248, train_loss: 0.2436, step time: 1.0182
    Batch 42/248, train_loss: 0.0719, step time: 1.0140
    Batch 43/248, train_loss: 0.0537, step time: 1.0140
    Batch 44/248, train_loss: 0.3384, step time: 1.0165
    Batch 45/248, train_loss: 0.5091, step time: 1.0175
    Batch 46/248, train_loss: 0.1696, step time: 1.0133
    Batch 47/248, train_loss: 0.0813, step time: 1.0155
    Batch 48/248, train_loss: 0.2342, step time: 1.0152
    Batch 49/248, train_loss: 0.5369, step time: 1.0175
    Batch 50/248, train_loss: 0.1315, step time: 1.0157
    Batch 51/248, train_loss: 0.1122, step time: 1.0134
    Batch 52/248, train_loss: 0.0999, step time: 1.0141
    Batch 53/248, train_loss: 0.3551, step time: 1.0175
    Batch 54/248, train_loss: 0.2317, step time: 1.0177
    Batch 55/248, train_loss: 0.2650, step time: 1.0164
    Batch 56/248, train_loss: 0.1920, step time: 1.0168
    Batch 57/248, train_loss: 0.2340, step time: 1.0163
    Batch 58/248, train_loss: 0.0799, step time: 1.0144
    Batch 59/248, train_loss: 0.0834, step time: 1.0129
    Batch 60/248, train_loss: 0.0536, step time: 1.0142
    Batch 61/248, train_loss: 0.0926, step time: 1.0102
    Batch 62/248, train_loss: 0.1970, step time: 1.0156
    Batch 63/248, train_loss: 0.5968, step time: 1.0167
    Batch 64/248, train_loss: 0.3807, step time: 1.0195
    Batch 65/248, train_loss: 0.3475, step time: 1.0186
    Batch 66/248, train_loss: 0.1367, step time: 1.0165
    Batch 67/248, train_loss: 0.0722, step time: 1.0159
    Batch 68/248, train_loss: 0.1840, step time: 1.0192
    Batch 69/248, train_loss: 0.3779, step time: 1.0273
    Batch 70/248, train_loss: 0.1206, step time: 1.0151
    Batch 71/248, train_loss: 0.1458, step time: 1.0132
    Batch 72/248, train_loss: 0.0648, step time: 1.0138
    Batch 73/248, train_loss: 0.2274, step time: 1.0178
    Batch 74/248, train_loss: 0.9974, step time: 1.0131
    Batch 75/248, train_loss: 0.1138, step time: 1.0143
```

Batch 76/248, train\_loss: 0.5238, step time: 1.0182  
Batch 77/248, train\_loss: 0.7514, step time: 1.0163  
Batch 78/248, train\_loss: 0.1243, step time: 1.0175  
Batch 79/248, train\_loss: 0.1225, step time: 1.0174  
Batch 80/248, train\_loss: 0.2253, step time: 1.0153  
Batch 81/248, train\_loss: 0.1853, step time: 1.0183  
Batch 82/248, train\_loss: 0.0730, step time: 1.0170  
Batch 83/248, train\_loss: 0.4983, step time: 1.0176  
Batch 84/248, train\_loss: 0.2211, step time: 1.0171  
Batch 85/248, train\_loss: 0.5796, step time: 1.0183  
Batch 86/248, train\_loss: 0.2547, step time: 1.0142  
Batch 87/248, train\_loss: 0.4949, step time: 1.0155  
Batch 88/248, train\_loss: 0.3150, step time: 1.0174  
Batch 89/248, train\_loss: 0.0894, step time: 1.0138  
Batch 90/248, train\_loss: 0.3881, step time: 1.0177  
Batch 91/248, train\_loss: 0.3566, step time: 1.0184  
Batch 92/248, train\_loss: 0.2807, step time: 1.0188  
Batch 93/248, train\_loss: 0.1610, step time: 1.0157  
Batch 94/248, train\_loss: 0.3182, step time: 1.0181  
Batch 95/248, train\_loss: 0.1809, step time: 1.0159  
Batch 96/248, train\_loss: 0.2665, step time: 1.0167  
Batch 97/248, train\_loss: 0.4374, step time: 1.0191  
Batch 98/248, train\_loss: 0.1181, step time: 1.0152  
Batch 99/248, train\_loss: 0.2875, step time: 1.0168  
Batch 100/248, train\_loss: 0.3483, step time: 1.0170  
Batch 101/248, train\_loss: 0.0536, step time: 1.0139  
Batch 102/248, train\_loss: 0.1185, step time: 1.0148  
Batch 103/248, train\_loss: 0.3111, step time: 1.0156  
Batch 104/248, train\_loss: 0.3248, step time: 1.0167  
Batch 105/248, train\_loss: 0.0767, step time: 1.0132  
Batch 106/248, train\_loss: 0.2076, step time: 1.0173  
Batch 107/248, train\_loss: 0.2345, step time: 1.0184  
Batch 108/248, train\_loss: 0.5055, step time: 1.0180  
Batch 109/248, train\_loss: 0.8204, step time: 1.0180  
Batch 110/248, train\_loss: 0.1925, step time: 1.0163  
Batch 111/248, train\_loss: 0.0987, step time: 1.0156  
Batch 112/248, train\_loss: 0.1267, step time: 1.0183  
Batch 113/248, train\_loss: 0.9848, step time: 1.0185  
Batch 114/248, train\_loss: 0.1571, step time: 1.0153  
Batch 115/248, train\_loss: 0.1357, step time: 1.0159  
Batch 116/248, train\_loss: 0.0874, step time: 1.0150  
Batch 117/248, train\_loss: 0.7919, step time: 1.0193  
Batch 118/248, train\_loss: 0.6064, step time: 1.0144  
Batch 119/248, train\_loss: 0.5205, step time: 1.0157  
Batch 120/248, train\_loss: 0.2719, step time: 1.0127  
Batch 121/248, train\_loss: 0.2822, step time: 1.0140  
Batch 122/248, train\_loss: 0.4805, step time: 1.0184  
Batch 123/248, train\_loss: 0.0655, step time: 1.0152  
Batch 124/248, train\_loss: 0.2540, step time: 1.0172  
Batch 125/248, train\_loss: 0.7374, step time: 1.0200  
Batch 126/248, train\_loss: 0.2567, step time: 1.0181  
Batch 127/248, train\_loss: 0.1022, step time: 1.0181  
Batch 128/248, train\_loss: 0.3627, step time: 1.0216  
Batch 129/248, train\_loss: 0.1144, step time: 1.0144  
Batch 130/248, train\_loss: 0.0836, step time: 1.0143  
Batch 131/248, train\_loss: 0.4867, step time: 1.0167  
Batch 132/248, train\_loss: 0.3268, step time: 1.0157  
Batch 133/248, train\_loss: 0.1347, step time: 1.0172  
Batch 134/248, train\_loss: 0.7160, step time: 1.0184  
Batch 135/248, train\_loss: 0.2376, step time: 1.0201  
Batch 136/248, train\_loss: 0.0972, step time: 1.0143  
Batch 137/248, train\_loss: 0.0996, step time: 1.0125  
Batch 138/248, train\_loss: 0.0674, step time: 1.0128  
Batch 139/248, train\_loss: 0.2495, step time: 1.0157  
Batch 140/248, train\_loss: 0.2011, step time: 1.0162  
Batch 141/248, train\_loss: 0.2553, step time: 1.0154  
Batch 142/248, train\_loss: 0.5338, step time: 1.0176  
Batch 143/248, train\_loss: 0.2168, step time: 1.0158  
Batch 144/248, train\_loss: 0.1276, step time: 1.0162  
Batch 145/248, train\_loss: 0.1127, step time: 1.0151  
Batch 146/248, train\_loss: 0.8060, step time: 1.0157  
Batch 147/248, train\_loss: 0.0452, step time: 1.0123  
Batch 148/248, train\_loss: 0.5883, step time: 1.0154  
Batch 149/248, train\_loss: 0.1082, step time: 1.0159  
Batch 150/248, train\_loss: 0.7031, step time: 1.0168  
Batch 151/248, train\_loss: 0.4569, step time: 1.0160  
Batch 152/248, train\_loss: 0.0407, step time: 1.0135  
Batch 153/248, train\_loss: 0.2632, step time: 1.0189  
Batch 154/248, train\_loss: 0.7380, step time: 1.0193  
Batch 155/248, train\_loss: 0.1472, step time: 1.0185  
Batch 156/248, train\_loss: 0.4423, step time: 1.0212  
Batch 157/248, train\_loss: 0.2131, step time: 1.0178  
Batch 158/248, train\_loss: 0.9906, step time: 1.0123  
Batch 159/248, train\_loss: 0.4030, step time: 1.0230  
Batch 160/248, train\_loss: 0.1078, step time: 1.0150

Batch 161/248, train\_loss: 0.1069, step time: 1.0162  
Batch 162/248, train\_loss: 0.0690, step time: 1.0148  
Batch 163/248, train\_loss: 0.1171, step time: 1.0172  
Batch 164/248, train\_loss: 0.2390, step time: 1.0158  
Batch 165/248, train\_loss: 0.9045, step time: 1.0157  
Batch 166/248, train\_loss: 0.0827, step time: 1.0166  
Batch 167/248, train\_loss: 0.1783, step time: 1.0210  
Batch 168/248, train\_loss: 0.1446, step time: 1.0186  
Batch 169/248, train\_loss: 0.0897, step time: 1.0156  
Batch 170/248, train\_loss: 0.7042, step time: 1.0181  
Batch 171/248, train\_loss: 0.0845, step time: 1.0156  
Batch 172/248, train\_loss: 0.3470, step time: 1.0177  
Batch 173/248, train\_loss: 0.1172, step time: 1.0153  
Batch 174/248, train\_loss: 0.8961, step time: 1.0179  
Batch 175/248, train\_loss: 0.1651, step time: 1.0181  
Batch 176/248, train\_loss: 0.3124, step time: 1.0154  
Batch 177/248, train\_loss: 0.2197, step time: 1.0174  
Batch 178/248, train\_loss: 0.2875, step time: 1.0177  
Batch 179/248, train\_loss: 0.1024, step time: 1.0163  
Batch 180/248, train\_loss: 0.3249, step time: 1.0157  
Batch 181/248, train\_loss: 0.1311, step time: 1.0187  
Batch 182/248, train\_loss: 0.9211, step time: 1.0184  
Batch 183/248, train\_loss: 0.1735, step time: 1.0175  
Batch 184/248, train\_loss: 0.3256, step time: 1.0163  
Batch 185/248, train\_loss: 0.0884, step time: 1.0173  
Batch 186/248, train\_loss: 0.0892, step time: 1.0156  
Batch 187/248, train\_loss: 0.2052, step time: 1.0164  
Batch 188/248, train\_loss: 0.2542, step time: 1.0190  
Batch 189/248, train\_loss: 0.4451, step time: 1.0207  
Batch 190/248, train\_loss: 0.1400, step time: 1.0164  
Batch 191/248, train\_loss: 0.5750, step time: 1.0189  
Batch 192/248, train\_loss: 0.2664, step time: 1.0156  
Batch 193/248, train\_loss: 0.2658, step time: 1.0179  
Batch 194/248, train\_loss: 0.0787, step time: 1.0136  
Batch 195/248, train\_loss: 0.6089, step time: 1.0202  
Batch 196/248, train\_loss: 0.9968, step time: 1.0153  
Batch 197/248, train\_loss: 0.1746, step time: 1.0166  
Batch 198/248, train\_loss: 0.8067, step time: 1.0173  
Batch 199/248, train\_loss: 0.1247, step time: 1.0153  
Batch 200/248, train\_loss: 0.1296, step time: 1.0136  
Batch 201/248, train\_loss: 0.1269, step time: 1.0134  
Batch 202/248, train\_loss: 0.3234, step time: 1.0168  
Batch 203/248, train\_loss: 0.3916, step time: 1.0176  
Batch 204/248, train\_loss: 0.0814, step time: 1.0147  
Batch 205/248, train\_loss: 0.2135, step time: 1.0132  
Batch 206/248, train\_loss: 0.4344, step time: 1.0198  
Batch 207/248, train\_loss: 0.0835, step time: 1.0161  
Batch 208/248, train\_loss: 0.1679, step time: 1.0164  
Batch 209/248, train\_loss: 0.1976, step time: 1.0180  
Batch 210/248, train\_loss: 0.0554, step time: 1.0137  
Batch 211/248, train\_loss: 0.0574, step time: 1.0130  
Batch 212/248, train\_loss: 0.3221, step time: 1.0176  
Batch 213/248, train\_loss: 0.1701, step time: 1.0173  
Batch 214/248, train\_loss: 0.0657, step time: 1.0105  
Batch 215/248, train\_loss: 0.1664, step time: 1.0168  
Batch 216/248, train\_loss: 0.1643, step time: 1.0171  
Batch 217/248, train\_loss: 0.2515, step time: 1.0184  
Batch 218/248, train\_loss: 0.7816, step time: 1.0236  
Batch 219/248, train\_loss: 0.0638, step time: 1.0203  
Batch 220/248, train\_loss: 0.2073, step time: 1.0156  
Batch 221/248, train\_loss: 0.3286, step time: 1.0210  
Batch 222/248, train\_loss: 0.2436, step time: 1.0201  
Batch 223/248, train\_loss: 0.0436, step time: 1.0162  
Batch 224/248, train\_loss: 0.0900, step time: 1.0180  
Batch 225/248, train\_loss: 0.1614, step time: 1.0158  
Batch 226/248, train\_loss: 0.1608, step time: 1.0179  
Batch 227/248, train\_loss: 0.0924, step time: 1.0139  
Batch 228/248, train\_loss: 0.1289, step time: 1.0155  
Batch 229/248, train\_loss: 0.0936, step time: 1.0152  
Batch 230/248, train\_loss: 0.0747, step time: 1.0169  
Batch 231/248, train\_loss: 0.3229, step time: 1.0185  
Batch 232/248, train\_loss: 0.0761, step time: 1.0162  
Batch 233/248, train\_loss: 0.8174, step time: 1.0193  
Batch 234/248, train\_loss: 0.4400, step time: 1.0185  
Batch 235/248, train\_loss: 0.3547, step time: 1.0209  
Batch 236/248, train\_loss: 0.7178, step time: 1.0174  
Batch 237/248, train\_loss: 0.0939, step time: 1.0169  
Batch 238/248, train\_loss: 0.1071, step time: 1.0168  
Batch 239/248, train\_loss: 0.0667, step time: 1.0145  
Batch 240/248, train\_loss: 0.3118, step time: 1.0178  
Batch 241/248, train\_loss: 0.3874, step time: 1.0198  
Batch 242/248, train\_loss: 0.1337, step time: 1.0208  
Batch 243/248, train\_loss: 0.5365, step time: 1.0185  
Batch 244/248, train\_loss: 0.3708, step time: 1.0176  
Batch 245/248, train\_loss: 0.0632, step time: 1.0124

```
Batch 245/248, train_loss: 0.6522, step time: 1.0163  
Batch 246/248, train_loss: 0.6522, step time: 1.0163  
Batch 247/248, train_loss: 0.0813, step time: 1.0104  
Batch 248/248, train_loss: 0.9997, step time: 1.0081
```

Labels



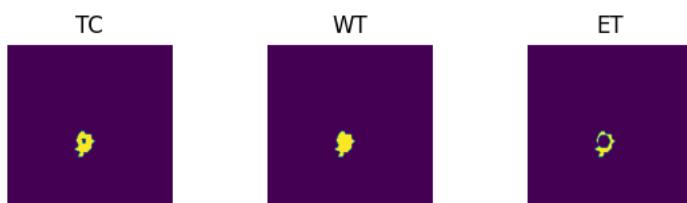
Predictions



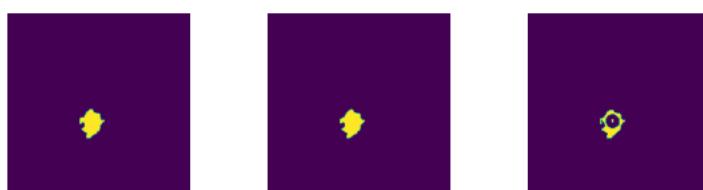
VAL

```
Batch 1/31, val_loss: 0.9300  
Batch 2/31, val_loss: 0.9935  
Batch 3/31, val_loss: 0.9589  
Batch 4/31, val_loss: 0.9387  
Batch 5/31, val_loss: 0.9940  
Batch 6/31, val_loss: 0.6961  
Batch 7/31, val_loss: 0.8353  
Batch 8/31, val_loss: 0.9665  
Batch 9/31, val_loss: 0.6898  
Batch 10/31, val_loss: 0.9172  
Batch 11/31, val_loss: 0.8218  
Batch 12/31, val_loss: 0.9732  
Batch 13/31, val_loss: 0.9906  
Batch 14/31, val_loss: 0.9430  
Batch 15/31, val_loss: 0.9973  
Batch 16/31, val_loss: 0.9728  
Batch 17/31, val_loss: 0.9701  
Batch 18/31, val_loss: 0.9408  
Batch 19/31, val_loss: 0.7423  
Batch 20/31, val_loss: 0.8902  
Batch 21/31, val_loss: 0.8610  
Batch 22/31, val_loss: 0.9724  
Batch 23/31, val_loss: 0.9804  
Batch 24/31, val_loss: 0.7510  
Batch 25/31, val_loss: 0.7971  
Batch 26/31, val_loss: 0.9164  
Batch 27/31, val_loss: 0.9744  
Batch 28/31, val_loss: 0.7583  
Batch 29/31, val_loss: 0.9811  
Batch 30/31, val_loss: 0.9616  
Batch 31/31, val_loss: 0.9839
```

Labels



Predictions



epoch 72

```
average train loss: 0.2886  
average validation loss: 0.9064
```

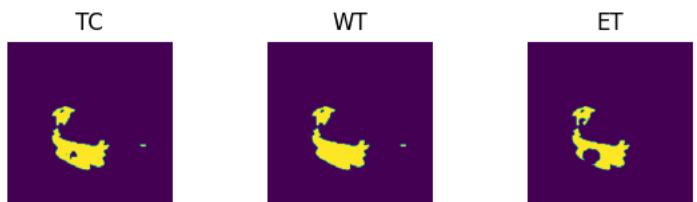
```
saved as best model: False
current mean dice: 0.4984
current TC dice: 0.5186
current WT dice: 0.5251
current ET dice: 0.4933
Best Mean Metric: 0.5135
time consuming of epoch 72 is: 1566.2080
-----
epoch 73/100
TRAIN
    Batch 1/248, train_loss: 0.0838, step time: 1.0169
    Batch 2/248, train_loss: 0.6468, step time: 1.0193
    Batch 3/248, train_loss: 0.2753, step time: 1.0197
    Batch 4/248, train_loss: 0.9050, step time: 1.0189
    Batch 5/248, train_loss: 0.1904, step time: 1.0166
    Batch 6/248, train_loss: 0.4711, step time: 1.0199
    Batch 7/248, train_loss: 0.0594, step time: 1.0141
    Batch 8/248, train_loss: 0.7152, step time: 1.0136
    Batch 9/248, train_loss: 0.0407, step time: 1.0165
    Batch 10/248, train_loss: 0.2297, step time: 1.0171
    Batch 11/248, train_loss: 0.1756, step time: 1.0166
    Batch 12/248, train_loss: 0.4185, step time: 1.0165
    Batch 13/248, train_loss: 0.2894, step time: 1.0173
    Batch 14/248, train_loss: 0.0540, step time: 1.0140
    Batch 15/248, train_loss: 0.3019, step time: 1.0142
    Batch 16/248, train_loss: 0.1337, step time: 1.0146
    Batch 17/248, train_loss: 0.2721, step time: 1.0183
    Batch 18/248, train_loss: 0.3947, step time: 1.0164
    Batch 19/248, train_loss: 0.0956, step time: 1.0139
    Batch 20/248, train_loss: 0.1200, step time: 1.0177
    Batch 21/248, train_loss: 0.0629, step time: 1.0143
    Batch 22/248, train_loss: 0.4982, step time: 1.0197
    Batch 23/248, train_loss: 0.9982, step time: 1.0101
    Batch 24/248, train_loss: 0.0784, step time: 1.0141
    Batch 25/248, train_loss: 0.0575, step time: 1.0151
    Batch 26/248, train_loss: 0.3658, step time: 1.0196
    Batch 27/248, train_loss: 0.0733, step time: 1.0157
    Batch 28/248, train_loss: 0.1502, step time: 1.0188
    Batch 29/248, train_loss: 0.3823, step time: 1.0192
    Batch 30/248, train_loss: 0.3736, step time: 1.0211
    Batch 31/248, train_loss: 0.2604, step time: 1.0164
    Batch 32/248, train_loss: 0.0728, step time: 1.0154
    Batch 33/248, train_loss: 0.0653, step time: 1.0159
    Batch 34/248, train_loss: 0.0442, step time: 1.0111
    Batch 35/248, train_loss: 0.0467, step time: 1.0135
    Batch 36/248, train_loss: 0.4111, step time: 1.0156
    Batch 37/248, train_loss: 0.1407, step time: 1.0186
    Batch 38/248, train_loss: 0.2554, step time: 1.0132
    Batch 39/248, train_loss: 0.1645, step time: 1.0151
    Batch 40/248, train_loss: 0.5862, step time: 1.0168
    Batch 41/248, train_loss: 0.2555, step time: 1.0166
    Batch 42/248, train_loss: 0.0670, step time: 1.0130
    Batch 43/248, train_loss: 0.0537, step time: 1.0167
    Batch 44/248, train_loss: 0.1808, step time: 1.0173
    Batch 45/248, train_loss: 0.3709, step time: 1.0176
    Batch 46/248, train_loss: 0.1593, step time: 1.0180
    Batch 47/248, train_loss: 0.0672, step time: 1.0136
    Batch 48/248, train_loss: 0.2593, step time: 1.0181
    Batch 49/248, train_loss: 0.5093, step time: 1.0174
    Batch 50/248, train_loss: 0.1309, step time: 1.0174
    Batch 51/248, train_loss: 0.1295, step time: 1.0155
    Batch 52/248, train_loss: 0.0922, step time: 1.0161
    Batch 53/248, train_loss: 0.3746, step time: 1.0187
    Batch 54/248, train_loss: 0.2227, step time: 1.0169
    Batch 55/248, train_loss: 0.3157, step time: 1.0198
    Batch 56/248, train_loss: 0.2657, step time: 1.0171
    Batch 57/248, train_loss: 0.2594, step time: 1.0142
    Batch 58/248, train_loss: 0.0809, step time: 1.0144
    Batch 59/248, train_loss: 0.0857, step time: 1.0137
    Batch 60/248, train_loss: 0.0494, step time: 1.0129
    Batch 61/248, train_loss: 0.0916, step time: 1.0156
    Batch 62/248, train_loss: 0.1966, step time: 1.0177
    Batch 63/248, train_loss: 0.5555, step time: 1.0186
    Batch 64/248, train_loss: 0.3583, step time: 1.0175
    Batch 65/248, train_loss: 0.2604, step time: 1.0166
    Batch 66/248, train_loss: 0.1314, step time: 1.0175
    Batch 67/248, train_loss: 0.0673, step time: 1.0157
    Batch 68/248, train_loss: 0.1448, step time: 1.0193
    Batch 69/248, train_loss: 0.3275, step time: 1.0190
    Batch 70/248, train_loss: 0.1412, step time: 1.0181
    Batch 71/248, train_loss: 0.1183, step time: 1.0173
    Batch 72/248, train_loss: 0.0566, step time: 1.0153
    Batch 73/248, train_loss: 0.3581, step time: 1.0187
    Batch 74/248, train_loss: 0.9961, step time: 1.0148
    Batch 75/248, train loss: 0.1261, step time: 1.0155
```

Batch 76/248, train\_loss: 0.5657, step time: 1.0193  
Batch 77/248, train\_loss: 0.7420, step time: 1.0183  
Batch 78/248, train\_loss: 0.1189, step time: 1.0163  
Batch 79/248, train\_loss: 0.1378, step time: 1.0175  
Batch 80/248, train\_loss: 0.1866, step time: 1.0183  
Batch 81/248, train\_loss: 0.2169, step time: 1.0179  
Batch 82/248, train\_loss: 0.0856, step time: 1.0266  
Batch 83/248, train\_loss: 0.5260, step time: 1.0171  
Batch 84/248, train\_loss: 0.2451, step time: 1.0156  
Batch 85/248, train\_loss: 0.3337, step time: 1.0166  
Batch 86/248, train\_loss: 0.4861, step time: 1.0172  
Batch 87/248, train\_loss: 0.4742, step time: 1.0151  
Batch 88/248, train\_loss: 0.3033, step time: 1.0164  
Batch 89/248, train\_loss: 0.1038, step time: 1.0151  
Batch 90/248, train\_loss: 0.4012, step time: 1.0177  
Batch 91/248, train\_loss: 0.3095, step time: 1.0187  
Batch 92/248, train\_loss: 0.3060, step time: 1.0205  
Batch 93/248, train\_loss: 0.1552, step time: 1.0143  
Batch 94/248, train\_loss: 0.2356, step time: 1.0192  
Batch 95/248, train\_loss: 0.1659, step time: 1.0155  
Batch 96/248, train\_loss: 0.1565, step time: 1.0175  
Batch 97/248, train\_loss: 0.3836, step time: 1.0203  
Batch 98/248, train\_loss: 0.0950, step time: 1.0155  
Batch 99/248, train\_loss: 0.2991, step time: 1.0176  
Batch 100/248, train\_loss: 0.3073, step time: 1.0184  
Batch 101/248, train\_loss: 0.0566, step time: 1.0121  
Batch 102/248, train\_loss: 0.0964, step time: 1.0141  
Batch 103/248, train\_loss: 0.8046, step time: 1.0149  
Batch 104/248, train\_loss: 0.3618, step time: 1.0167  
Batch 105/248, train\_loss: 0.0801, step time: 1.0149  
Batch 106/248, train\_loss: 0.1166, step time: 1.0166  
Batch 107/248, train\_loss: 0.6941, step time: 1.0184  
Batch 108/248, train\_loss: 0.5900, step time: 1.0186  
Batch 109/248, train\_loss: 0.8693, step time: 1.0188  
Batch 110/248, train\_loss: 0.1789, step time: 1.0151  
Batch 111/248, train\_loss: 0.0851, step time: 1.0150  
Batch 112/248, train\_loss: 0.1528, step time: 1.0184  
Batch 113/248, train\_loss: 0.8509, step time: 1.0208  
Batch 114/248, train\_loss: 0.1730, step time: 1.0172  
Batch 115/248, train\_loss: 0.1947, step time: 1.0179  
Batch 116/248, train\_loss: 0.0794, step time: 1.0124  
Batch 117/248, train\_loss: 0.4993, step time: 1.0199  
Batch 118/248, train\_loss: 0.5698, step time: 1.0205  
Batch 119/248, train\_loss: 0.3315, step time: 1.0146  
Batch 120/248, train\_loss: 0.2172, step time: 1.0148  
Batch 121/248, train\_loss: 0.3265, step time: 1.0140  
Batch 122/248, train\_loss: 0.3424, step time: 1.0168  
Batch 123/248, train\_loss: 0.1047, step time: 1.0201  
Batch 124/248, train\_loss: 0.2310, step time: 1.0169  
Batch 125/248, train\_loss: 0.5939, step time: 1.0184  
Batch 126/248, train\_loss: 0.1798, step time: 1.0181  
Batch 127/248, train\_loss: 0.1117, step time: 1.0171  
Batch 128/248, train\_loss: 0.2776, step time: 1.0190  
Batch 129/248, train\_loss: 0.1371, step time: 1.0173  
Batch 130/248, train\_loss: 0.1007, step time: 1.0172  
Batch 131/248, train\_loss: 0.4104, step time: 1.0177  
Batch 132/248, train\_loss: 0.2476, step time: 1.0171  
Batch 133/248, train\_loss: 0.1441, step time: 1.0122  
Batch 134/248, train\_loss: 0.6214, step time: 1.0191  
Batch 135/248, train\_loss: 0.2179, step time: 1.0173  
Batch 136/248, train\_loss: 0.1045, step time: 1.0127  
Batch 137/248, train\_loss: 0.1151, step time: 1.0150  
Batch 138/248, train\_loss: 0.0619, step time: 1.0105  
Batch 139/248, train\_loss: 0.2773, step time: 1.0223  
Batch 140/248, train\_loss: 0.3118, step time: 1.0148  
Batch 141/248, train\_loss: 0.2610, step time: 1.0165  
Batch 142/248, train\_loss: 0.6139, step time: 1.0176  
Batch 143/248, train\_loss: 0.2356, step time: 1.0173  
Batch 144/248, train\_loss: 0.1240, step time: 1.0136  
Batch 145/248, train\_loss: 0.0579, step time: 1.0150  
Batch 146/248, train\_loss: 0.5430, step time: 1.0165  
Batch 147/248, train\_loss: 0.0386, step time: 1.0130  
Batch 148/248, train\_loss: 0.7942, step time: 1.0183  
Batch 149/248, train\_loss: 0.1163, step time: 1.0128  
Batch 150/248, train\_loss: 0.6542, step time: 1.0168  
Batch 151/248, train\_loss: 0.3670, step time: 1.0159  
Batch 152/248, train\_loss: 0.0396, step time: 1.0147  
Batch 153/248, train\_loss: 0.2266, step time: 1.0165  
Batch 154/248, train\_loss: 0.6789, step time: 1.0186  
Batch 155/248, train\_loss: 0.1905, step time: 1.0194  
Batch 156/248, train\_loss: 0.1564, step time: 1.0183  
Batch 157/248, train\_loss: 0.2390, step time: 1.0169  
Batch 158/248, train\_loss: 0.9802, step time: 1.0156  
Batch 159/248, train\_loss: 0.2965, step time: 1.0193  
Batch 160/248, train\_loss: 0.8810, step time: 1.0166

Batch 100/248, train\_loss: 0.0049, step time: 1.0100  
Batch 101/248, train\_loss: 0.0949, step time: 1.0155  
Batch 102/248, train\_loss: 0.1032, step time: 1.0172  
Batch 103/248, train\_loss: 0.1192, step time: 1.0176  
Batch 104/248, train\_loss: 0.2530, step time: 1.0233  
Batch 105/248, train\_loss: 0.5039, step time: 1.0141  
Batch 106/248, train\_loss: 0.0782, step time: 1.0179  
Batch 107/248, train\_loss: 0.2467, step time: 1.0165  
Batch 108/248, train\_loss: 0.1541, step time: 1.0151  
Batch 109/248, train\_loss: 0.0927, step time: 1.0181  
Batch 110/248, train\_loss: 0.6566, step time: 1.0162  
Batch 111/248, train\_loss: 0.0842, step time: 1.0130  
Batch 112/248, train\_loss: 0.3954, step time: 1.0199  
Batch 113/248, train\_loss: 0.0733, step time: 1.0154  
Batch 114/248, train\_loss: 0.5811, step time: 1.0187  
Batch 115/248, train\_loss: 0.1562, step time: 1.0175  
Batch 116/248, train\_loss: 0.3197, step time: 1.0143  
Batch 117/248, train\_loss: 0.2452, step time: 1.0162  
Batch 118/248, train\_loss: 0.2688, step time: 1.0177  
Batch 119/248, train\_loss: 0.0865, step time: 1.0194  
Batch 120/248, train\_loss: 0.2981, step time: 1.0166  
Batch 121/248, train\_loss: 0.1130, step time: 1.0145  
Batch 122/248, train\_loss: 0.9434, step time: 1.0162  
Batch 123/248, train\_loss: 0.1290, step time: 1.0181  
Batch 124/248, train\_loss: 0.3521, step time: 1.0150  
Batch 125/248, train\_loss: 0.0938, step time: 1.0155  
Batch 126/248, train\_loss: 0.1022, step time: 1.0155  
Batch 127/248, train\_loss: 0.1669, step time: 1.0173  
Batch 128/248, train\_loss: 0.2594, step time: 1.0175  
Batch 129/248, train\_loss: 0.5470, step time: 1.0186  
Batch 130/248, train\_loss: 0.1290, step time: 1.0185  
Batch 131/248, train\_loss: 0.5643, step time: 1.0165  
Batch 132/248, train\_loss: 0.2460, step time: 1.0166  
Batch 133/248, train\_loss: 0.2710, step time: 1.0176  
Batch 134/248, train\_loss: 0.0718, step time: 1.0133  
Batch 135/248, train\_loss: 0.5657, step time: 1.0171  
Batch 136/248, train\_loss: 0.9996, step time: 1.0097  
Batch 137/248, train\_loss: 0.1857, step time: 1.0174  
Batch 138/248, train\_loss: 0.4919, step time: 1.0197  
Batch 139/248, train\_loss: 0.1738, step time: 1.0175  
Batch 140/248, train\_loss: 0.1235, step time: 1.0152  
Batch 141/248, train\_loss: 0.1232, step time: 1.0175  
Batch 142/248, train\_loss: 0.3267, step time: 1.0215  
Batch 143/248, train\_loss: 0.4606, step time: 1.0168  
Batch 144/248, train\_loss: 0.0843, step time: 1.0157  
Batch 145/248, train\_loss: 0.2374, step time: 1.0145  
Batch 146/248, train\_loss: 0.2663, step time: 1.0183  
Batch 147/248, train\_loss: 0.0781, step time: 1.0162  
Batch 148/248, train\_loss: 0.1390, step time: 1.0267  
Batch 149/248, train\_loss: 0.1551, step time: 1.0172  
Batch 150/248, train\_loss: 0.0596, step time: 1.0134  
Batch 151/248, train\_loss: 0.0550, step time: 1.0092  
Batch 152/248, train\_loss: 0.1970, step time: 1.0147  
Batch 153/248, train\_loss: 0.1426, step time: 1.0176  
Batch 154/248, train\_loss: 0.0729, step time: 1.0124  
Batch 155/248, train\_loss: 0.1753, step time: 1.0178  
Batch 156/248, train\_loss: 0.1440, step time: 1.0161  
Batch 157/248, train\_loss: 0.2457, step time: 1.0164  
Batch 158/248, train\_loss: 0.8708, step time: 1.0194  
Batch 159/248, train\_loss: 0.0712, step time: 1.0163  
Batch 160/248, train\_loss: 0.2065, step time: 1.0153  
Batch 161/248, train\_loss: 0.2629, step time: 1.0158  
Batch 162/248, train\_loss: 0.2003, step time: 1.0152  
Batch 163/248, train\_loss: 0.0398, step time: 1.0150  
Batch 164/248, train\_loss: 0.0780, step time: 1.0151  
Batch 165/248, train\_loss: 0.1588, step time: 1.0171  
Batch 166/248, train\_loss: 0.1034, step time: 1.0125  
Batch 167/248, train\_loss: 0.0793, step time: 1.0134  
Batch 168/248, train\_loss: 0.1314, step time: 1.0155  
Batch 169/248, train\_loss: 0.0935, step time: 1.0121  
Batch 170/248, train\_loss: 0.0663, step time: 1.0156  
Batch 171/248, train\_loss: 0.2806, step time: 1.0170  
Batch 172/248, train\_loss: 0.0774, step time: 1.0149  
Batch 173/248, train\_loss: 0.7563, step time: 1.0190  
Batch 174/248, train\_loss: 0.4119, step time: 1.0138  
Batch 175/248, train\_loss: 0.4431, step time: 1.0183  
Batch 176/248, train\_loss: 0.7252, step time: 1.0195  
Batch 177/248, train\_loss: 0.1022, step time: 1.0170  
Batch 178/248, train\_loss: 0.0977, step time: 1.0160  
Batch 179/248, train\_loss: 0.0585, step time: 1.0161  
Batch 180/248, train\_loss: 0.2668, step time: 1.0181  
Batch 181/248, train\_loss: 0.4380, step time: 1.0195  
Batch 182/248, train\_loss: 0.1438, step time: 1.0164  
Batch 183/248, train\_loss: 0.4543, step time: 1.0183  
Batch 184/248, train\_loss: 0.5087, step time: 1.0175  
...

```
Batch 245/248, train_loss: 0.0625, step time: 1.0115  
Batch 246/248, train_loss: 0.4949, step time: 1.0190  
Batch 247/248, train_loss: 0.0815, step time: 1.0147  
Batch 248/248, train_loss: 0.9996, step time: 1.0114
```

Labels



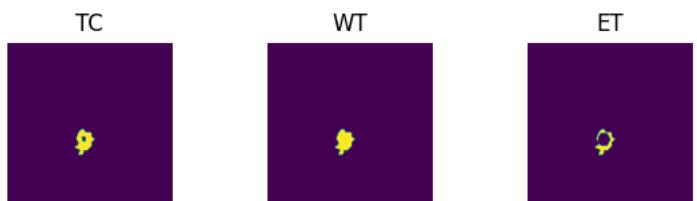
Predictions



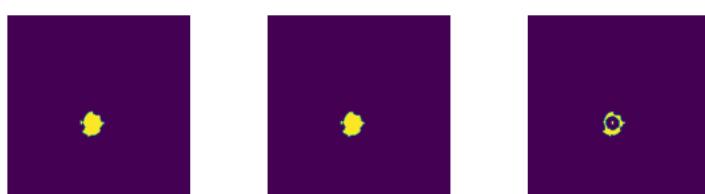
VAL

```
Batch 1/31, val_loss: 0.9544  
Batch 2/31, val_loss: 0.9915  
Batch 3/31, val_loss: 0.9581  
Batch 4/31, val_loss: 0.9412  
Batch 5/31, val_loss: 0.9947  
Batch 6/31, val_loss: 0.6966  
Batch 7/31, val_loss: 0.8340  
Batch 8/31, val_loss: 0.9722  
Batch 9/31, val_loss: 0.6923  
Batch 10/31, val_loss: 0.9098  
Batch 11/31, val_loss: 0.8186  
Batch 12/31, val_loss: 0.9756  
Batch 13/31, val_loss: 0.9942  
Batch 14/31, val_loss: 0.9455  
Batch 15/31, val_loss: 0.9988  
Batch 16/31, val_loss: 0.9731  
Batch 17/31, val_loss: 0.9713  
Batch 18/31, val_loss: 0.9386  
Batch 19/31, val_loss: 0.7497  
Batch 20/31, val_loss: 0.8872  
Batch 21/31, val_loss: 0.8698  
Batch 22/31, val_loss: 0.9730  
Batch 23/31, val_loss: 0.9783  
Batch 24/31, val_loss: 0.7548  
Batch 25/31, val_loss: 0.7950  
Batch 26/31, val_loss: 0.9154  
Batch 27/31, val_loss: 0.9724  
Batch 28/31, val_loss: 0.7568  
Batch 29/31, val_loss: 0.9802  
Batch 30/31, val_loss: 0.9615  
Batch 31/31, val_loss: 0.9836
```

Labels



Predictions



epoch 73

```
average train loss: 0.2736  
average validation loss: 0.9077
```

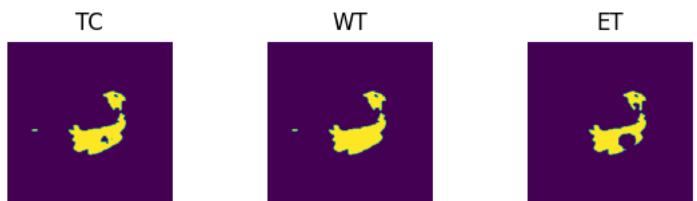
```
-----  
saved as best model: False  
current mean dice: 0.5044  
current TC dice: 0.5234  
current WT dice: 0.5276  
current ET dice: 0.5059  
Best Mean Metric: 0.5135  
time consuming of epoch 73 is: 1575.5193  
-----  
epoch 74/100  
TRAIN  
Batch 1/248, train_loss: 0.0815, step time: 1.0191  
Batch 2/248, train_loss: 0.7000, step time: 1.0198  
Batch 3/248, train_loss: 0.2364, step time: 1.0156  
Batch 4/248, train_loss: 0.8610, step time: 1.0163  
Batch 5/248, train_loss: 0.2012, step time: 1.0126  
Batch 6/248, train_loss: 0.4354, step time: 1.0171  
Batch 7/248, train_loss: 0.0608, step time: 1.0145  
Batch 8/248, train_loss: 0.6974, step time: 1.0159  
Batch 9/248, train_loss: 0.0540, step time: 1.0170  
Batch 10/248, train_loss: 0.2173, step time: 1.0162  
Batch 11/248, train_loss: 0.1472, step time: 1.0189  
Batch 12/248, train_loss: 0.4059, step time: 1.0202  
Batch 13/248, train_loss: 0.2885, step time: 1.0200  
Batch 14/248, train_loss: 0.0570, step time: 1.0168  
Batch 15/248, train_loss: 0.3223, step time: 1.0180  
Batch 16/248, train_loss: 0.1349, step time: 1.0132  
Batch 17/248, train_loss: 0.3019, step time: 1.0188  
Batch 18/248, train_loss: 0.4213, step time: 1.0176  
Batch 19/248, train_loss: 0.0834, step time: 1.0141  
Batch 20/248, train_loss: 0.1166, step time: 1.0164  
Batch 21/248, train_loss: 0.0603, step time: 1.0150  
Batch 22/248, train_loss: 0.3075, step time: 1.0166  
Batch 23/248, train_loss: 0.9980, step time: 1.0129  
Batch 24/248, train_loss: 0.0783, step time: 1.0189  
Batch 25/248, train_loss: 0.0609, step time: 1.0139  
Batch 26/248, train_loss: 0.4263, step time: 1.0185  
Batch 27/248, train_loss: 0.0663, step time: 1.0165  
Batch 28/248, train_loss: 0.1419, step time: 1.0146  
Batch 29/248, train_loss: 0.3772, step time: 1.0212  
Batch 30/248, train_loss: 0.2066, step time: 1.0189  
Batch 31/248, train_loss: 0.3012, step time: 1.0226  
Batch 32/248, train_loss: 0.0733, step time: 1.0114  
Batch 33/248, train_loss: 0.0684, step time: 1.0154  
Batch 34/248, train_loss: 0.0465, step time: 1.0120  
Batch 35/248, train_loss: 0.0394, step time: 1.0118  
Batch 36/248, train_loss: 0.4099, step time: 1.0163  
Batch 37/248, train_loss: 0.1520, step time: 1.0140  
Batch 38/248, train_loss: 0.2822, step time: 1.0146  
Batch 39/248, train_loss: 0.2011, step time: 1.0159  
Batch 40/248, train_loss: 0.5458, step time: 1.0180  
Batch 41/248, train_loss: 0.2404, step time: 1.0181  
Batch 42/248, train_loss: 0.0667, step time: 1.0126  
Batch 43/248, train_loss: 0.0543, step time: 1.0126  
Batch 44/248, train_loss: 0.3089, step time: 1.0173  
Batch 45/248, train_loss: 0.3967, step time: 1.0182  
Batch 46/248, train_loss: 0.1867, step time: 1.0176  
Batch 47/248, train_loss: 0.0696, step time: 1.0165  
Batch 48/248, train_loss: 0.2014, step time: 1.0155  
Batch 49/248, train_loss: 0.5100, step time: 1.0188  
Batch 50/248, train_loss: 0.1460, step time: 1.0153  
Batch 51/248, train_loss: 0.1262, step time: 1.0178  
Batch 52/248, train_loss: 0.0919, step time: 1.0157  
Batch 53/248, train_loss: 0.3973, step time: 1.0185  
Batch 54/248, train_loss: 0.2169, step time: 1.0184  
Batch 55/248, train_loss: 0.2938, step time: 1.0176  
Batch 56/248, train_loss: 0.2421, step time: 1.0166  
Batch 57/248, train_loss: 0.3035, step time: 1.0172  
Batch 58/248, train_loss: 0.0790, step time: 1.0117  
Batch 59/248, train_loss: 0.0972, step time: 1.0142  
Batch 60/248, train_loss: 0.0502, step time: 1.0130  
Batch 61/248, train_loss: 0.0906, step time: 1.0157  
Batch 62/248, train_loss: 0.2115, step time: 1.0160  
Batch 63/248, train_loss: 0.5741, step time: 1.0174  
Batch 64/248, train_loss: 0.3195, step time: 1.0190  
Batch 65/248, train_loss: 0.3083, step time: 1.0188  
Batch 66/248, train_loss: 0.1216, step time: 1.0178  
Batch 67/248, train_loss: 0.0665, step time: 1.0149  
Batch 68/248, train_loss: 0.1828, step time: 1.0172  
Batch 69/248, train_loss: 0.3423, step time: 1.0194  
Batch 70/248, train_loss: 0.1497, step time: 1.0151  
Batch 71/248, train_loss: 0.1217, step time: 1.0172  
Batch 72/248, train_loss: 0.0614, step time: 1.0124  
Batch 73/248, train_loss: 0.1799, step time: 1.0145  
Batch 74/248, train_loss: 0.9974, step time: 1.0222  
Batch 75/248, train_loss: 0.1220, step time: 1.0150
```

Batch 1/248, train\_loss: 0.1258, step time: 1.0173  
Batch 2/248, train\_loss: 0.5299, step time: 1.0178  
Batch 3/248, train\_loss: 0.7458, step time: 1.0180  
Batch 4/248, train\_loss: 0.0973, step time: 1.0172  
Batch 5/248, train\_loss: 0.1195, step time: 1.0168  
Batch 6/248, train\_loss: 0.2137, step time: 1.0167  
Batch 7/248, train\_loss: 0.1667, step time: 1.0184  
Batch 8/248, train\_loss: 0.0799, step time: 1.0150  
Batch 9/248, train\_loss: 0.4911, step time: 1.0172  
Batch 10/248, train\_loss: 0.2813, step time: 1.0175  
Batch 11/248, train\_loss: 0.3420, step time: 1.0155  
Batch 12/248, train\_loss: 0.2403, step time: 1.0135  
Batch 13/248, train\_loss: 0.4796, step time: 1.0173  
Batch 14/248, train\_loss: 0.2942, step time: 1.0170  
Batch 15/248, train\_loss: 0.0950, step time: 1.0169  
Batch 16/248, train\_loss: 0.2053, step time: 1.0174  
Batch 17/248, train\_loss: 0.2991, step time: 1.0176  
Batch 18/248, train\_loss: 0.2486, step time: 1.0163  
Batch 19/248, train\_loss: 0.1437, step time: 1.0159  
Batch 20/248, train\_loss: 0.2526, step time: 1.0180  
Batch 21/248, train\_loss: 0.1748, step time: 1.0173  
Batch 22/248, train\_loss: 0.1448, step time: 1.0160  
Batch 23/248, train\_loss: 0.3119, step time: 1.0195  
Batch 24/248, train\_loss: 0.1140, step time: 1.0178  
Batch 25/248, train\_loss: 0.2772, step time: 1.0145  
Batch 26/248, train\_loss: 0.2542, step time: 1.0205  
Batch 27/248, train\_loss: 0.0534, step time: 1.0164  
Batch 28/248, train\_loss: 0.1118, step time: 1.0181  
Batch 29/248, train\_loss: 0.3160, step time: 1.0212  
Batch 30/248, train\_loss: 0.3052, step time: 1.0160  
Batch 31/248, train\_loss: 0.0763, step time: 1.0162  
Batch 32/248, train\_loss: 0.0921, step time: 1.0149  
Batch 33/248, train\_loss: 0.1986, step time: 1.0166  
Batch 34/248, train\_loss: 0.3869, step time: 1.0231  
Batch 35/248, train\_loss: 0.9760, step time: 1.0161  
Batch 36/248, train\_loss: 0.1781, step time: 1.0172  
Batch 37/248, train\_loss: 0.0887, step time: 1.0228  
Batch 38/248, train\_loss: 0.1039, step time: 1.0154  
Batch 39/248, train\_loss: 0.8559, step time: 1.0173  
Batch 40/248, train\_loss: 0.1350, step time: 1.0144  
Batch 41/248, train\_loss: 0.1440, step time: 1.0173  
Batch 42/248, train\_loss: 0.0749, step time: 1.0108  
Batch 43/248, train\_loss: 0.5786, step time: 1.0171  
Batch 44/248, train\_loss: 0.6572, step time: 1.0141  
Batch 45/248, train\_loss: 0.2996, step time: 1.0161  
Batch 46/248, train\_loss: 0.2026, step time: 1.0161  
Batch 47/248, train\_loss: 0.2804, step time: 1.0192  
Batch 48/248, train\_loss: 0.3236, step time: 1.0173  
Batch 49/248, train\_loss: 0.0894, step time: 1.0155  
Batch 50/248, train\_loss: 0.3622, step time: 1.0196  
Batch 51/248, train\_loss: 0.6902, step time: 1.0235  
Batch 52/248, train\_loss: 0.2661, step time: 1.0184  
Batch 53/248, train\_loss: 0.1356, step time: 1.0188  
Batch 54/248, train\_loss: 0.5358, step time: 1.0177  
Batch 55/248, train\_loss: 0.0903, step time: 1.0161  
Batch 56/248, train\_loss: 0.0922, step time: 1.0151  
Batch 57/248, train\_loss: 0.4061, step time: 1.0176  
Batch 58/248, train\_loss: 0.2392, step time: 1.0200  
Batch 59/248, train\_loss: 0.1122, step time: 1.0149  
Batch 60/248, train\_loss: 0.7712, step time: 1.0189  
Batch 61/248, train\_loss: 0.2027, step time: 1.0165  
Batch 62/248, train\_loss: 0.0955, step time: 1.0161  
Batch 63/248, train\_loss: 0.1076, step time: 1.0161  
Batch 64/248, train\_loss: 0.0673, step time: 1.0129  
Batch 65/248, train\_loss: 0.2230, step time: 1.0175  
Batch 66/248, train\_loss: 0.1986, step time: 1.0164  
Batch 67/248, train\_loss: 0.3620, step time: 1.0189  
Batch 68/248, train\_loss: 0.4416, step time: 1.0174  
Batch 69/248, train\_loss: 0.2075, step time: 1.0162  
Batch 70/248, train\_loss: 0.1232, step time: 1.0101  
Batch 71/248, train\_loss: 0.1078, step time: 1.0168  
Batch 72/248, train\_loss: 0.4907, step time: 1.0169  
Batch 73/248, train\_loss: 0.0416, step time: 1.0127  
Batch 74/248, train\_loss: 0.5783, step time: 1.0173  
Batch 75/248, train\_loss: 0.1024, step time: 1.0140  
Batch 76/248, train\_loss: 0.6711, step time: 1.0162  
Batch 77/248, train\_loss: 0.2637, step time: 1.0145  
Batch 78/248, train\_loss: 0.0413, step time: 1.0136  
Batch 79/248, train\_loss: 0.2516, step time: 1.0194  
Batch 80/248, train\_loss: 0.5784, step time: 1.0207  
Batch 81/248, train\_loss: 0.1488, step time: 1.0159  
Batch 82/248, train\_loss: 0.1601, step time: 1.0187  
Batch 83/248, train\_loss: 0.1891, step time: 1.0140  
Batch 84/248, train\_loss: 0.9850, step time: 1.0160  
Batch 85/248, train\_loss: 0.3067, step time: 1.0183

Batch 160/248, train\_loss: 0.1038, step time: 1.0169  
Batch 161/248, train\_loss: 0.0958, step time: 1.0143  
Batch 162/248, train\_loss: 0.0684, step time: 1.0129  
Batch 163/248, train\_loss: 0.1501, step time: 1.0178  
Batch 164/248, train\_loss: 0.1439, step time: 1.0164  
Batch 165/248, train\_loss: 0.3958, step time: 1.0187  
Batch 166/248, train\_loss: 0.0761, step time: 1.0203  
Batch 167/248, train\_loss: 0.1631, step time: 1.0172  
Batch 168/248, train\_loss: 0.1579, step time: 1.0166  
Batch 169/248, train\_loss: 0.0708, step time: 1.0142  
Batch 170/248, train\_loss: 0.6781, step time: 1.0180  
Batch 171/248, train\_loss: 0.0877, step time: 1.0150  
Batch 172/248, train\_loss: 0.4715, step time: 1.0189  
Batch 173/248, train\_loss: 0.1187, step time: 1.0163  
Batch 174/248, train\_loss: 0.6014, step time: 1.0187  
Batch 175/248, train\_loss: 0.1545, step time: 1.0138  
Batch 176/248, train\_loss: 0.3413, step time: 1.0161  
Batch 177/248, train\_loss: 0.2111, step time: 1.0170  
Batch 178/248, train\_loss: 0.2457, step time: 1.0190  
Batch 179/248, train\_loss: 0.0894, step time: 1.0166  
Batch 180/248, train\_loss: 0.3354, step time: 1.0159  
Batch 181/248, train\_loss: 0.1189, step time: 1.0153  
Batch 182/248, train\_loss: 0.9129, step time: 1.0148  
Batch 183/248, train\_loss: 0.1345, step time: 1.0165  
Batch 184/248, train\_loss: 0.3459, step time: 1.0150  
Batch 185/248, train\_loss: 0.0999, step time: 1.0143  
Batch 186/248, train\_loss: 0.0964, step time: 1.0148  
Batch 187/248, train\_loss: 0.2038, step time: 1.0169  
Batch 188/248, train\_loss: 0.2784, step time: 1.0183  
Batch 189/248, train\_loss: 0.4463, step time: 1.0172  
Batch 190/248, train\_loss: 0.1177, step time: 1.0178  
Batch 191/248, train\_loss: 0.5696, step time: 1.0161  
Batch 192/248, train\_loss: 0.2896, step time: 1.0161  
Batch 193/248, train\_loss: 0.3153, step time: 1.0163  
Batch 194/248, train\_loss: 0.0774, step time: 1.0167  
Batch 195/248, train\_loss: 0.5755, step time: 1.0170  
Batch 196/248, train\_loss: 0.9989, step time: 1.0122  
Batch 197/248, train\_loss: 0.1593, step time: 1.0173  
Batch 198/248, train\_loss: 0.5031, step time: 1.0208  
Batch 199/248, train\_loss: 0.1224, step time: 1.0140  
Batch 200/248, train\_loss: 0.1187, step time: 1.0151  
Batch 201/248, train\_loss: 0.1182, step time: 1.0144  
Batch 202/248, train\_loss: 0.3579, step time: 1.0160  
Batch 203/248, train\_loss: 0.5325, step time: 1.0188  
Batch 204/248, train\_loss: 0.0798, step time: 1.0128  
Batch 205/248, train\_loss: 0.2172, step time: 1.0162  
Batch 206/248, train\_loss: 0.3356, step time: 1.0181  
Batch 207/248, train\_loss: 0.0876, step time: 1.0156  
Batch 208/248, train\_loss: 0.1447, step time: 1.0169  
Batch 209/248, train\_loss: 0.1507, step time: 1.0164  
Batch 210/248, train\_loss: 0.0522, step time: 1.0114  
Batch 211/248, train\_loss: 0.0552, step time: 1.0101  
Batch 212/248, train\_loss: 0.1843, step time: 1.0173  
Batch 213/248, train\_loss: 0.1472, step time: 1.0181  
Batch 214/248, train\_loss: 0.0669, step time: 1.0142  
Batch 215/248, train\_loss: 0.1616, step time: 1.0168  
Batch 216/248, train\_loss: 0.1544, step time: 1.0184  
Batch 217/248, train\_loss: 0.2466, step time: 1.0179  
Batch 218/248, train\_loss: 0.7865, step time: 1.0200  
Batch 219/248, train\_loss: 0.0686, step time: 1.0188  
Batch 220/248, train\_loss: 0.2149, step time: 1.0189  
Batch 221/248, train\_loss: 0.2558, step time: 1.0160  
Batch 222/248, train\_loss: 0.1879, step time: 1.0142  
Batch 223/248, train\_loss: 0.0415, step time: 1.0121  
Batch 224/248, train\_loss: 0.0787, step time: 1.0141  
Batch 225/248, train\_loss: 0.1533, step time: 1.0178  
Batch 226/248, train\_loss: 0.1195, step time: 1.0150  
Batch 227/248, train\_loss: 0.0871, step time: 1.0134  
Batch 228/248, train\_loss: 0.1647, step time: 1.0147  
Batch 229/248, train\_loss: 0.0994, step time: 1.0149  
Batch 230/248, train\_loss: 0.0686, step time: 1.0159  
Batch 231/248, train\_loss: 0.3185, step time: 1.0187  
Batch 232/248, train\_loss: 0.0717, step time: 1.0133  
Batch 233/248, train\_loss: 0.7753, step time: 1.0192  
Batch 234/248, train\_loss: 0.4030, step time: 1.0148  
Batch 235/248, train\_loss: 0.3168, step time: 1.0192  
Batch 236/248, train\_loss: 0.7265, step time: 1.0196  
Batch 237/248, train\_loss: 0.1027, step time: 1.0160  
Batch 238/248, train\_loss: 0.1059, step time: 1.0132  
Batch 239/248, train\_loss: 0.0602, step time: 1.0162  
Batch 240/248, train\_loss: 0.2641, step time: 1.0187  
Batch 241/248, train\_loss: 0.4201, step time: 1.0189  
Batch 242/248, train\_loss: 0.1211, step time: 1.0160  
Batch 243/248, train\_loss: 0.5737, step time: 1.0188  
Batch 244/248, train\_loss: 0.4924, step time: 1.0173

```
Batch 245/248, train_loss: 0.0643, step time: 1.0130  
Batch 246/248, train_loss: 0.4291, step time: 1.0186  
Batch 247/248, train_loss: 0.0753, step time: 1.0093  
Batch 248/248, train_loss: 0.9996, step time: 1.0100
```

Labels



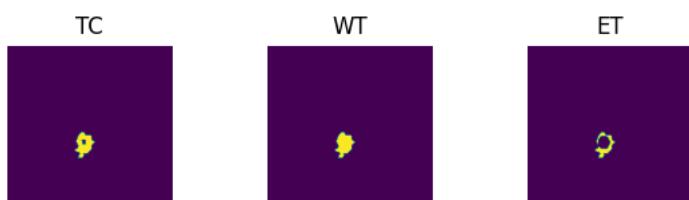
Predictions



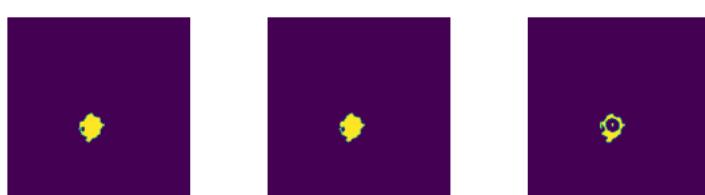
VAL

```
Batch 1/31, val_loss: 0.9536  
Batch 2/31, val_loss: 0.9934  
Batch 3/31, val_loss: 0.9604  
Batch 4/31, val_loss: 0.9358  
Batch 5/31, val_loss: 0.9948  
Batch 6/31, val_loss: 0.6990  
Batch 7/31, val_loss: 0.8375  
Batch 8/31, val_loss: 0.9622  
Batch 9/31, val_loss: 0.6903  
Batch 10/31, val_loss: 0.9068  
Batch 11/31, val_loss: 0.8218  
Batch 12/31, val_loss: 0.9742  
Batch 13/31, val_loss: 0.9899  
Batch 14/31, val_loss: 0.9466  
Batch 15/31, val_loss: 0.9943  
Batch 16/31, val_loss: 0.9723  
Batch 17/31, val_loss: 0.9728  
Batch 18/31, val_loss: 0.9379  
Batch 19/31, val_loss: 0.7447  
Batch 20/31, val_loss: 0.8826  
Batch 21/31, val_loss: 0.8625  
Batch 22/31, val_loss: 0.9743  
Batch 23/31, val_loss: 0.9771  
Batch 24/31, val_loss: 0.7480  
Batch 25/31, val_loss: 0.7971  
Batch 26/31, val_loss: 0.9161  
Batch 27/31, val_loss: 0.9693  
Batch 28/31, val_loss: 0.7463  
Batch 29/31, val_loss: 0.9804  
Batch 30/31, val_loss: 0.9566  
Batch 31/31, val_loss: 0.9829
```

Labels



Predictions



epoch 74

```
average train loss: 0.2635
```

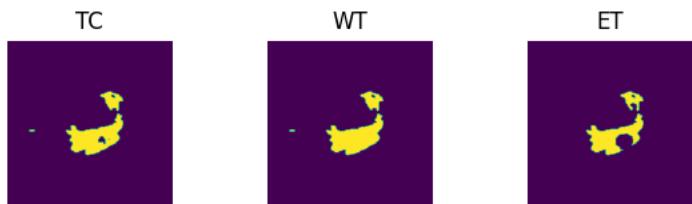
```
average validation loss: 0.9059
saved as best model: True
current mean dice: 0.5166
current TC dice: 0.5380
current WT dice: 0.5485
current ET dice: 0.5079
Best Mean Metric: 0.5166
time consuming of epoch 74 is: 1578.8108
-----
epoch 75/100
TRAIN
Batch 1/248, train_loss: 0.0786, step time: 1.0159
Batch 2/248, train_loss: 0.7023, step time: 1.0234
Batch 3/248, train_loss: 0.2788, step time: 1.0162
Batch 4/248, train_loss: 0.9099, step time: 1.0178
Batch 5/248, train_loss: 0.1829, step time: 1.0166
Batch 6/248, train_loss: 0.5056, step time: 1.0228
Batch 7/248, train_loss: 0.0605, step time: 1.0151
Batch 8/248, train_loss: 0.7216, step time: 1.0147
Batch 9/248, train_loss: 0.0424, step time: 1.0152
Batch 10/248, train_loss: 0.2177, step time: 1.0194
Batch 11/248, train_loss: 0.1551, step time: 1.0163
Batch 12/248, train_loss: 0.3822, step time: 1.0196
Batch 13/248, train_loss: 0.3245, step time: 1.0230
Batch 14/248, train_loss: 0.0585, step time: 1.0157
Batch 15/248, train_loss: 0.3052, step time: 1.0146
Batch 16/248, train_loss: 0.1283, step time: 1.0149
Batch 17/248, train_loss: 0.2442, step time: 1.0161
Batch 18/248, train_loss: 0.3456, step time: 1.0167
Batch 19/248, train_loss: 0.1021, step time: 1.0140
Batch 20/248, train_loss: 0.1350, step time: 1.0177
Batch 21/248, train_loss: 0.0553, step time: 1.0118
Batch 22/248, train_loss: 0.6962, step time: 1.0184
Batch 23/248, train_loss: 0.9974, step time: 1.0107
Batch 24/248, train_loss: 0.0672, step time: 1.0149
Batch 25/248, train_loss: 0.0598, step time: 1.0174
Batch 26/248, train_loss: 0.3678, step time: 1.0187
Batch 27/248, train_loss: 0.0726, step time: 1.0172
Batch 28/248, train_loss: 0.1589, step time: 1.0197
Batch 29/248, train_loss: 0.3103, step time: 1.0205
Batch 30/248, train_loss: 0.2136, step time: 1.0157
Batch 31/248, train_loss: 0.2488, step time: 1.0168
Batch 32/248, train_loss: 0.0715, step time: 1.0111
Batch 33/248, train_loss: 0.0856, step time: 1.0153
Batch 34/248, train_loss: 0.0426, step time: 1.0103
Batch 35/248, train_loss: 0.0423, step time: 1.0135
Batch 36/248, train_loss: 0.3855, step time: 1.0168
Batch 37/248, train_loss: 0.1404, step time: 1.0138
Batch 38/248, train_loss: 0.2648, step time: 1.0141
Batch 39/248, train_loss: 0.1348, step time: 1.0150
Batch 40/248, train_loss: 0.6576, step time: 1.0183
Batch 41/248, train_loss: 0.3705, step time: 1.0175
Batch 42/248, train_loss: 0.0644, step time: 1.0146
Batch 43/248, train_loss: 0.0551, step time: 1.0156
Batch 44/248, train_loss: 0.4808, step time: 1.0191
Batch 45/248, train_loss: 0.3619, step time: 1.0179
Batch 46/248, train_loss: 0.1540, step time: 1.0164
Batch 47/248, train_loss: 0.1255, step time: 1.0191
Batch 48/248, train_loss: 0.2101, step time: 1.0167
Batch 49/248, train_loss: 0.5098, step time: 1.0193
Batch 50/248, train_loss: 0.1260, step time: 1.0143
Batch 51/248, train_loss: 0.1288, step time: 1.0176
Batch 52/248, train_loss: 0.1027, step time: 1.0149
Batch 53/248, train_loss: 0.3615, step time: 1.0219
Batch 54/248, train_loss: 0.2566, step time: 1.0185
Batch 55/248, train_loss: 0.3525, step time: 1.0190
Batch 56/248, train_loss: 0.1778, step time: 1.0160
Batch 57/248, train_loss: 0.2680, step time: 1.0153
Batch 58/248, train_loss: 0.0681, step time: 1.0144
Batch 59/248, train_loss: 0.0898, step time: 1.0127
Batch 60/248, train_loss: 0.0501, step time: 1.0157
Batch 61/248, train_loss: 0.0889, step time: 1.0143
Batch 62/248, train_loss: 0.2039, step time: 1.0155
Batch 63/248, train_loss: 0.6093, step time: 1.0228
Batch 64/248, train_loss: 0.3740, step time: 1.0152
Batch 65/248, train_loss: 0.5437, step time: 1.0172
Batch 66/248, train_loss: 0.1257, step time: 1.0135
Batch 67/248, train_loss: 0.0706, step time: 1.0117
Batch 68/248, train_loss: 0.1451, step time: 1.0158
Batch 69/248, train_loss: 0.3484, step time: 1.0198
Batch 70/248, train_loss: 0.1257, step time: 1.0156
Batch 71/248, train_loss: 0.1561, step time: 1.0179
Batch 72/248, train_loss: 0.0597, step time: 1.0109
Batch 73/248, train_loss: 0.2637, step time: 1.0158
Batch 74/248, train_loss: 0.9986, step time: 1.0127
```

Batch 75/248, train\_loss: 0.1177, step time: 1.0162  
Batch 76/248, train\_loss: 0.5793, step time: 1.0192  
Batch 77/248, train\_loss: 0.9291, step time: 1.0166  
Batch 78/248, train\_loss: 0.1756, step time: 1.0154  
Batch 79/248, train\_loss: 0.1077, step time: 1.0219  
Batch 80/248, train\_loss: 0.1778, step time: 1.0142  
Batch 81/248, train\_loss: 0.2037, step time: 1.0200  
Batch 82/248, train\_loss: 0.0758, step time: 1.0136  
Batch 83/248, train\_loss: 0.5704, step time: 1.0211  
Batch 84/248, train\_loss: 0.2416, step time: 1.0186  
Batch 85/248, train\_loss: 0.3076, step time: 1.0198  
Batch 86/248, train\_loss: 0.2842, step time: 1.0185  
Batch 87/248, train\_loss: 0.4664, step time: 1.0182  
Batch 88/248, train\_loss: 0.2906, step time: 1.0161  
Batch 89/248, train\_loss: 0.0926, step time: 1.0150  
Batch 90/248, train\_loss: 0.3399, step time: 1.0167  
Batch 91/248, train\_loss: 0.3006, step time: 1.0179  
Batch 92/248, train\_loss: 0.3011, step time: 1.0177  
Batch 93/248, train\_loss: 0.1319, step time: 1.0133  
Batch 94/248, train\_loss: 0.2733, step time: 1.0198  
Batch 95/248, train\_loss: 0.1705, step time: 1.0128  
Batch 96/248, train\_loss: 0.1570, step time: 1.0180  
Batch 97/248, train\_loss: 0.3399, step time: 1.0204  
Batch 98/248, train\_loss: 0.0999, step time: 1.0192  
Batch 99/248, train\_loss: 0.3023, step time: 1.0180  
Batch 100/248, train\_loss: 0.2023, step time: 1.0188  
Batch 101/248, train\_loss: 0.0547, step time: 1.0152  
Batch 102/248, train\_loss: 0.0950, step time: 1.0152  
Batch 103/248, train\_loss: 0.5444, step time: 1.0178  
Batch 104/248, train\_loss: 0.3085, step time: 1.0185  
Batch 105/248, train\_loss: 0.0784, step time: 1.0106  
Batch 106/248, train\_loss: 0.1653, step time: 1.0216  
Batch 107/248, train\_loss: 0.1931, step time: 1.0169  
Batch 108/248, train\_loss: 0.5420, step time: 1.0186  
Batch 109/248, train\_loss: 0.9862, step time: 1.0182  
Batch 110/248, train\_loss: 0.2143, step time: 1.0194  
Batch 111/248, train\_loss: 0.0973, step time: 1.0163  
Batch 112/248, train\_loss: 0.1248, step time: 1.0145  
Batch 113/248, train\_loss: 0.7907, step time: 1.0128  
Batch 114/248, train\_loss: 0.1615, step time: 1.0152  
Batch 115/248, train\_loss: 0.1383, step time: 1.0178  
Batch 116/248, train\_loss: 0.0679, step time: 1.0152  
Batch 117/248, train\_loss: 0.6196, step time: 1.0198  
Batch 118/248, train\_loss: 0.5074, step time: 1.0159  
Batch 119/248, train\_loss: 0.2621, step time: 1.0138  
Batch 120/248, train\_loss: 0.2163, step time: 1.0125  
Batch 121/248, train\_loss: 0.3033, step time: 1.0177  
Batch 122/248, train\_loss: 0.3468, step time: 1.0189  
Batch 123/248, train\_loss: 0.0768, step time: 1.0171  
Batch 124/248, train\_loss: 0.4134, step time: 1.0167  
Batch 125/248, train\_loss: 0.5664, step time: 1.0198  
Batch 126/248, train\_loss: 0.1869, step time: 1.0169  
Batch 127/248, train\_loss: 0.0986, step time: 1.0184  
Batch 128/248, train\_loss: 0.3685, step time: 1.0212  
Batch 129/248, train\_loss: 0.1112, step time: 1.0171  
Batch 130/248, train\_loss: 0.0910, step time: 1.0143  
Batch 131/248, train\_loss: 0.5288, step time: 1.0176  
Batch 132/248, train\_loss: 0.3073, step time: 1.0161  
Batch 133/248, train\_loss: 0.1280, step time: 1.0150  
Batch 134/248, train\_loss: 0.5938, step time: 1.0182  
Batch 135/248, train\_loss: 0.1973, step time: 1.0182  
Batch 136/248, train\_loss: 0.1106, step time: 1.0168  
Batch 137/248, train\_loss: 0.1064, step time: 1.0156  
Batch 138/248, train\_loss: 0.0652, step time: 1.0152  
Batch 139/248, train\_loss: 0.2745, step time: 1.0141  
Batch 140/248, train\_loss: 0.1752, step time: 1.0213  
Batch 141/248, train\_loss: 0.3493, step time: 1.0184  
Batch 142/248, train\_loss: 0.5198, step time: 1.0196  
Batch 143/248, train\_loss: 0.2195, step time: 1.0147  
Batch 144/248, train\_loss: 0.1211, step time: 1.0155  
Batch 145/248, train\_loss: 0.0627, step time: 1.0137  
Batch 146/248, train\_loss: 0.5501, step time: 1.0175  
Batch 147/248, train\_loss: 0.0362, step time: 1.0138  
Batch 148/248, train\_loss: 0.6262, step time: 1.0186  
Batch 149/248, train\_loss: 0.1061, step time: 1.0176  
Batch 150/248, train\_loss: 0.6667, step time: 1.0179  
Batch 151/248, train\_loss: 0.2972, step time: 1.0168  
Batch 152/248, train\_loss: 0.0377, step time: 1.0131  
Batch 153/248, train\_loss: 0.2598, step time: 1.0144  
Batch 154/248, train\_loss: 0.6984, step time: 1.0217  
Batch 155/248, train\_loss: 0.1500, step time: 1.0170  
Batch 156/248, train\_loss: 0.2035, step time: 1.0197  
Batch 157/248, train\_loss: 0.2042, step time: 1.0152  
Batch 158/248, train\_loss: 0.9865, step time: 1.0141  
Batch 159/248, train\_loss: 0.3421, step time: 1.0197

Batch 160/248, train\_loss: 0.0930, step time: 1.0168  
Batch 161/248, train\_loss: 0.0945, step time: 1.0135  
Batch 162/248, train\_loss: 0.0765, step time: 1.0140  
Batch 163/248, train\_loss: 0.0951, step time: 1.0169  
Batch 164/248, train\_loss: 0.1768, step time: 1.0167  
Batch 165/248, train\_loss: 0.3668, step time: 1.0166  
Batch 166/248, train\_loss: 0.0706, step time: 1.0165  
Batch 167/248, train\_loss: 0.1720, step time: 1.0168  
Batch 168/248, train\_loss: 0.1421, step time: 1.0144  
Batch 169/248, train\_loss: 0.0948, step time: 1.0156  
Batch 170/248, train\_loss: 0.5532, step time: 1.0170  
Batch 171/248, train\_loss: 0.0821, step time: 1.0144  
Batch 172/248, train\_loss: 0.3212, step time: 1.0166  
Batch 173/248, train\_loss: 0.0829, step time: 1.0139  
Batch 174/248, train\_loss: 0.4845, step time: 1.0188  
Batch 175/248, train\_loss: 0.1576, step time: 1.0152  
Batch 176/248, train\_loss: 0.3425, step time: 1.0173  
Batch 177/248, train\_loss: 0.2129, step time: 1.0183  
Batch 178/248, train\_loss: 0.2785, step time: 1.0190  
Batch 179/248, train\_loss: 0.0939, step time: 1.0167  
Batch 180/248, train\_loss: 0.3272, step time: 1.0179  
Batch 181/248, train\_loss: 0.1097, step time: 1.0174  
Batch 182/248, train\_loss: 0.9109, step time: 1.0155  
Batch 183/248, train\_loss: 0.2135, step time: 1.0170  
Batch 184/248, train\_loss: 0.2688, step time: 1.0145  
Batch 185/248, train\_loss: 0.0830, step time: 1.0132  
Batch 186/248, train\_loss: 0.0973, step time: 1.0158  
Batch 187/248, train\_loss: 0.1517, step time: 1.0148  
Batch 188/248, train\_loss: 0.2723, step time: 1.0183  
Batch 189/248, train\_loss: 0.4824, step time: 1.0180  
Batch 190/248, train\_loss: 0.1163, step time: 1.0140  
Batch 191/248, train\_loss: 0.5716, step time: 1.0189  
Batch 192/248, train\_loss: 0.2712, step time: 1.0212  
Batch 193/248, train\_loss: 0.2360, step time: 1.0165  
Batch 194/248, train\_loss: 0.0760, step time: 1.0162  
Batch 195/248, train\_loss: 0.6738, step time: 1.0229  
Batch 196/248, train\_loss: 0.9961, step time: 1.0110  
Batch 197/248, train\_loss: 0.1633, step time: 1.0183  
Batch 198/248, train\_loss: 0.5090, step time: 1.0193  
Batch 199/248, train\_loss: 0.1539, step time: 1.0180  
Batch 200/248, train\_loss: 0.1349, step time: 1.0160  
Batch 201/248, train\_loss: 0.1234, step time: 1.0153  
Batch 202/248, train\_loss: 0.3603, step time: 1.0170  
Batch 203/248, train\_loss: 0.4761, step time: 1.0180  
Batch 204/248, train\_loss: 0.0829, step time: 1.0162  
Batch 205/248, train\_loss: 0.2204, step time: 1.0162  
Batch 206/248, train\_loss: 0.3103, step time: 1.0202  
Batch 207/248, train\_loss: 0.0771, step time: 1.0143  
Batch 208/248, train\_loss: 0.1191, step time: 1.0136  
Batch 209/248, train\_loss: 0.1462, step time: 1.0154  
Batch 210/248, train\_loss: 0.0589, step time: 1.0132  
Batch 211/248, train\_loss: 0.0581, step time: 1.0150  
Batch 212/248, train\_loss: 0.2563, step time: 1.0163  
Batch 213/248, train\_loss: 0.1423, step time: 1.0158  
Batch 214/248, train\_loss: 0.0667, step time: 1.0163  
Batch 215/248, train\_loss: 0.1788, step time: 1.0180  
Batch 216/248, train\_loss: 0.1102, step time: 1.0160  
Batch 217/248, train\_loss: 0.2387, step time: 1.0186  
Batch 218/248, train\_loss: 0.8796, step time: 1.0197  
Batch 219/248, train\_loss: 0.0659, step time: 1.0161  
Batch 220/248, train\_loss: 0.1920, step time: 1.0179  
Batch 221/248, train\_loss: 0.2670, step time: 1.0193  
Batch 222/248, train\_loss: 0.1647, step time: 1.0158  
Batch 223/248, train\_loss: 0.0395, step time: 1.0141  
Batch 224/248, train\_loss: 0.0767, step time: 1.0145  
Batch 225/248, train\_loss: 0.1367, step time: 1.0167  
Batch 226/248, train\_loss: 0.1307, step time: 1.0163  
Batch 227/248, train\_loss: 0.0878, step time: 1.0165  
Batch 228/248, train\_loss: 0.1274, step time: 1.0154  
Batch 229/248, train\_loss: 0.1038, step time: 1.0125  
Batch 230/248, train\_loss: 0.0579, step time: 1.0157  
Batch 231/248, train\_loss: 0.2568, step time: 1.0168  
Batch 232/248, train\_loss: 0.0832, step time: 1.0170  
Batch 233/248, train\_loss: 0.9054, step time: 1.0129  
Batch 234/248, train\_loss: 0.4954, step time: 1.0151  
Batch 235/248, train\_loss: 0.4110, step time: 1.0189  
Batch 236/248, train\_loss: 0.7601, step time: 1.0205  
Batch 237/248, train\_loss: 0.0964, step time: 1.0139  
Batch 238/248, train\_loss: 0.0947, step time: 1.0177  
Batch 239/248, train\_loss: 0.0678, step time: 1.0172  
Batch 240/248, train\_loss: 0.2770, step time: 1.0161  
Batch 241/248, train\_loss: 0.3651, step time: 1.0175  
Batch 242/248, train\_loss: 0.1365, step time: 1.0152  
Batch 243/248, train\_loss: 0.5459, step time: 1.0177  
Batch 244/248, train\_loss: 0.1101, step time: 1.0162

```
Batch 244/248, train_loss: 0.74107, step time: 1.0102  
Batch 245/248, train_loss: 0.0569, step time: 1.0124  
Batch 246/248, train_loss: 0.5487, step time: 1.0181  
Batch 247/248, train_loss: 0.0846, step time: 1.0157  
Batch 248/248, train_loss: 0.9997, step time: 1.0072
```

Labels



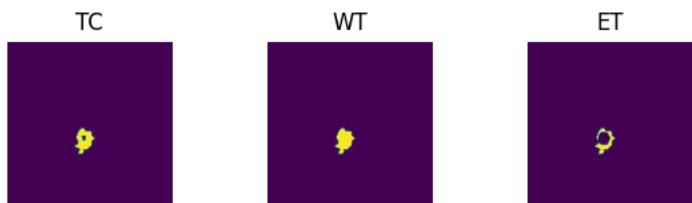
Predictions



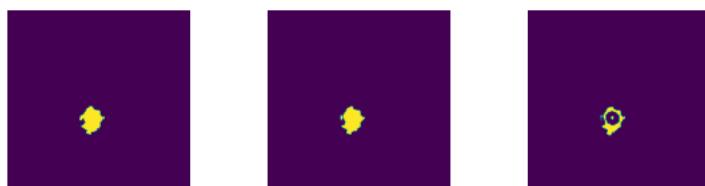
VAL

```
Batch 1/31, val_loss: 0.9544  
Batch 2/31, val_loss: 0.9921  
Batch 3/31, val_loss: 0.9591  
Batch 4/31, val_loss: 0.9340  
Batch 5/31, val_loss: 0.9931  
Batch 6/31, val_loss: 0.6997  
Batch 7/31, val_loss: 0.8366  
Batch 8/31, val_loss: 0.9668  
Batch 9/31, val_loss: 0.6915  
Batch 10/31, val_loss: 0.9031  
Batch 11/31, val_loss: 0.8219  
Batch 12/31, val_loss: 0.9716  
Batch 13/31, val_loss: 0.9926  
Batch 14/31, val_loss: 0.9377  
Batch 15/31, val_loss: 0.9912  
Batch 16/31, val_loss: 0.9720  
Batch 17/31, val_loss: 0.9722  
Batch 18/31, val_loss: 0.9431  
Batch 19/31, val_loss: 0.7455  
Batch 20/31, val_loss: 0.8811  
Batch 21/31, val_loss: 0.8607  
Batch 22/31, val_loss: 0.9699  
Batch 23/31, val_loss: 0.9757  
Batch 24/31, val_loss: 0.7467  
Batch 25/31, val_loss: 0.7960  
Batch 26/31, val_loss: 0.9151  
Batch 27/31, val_loss: 0.9696  
Batch 28/31, val_loss: 0.7517  
Batch 29/31, val_loss: 0.9801  
Batch 30/31, val_loss: 0.9556  
Batch 31/31, val_loss: 0.9818
```

Labels



Predictions



epoch 75

average train loss: 0.2703

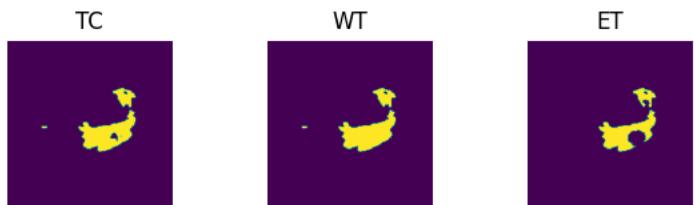
average validation loss: 0.9052  
saved as best model: True  
current mean dice: 0.5258  
current TC dice: 0.5469  
current WT dice: 0.5557  
current ET dice: 0.5198  
Best Mean Metric: 0.5258  
time consuming of epoch 75 is: 1588.0549  
-----  
epoch 76/100  
TRAIN  
Batch 1/248, train\_loss: 0.0915, step time: 1.0151  
Batch 2/248, train\_loss: 0.6569, step time: 1.0236  
Batch 3/248, train\_loss: 0.2295, step time: 1.0162  
Batch 4/248, train\_loss: 0.8792, step time: 1.0153  
Batch 5/248, train\_loss: 0.2702, step time: 1.0195  
Batch 6/248, train\_loss: 0.4236, step time: 1.0169  
Batch 7/248, train\_loss: 0.0615, step time: 1.0153  
Batch 8/248, train\_loss: 0.7114, step time: 1.0154  
Batch 9/248, train\_loss: 0.0451, step time: 1.0155  
Batch 10/248, train\_loss: 0.2306, step time: 1.0174  
Batch 11/248, train\_loss: 0.1692, step time: 1.0189  
Batch 12/248, train\_loss: 0.4464, step time: 1.0202  
Batch 13/248, train\_loss: 0.3183, step time: 1.0234  
Batch 14/248, train\_loss: 0.0538, step time: 1.0146  
Batch 15/248, train\_loss: 0.2894, step time: 1.0186  
Batch 16/248, train\_loss: 0.1372, step time: 1.0162  
Batch 17/248, train\_loss: 0.2793, step time: 1.0188  
Batch 18/248, train\_loss: 0.4492, step time: 1.0168  
Batch 19/248, train\_loss: 0.0876, step time: 1.0126  
Batch 20/248, train\_loss: 0.2027, step time: 1.0165  
Batch 21/248, train\_loss: 0.0625, step time: 1.0203  
Batch 22/248, train\_loss: 0.5964, step time: 1.0159  
Batch 23/248, train\_loss: 0.9968, step time: 1.0127  
Batch 24/248, train\_loss: 0.0792, step time: 1.0144  
Batch 25/248, train\_loss: 0.0622, step time: 1.0153  
Batch 26/248, train\_loss: 0.4023, step time: 1.0169  
Batch 27/248, train\_loss: 0.0746, step time: 1.0148  
Batch 28/248, train\_loss: 0.1702, step time: 1.0187  
Batch 29/248, train\_loss: 0.3425, step time: 1.0179  
Batch 30/248, train\_loss: 0.2139, step time: 1.0172  
Batch 31/248, train\_loss: 0.2870, step time: 1.0160  
Batch 32/248, train\_loss: 0.0692, step time: 1.0162  
Batch 33/248, train\_loss: 0.1043, step time: 1.0188  
Batch 34/248, train\_loss: 0.0463, step time: 1.0185  
Batch 35/248, train\_loss: 0.0365, step time: 1.0124  
Batch 36/248, train\_loss: 0.4054, step time: 1.0164  
Batch 37/248, train\_loss: 0.1537, step time: 1.0153  
Batch 38/248, train\_loss: 0.3160, step time: 1.0164  
Batch 39/248, train\_loss: 0.1896, step time: 1.0122  
Batch 40/248, train\_loss: 0.5019, step time: 1.0174  
Batch 41/248, train\_loss: 0.3388, step time: 1.0165  
Batch 42/248, train\_loss: 0.0713, step time: 1.0138  
Batch 43/248, train\_loss: 0.0628, step time: 1.0163  
Batch 44/248, train\_loss: 0.5282, step time: 1.0162  
Batch 45/248, train\_loss: 0.4225, step time: 1.0189  
Batch 46/248, train\_loss: 0.1710, step time: 1.0173  
Batch 47/248, train\_loss: 0.0639, step time: 1.0169  
Batch 48/248, train\_loss: 0.2285, step time: 1.0147  
Batch 49/248, train\_loss: 0.5486, step time: 1.0182  
Batch 50/248, train\_loss: 0.1305, step time: 1.0163  
Batch 51/248, train\_loss: 0.1490, step time: 1.0184  
Batch 52/248, train\_loss: 0.0919, step time: 1.0177  
Batch 53/248, train\_loss: 0.3868, step time: 1.0228  
Batch 54/248, train\_loss: 0.2351, step time: 1.0173  
Batch 55/248, train\_loss: 0.2264, step time: 1.0126  
Batch 56/248, train\_loss: 0.2128, step time: 1.0148  
Batch 57/248, train\_loss: 0.2743, step time: 1.0189  
Batch 58/248, train\_loss: 0.0758, step time: 1.0140  
Batch 59/248, train\_loss: 0.0847, step time: 1.0148  
Batch 60/248, train\_loss: 0.0502, step time: 1.0147  
Batch 61/248, train\_loss: 0.0792, step time: 1.0173  
Batch 62/248, train\_loss: 0.2107, step time: 1.0164  
Batch 63/248, train\_loss: 0.6701, step time: 1.0200  
Batch 64/248, train\_loss: 0.5022, step time: 1.0194  
Batch 65/248, train\_loss: 0.3034, step time: 1.0158  
Batch 66/248, train\_loss: 0.1590, step time: 1.0171  
Batch 67/248, train\_loss: 0.0667, step time: 1.0173  
Batch 68/248, train\_loss: 0.1647, step time: 1.0180  
Batch 69/248, train\_loss: 0.3104, step time: 1.0194  
Batch 70/248, train\_loss: 0.1280, step time: 1.0140  
Batch 71/248, train\_loss: 0.2100, step time: 1.0180  
Batch 72/248, train\_loss: 0.0641, step time: 1.0166  
Batch 73/248, train\_loss: 0.3253, step time: 1.0168  
Batch 74/248, train\_loss: 0.9949, step time: 1.0127

--  
Batch 75/248, train\_loss: 0.1379, step time: 1.0164  
Batch 76/248, train\_loss: 0.5372, step time: 1.0190  
Batch 77/248, train\_loss: 0.7653, step time: 1.0191  
Batch 78/248, train\_loss: 0.1346, step time: 1.0166  
Batch 79/248, train\_loss: 0.1333, step time: 1.0167  
Batch 80/248, train\_loss: 0.2032, step time: 1.0171  
Batch 81/248, train\_loss: 0.1669, step time: 1.0202  
Batch 82/248, train\_loss: 0.0797, step time: 1.0170  
Batch 83/248, train\_loss: 0.5475, step time: 1.0184  
Batch 84/248, train\_loss: 0.2731, step time: 1.0176  
Batch 85/248, train\_loss: 0.4415, step time: 1.0178  
Batch 86/248, train\_loss: 0.3216, step time: 1.0135  
Batch 87/248, train\_loss: 0.4596, step time: 1.0170  
Batch 88/248, train\_loss: 0.3017, step time: 1.0175  
Batch 89/248, train\_loss: 0.1004, step time: 1.0140  
Batch 90/248, train\_loss: 0.3283, step time: 1.0154  
Batch 91/248, train\_loss: 0.3599, step time: 1.0191  
Batch 92/248, train\_loss: 0.3519, step time: 1.0171  
Batch 93/248, train\_loss: 0.1346, step time: 1.0196  
Batch 94/248, train\_loss: 0.3088, step time: 1.0217  
Batch 95/248, train\_loss: 0.1619, step time: 1.0194  
Batch 96/248, train\_loss: 0.2003, step time: 1.0180  
Batch 97/248, train\_loss: 0.4295, step time: 1.0189  
Batch 98/248, train\_loss: 0.1025, step time: 1.0150  
Batch 99/248, train\_loss: 0.2796, step time: 1.0180  
Batch 100/248, train\_loss: 0.2165, step time: 1.0183  
Batch 101/248, train\_loss: 0.0527, step time: 1.0109  
Batch 102/248, train\_loss: 0.0971, step time: 1.0151  
Batch 103/248, train\_loss: 0.5754, step time: 1.0137  
Batch 104/248, train\_loss: 0.3230, step time: 1.0162  
Batch 105/248, train\_loss: 0.0809, step time: 1.0163  
Batch 106/248, train\_loss: 0.1807, step time: 1.0173  
Batch 107/248, train\_loss: 0.2419, step time: 1.0165  
Batch 108/248, train\_loss: 0.6973, step time: 1.0209  
Batch 109/248, train\_loss: 0.8313, step time: 1.0178  
Batch 110/248, train\_loss: 0.1921, step time: 1.0183  
Batch 111/248, train\_loss: 0.1099, step time: 1.0179  
Batch 112/248, train\_loss: 0.1095, step time: 1.0162  
Batch 113/248, train\_loss: 0.9188, step time: 1.0168  
Batch 114/248, train\_loss: 0.1476, step time: 1.0144  
Batch 115/248, train\_loss: 0.1461, step time: 1.0152  
Batch 116/248, train\_loss: 0.0861, step time: 1.0140  
Batch 117/248, train\_loss: 0.5924, step time: 1.0184  
Batch 118/248, train\_loss: 0.5948, step time: 1.0165  
Batch 119/248, train\_loss: 0.3441, step time: 1.0160  
Batch 120/248, train\_loss: 0.2284, step time: 1.0160  
Batch 121/248, train\_loss: 0.2720, step time: 1.0189  
Batch 122/248, train\_loss: 0.3307, step time: 1.0168  
Batch 123/248, train\_loss: 0.0754, step time: 1.0196  
Batch 124/248, train\_loss: 0.3539, step time: 1.0187  
Batch 125/248, train\_loss: 0.5896, step time: 1.0218  
Batch 126/248, train\_loss: 0.1584, step time: 1.0159  
Batch 127/248, train\_loss: 0.1094, step time: 1.0176  
Batch 128/248, train\_loss: 0.2631, step time: 1.0181  
Batch 129/248, train\_loss: 0.1137, step time: 1.0162  
Batch 130/248, train\_loss: 0.0828, step time: 1.0136  
Batch 131/248, train\_loss: 0.4338, step time: 1.0172  
Batch 132/248, train\_loss: 0.2890, step time: 1.0163  
Batch 133/248, train\_loss: 0.1322, step time: 1.0135  
Batch 134/248, train\_loss: 0.9712, step time: 1.0161  
Batch 135/248, train\_loss: 0.3298, step time: 1.0184  
Batch 136/248, train\_loss: 0.1019, step time: 1.0122  
Batch 137/248, train\_loss: 0.1072, step time: 1.0117  
Batch 138/248, train\_loss: 0.0644, step time: 1.0149  
Batch 139/248, train\_loss: 0.2015, step time: 1.0148  
Batch 140/248, train\_loss: 0.1871, step time: 1.0183  
Batch 141/248, train\_loss: 0.2407, step time: 1.0184  
Batch 142/248, train\_loss: 0.4157, step time: 1.0155  
Batch 143/248, train\_loss: 0.2289, step time: 1.0183  
Batch 144/248, train\_loss: 0.1275, step time: 1.0145  
Batch 145/248, train\_loss: 0.0529, step time: 1.0123  
Batch 146/248, train\_loss: 0.4006, step time: 1.0169  
Batch 147/248, train\_loss: 0.0368, step time: 1.0132  
Batch 148/248, train\_loss: 0.6757, step time: 1.0220  
Batch 149/248, train\_loss: 0.1095, step time: 1.0170  
Batch 150/248, train\_loss: 0.7052, step time: 1.0185  
Batch 151/248, train\_loss: 0.2785, step time: 1.0178  
Batch 152/248, train\_loss: 0.0371, step time: 1.0126  
Batch 153/248, train\_loss: 0.2408, step time: 1.0198  
Batch 154/248, train\_loss: 0.6952, step time: 1.0208  
Batch 155/248, train\_loss: 0.1578, step time: 1.0238  
Batch 156/248, train\_loss: 0.1697, step time: 1.0174  
Batch 157/248, train\_loss: 0.2339, step time: 1.0185  
Batch 158/248, train\_loss: 0.9910, step time: 1.0127  
Batch 159/248, train\_loss: 0.5771, step time: 1.0106

Batch 155/248, train\_loss: 0.2744, step time: 1.0160  
Batch 160/248, train\_loss: 0.1013, step time: 1.0162  
Batch 161/248, train\_loss: 0.0904, step time: 1.0140  
Batch 162/248, train\_loss: 0.0693, step time: 1.0160  
Batch 163/248, train\_loss: 0.1598, step time: 1.0164  
Batch 164/248, train\_loss: 0.1782, step time: 1.0177  
Batch 165/248, train\_loss: 0.4141, step time: 1.0189  
Batch 166/248, train\_loss: 0.0805, step time: 1.0190  
Batch 167/248, train\_loss: 0.1712, step time: 1.0168  
Batch 168/248, train\_loss: 0.1443, step time: 1.0168  
Batch 169/248, train\_loss: 0.0797, step time: 1.0152  
Batch 170/248, train\_loss: 0.6128, step time: 1.0164  
Batch 171/248, train\_loss: 0.0921, step time: 1.0160  
Batch 172/248, train\_loss: 0.3081, step time: 1.0192  
Batch 173/248, train\_loss: 0.1001, step time: 1.0174  
Batch 174/248, train\_loss: 0.4658, step time: 1.0160  
Batch 175/248, train\_loss: 0.1717, step time: 1.0211  
Batch 176/248, train\_loss: 0.3777, step time: 1.0181  
Batch 177/248, train\_loss: 0.2094, step time: 1.0171  
Batch 178/248, train\_loss: 0.4677, step time: 1.0161  
Batch 179/248, train\_loss: 0.0945, step time: 1.0161  
Batch 180/248, train\_loss: 0.3419, step time: 1.0168  
Batch 181/248, train\_loss: 0.1145, step time: 1.0129  
Batch 182/248, train\_loss: 0.9915, step time: 1.0136  
Batch 183/248, train\_loss: 0.1278, step time: 1.0175  
Batch 184/248, train\_loss: 0.2955, step time: 1.0168  
Batch 185/248, train\_loss: 0.0976, step time: 1.0180  
Batch 186/248, train\_loss: 0.0990, step time: 1.0162  
Batch 187/248, train\_loss: 0.1553, step time: 1.0154  
Batch 188/248, train\_loss: 0.3677, step time: 1.0150  
Batch 189/248, train\_loss: 0.3994, step time: 1.0155  
Batch 190/248, train\_loss: 0.1369, step time: 1.0157  
Batch 191/248, train\_loss: 0.5748, step time: 1.0171  
Batch 192/248, train\_loss: 0.3203, step time: 1.0164  
Batch 193/248, train\_loss: 0.2752, step time: 1.0165  
Batch 194/248, train\_loss: 0.0814, step time: 1.0166  
Batch 195/248, train\_loss: 0.6013, step time: 1.0172  
Batch 196/248, train\_loss: 0.9993, step time: 1.0119  
Batch 197/248, train\_loss: 0.1647, step time: 1.0184  
Batch 198/248, train\_loss: 0.6347, step time: 1.0187  
Batch 199/248, train\_loss: 0.1455, step time: 1.0170  
Batch 200/248, train\_loss: 0.1454, step time: 1.0152  
Batch 201/248, train\_loss: 0.1222, step time: 1.0151  
Batch 202/248, train\_loss: 0.3573, step time: 1.0162  
Batch 203/248, train\_loss: 0.4420, step time: 1.0178  
Batch 204/248, train\_loss: 0.0896, step time: 1.0137  
Batch 205/248, train\_loss: 0.2166, step time: 1.0126  
Batch 206/248, train\_loss: 0.3188, step time: 1.0164  
Batch 207/248, train\_loss: 0.0806, step time: 1.0202  
Batch 208/248, train\_loss: 0.1440, step time: 1.0168  
Batch 209/248, train\_loss: 0.1586, step time: 1.0191  
Batch 210/248, train\_loss: 0.0591, step time: 1.0143  
Batch 211/248, train\_loss: 0.0613, step time: 1.0137  
Batch 212/248, train\_loss: 0.2506, step time: 1.0152  
Batch 213/248, train\_loss: 0.1506, step time: 1.0173  
Batch 214/248, train\_loss: 0.0659, step time: 1.0160  
Batch 215/248, train\_loss: 0.1635, step time: 1.0150  
Batch 216/248, train\_loss: 0.1105, step time: 1.0162  
Batch 217/248, train\_loss: 0.2386, step time: 1.0193  
Batch 218/248, train\_loss: 0.7790, step time: 1.0197  
Batch 219/248, train\_loss: 0.0705, step time: 1.0170  
Batch 220/248, train\_loss: 0.2020, step time: 1.0202  
Batch 221/248, train\_loss: 0.2600, step time: 1.0178  
Batch 222/248, train\_loss: 0.2023, step time: 1.0174  
Batch 223/248, train\_loss: 0.0418, step time: 1.0154  
Batch 224/248, train\_loss: 0.0864, step time: 1.0157  
Batch 225/248, train\_loss: 0.1415, step time: 1.0195  
Batch 226/248, train\_loss: 0.1151, step time: 1.0188  
Batch 227/248, train\_loss: 0.0769, step time: 1.0140  
Batch 228/248, train\_loss: 0.1254, step time: 1.0141  
Batch 229/248, train\_loss: 0.1013, step time: 1.0159  
Batch 230/248, train\_loss: 0.0710, step time: 1.0159  
Batch 231/248, train\_loss: 0.7475, step time: 1.0169  
Batch 232/248, train\_loss: 0.0789, step time: 1.0148  
Batch 233/248, train\_loss: 0.7693, step time: 1.0190  
Batch 234/248, train\_loss: 0.4083, step time: 1.0179  
Batch 235/248, train\_loss: 0.4403, step time: 1.0184  
Batch 236/248, train\_loss: 0.7109, step time: 1.0160  
Batch 237/248, train\_loss: 0.0957, step time: 1.0183  
Batch 238/248, train\_loss: 0.0992, step time: 1.0169  
Batch 239/248, train\_loss: 0.0669, step time: 1.0168  
Batch 240/248, train\_loss: 0.3115, step time: 1.0168  
Batch 241/248, train\_loss: 0.5298, step time: 1.0196  
Batch 242/248, train\_loss: 0.1900, step time: 1.0177  
Batch 243/248, train\_loss: 0.4610, step time: 1.0175

```
Batch 244/248, train_loss: 0.5829, step time: 1.0171  
Batch 245/248, train_loss: 0.0645, step time: 1.0115  
Batch 246/248, train_loss: 0.4918, step time: 1.0155  
Batch 247/248, train_loss: 0.0801, step time: 1.0146  
Batch 248/248, train_loss: 0.9999, step time: 1.0043
```

Labels



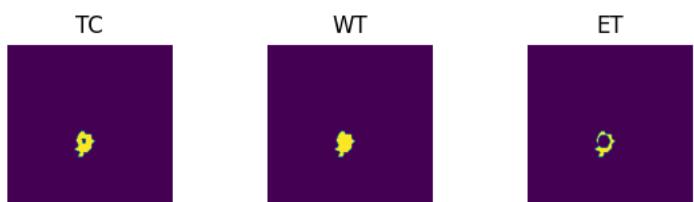
Predictions



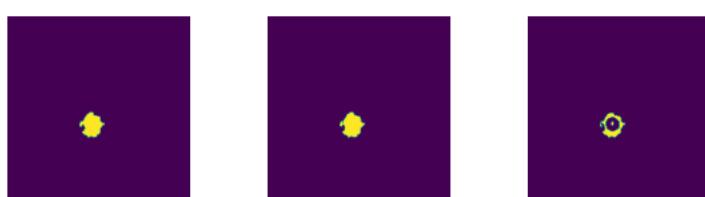
VAL

```
Batch 1/31, val_loss: 0.9210  
Batch 2/31, val_loss: 0.9904  
Batch 3/31, val_loss: 0.9597  
Batch 4/31, val_loss: 0.9372  
Batch 5/31, val_loss: 0.9906  
Batch 6/31, val_loss: 0.6981  
Batch 7/31, val_loss: 0.8303  
Batch 8/31, val_loss: 0.9481  
Batch 9/31, val_loss: 0.6907  
Batch 10/31, val_loss: 0.9849  
Batch 11/31, val_loss: 0.8266  
Batch 12/31, val_loss: 0.9704  
Batch 13/31, val_loss: 0.9871  
Batch 14/31, val_loss: 0.9377  
Batch 15/31, val_loss: 0.9897  
Batch 16/31, val_loss: 0.9747  
Batch 17/31, val_loss: 0.9688  
Batch 18/31, val_loss: 0.9341  
Batch 19/31, val_loss: 0.7363  
Batch 20/31, val_loss: 0.8745  
Batch 21/31, val_loss: 0.8594  
Batch 22/31, val_loss: 0.9748  
Batch 23/31, val_loss: 0.9749  
Batch 24/31, val_loss: 0.7447  
Batch 25/31, val_loss: 0.7969  
Batch 26/31, val_loss: 0.9161  
Batch 27/31, val_loss: 0.9658  
Batch 28/31, val_loss: 0.7549  
Batch 29/31, val_loss: 0.9847  
Batch 30/31, val_loss: 0.9575  
Batch 31/31, val_loss: 0.9821
```

Labels



Predictions



epoch 76

average train loss: 0.2788

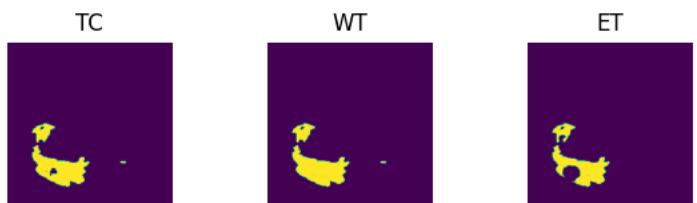
```
average validation loss: 0.9027
saved as best model: False
current mean dice: 0.4993
current TC dice: 0.5093
current WT dice: 0.5181
current ET dice: 0.5144
Best Mean Metric: 0.5258
time consuming of epoch 76 is: 1575.1558
-----
epoch 77/100
TRAIN
Batch 1/248, train_loss: 0.0969, step time: 1.0182
Batch 2/248, train_loss: 0.7908, step time: 1.0241
Batch 3/248, train_loss: 0.2808, step time: 1.0172
Batch 4/248, train_loss: 0.8890, step time: 1.0174
Batch 5/248, train_loss: 0.2023, step time: 1.0175
Batch 6/248, train_loss: 0.4501, step time: 1.0180
Batch 7/248, train_loss: 0.0600, step time: 1.0178
Batch 8/248, train_loss: 0.7203, step time: 1.0121
Batch 9/248, train_loss: 0.0447, step time: 1.0163
Batch 10/248, train_loss: 0.2225, step time: 1.0214
Batch 11/248, train_loss: 0.1744, step time: 1.0201
Batch 12/248, train_loss: 0.3879, step time: 1.0194
Batch 13/248, train_loss: 0.3005, step time: 1.0184
Batch 14/248, train_loss: 0.0537, step time: 1.0188
Batch 15/248, train_loss: 0.3124, step time: 1.0165
Batch 16/248, train_loss: 0.1423, step time: 1.0161
Batch 17/248, train_loss: 0.2158, step time: 1.0174
Batch 18/248, train_loss: 0.4105, step time: 1.0141
Batch 19/248, train_loss: 0.1035, step time: 1.0163
Batch 20/248, train_loss: 0.1650, step time: 1.0163
Batch 21/248, train_loss: 0.0564, step time: 1.0149
Batch 22/248, train_loss: 0.3904, step time: 1.0215
Batch 23/248, train_loss: 0.9968, step time: 1.0125
Batch 24/248, train_loss: 0.0771, step time: 1.0144
Batch 25/248, train_loss: 0.0643, step time: 1.0161
Batch 26/248, train_loss: 0.4190, step time: 1.0189
Batch 27/248, train_loss: 0.0680, step time: 1.0130
Batch 28/248, train_loss: 0.1506, step time: 1.0176
Batch 29/248, train_loss: 0.2864, step time: 1.0167
Batch 30/248, train_loss: 0.5052, step time: 1.0212
Batch 31/248, train_loss: 0.3455, step time: 1.0214
Batch 32/248, train_loss: 0.0835, step time: 1.0161
Batch 33/248, train_loss: 0.0745, step time: 1.0132
Batch 34/248, train_loss: 0.0446, step time: 1.0140
Batch 35/248, train_loss: 0.0464, step time: 1.0167
Batch 36/248, train_loss: 0.3734, step time: 1.0198
Batch 37/248, train_loss: 0.1586, step time: 1.0132
Batch 38/248, train_loss: 0.3007, step time: 1.0148
Batch 39/248, train_loss: 0.1775, step time: 1.0161
Batch 40/248, train_loss: 0.5620, step time: 1.0183
Batch 41/248, train_loss: 0.3340, step time: 1.0196
Batch 42/248, train_loss: 0.0628, step time: 1.0169
Batch 43/248, train_loss: 0.0507, step time: 1.0116
Batch 44/248, train_loss: 0.3555, step time: 1.0186
Batch 45/248, train_loss: 0.4034, step time: 1.0162
Batch 46/248, train_loss: 0.1597, step time: 1.0172
Batch 47/248, train_loss: 0.0697, step time: 1.0153
Batch 48/248, train_loss: 0.2336, step time: 1.0151
Batch 49/248, train_loss: 0.5391, step time: 1.0171
Batch 50/248, train_loss: 0.1438, step time: 1.0137
Batch 51/248, train_loss: 0.1143, step time: 1.0172
Batch 52/248, train_loss: 0.0898, step time: 1.0197
Batch 53/248, train_loss: 0.3693, step time: 1.0187
Batch 54/248, train_loss: 0.2304, step time: 1.0197
Batch 55/248, train_loss: 0.2845, step time: 1.0193
Batch 56/248, train_loss: 0.1991, step time: 1.0175
Batch 57/248, train_loss: 0.3123, step time: 1.0178
Batch 58/248, train_loss: 0.0831, step time: 1.0161
Batch 59/248, train_loss: 0.0844, step time: 1.0144
Batch 60/248, train_loss: 0.0506, step time: 1.0124
Batch 61/248, train_loss: 0.0878, step time: 1.0111
Batch 62/248, train_loss: 0.2078, step time: 1.0165
Batch 63/248, train_loss: 0.6555, step time: 1.0182
Batch 64/248, train_loss: 0.3013, step time: 1.0172
Batch 65/248, train_loss: 0.3948, step time: 1.0182
Batch 66/248, train_loss: 0.1433, step time: 1.0197
Batch 67/248, train_loss: 0.0661, step time: 1.0143
Batch 68/248, train_loss: 0.2049, step time: 1.0173
Batch 69/248, train_loss: 0.3117, step time: 1.0211
Batch 70/248, train_loss: 0.1195, step time: 1.0171
Batch 71/248, train_loss: 0.1312, step time: 1.0169
Batch 72/248, train_loss: 0.0627, step time: 1.0157
Batch 73/248, train_loss: 0.2080, step time: 1.0164
```

Batch 74/248, train\_loss: 0.9911, step time: 1.0095  
Batch 75/248, train\_loss: 0.1196, step time: 1.0149  
Batch 76/248, train\_loss: 0.4890, step time: 1.0194  
Batch 77/248, train\_loss: 0.7873, step time: 1.0203  
Batch 78/248, train\_loss: 0.1163, step time: 1.0167  
Batch 79/248, train\_loss: 0.1446, step time: 1.0193  
Batch 80/248, train\_loss: 0.1827, step time: 1.0173  
Batch 81/248, train\_loss: 0.1551, step time: 1.0200  
Batch 82/248, train\_loss: 0.0729, step time: 1.0132  
Batch 83/248, train\_loss: 0.4666, step time: 1.0197  
Batch 84/248, train\_loss: 0.3158, step time: 1.0187  
Batch 85/248, train\_loss: 0.3064, step time: 1.0179  
Batch 86/248, train\_loss: 0.2966, step time: 1.0184  
Batch 87/248, train\_loss: 0.4586, step time: 1.0272  
Batch 88/248, train\_loss: 0.3206, step time: 1.0177  
Batch 89/248, train\_loss: 0.0938, step time: 1.0166  
Batch 90/248, train\_loss: 0.3271, step time: 1.0186  
Batch 91/248, train\_loss: 0.3524, step time: 1.0195  
Batch 92/248, train\_loss: 0.2604, step time: 1.0181  
Batch 93/248, train\_loss: 0.1509, step time: 1.0153  
Batch 94/248, train\_loss: 0.2714, step time: 1.0221  
Batch 95/248, train\_loss: 0.1724, step time: 1.0170  
Batch 96/248, train\_loss: 0.1327, step time: 1.0162  
Batch 97/248, train\_loss: 0.4357, step time: 1.0196  
Batch 98/248, train\_loss: 0.1090, step time: 1.0203  
Batch 99/248, train\_loss: 0.3281, step time: 1.0182  
Batch 100/248, train\_loss: 0.2506, step time: 1.0171  
Batch 101/248, train\_loss: 0.0552, step time: 1.0151  
Batch 102/248, train\_loss: 0.0977, step time: 1.0115  
Batch 103/248, train\_loss: 0.2933, step time: 1.0177  
Batch 104/248, train\_loss: 0.3380, step time: 1.0187  
Batch 105/248, train\_loss: 0.0743, step time: 1.0150  
Batch 106/248, train\_loss: 0.1490, step time: 1.0180  
Batch 107/248, train\_loss: 0.2433, step time: 1.0168  
Batch 108/248, train\_loss: 0.4390, step time: 1.0229  
Batch 109/248, train\_loss: 0.9410, step time: 1.0194  
Batch 110/248, train\_loss: 0.2058, step time: 1.0238  
Batch 111/248, train\_loss: 0.0936, step time: 1.0161  
Batch 112/248, train\_loss: 0.1522, step time: 1.0143  
Batch 113/248, train\_loss: 0.8440, step time: 1.0186  
Batch 114/248, train\_loss: 0.1409, step time: 1.0131  
Batch 115/248, train\_loss: 0.1479, step time: 1.0169  
Batch 116/248, train\_loss: 0.0769, step time: 1.0146  
Batch 117/248, train\_loss: 0.5943, step time: 1.0181  
Batch 118/248, train\_loss: 0.4405, step time: 1.0182  
Batch 119/248, train\_loss: 0.2595, step time: 1.0162  
Batch 120/248, train\_loss: 0.2133, step time: 1.0139  
Batch 121/248, train\_loss: 0.2581, step time: 1.0178  
Batch 122/248, train\_loss: 0.4160, step time: 1.0158  
Batch 123/248, train\_loss: 0.0852, step time: 1.0168  
Batch 124/248, train\_loss: 0.2752, step time: 1.0185  
Batch 125/248, train\_loss: 0.5421, step time: 1.0199  
Batch 126/248, train\_loss: 0.1778, step time: 1.0175  
Batch 127/248, train\_loss: 0.1049, step time: 1.0171  
Batch 128/248, train\_loss: 0.2714, step time: 1.0206  
Batch 129/248, train\_loss: 0.1099, step time: 1.0163  
Batch 130/248, train\_loss: 0.0861, step time: 1.0125  
Batch 131/248, train\_loss: 0.5059, step time: 1.0169  
Batch 132/248, train\_loss: 0.3387, step time: 1.0174  
Batch 133/248, train\_loss: 0.1335, step time: 1.0136  
Batch 134/248, train\_loss: 0.8673, step time: 1.0188  
Batch 135/248, train\_loss: 0.2393, step time: 1.0175  
Batch 136/248, train\_loss: 0.1170, step time: 1.0167  
Batch 137/248, train\_loss: 0.1117, step time: 1.0152  
Batch 138/248, train\_loss: 0.0675, step time: 1.0149  
Batch 139/248, train\_loss: 0.3122, step time: 1.0189  
Batch 140/248, train\_loss: 0.2139, step time: 1.0180  
Batch 141/248, train\_loss: 0.2518, step time: 1.0183  
Batch 142/248, train\_loss: 0.4866, step time: 1.0181  
Batch 143/248, train\_loss: 0.2635, step time: 1.0177  
Batch 144/248, train\_loss: 0.1214, step time: 1.0148  
Batch 145/248, train\_loss: 0.0649, step time: 1.0149  
Batch 146/248, train\_loss: 0.5586, step time: 1.0165  
Batch 147/248, train\_loss: 0.0388, step time: 1.0140  
Batch 148/248, train\_loss: 0.6125, step time: 1.0195  
Batch 149/248, train\_loss: 0.1048, step time: 1.0148  
Batch 150/248, train\_loss: 0.6768, step time: 1.0166  
Batch 151/248, train\_loss: 0.3440, step time: 1.0153  
Batch 152/248, train\_loss: 0.0404, step time: 1.0130  
Batch 153/248, train\_loss: 0.1978, step time: 1.0173  
Batch 154/248, train\_loss: 0.6421, step time: 1.0184  
Batch 155/248, train\_loss: 0.1606, step time: 1.0177  
Batch 156/248, train\_loss: 0.3826, step time: 1.0169  
Batch 157/248, train\_loss: 0.2125, step time: 1.0167  
Batch 158/248, train\_loss: 0.9737, step time: 1.0225

Batch 159/248, train\_loss: 0.3396, step time: 1.0198  
Batch 160/248, train\_loss: 0.1095, step time: 1.0169  
Batch 161/248, train\_loss: 0.0861, step time: 1.0147  
Batch 162/248, train\_loss: 0.0682, step time: 1.0158  
Batch 163/248, train\_loss: 0.1307, step time: 1.0182  
Batch 164/248, train\_loss: 0.1566, step time: 1.0153  
Batch 165/248, train\_loss: 0.4350, step time: 1.0182  
Batch 166/248, train\_loss: 0.0850, step time: 1.0160  
Batch 167/248, train\_loss: 0.1475, step time: 1.0163  
Batch 168/248, train\_loss: 0.1404, step time: 1.0185  
Batch 169/248, train\_loss: 0.1003, step time: 1.0165  
Batch 170/248, train\_loss: 0.5883, step time: 1.0143  
Batch 171/248, train\_loss: 0.0930, step time: 1.0124  
Batch 172/248, train\_loss: 0.3782, step time: 1.0196  
Batch 173/248, train\_loss: 0.0841, step time: 1.0158  
Batch 174/248, train\_loss: 0.8099, step time: 1.0180  
Batch 175/248, train\_loss: 0.1582, step time: 1.0158  
Batch 176/248, train\_loss: 0.3042, step time: 1.0182  
Batch 177/248, train\_loss: 0.2188, step time: 1.0208  
Batch 178/248, train\_loss: 0.2559, step time: 1.0192  
Batch 179/248, train\_loss: 0.0904, step time: 1.0163  
Batch 180/248, train\_loss: 0.3517, step time: 1.0177  
Batch 181/248, train\_loss: 0.1351, step time: 1.0164  
Batch 182/248, train\_loss: 0.9040, step time: 1.0179  
Batch 183/248, train\_loss: 0.1291, step time: 1.0175  
Batch 184/248, train\_loss: 0.2980, step time: 1.0166  
Batch 185/248, train\_loss: 0.0900, step time: 1.0148  
Batch 186/248, train\_loss: 0.0848, step time: 1.0146  
Batch 187/248, train\_loss: 0.2099, step time: 1.0155  
Batch 188/248, train\_loss: 0.2756, step time: 1.0187  
Batch 189/248, train\_loss: 0.4358, step time: 1.0169  
Batch 190/248, train\_loss: 0.1258, step time: 1.0153  
Batch 191/248, train\_loss: 0.5787, step time: 1.0188  
Batch 192/248, train\_loss: 0.2524, step time: 1.0170  
Batch 193/248, train\_loss: 0.2669, step time: 1.0175  
Batch 194/248, train\_loss: 0.0867, step time: 1.0173  
Batch 195/248, train\_loss: 0.7072, step time: 1.0180  
Batch 196/248, train\_loss: 0.9904, step time: 1.0140  
Batch 197/248, train\_loss: 0.2341, step time: 1.0182  
Batch 198/248, train\_loss: 0.5048, step time: 1.0214  
Batch 199/248, train\_loss: 0.1426, step time: 1.0177  
Batch 200/248, train\_loss: 0.1224, step time: 1.0160  
Batch 201/248, train\_loss: 0.1170, step time: 1.0185  
Batch 202/248, train\_loss: 0.3191, step time: 1.0158  
Batch 203/248, train\_loss: 0.5071, step time: 1.0176  
Batch 204/248, train\_loss: 0.0837, step time: 1.0177  
Batch 205/248, train\_loss: 0.2144, step time: 1.0170  
Batch 206/248, train\_loss: 0.3107, step time: 1.0173  
Batch 207/248, train\_loss: 0.0982, step time: 1.0134  
Batch 208/248, train\_loss: 0.1467, step time: 1.0130  
Batch 209/248, train\_loss: 0.1439, step time: 1.0160  
Batch 210/248, train\_loss: 0.0644, step time: 1.0169  
Batch 211/248, train\_loss: 0.0585, step time: 1.0126  
Batch 212/248, train\_loss: 0.3259, step time: 1.0176  
Batch 213/248, train\_loss: 0.1582, step time: 1.0182  
Batch 214/248, train\_loss: 0.0695, step time: 1.0150  
Batch 215/248, train\_loss: 0.1530, step time: 1.0178  
Batch 216/248, train\_loss: 0.1983, step time: 1.0170  
Batch 217/248, train\_loss: 0.2426, step time: 1.0214  
Batch 218/248, train\_loss: 0.8624, step time: 1.0246  
Batch 219/248, train\_loss: 0.0567, step time: 1.0173  
Batch 220/248, train\_loss: 0.1906, step time: 1.0207  
Batch 221/248, train\_loss: 0.2771, step time: 1.0177  
Batch 222/248, train\_loss: 0.2019, step time: 1.0150  
Batch 223/248, train\_loss: 0.0398, step time: 1.0123  
Batch 224/248, train\_loss: 0.0779, step time: 1.0155  
Batch 225/248, train\_loss: 0.1377, step time: 1.0155  
Batch 226/248, train\_loss: 0.1447, step time: 1.0163  
Batch 227/248, train\_loss: 0.0847, step time: 1.0120  
Batch 228/248, train\_loss: 0.1299, step time: 1.0123  
Batch 229/248, train\_loss: 0.1074, step time: 1.0147  
Batch 230/248, train\_loss: 0.0732, step time: 1.0170  
Batch 231/248, train\_loss: 0.2925, step time: 1.0173  
Batch 232/248, train\_loss: 0.0867, step time: 1.0160  
Batch 233/248, train\_loss: 0.7631, step time: 1.0182  
Batch 234/248, train\_loss: 0.4790, step time: 1.0196  
Batch 235/248, train\_loss: 0.2935, step time: 1.0178  
Batch 236/248, train\_loss: 0.7189, step time: 1.0222  
Batch 237/248, train\_loss: 0.0952, step time: 1.0168  
Batch 238/248, train\_loss: 0.0950, step time: 1.0196  
Batch 239/248, train\_loss: 0.0673, step time: 1.0165  
Batch 240/248, train\_loss: 0.2795, step time: 1.0167  
Batch 241/248, train\_loss: 0.3802, step time: 1.0166  
Batch 242/248, train\_loss: 0.1294, step time: 1.0157  
Batch 243/248, train\_loss: 0.5207, step time: 1.0176

```
Batch 244/248, train_loss: 0.4889, step time: 1.0164  
Batch 245/248, train_loss: 0.0626, step time: 1.0106  
Batch 246/248, train_loss: 0.5450, step time: 1.0206  
Batch 247/248, train_loss: 0.0761, step time: 1.0119  
Batch 248/248, train_loss: 0.9999, step time: 1.0067
```

Labels



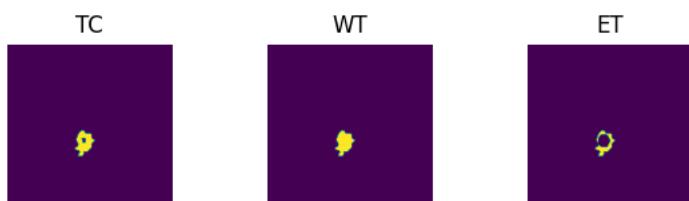
Predictions



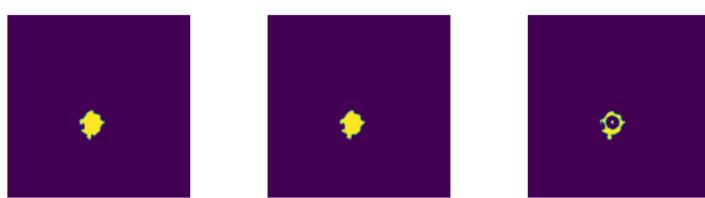
VAL

```
Batch 1/31, val_loss: 0.9597  
Batch 2/31, val_loss: 0.9907  
Batch 3/31, val_loss: 0.9613  
Batch 4/31, val_loss: 0.9386  
Batch 5/31, val_loss: 0.9916  
Batch 6/31, val_loss: 0.6997  
Batch 7/31, val_loss: 0.8340  
Batch 8/31, val_loss: 0.9619  
Batch 9/31, val_loss: 0.6918  
Batch 10/31, val_loss: 0.9035  
Batch 11/31, val_loss: 0.8241  
Batch 12/31, val_loss: 0.9708  
Batch 13/31, val_loss: 0.9883  
Batch 14/31, val_loss: 0.9381  
Batch 15/31, val_loss: 0.9947  
Batch 16/31, val_loss: 0.9743  
Batch 17/31, val_loss: 0.9719  
Batch 18/31, val_loss: 0.9373  
Batch 19/31, val_loss: 0.7409  
Batch 20/31, val_loss: 0.8741  
Batch 21/31, val_loss: 0.8580  
Batch 22/31, val_loss: 0.9690  
Batch 23/31, val_loss: 0.9778  
Batch 24/31, val_loss: 0.7429  
Batch 25/31, val_loss: 0.7954  
Batch 26/31, val_loss: 0.9156  
Batch 27/31, val_loss: 0.9653  
Batch 28/31, val_loss: 0.7416  
Batch 29/31, val_loss: 0.9811  
Batch 30/31, val_loss: 0.9568  
Batch 31/31, val_loss: 0.9820
```

Labels



Predictions



epoch 77

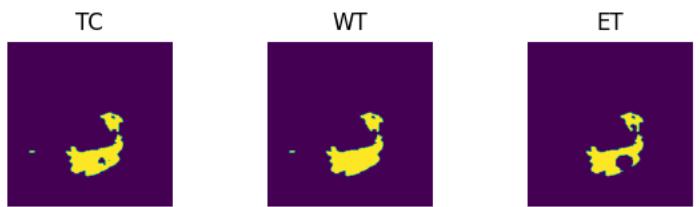
```
average train loss: 0.2711
average validation loss: 0.9043
saved as best model: False
current mean dice: 0.4994
current TC dice: 0.5167
current WT dice: 0.5277
current ET dice: 0.4976
Best Mean Metric: 0.5258
time consuming of epoch 77 is: 1569.6496
-----
epoch 78/100
TRAIN
Batch 1/248, train_loss: 0.0893, step time: 1.0152
Batch 2/248, train_loss: 0.6356, step time: 1.0195
Batch 3/248, train_loss: 0.2673, step time: 1.0162
Batch 4/248, train_loss: 0.8266, step time: 1.0169
Batch 5/248, train_loss: 0.1780, step time: 1.0139
Batch 6/248, train_loss: 0.3357, step time: 1.0171
Batch 7/248, train_loss: 0.0624, step time: 1.0133
Batch 8/248, train_loss: 0.7056, step time: 1.0159
Batch 9/248, train_loss: 0.0465, step time: 1.0135
Batch 10/248, train_loss: 0.2284, step time: 1.0158
Batch 11/248, train_loss: 0.1900, step time: 1.0161
Batch 12/248, train_loss: 0.3725, step time: 1.0199
Batch 13/248, train_loss: 0.2579, step time: 1.0188
Batch 14/248, train_loss: 0.0553, step time: 1.0141
Batch 15/248, train_loss: 0.2911, step time: 1.0189
Batch 16/248, train_loss: 0.1355, step time: 1.0137
Batch 17/248, train_loss: 0.2783, step time: 1.0173
Batch 18/248, train_loss: 0.4170, step time: 1.0177
Batch 19/248, train_loss: 0.0967, step time: 1.0138
Batch 20/248, train_loss: 0.2041, step time: 1.0160
Batch 21/248, train_loss: 0.0646, step time: 1.0129
Batch 22/248, train_loss: 0.3424, step time: 1.0194
Batch 23/248, train_loss: 0.9965, step time: 1.0168
Batch 24/248, train_loss: 0.0676, step time: 1.0159
Batch 25/248, train_loss: 0.0566, step time: 1.0137
Batch 26/248, train_loss: 0.3570, step time: 1.0147
Batch 27/248, train_loss: 0.0690, step time: 1.0167
Batch 28/248, train_loss: 0.1612, step time: 1.0191
Batch 29/248, train_loss: 0.3233, step time: 1.0175
Batch 30/248, train_loss: 0.2253, step time: 1.0172
Batch 31/248, train_loss: 0.3699, step time: 1.0176
Batch 32/248, train_loss: 0.0699, step time: 1.0147
Batch 33/248, train_loss: 0.0637, step time: 1.0151
Batch 34/248, train_loss: 0.0434, step time: 1.0118
Batch 35/248, train_loss: 0.0410, step time: 1.0143
Batch 36/248, train_loss: 0.3460, step time: 1.0189
Batch 37/248, train_loss: 0.1499, step time: 1.0133
Batch 38/248, train_loss: 0.2647, step time: 1.0160
Batch 39/248, train_loss: 0.1791, step time: 1.0151
Batch 40/248, train_loss: 0.6140, step time: 1.0159
Batch 41/248, train_loss: 0.2357, step time: 1.0170
Batch 42/248, train_loss: 0.0779, step time: 1.0167
Batch 43/248, train_loss: 0.0507, step time: 1.0153
Batch 44/248, train_loss: 0.3319, step time: 1.0176
Batch 45/248, train_loss: 0.3734, step time: 1.0154
Batch 46/248, train_loss: 0.1600, step time: 1.0179
Batch 47/248, train_loss: 0.0970, step time: 1.0180
Batch 48/248, train_loss: 0.2169, step time: 1.0175
Batch 49/248, train_loss: 0.5843, step time: 1.0211
Batch 50/248, train_loss: 0.1253, step time: 1.0272
Batch 51/248, train_loss: 0.1240, step time: 1.0144
Batch 52/248, train_loss: 0.1024, step time: 1.0184
Batch 53/248, train_loss: 0.3513, step time: 1.0214
Batch 54/248, train_loss: 0.2380, step time: 1.0165
Batch 55/248, train_loss: 0.2896, step time: 1.0178
Batch 56/248, train_loss: 0.2615, step time: 1.0142
Batch 57/248, train_loss: 0.2646, step time: 1.0173
Batch 58/248, train_loss: 0.0688, step time: 1.0144
Batch 59/248, train_loss: 0.0843, step time: 1.0142
Batch 60/248, train_loss: 0.0527, step time: 1.0135
Batch 61/248, train_loss: 0.0881, step time: 1.0128
Batch 62/248, train_loss: 0.1953, step time: 1.0137
Batch 63/248, train_loss: 0.5785, step time: 1.0154
Batch 64/248, train_loss: 0.2927, step time: 1.0220
Batch 65/248, train_loss: 0.2508, step time: 1.0161
Batch 66/248, train_loss: 0.1436, step time: 1.0179
Batch 67/248, train_loss: 0.0667, step time: 1.0117
Batch 68/248, train_loss: 0.1734, step time: 1.0152
Batch 69/248, train_loss: 0.3494, step time: 1.0229
Batch 70/248, train_loss: 0.1442, step time: 1.0172
Batch 71/248, train_loss: 0.1230, step time: 1.0139
Batch 72/248, train_loss: 0.0574, step time: 1.0138
Batch 73/248, train_loss: 0.2751, step time: 1.0156
```

Batch 74/248, train\_loss: 0.9980, step time: 1.0126  
Batch 75/248, train\_loss: 0.1191, step time: 1.0178  
Batch 76/248, train\_loss: 0.5143, step time: 1.0234  
Batch 77/248, train\_loss: 0.7351, step time: 1.0179  
Batch 78/248, train\_loss: 0.1134, step time: 1.0181  
Batch 79/248, train\_loss: 0.1420, step time: 1.0175  
Batch 80/248, train\_loss: 0.1843, step time: 1.0169  
Batch 81/248, train\_loss: 0.2922, step time: 1.0172  
Batch 82/248, train\_loss: 0.0760, step time: 1.0154  
Batch 83/248, train\_loss: 0.4425, step time: 1.0188  
Batch 84/248, train\_loss: 0.2563, step time: 1.0180  
Batch 85/248, train\_loss: 0.3126, step time: 1.0191  
Batch 86/248, train\_loss: 0.3315, step time: 1.0140  
Batch 87/248, train\_loss: 0.5156, step time: 1.0158  
Batch 88/248, train\_loss: 0.3252, step time: 1.0174  
Batch 89/248, train\_loss: 0.0887, step time: 1.0243  
Batch 90/248, train\_loss: 0.2022, step time: 1.0144  
Batch 91/248, train\_loss: 0.4936, step time: 1.0187  
Batch 92/248, train\_loss: 0.2575, step time: 1.0176  
Batch 93/248, train\_loss: 0.1427, step time: 1.0130  
Batch 94/248, train\_loss: 0.2462, step time: 1.0141  
Batch 95/248, train\_loss: 0.1692, step time: 1.0131  
Batch 96/248, train\_loss: 0.1657, step time: 1.0175  
Batch 97/248, train\_loss: 0.2889, step time: 1.0191  
Batch 98/248, train\_loss: 0.1091, step time: 1.0209  
Batch 99/248, train\_loss: 0.3192, step time: 1.0174  
Batch 100/248, train\_loss: 0.2940, step time: 1.0173  
Batch 101/248, train\_loss: 0.0644, step time: 1.0146  
Batch 102/248, train\_loss: 0.1345, step time: 1.0130  
Batch 103/248, train\_loss: 0.6256, step time: 1.0165  
Batch 104/248, train\_loss: 0.3222, step time: 1.0163  
Batch 105/248, train\_loss: 0.0726, step time: 1.0135  
Batch 106/248, train\_loss: 0.1513, step time: 1.0160  
Batch 107/248, train\_loss: 0.2669, step time: 1.0178  
Batch 108/248, train\_loss: 0.5212, step time: 1.0177  
Batch 109/248, train\_loss: 0.8212, step time: 1.0176  
Batch 110/248, train\_loss: 0.2105, step time: 1.0194  
Batch 111/248, train\_loss: 0.1100, step time: 1.0157  
Batch 112/248, train\_loss: 0.1466, step time: 1.0183  
Batch 113/248, train\_loss: 0.7950, step time: 1.0158  
Batch 114/248, train\_loss: 0.1352, step time: 1.0160  
Batch 115/248, train\_loss: 0.2159, step time: 1.0147  
Batch 116/248, train\_loss: 0.0858, step time: 1.0120  
Batch 117/248, train\_loss: 0.6198, step time: 1.0154  
Batch 118/248, train\_loss: 0.6283, step time: 1.0172  
Batch 119/248, train\_loss: 0.4652, step time: 1.0161  
Batch 120/248, train\_loss: 0.2386, step time: 1.0159  
Batch 121/248, train\_loss: 0.2697, step time: 1.0170  
Batch 122/248, train\_loss: 0.4261, step time: 1.0195  
Batch 123/248, train\_loss: 0.1173, step time: 1.0164  
Batch 124/248, train\_loss: 0.2633, step time: 1.0180  
Batch 125/248, train\_loss: 0.6055, step time: 1.0198  
Batch 126/248, train\_loss: 0.1933, step time: 1.0172  
Batch 127/248, train\_loss: 0.1407, step time: 1.0195  
Batch 128/248, train\_loss: 0.3265, step time: 1.0219  
Batch 129/248, train\_loss: 0.1309, step time: 1.0161  
Batch 130/248, train\_loss: 0.0905, step time: 1.0145  
Batch 131/248, train\_loss: 0.4586, step time: 1.0170  
Batch 132/248, train\_loss: 0.3604, step time: 1.0140  
Batch 133/248, train\_loss: 0.1442, step time: 1.0151  
Batch 134/248, train\_loss: 0.7330, step time: 1.0156  
Batch 135/248, train\_loss: 0.3151, step time: 1.0171  
Batch 136/248, train\_loss: 0.1090, step time: 1.0126  
Batch 137/248, train\_loss: 0.1104, step time: 1.0122  
Batch 138/248, train\_loss: 0.0660, step time: 1.0193  
Batch 139/248, train\_loss: 0.1913, step time: 1.0162  
Batch 140/248, train\_loss: 0.2018, step time: 1.0199  
Batch 141/248, train\_loss: 0.2541, step time: 1.0224  
Batch 142/248, train\_loss: 0.6106, step time: 1.0189  
Batch 143/248, train\_loss: 0.2334, step time: 1.0169  
Batch 144/248, train\_loss: 0.1246, step time: 1.0104  
Batch 145/248, train\_loss: 0.1214, step time: 1.0149  
Batch 146/248, train\_loss: 0.5542, step time: 1.0197  
Batch 147/248, train\_loss: 0.0416, step time: 1.0131  
Batch 148/248, train\_loss: 0.5322, step time: 1.0188  
Batch 149/248, train\_loss: 0.1042, step time: 1.0157  
Batch 150/248, train\_loss: 0.6925, step time: 1.0159  
Batch 151/248, train\_loss: 0.3323, step time: 1.0179  
Batch 152/248, train\_loss: 0.0371, step time: 1.0134  
Batch 153/248, train\_loss: 0.1621, step time: 1.0143  
Batch 154/248, train\_loss: 0.5298, step time: 1.0173  
Batch 155/248, train\_loss: 0.1084, step time: 1.0175  
Batch 156/248, train\_loss: 0.1524, step time: 1.0179  
Batch 157/248, train\_loss: 0.2320, step time: 1.0176  
Batch 158/248, train\_loss: 0.9850, step time: 1.0158

Batch 159/248, train\_loss: 0.2594, step time: 1.0178  
Batch 160/248, train\_loss: 0.0881, step time: 1.0116  
Batch 161/248, train\_loss: 0.1153, step time: 1.0175  
Batch 162/248, train\_loss: 0.0744, step time: 1.0146  
Batch 163/248, train\_loss: 0.1172, step time: 1.0142  
Batch 164/248, train\_loss: 0.1965, step time: 1.0151  
Batch 165/248, train\_loss: 0.5781, step time: 1.0178  
Batch 166/248, train\_loss: 0.0728, step time: 1.0133  
Batch 167/248, train\_loss: 0.1954, step time: 1.0167  
Batch 168/248, train\_loss: 0.1428, step time: 1.0140  
Batch 169/248, train\_loss: 0.0957, step time: 1.0129  
Batch 170/248, train\_loss: 0.5560, step time: 1.0142  
Batch 171/248, train\_loss: 0.0870, step time: 1.0137  
Batch 172/248, train\_loss: 0.3337, step time: 1.0165  
Batch 173/248, train\_loss: 0.0846, step time: 1.0146  
Batch 174/248, train\_loss: 0.8916, step time: 1.0179  
Batch 175/248, train\_loss: 0.1605, step time: 1.0168  
Batch 176/248, train\_loss: 0.3066, step time: 1.0168  
Batch 177/248, train\_loss: 0.2361, step time: 1.0187  
Batch 178/248, train\_loss: 0.2625, step time: 1.0193  
Batch 179/248, train\_loss: 0.0948, step time: 1.0166  
Batch 180/248, train\_loss: 0.2443, step time: 1.0210  
Batch 181/248, train\_loss: 0.1241, step time: 1.0153  
Batch 182/248, train\_loss: 0.9112, step time: 1.0157  
Batch 183/248, train\_loss: 0.1689, step time: 1.0138  
Batch 184/248, train\_loss: 0.3125, step time: 1.0163  
Batch 185/248, train\_loss: 0.0804, step time: 1.0150  
Batch 186/248, train\_loss: 0.0931, step time: 1.0160  
Batch 187/248, train\_loss: 0.1403, step time: 1.0148  
Batch 188/248, train\_loss: 0.3370, step time: 1.0156  
Batch 189/248, train\_loss: 0.4640, step time: 1.0188  
Batch 190/248, train\_loss: 0.1269, step time: 1.0155  
Batch 191/248, train\_loss: 0.5613, step time: 1.0171  
Batch 192/248, train\_loss: 0.2975, step time: 1.0166  
Batch 193/248, train\_loss: 0.2830, step time: 1.0186  
Batch 194/248, train\_loss: 0.0801, step time: 1.0144  
Batch 195/248, train\_loss: 0.7154, step time: 1.0184  
Batch 196/248, train\_loss: 0.9914, step time: 1.0117  
Batch 197/248, train\_loss: 0.1507, step time: 1.0145  
Batch 198/248, train\_loss: 0.4886, step time: 1.0174  
Batch 199/248, train\_loss: 0.1390, step time: 1.0171  
Batch 200/248, train\_loss: 0.1427, step time: 1.0134  
Batch 201/248, train\_loss: 0.1200, step time: 1.0153  
Batch 202/248, train\_loss: 0.3246, step time: 1.0178  
Batch 203/248, train\_loss: 0.5206, step time: 1.0162  
Batch 204/248, train\_loss: 0.0746, step time: 1.0145  
Batch 205/248, train\_loss: 0.2225, step time: 1.0176  
Batch 206/248, train\_loss: 0.3515, step time: 1.0209  
Batch 207/248, train\_loss: 0.0878, step time: 1.0153  
Batch 208/248, train\_loss: 0.1329, step time: 1.0168  
Batch 209/248, train\_loss: 0.1587, step time: 1.0136  
Batch 210/248, train\_loss: 0.0601, step time: 1.0144  
Batch 211/248, train\_loss: 0.0573, step time: 1.0099  
Batch 212/248, train\_loss: 0.2515, step time: 1.0172  
Batch 213/248, train\_loss: 0.1436, step time: 1.0146  
Batch 214/248, train\_loss: 0.0654, step time: 1.0126  
Batch 215/248, train\_loss: 0.1811, step time: 1.0159  
Batch 216/248, train\_loss: 0.1401, step time: 1.0156  
Batch 217/248, train\_loss: 0.2456, step time: 1.0175  
Batch 218/248, train\_loss: 0.8049, step time: 1.0182  
Batch 219/248, train\_loss: 0.0763, step time: 1.0157  
Batch 220/248, train\_loss: 0.1871, step time: 1.0141  
Batch 221/248, train\_loss: 0.2298, step time: 1.0161  
Batch 222/248, train\_loss: 0.1925, step time: 1.0130  
Batch 223/248, train\_loss: 0.0412, step time: 1.0146  
Batch 224/248, train\_loss: 0.0755, step time: 1.0131  
Batch 225/248, train\_loss: 0.1742, step time: 1.0167  
Batch 226/248, train\_loss: 0.1205, step time: 1.0162  
Batch 227/248, train\_loss: 0.0865, step time: 1.0137  
Batch 228/248, train\_loss: 0.1848, step time: 1.0146  
Batch 229/248, train\_loss: 0.1028, step time: 1.0125  
Batch 230/248, train\_loss: 0.0636, step time: 1.0124  
Batch 231/248, train\_loss: 0.3437, step time: 1.0180  
Batch 232/248, train\_loss: 0.0713, step time: 1.0152  
Batch 233/248, train\_loss: 0.7797, step time: 1.0193  
Batch 234/248, train\_loss: 0.4476, step time: 1.0168  
Batch 235/248, train\_loss: 0.3097, step time: 1.0173  
Batch 236/248, train\_loss: 0.7778, step time: 1.0153  
Batch 237/248, train\_loss: 0.1022, step time: 1.0160  
Batch 238/248, train\_loss: 0.1200, step time: 1.0152  
Batch 239/248, train\_loss: 0.0525, step time: 1.0153  
Batch 240/248, train\_loss: 0.2229, step time: 1.0144  
Batch 241/248, train\_loss: 0.4509, step time: 1.0189  
Batch 242/248, train\_loss: 0.1270, step time: 1.0140  
Batch 243/248, train\_loss: 0.1061, step time: 1.0107

```
Batch 243/248, train_loss: 0.4901, step time: 1.0167/  
Batch 244/248, train_loss: 0.4876, step time: 1.0220  
Batch 245/248, train_loss: 0.0645, step time: 1.0135  
Batch 246/248, train_loss: 0.5059, step time: 1.0167  
Batch 247/248, train_loss: 0.0698, step time: 1.0145  
Batch 248/248, train_loss: 0.9999, step time: 1.0082
```

Labels



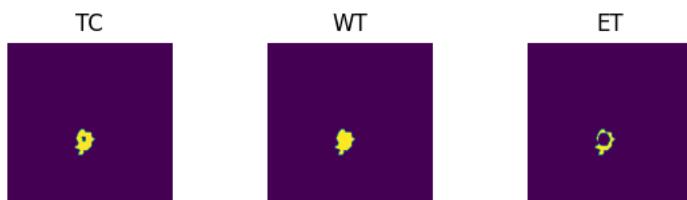
Predictions



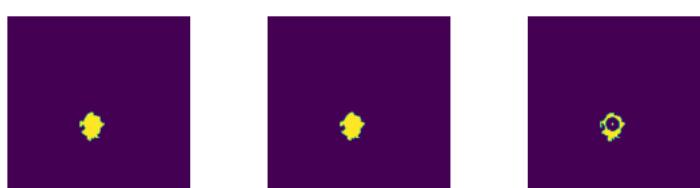
VAL

```
Batch 1/31, val_loss: 0.9160  
Batch 2/31, val_loss: 0.9905  
Batch 3/31, val_loss: 0.9578  
Batch 4/31, val_loss: 0.9371  
Batch 5/31, val_loss: 0.9938  
Batch 6/31, val_loss: 0.6949  
Batch 7/31, val_loss: 0.8310  
Batch 8/31, val_loss: 0.9664  
Batch 9/31, val_loss: 0.6872  
Batch 10/31, val_loss: 0.9040  
Batch 11/31, val_loss: 0.8229  
Batch 12/31, val_loss: 0.9765  
Batch 13/31, val_loss: 0.9871  
Batch 14/31, val_loss: 0.9449  
Batch 15/31, val_loss: 0.9865  
Batch 16/31, val_loss: 0.9716  
Batch 17/31, val_loss: 0.9760  
Batch 18/31, val_loss: 0.9405  
Batch 19/31, val_loss: 0.7396  
Batch 20/31, val_loss: 0.8780  
Batch 21/31, val_loss: 0.8602  
Batch 22/31, val_loss: 0.9693  
Batch 23/31, val_loss: 0.9809  
Batch 24/31, val_loss: 0.7480  
Batch 25/31, val_loss: 0.7959  
Batch 26/31, val_loss: 0.9159  
Batch 27/31, val_loss: 0.9731  
Batch 28/31, val_loss: 0.7422  
Batch 29/31, val_loss: 0.9821  
Batch 30/31, val_loss: 0.9576  
Batch 31/31, val_loss: 0.9806
```

Labels



Predictions



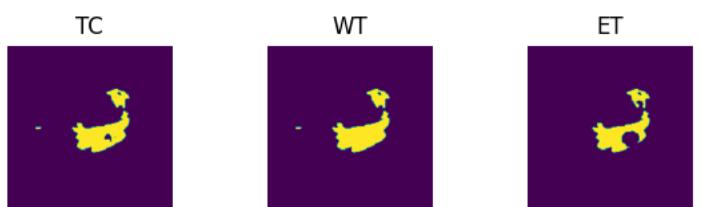
```
average train loss: 0.2695
average validation loss: 0.9035
saved as best model: False
current mean dice: 0.5101
current TC dice: 0.5317
current WT dice: 0.5382
current ET dice: 0.5042
Best Mean Metric: 0.5258
time consuming of epoch 78 is: 1568.8616
-----
epoch 79/100
TRAIN
Batch 1/248, train_loss: 0.0720, step time: 1.0188
Batch 2/248, train_loss: 0.5772, step time: 1.0205
Batch 3/248, train_loss: 0.3528, step time: 1.0179
Batch 4/248, train_loss: 0.8713, step time: 1.0186
Batch 5/248, train_loss: 0.1678, step time: 1.0150
Batch 6/248, train_loss: 0.6326, step time: 1.0149
Batch 7/248, train_loss: 0.0643, step time: 1.0162
Batch 8/248, train_loss: 0.7191, step time: 1.0154
Batch 9/248, train_loss: 0.0328, step time: 1.0146
Batch 10/248, train_loss: 0.2286, step time: 1.0169
Batch 11/248, train_loss: 0.1638, step time: 1.0173
Batch 12/248, train_loss: 0.3998, step time: 1.0149
Batch 13/248, train_loss: 0.2998, step time: 1.0171
Batch 14/248, train_loss: 0.0572, step time: 1.0154
Batch 15/248, train_loss: 0.3024, step time: 1.0162
Batch 16/248, train_loss: 0.1375, step time: 1.0147
Batch 17/248, train_loss: 0.2470, step time: 1.0186
Batch 18/248, train_loss: 0.3205, step time: 1.0141
Batch 19/248, train_loss: 0.1332, step time: 1.0163
Batch 20/248, train_loss: 0.1379, step time: 1.0164
Batch 21/248, train_loss: 0.0564, step time: 1.0145
Batch 22/248, train_loss: 0.6491, step time: 1.0204
Batch 23/248, train_loss: 0.9984, step time: 1.0122
Batch 24/248, train_loss: 0.0818, step time: 1.0156
Batch 25/248, train_loss: 0.0547, step time: 1.0143
Batch 26/248, train_loss: 0.3655, step time: 1.0181
Batch 27/248, train_loss: 0.0783, step time: 1.0146
Batch 28/248, train_loss: 0.1496, step time: 1.0198
Batch 29/248, train_loss: 0.4353, step time: 1.0200
Batch 30/248, train_loss: 0.2076, step time: 1.0151
Batch 31/248, train_loss: 0.2564, step time: 1.0160
Batch 32/248, train_loss: 0.0714, step time: 1.0131
Batch 33/248, train_loss: 0.0601, step time: 1.0184
Batch 34/248, train_loss: 0.0448, step time: 1.0108
Batch 35/248, train_loss: 0.0446, step time: 1.0115
Batch 36/248, train_loss: 0.4190, step time: 1.0160
Batch 37/248, train_loss: 0.1323, step time: 1.0138
Batch 38/248, train_loss: 0.2463, step time: 1.0140
Batch 39/248, train_loss: 0.1923, step time: 1.0162
Batch 40/248, train_loss: 0.5679, step time: 1.0183
Batch 41/248, train_loss: 0.2360, step time: 1.0152
Batch 42/248, train_loss: 0.0575, step time: 1.0137
Batch 43/248, train_loss: 0.0556, step time: 1.0144
Batch 44/248, train_loss: 0.2591, step time: 1.0173
Batch 45/248, train_loss: 0.3645, step time: 1.0166
Batch 46/248, train_loss: 0.1649, step time: 1.0194
Batch 47/248, train_loss: 0.0597, step time: 1.0112
Batch 48/248, train_loss: 0.2012, step time: 1.0176
Batch 49/248, train_loss: 0.5132, step time: 1.0177
Batch 50/248, train_loss: 0.1181, step time: 1.0136
Batch 51/248, train_loss: 0.1375, step time: 1.0159
Batch 52/248, train_loss: 0.0904, step time: 1.0162
Batch 53/248, train_loss: 0.4172, step time: 1.0180
Batch 54/248, train_loss: 0.2318, step time: 1.0179
Batch 55/248, train_loss: 0.4388, step time: 1.0153
Batch 56/248, train_loss: 0.2644, step time: 1.0181
Batch 57/248, train_loss: 0.2534, step time: 1.0146
Batch 58/248, train_loss: 0.0763, step time: 1.0150
Batch 59/248, train_loss: 0.0920, step time: 1.0163
Batch 60/248, train_loss: 0.0468, step time: 1.0112
Batch 61/248, train_loss: 0.0943, step time: 1.0143
Batch 62/248, train_loss: 0.2026, step time: 1.0154
Batch 63/248, train_loss: 0.5066, step time: 1.0176
Batch 64/248, train_loss: 0.3527, step time: 1.0253
Batch 65/248, train_loss: 0.2798, step time: 1.0176
Batch 66/248, train_loss: 0.1161, step time: 1.0171
Batch 67/248, train_loss: 0.0683, step time: 1.0137
Batch 68/248, train_loss: 0.1199, step time: 1.0166
Batch 69/248, train_loss: 0.3310, step time: 1.0214
Batch 70/248, train_loss: 0.1429, step time: 1.0165
Batch 71/248, train_loss: 0.1343, step time: 1.0171
Batch 72/248, train_loss: 0.0521, step time: 1.0144
Batch 73/248, train_loss: 0.3129, step time: 1.0171
```

Batch 74/248, train\_loss: 0.9977, step time: 1.0135  
Batch 75/248, train\_loss: 0.1228, step time: 1.0161  
Batch 76/248, train\_loss: 0.5721, step time: 1.0176  
Batch 77/248, train\_loss: 0.7933, step time: 1.0190  
Batch 78/248, train\_loss: 0.1092, step time: 1.0184  
Batch 79/248, train\_loss: 0.1255, step time: 1.0162  
Batch 80/248, train\_loss: 0.1808, step time: 1.0186  
Batch 81/248, train\_loss: 0.1599, step time: 1.0187  
Batch 82/248, train\_loss: 0.0741, step time: 1.0153  
Batch 83/248, train\_loss: 0.5534, step time: 1.0234  
Batch 84/248, train\_loss: 0.2537, step time: 1.0192  
Batch 85/248, train\_loss: 0.3806, step time: 1.0192  
Batch 86/248, train\_loss: 0.3297, step time: 1.0233  
Batch 87/248, train\_loss: 0.4090, step time: 1.0196  
Batch 88/248, train\_loss: 0.3246, step time: 1.0254  
Batch 89/248, train\_loss: 0.0931, step time: 1.0153  
Batch 90/248, train\_loss: 0.5086, step time: 1.0157  
Batch 91/248, train\_loss: 0.2988, step time: 1.0128  
Batch 92/248, train\_loss: 0.2765, step time: 1.0171  
Batch 93/248, train\_loss: 0.1343, step time: 1.0256  
Batch 94/248, train\_loss: 0.2517, step time: 1.0192  
Batch 95/248, train\_loss: 0.1670, step time: 1.0124  
Batch 96/248, train\_loss: 0.1464, step time: 1.0171  
Batch 97/248, train\_loss: 0.3933, step time: 1.0179  
Batch 98/248, train\_loss: 0.1003, step time: 1.0137  
Batch 99/248, train\_loss: 0.2979, step time: 1.0161  
Batch 100/248, train\_loss: 0.3268, step time: 1.0164  
Batch 101/248, train\_loss: 0.0516, step time: 1.0127  
Batch 102/248, train\_loss: 0.1086, step time: 1.0157  
Batch 103/248, train\_loss: 0.5375, step time: 1.0171  
Batch 104/248, train\_loss: 0.3634, step time: 1.0145  
Batch 105/248, train\_loss: 0.0736, step time: 1.0136  
Batch 106/248, train\_loss: 0.1548, step time: 1.0185  
Batch 107/248, train\_loss: 0.1922, step time: 1.0174  
Batch 108/248, train\_loss: 0.4981, step time: 1.0172  
Batch 109/248, train\_loss: 0.7750, step time: 1.0186  
Batch 110/248, train\_loss: 0.2262, step time: 1.0176  
Batch 111/248, train\_loss: 0.0827, step time: 1.0154  
Batch 112/248, train\_loss: 0.0983, step time: 1.0202  
Batch 113/248, train\_loss: 0.7822, step time: 1.0239  
Batch 114/248, train\_loss: 0.1339, step time: 1.0156  
Batch 115/248, train\_loss: 0.1439, step time: 1.0188  
Batch 116/248, train\_loss: 0.0810, step time: 1.0196  
Batch 117/248, train\_loss: 0.6081, step time: 1.0175  
Batch 118/248, train\_loss: 0.4611, step time: 1.0153  
Batch 119/248, train\_loss: 0.3710, step time: 1.0169  
Batch 120/248, train\_loss: 0.2386, step time: 1.0164  
Batch 121/248, train\_loss: 0.2905, step time: 1.0176  
Batch 122/248, train\_loss: 0.3497, step time: 1.0169  
Batch 123/248, train\_loss: 0.1032, step time: 1.0132  
Batch 124/248, train\_loss: 0.2649, step time: 1.0188  
Batch 125/248, train\_loss: 0.7082, step time: 1.0191  
Batch 126/248, train\_loss: 0.2204, step time: 1.0172  
Batch 127/248, train\_loss: 0.1249, step time: 1.0169  
Batch 128/248, train\_loss: 0.3717, step time: 1.0192  
Batch 129/248, train\_loss: 0.1241, step time: 1.0138  
Batch 130/248, train\_loss: 0.0925, step time: 1.0163  
Batch 131/248, train\_loss: 0.4684, step time: 1.0168  
Batch 132/248, train\_loss: 0.3511, step time: 1.0133  
Batch 133/248, train\_loss: 0.1453, step time: 1.0135  
Batch 134/248, train\_loss: 0.6711, step time: 1.0181  
Batch 135/248, train\_loss: 0.2635, step time: 1.0170  
Batch 136/248, train\_loss: 0.0939, step time: 1.0144  
Batch 137/248, train\_loss: 0.1079, step time: 1.0173  
Batch 138/248, train\_loss: 0.0722, step time: 1.0154  
Batch 139/248, train\_loss: 0.1598, step time: 1.0162  
Batch 140/248, train\_loss: 0.1528, step time: 1.0175  
Batch 141/248, train\_loss: 0.2990, step time: 1.0190  
Batch 142/248, train\_loss: 0.4658, step time: 1.0189  
Batch 143/248, train\_loss: 0.2126, step time: 1.0176  
Batch 144/248, train\_loss: 0.1106, step time: 1.0159  
Batch 145/248, train\_loss: 0.0775, step time: 1.0116  
Batch 146/248, train\_loss: 0.5078, step time: 1.0164  
Batch 147/248, train\_loss: 0.0346, step time: 1.0132  
Batch 148/248, train\_loss: 0.5423, step time: 1.0193  
Batch 149/248, train\_loss: 0.1214, step time: 1.0167  
Batch 150/248, train\_loss: 0.6586, step time: 1.0150  
Batch 151/248, train\_loss: 0.2750, step time: 1.0144  
Batch 152/248, train\_loss: 0.0371, step time: 1.0131  
Batch 153/248, train\_loss: 0.2686, step time: 1.0206  
Batch 154/248, train\_loss: 0.5468, step time: 1.0191  
Batch 155/248, train\_loss: 0.1420, step time: 1.0184  
Batch 156/248, train\_loss: 0.1734, step time: 1.0169  
Batch 157/248, train\_loss: 0.2385, step time: 1.0222

Batch 158/248, train\_loss: 0.9941, step time: 1.0139  
Batch 159/248, train\_loss: 0.3193, step time: 1.0187  
Batch 160/248, train\_loss: 0.1140, step time: 1.0163  
Batch 161/248, train\_loss: 0.1014, step time: 1.0169  
Batch 162/248, train\_loss: 0.0756, step time: 1.0145  
Batch 163/248, train\_loss: 0.1472, step time: 1.0150  
Batch 164/248, train\_loss: 0.2119, step time: 1.0160  
Batch 165/248, train\_loss: 0.2787, step time: 1.0176  
Batch 166/248, train\_loss: 0.0915, step time: 1.0170  
Batch 167/248, train\_loss: 0.1706, step time: 1.0152  
Batch 168/248, train\_loss: 0.1458, step time: 1.0168  
Batch 169/248, train\_loss: 0.0852, step time: 1.0180  
Batch 170/248, train\_loss: 0.6866, step time: 1.0161  
Batch 171/248, train\_loss: 0.0878, step time: 1.0133  
Batch 172/248, train\_loss: 0.4291, step time: 1.0162  
Batch 173/248, train\_loss: 0.0910, step time: 1.0145  
Batch 174/248, train\_loss: 0.4230, step time: 1.0169  
Batch 175/248, train\_loss: 0.1532, step time: 1.0164  
Batch 176/248, train\_loss: 0.3146, step time: 1.0136  
Batch 177/248, train\_loss: 0.2119, step time: 1.0183  
Batch 178/248, train\_loss: 0.2916, step time: 1.0175  
Batch 179/248, train\_loss: 0.1052, step time: 1.0193  
Batch 180/248, train\_loss: 0.3354, step time: 1.0181  
Batch 181/248, train\_loss: 0.1310, step time: 1.0164  
Batch 182/248, train\_loss: 0.9488, step time: 1.0142  
Batch 183/248, train\_loss: 0.1642, step time: 1.0163  
Batch 184/248, train\_loss: 0.3247, step time: 1.0179  
Batch 185/248, train\_loss: 0.0777, step time: 1.0144  
Batch 186/248, train\_loss: 0.0872, step time: 1.0136  
Batch 187/248, train\_loss: 0.1659, step time: 1.0167  
Batch 188/248, train\_loss: 0.2110, step time: 1.0170  
Batch 189/248, train\_loss: 0.3722, step time: 1.0185  
Batch 190/248, train\_loss: 0.1367, step time: 1.0178  
Batch 191/248, train\_loss: 0.5726, step time: 1.0157  
Batch 192/248, train\_loss: 0.2791, step time: 1.0158  
Batch 193/248, train\_loss: 0.2571, step time: 1.0177  
Batch 194/248, train\_loss: 0.0924, step time: 1.0193  
Batch 195/248, train\_loss: 0.6801, step time: 1.0198  
Batch 196/248, train\_loss: 0.9975, step time: 1.0099  
Batch 197/248, train\_loss: 0.1757, step time: 1.0170  
Batch 198/248, train\_loss: 0.4618, step time: 1.0178  
Batch 199/248, train\_loss: 0.1616, step time: 1.0160  
Batch 200/248, train\_loss: 0.1269, step time: 1.0165  
Batch 201/248, train\_loss: 0.1309, step time: 1.0156  
Batch 202/248, train\_loss: 0.3632, step time: 1.0150  
Batch 203/248, train\_loss: 0.5446, step time: 1.0170  
Batch 204/248, train\_loss: 0.0893, step time: 1.0152  
Batch 205/248, train\_loss: 0.2213, step time: 1.0144  
Batch 206/248, train\_loss: 0.2529, step time: 1.0165  
Batch 207/248, train\_loss: 0.0822, step time: 1.0185  
Batch 208/248, train\_loss: 0.1883, step time: 1.0179  
Batch 209/248, train\_loss: 0.1442, step time: 1.0161  
Batch 210/248, train\_loss: 0.0567, step time: 1.0140  
Batch 211/248, train\_loss: 0.0550, step time: 1.0142  
Batch 212/248, train\_loss: 0.2195, step time: 1.0162  
Batch 213/248, train\_loss: 0.1317, step time: 1.0150  
Batch 214/248, train\_loss: 0.0647, step time: 1.0158  
Batch 215/248, train\_loss: 0.1855, step time: 1.0230  
Batch 216/248, train\_loss: 0.1544, step time: 1.0137  
Batch 217/248, train\_loss: 0.2448, step time: 1.0163  
Batch 218/248, train\_loss: 0.8451, step time: 1.0211  
Batch 219/248, train\_loss: 0.0683, step time: 1.0192  
Batch 220/248, train\_loss: 0.1920, step time: 1.0178  
Batch 221/248, train\_loss: 0.2797, step time: 1.0162  
Batch 222/248, train\_loss: 0.1648, step time: 1.0142  
Batch 223/248, train\_loss: 0.0412, step time: 1.0145  
Batch 224/248, train\_loss: 0.0696, step time: 1.0102  
Batch 225/248, train\_loss: 0.1522, step time: 1.0183  
Batch 226/248, train\_loss: 0.1394, step time: 1.0170  
Batch 227/248, train\_loss: 0.0858, step time: 1.0146  
Batch 228/248, train\_loss: 0.1501, step time: 1.0181  
Batch 229/248, train\_loss: 0.1013, step time: 1.0128  
Batch 230/248, train\_loss: 0.0658, step time: 1.0158  
Batch 231/248, train\_loss: 0.2591, step time: 1.0172  
Batch 232/248, train\_loss: 0.0841, step time: 1.0205  
Batch 233/248, train\_loss: 0.7616, step time: 1.0144  
Batch 234/248, train\_loss: 0.4272, step time: 1.0168  
Batch 235/248, train\_loss: 0.3882, step time: 1.0173  
Batch 236/248, train\_loss: 0.7289, step time: 1.0181  
Batch 237/248, train\_loss: 0.0977, step time: 1.0157  
Batch 238/248, train\_loss: 0.0932, step time: 1.0153  
Batch 239/248, train\_loss: 0.0623, step time: 1.0136  
Batch 240/248, train\_loss: 0.2689, step time: 1.0171  
Batch 241/248, train\_loss: 0.3491, step time: 1.0171  
Batch 242/248, train\_loss: 0.1424, step time: 1.0172

```
Batch 243/248, train_loss: 0.4914, step time: 1.0187  
Batch 244/248, train_loss: 0.5071, step time: 1.0158  
Batch 245/248, train_loss: 0.0616, step time: 1.0138  
Batch 246/248, train_loss: 0.5126, step time: 1.0175  
Batch 247/248, train_loss: 0.0787, step time: 1.0107  
Batch 248/248, train_loss: 0.9999, step time: 1.0101
```

Labels



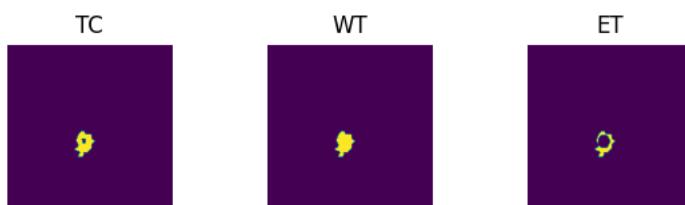
Predictions



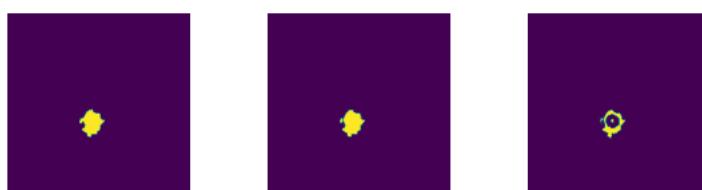
VAL

```
Batch 1/31, val_loss: 0.9570  
Batch 2/31, val_loss: 0.9918  
Batch 3/31, val_loss: 0.9599  
Batch 4/31, val_loss: 0.9339  
Batch 5/31, val_loss: 0.9934  
Batch 6/31, val_loss: 0.7006  
Batch 7/31, val_loss: 0.8366  
Batch 8/31, val_loss: 0.9653  
Batch 9/31, val_loss: 0.6905  
Batch 10/31, val_loss: 0.9030  
Batch 11/31, val_loss: 0.8225  
Batch 12/31, val_loss: 0.9720  
Batch 13/31, val_loss: 0.9911  
Batch 14/31, val_loss: 0.9390  
Batch 15/31, val_loss: 0.9920  
Batch 16/31, val_loss: 0.9736  
Batch 17/31, val_loss: 0.9760  
Batch 18/31, val_loss: 0.9427  
Batch 19/31, val_loss: 0.7431  
Batch 20/31, val_loss: 0.8899  
Batch 21/31, val_loss: 0.8603  
Batch 22/31, val_loss: 0.9708  
Batch 23/31, val_loss: 0.9795  
Batch 24/31, val_loss: 0.7524  
Batch 25/31, val_loss: 0.7963  
Batch 26/31, val_loss: 0.9165  
Batch 27/31, val_loss: 0.9723  
Batch 28/31, val_loss: 0.7604  
Batch 29/31, val_loss: 0.9818  
Batch 30/31, val_loss: 0.9577  
Batch 31/31, val_loss: 0.9817
```

Labels



Predictions



epoch 70

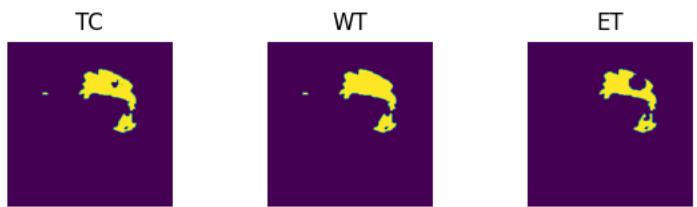
```
epoch 79 />
average train loss: 0.2666
average validation loss: 0.9066
saved as best model: False
current mean dice: 0.5096
current TC dice: 0.5335
current WT dice: 0.5418
current ET dice: 0.4970
Best Mean Metric: 0.5258
time consuming of epoch 79 is: 1570.0620
-----
epoch 80/100
TRAIN
Batch 1/248, train_loss: 0.0768, step time: 1.0157
Batch 2/248, train_loss: 0.6269, step time: 1.0201
Batch 3/248, train_loss: 0.3610, step time: 1.0168
Batch 4/248, train_loss: 0.7935, step time: 1.0144
Batch 5/248, train_loss: 0.1997, step time: 1.0173
Batch 6/248, train_loss: 0.3978, step time: 1.0170
Batch 7/248, train_loss: 0.0576, step time: 1.0144
Batch 8/248, train_loss: 0.7150, step time: 1.0164
Batch 9/248, train_loss: 0.0420, step time: 1.0151
Batch 10/248, train_loss: 0.3241, step time: 1.0189
Batch 11/248, train_loss: 0.1581, step time: 1.0163
Batch 12/248, train_loss: 0.3672, step time: 1.0174
Batch 13/248, train_loss: 0.2644, step time: 1.0162
Batch 14/248, train_loss: 0.0555, step time: 1.0140
Batch 15/248, train_loss: 0.2935, step time: 1.0167
Batch 16/248, train_loss: 0.1321, step time: 1.0147
Batch 17/248, train_loss: 0.2489, step time: 1.0148
Batch 18/248, train_loss: 0.4796, step time: 1.0169
Batch 19/248, train_loss: 0.1109, step time: 1.0160
Batch 20/248, train_loss: 0.1859, step time: 1.0181
Batch 21/248, train_loss: 0.0606, step time: 1.0144
Batch 22/248, train_loss: 0.3270, step time: 1.0192
Batch 23/248, train_loss: 0.9983, step time: 1.0127
Batch 24/248, train_loss: 0.0698, step time: 1.0180
Batch 25/248, train_loss: 0.0599, step time: 1.0165
Batch 26/248, train_loss: 0.3685, step time: 1.0177
Batch 27/248, train_loss: 0.0695, step time: 1.0179
Batch 28/248, train_loss: 0.1465, step time: 1.0202
Batch 29/248, train_loss: 0.3383, step time: 1.0175
Batch 30/248, train_loss: 0.2205, step time: 1.0147
Batch 31/248, train_loss: 0.2729, step time: 1.0178
Batch 32/248, train_loss: 0.0753, step time: 1.0167
Batch 33/248, train_loss: 0.0817, step time: 1.0127
Batch 34/248, train_loss: 0.0445, step time: 1.0124
Batch 35/248, train_loss: 0.0419, step time: 1.0192
Batch 36/248, train_loss: 0.3832, step time: 1.0146
Batch 37/248, train_loss: 0.1346, step time: 1.0106
Batch 38/248, train_loss: 0.2772, step time: 1.0179
Batch 39/248, train_loss: 0.1700, step time: 1.0151
Batch 40/248, train_loss: 0.5258, step time: 1.0188
Batch 41/248, train_loss: 0.3027, step time: 1.0192
Batch 42/248, train_loss: 0.0677, step time: 1.0147
Batch 43/248, train_loss: 0.0512, step time: 1.0140
Batch 44/248, train_loss: 0.2052, step time: 1.0157
Batch 45/248, train_loss: 0.3590, step time: 1.0164
Batch 46/248, train_loss: 0.1387, step time: 1.0145
Batch 47/248, train_loss: 0.0597, step time: 1.0169
Batch 48/248, train_loss: 0.1983, step time: 1.0137
Batch 49/248, train_loss: 0.5136, step time: 1.0199
Batch 50/248, train_loss: 0.1231, step time: 1.0197
Batch 51/248, train_loss: 0.1242, step time: 1.0189
Batch 52/248, train_loss: 0.0897, step time: 1.0146
Batch 53/248, train_loss: 0.3850, step time: 1.0183
Batch 54/248, train_loss: 0.2269, step time: 1.0187
Batch 55/248, train_loss: 0.2408, step time: 1.0170
Batch 56/248, train_loss: 0.2063, step time: 1.0172
Batch 57/248, train_loss: 0.2712, step time: 1.0152
Batch 58/248, train_loss: 0.0722, step time: 1.0156
Batch 59/248, train_loss: 0.0801, step time: 1.0147
Batch 60/248, train_loss: 0.0475, step time: 1.0170
Batch 61/248, train_loss: 0.0853, step time: 1.0147
Batch 62/248, train_loss: 0.2080, step time: 1.0133
Batch 63/248, train_loss: 0.5370, step time: 1.0179
Batch 64/248, train_loss: 0.3056, step time: 1.0142
Batch 65/248, train_loss: 0.3485, step time: 1.0190
Batch 66/248, train_loss: 0.1202, step time: 1.0173
Batch 67/248, train_loss: 0.0735, step time: 1.0152
Batch 68/248, train_loss: 0.1639, step time: 1.0172
Batch 69/248, train_loss: 0.2732, step time: 1.0202
Batch 70/248, train_loss: 0.1384, step time: 1.0177
Batch 71/248, train_loss: 0.1307, step time: 1.0190
Batch 72/248, train_loss: 0.0526, step time: 1.0166
-----
```

Batch 73/248, train\_loss: 0.2510, step time: 1.0170  
Batch 74/248, train\_loss: 0.9973, step time: 1.0134  
Batch 75/248, train\_loss: 0.1205, step time: 1.0137  
Batch 76/248, train\_loss: 0.5446, step time: 1.0201  
Batch 77/248, train\_loss: 0.7792, step time: 1.0199  
Batch 78/248, train\_loss: 0.1126, step time: 1.0174  
Batch 79/248, train\_loss: 0.1082, step time: 1.0168  
Batch 80/248, train\_loss: 0.1951, step time: 1.0199  
Batch 81/248, train\_loss: 0.1694, step time: 1.0181  
Batch 82/248, train\_loss: 0.0800, step time: 1.0155  
Batch 83/248, train\_loss: 0.4604, step time: 1.0175  
Batch 84/248, train\_loss: 0.2566, step time: 1.0177  
Batch 85/248, train\_loss: 0.3094, step time: 1.0169  
Batch 86/248, train\_loss: 0.2365, step time: 1.0134  
Batch 87/248, train\_loss: 0.4739, step time: 1.0164  
Batch 88/248, train\_loss: 0.3058, step time: 1.0174  
Batch 89/248, train\_loss: 0.1089, step time: 1.0146  
Batch 90/248, train\_loss: 0.3347, step time: 1.0187  
Batch 91/248, train\_loss: 0.2916, step time: 1.0182  
Batch 92/248, train\_loss: 0.2596, step time: 1.0185  
Batch 93/248, train\_loss: 0.1462, step time: 1.0176  
Batch 94/248, train\_loss: 0.3872, step time: 1.0218  
Batch 95/248, train\_loss: 0.1776, step time: 1.0187  
Batch 96/248, train\_loss: 0.1506, step time: 1.0177  
Batch 97/248, train\_loss: 0.3073, step time: 1.0171  
Batch 98/248, train\_loss: 0.1132, step time: 1.0168  
Batch 99/248, train\_loss: 0.2903, step time: 1.0191  
Batch 100/248, train\_loss: 0.2124, step time: 1.0172  
Batch 101/248, train\_loss: 0.0523, step time: 1.0131  
Batch 102/248, train\_loss: 0.1183, step time: 1.0181  
Batch 103/248, train\_loss: 0.5117, step time: 1.0150  
Batch 104/248, train\_loss: 0.3232, step time: 1.0156  
Batch 105/248, train\_loss: 0.0770, step time: 1.0148  
Batch 106/248, train\_loss: 0.0899, step time: 1.0138  
Batch 107/248, train\_loss: 0.2255, step time: 1.0174  
Batch 108/248, train\_loss: 0.3883, step time: 1.0180  
Batch 109/248, train\_loss: 0.9060, step time: 1.0191  
Batch 110/248, train\_loss: 0.1745, step time: 1.0174  
Batch 111/248, train\_loss: 0.1003, step time: 1.0187  
Batch 112/248, train\_loss: 0.1150, step time: 1.0170  
Batch 113/248, train\_loss: 0.8665, step time: 1.0175  
Batch 114/248, train\_loss: 0.1330, step time: 1.0125  
Batch 115/248, train\_loss: 0.1457, step time: 1.0155  
Batch 116/248, train\_loss: 0.0800, step time: 1.0146  
Batch 117/248, train\_loss: 0.5456, step time: 1.0165  
Batch 118/248, train\_loss: 0.4200, step time: 1.0132  
Batch 119/248, train\_loss: 0.4001, step time: 1.0161  
Batch 120/248, train\_loss: 0.2087, step time: 1.0177  
Batch 121/248, train\_loss: 0.2594, step time: 1.0163  
Batch 122/248, train\_loss: 0.3332, step time: 1.0181  
Batch 123/248, train\_loss: 0.0761, step time: 1.0148  
Batch 124/248, train\_loss: 0.2245, step time: 1.0153  
Batch 125/248, train\_loss: 0.5164, step time: 1.0208  
Batch 126/248, train\_loss: 0.2009, step time: 1.0164  
Batch 127/248, train\_loss: 0.0934, step time: 1.0175  
Batch 128/248, train\_loss: 0.3475, step time: 1.0208  
Batch 129/248, train\_loss: 0.1058, step time: 1.0166  
Batch 130/248, train\_loss: 0.0886, step time: 1.0171  
Batch 131/248, train\_loss: 0.4107, step time: 1.0184  
Batch 132/248, train\_loss: 0.2815, step time: 1.0180  
Batch 133/248, train\_loss: 0.1397, step time: 1.0133  
Batch 134/248, train\_loss: 0.6001, step time: 1.0185  
Batch 135/248, train\_loss: 0.2343, step time: 1.0207  
Batch 136/248, train\_loss: 0.1176, step time: 1.0168  
Batch 137/248, train\_loss: 0.1155, step time: 1.0161  
Batch 138/248, train\_loss: 0.0626, step time: 1.0124  
Batch 139/248, train\_loss: 0.1867, step time: 1.0150  
Batch 140/248, train\_loss: 0.1900, step time: 1.0153  
Batch 141/248, train\_loss: 0.1954, step time: 1.0151  
Batch 142/248, train\_loss: 0.4737, step time: 1.0157  
Batch 143/248, train\_loss: 0.2346, step time: 1.0161  
Batch 144/248, train\_loss: 0.1168, step time: 1.0133  
Batch 145/248, train\_loss: 0.1186, step time: 1.0158  
Batch 146/248, train\_loss: 0.4134, step time: 1.0170  
Batch 147/248, train\_loss: 0.0425, step time: 1.0110  
Batch 148/248, train\_loss: 0.4745, step time: 1.0168  
Batch 149/248, train\_loss: 0.1068, step time: 1.0158  
Batch 150/248, train\_loss: 0.6912, step time: 1.0151  
Batch 151/248, train\_loss: 0.3082, step time: 1.0189  
Batch 152/248, train\_loss: 0.0391, step time: 1.0142  
Batch 153/248, train\_loss: 0.2170, step time: 1.0171  
Batch 154/248, train\_loss: 0.5551, step time: 1.0182  
Batch 155/248, train\_loss: 0.1364, step time: 1.0165  
Batch 156/248, train\_loss: 0.1549, step time: 1.0167  
Batch 157/248, train\_loss: 0.1840, step time: 1.0139

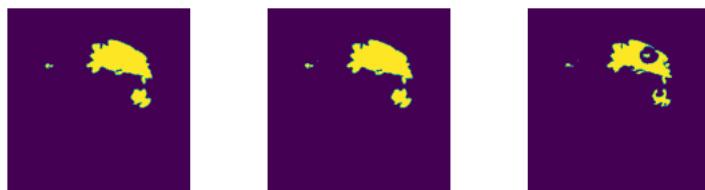
Batch 158/248, train\_loss: 0.9923, step time: 1.0141  
Batch 159/248, train\_loss: 0.2775, step time: 1.0186  
Batch 160/248, train\_loss: 0.1045, step time: 1.0133  
Batch 161/248, train\_loss: 0.1109, step time: 1.0168  
Batch 162/248, train\_loss: 0.0726, step time: 1.0159  
Batch 163/248, train\_loss: 0.1067, step time: 1.0174  
Batch 164/248, train\_loss: 0.2290, step time: 1.0186  
Batch 165/248, train\_loss: 0.3598, step time: 1.0166  
Batch 166/248, train\_loss: 0.0826, step time: 1.0153  
Batch 167/248, train\_loss: 0.1585, step time: 1.0142  
Batch 168/248, train\_loss: 0.1350, step time: 1.0169  
Batch 169/248, train\_loss: 0.0965, step time: 1.0190  
Batch 170/248, train\_loss: 0.6233, step time: 1.0155  
Batch 171/248, train\_loss: 0.0799, step time: 1.0124  
Batch 172/248, train\_loss: 0.2862, step time: 1.0171  
Batch 173/248, train\_loss: 0.0800, step time: 1.0148  
Batch 174/248, train\_loss: 0.5543, step time: 1.0174  
Batch 175/248, train\_loss: 0.1332, step time: 1.0152  
Batch 176/248, train\_loss: 0.3447, step time: 1.0157  
Batch 177/248, train\_loss: 0.1872, step time: 1.0171  
Batch 178/248, train\_loss: 0.2084, step time: 1.0170  
Batch 179/248, train\_loss: 0.0847, step time: 1.0177  
Batch 180/248, train\_loss: 0.3237, step time: 1.0166  
Batch 181/248, train\_loss: 0.1104, step time: 1.0197  
Batch 182/248, train\_loss: 0.9222, step time: 1.0168  
Batch 183/248, train\_loss: 0.1769, step time: 1.0188  
Batch 184/248, train\_loss: 0.3261, step time: 1.0167  
Batch 185/248, train\_loss: 0.0809, step time: 1.0165  
Batch 186/248, train\_loss: 0.1024, step time: 1.0185  
Batch 187/248, train\_loss: 0.1720, step time: 1.0169  
Batch 188/248, train\_loss: 0.3462, step time: 1.0198  
Batch 189/248, train\_loss: 0.4964, step time: 1.0215  
Batch 190/248, train\_loss: 0.1280, step time: 1.0159  
Batch 191/248, train\_loss: 0.5720, step time: 1.0181  
Batch 192/248, train\_loss: 0.2482, step time: 1.0190  
Batch 193/248, train\_loss: 0.2605, step time: 1.0166  
Batch 194/248, train\_loss: 0.0680, step time: 1.0160  
Batch 195/248, train\_loss: 0.5926, step time: 1.0194  
Batch 196/248, train\_loss: 0.9987, step time: 1.0114  
Batch 197/248, train\_loss: 0.1653, step time: 1.0177  
Batch 198/248, train\_loss: 0.4644, step time: 1.0203  
Batch 199/248, train\_loss: 0.1383, step time: 1.0218  
Batch 200/248, train\_loss: 0.1390, step time: 1.0162  
Batch 201/248, train\_loss: 0.1256, step time: 1.0152  
Batch 202/248, train\_loss: 0.3275, step time: 1.0162  
Batch 203/248, train\_loss: 0.4839, step time: 1.0179  
Batch 204/248, train\_loss: 0.0804, step time: 1.0123  
Batch 205/248, train\_loss: 0.2155, step time: 1.0136  
Batch 206/248, train\_loss: 0.2604, step time: 1.0205  
Batch 207/248, train\_loss: 0.0848, step time: 1.0140  
Batch 208/248, train\_loss: 0.1719, step time: 1.0166  
Batch 209/248, train\_loss: 0.1613, step time: 1.0173  
Batch 210/248, train\_loss: 0.0577, step time: 1.0163  
Batch 211/248, train\_loss: 0.0567, step time: 1.0139  
Batch 212/248, train\_loss: 0.2340, step time: 1.0143  
Batch 213/248, train\_loss: 0.1297, step time: 1.0177  
Batch 214/248, train\_loss: 0.0656, step time: 1.0165  
Batch 215/248, train\_loss: 0.1632, step time: 1.0206  
Batch 216/248, train\_loss: 0.1215, step time: 1.0180  
Batch 217/248, train\_loss: 0.2549, step time: 1.0205  
Batch 218/248, train\_loss: 0.7848, step time: 1.0195  
Batch 219/248, train\_loss: 0.0676, step time: 1.0198  
Batch 220/248, train\_loss: 0.1919, step time: 1.0172  
Batch 221/248, train\_loss: 0.2876, step time: 1.0193  
Batch 222/248, train\_loss: 0.1810, step time: 1.0181  
Batch 223/248, train\_loss: 0.0389, step time: 1.0137  
Batch 224/248, train\_loss: 0.0846, step time: 1.0170  
Batch 225/248, train\_loss: 0.1579, step time: 1.0178  
Batch 226/248, train\_loss: 0.1144, step time: 1.0179  
Batch 227/248, train\_loss: 0.0896, step time: 1.0143  
Batch 228/248, train\_loss: 0.1317, step time: 1.0176  
Batch 229/248, train\_loss: 0.0902, step time: 1.0152  
Batch 230/248, train\_loss: 0.0658, step time: 1.0183  
Batch 231/248, train\_loss: 0.2922, step time: 1.0194  
Batch 232/248, train\_loss: 0.0715, step time: 1.0171  
Batch 233/248, train\_loss: 0.8029, step time: 1.0183  
Batch 234/248, train\_loss: 0.4106, step time: 1.0163  
Batch 235/248, train\_loss: 0.2822, step time: 1.0203  
Batch 236/248, train\_loss: 0.7064, step time: 1.0181  
Batch 237/248, train\_loss: 0.0898, step time: 1.0210  
Batch 238/248, train\_loss: 0.1030, step time: 1.0155  
Batch 239/248, train\_loss: 0.0557, step time: 1.0160  
Batch 240/248, train\_loss: 0.2437, step time: 1.0171  
Batch 241/248, train\_loss: 0.4059, step time: 1.0190  
Batch 242/248, train\_loss: 0.1403, step time: 1.0169

```
Batch 243/248, train_loss: 0.4333, step time: 1.0182  
Batch 244/248, train_loss: 0.3917, step time: 1.0174  
Batch 245/248, train_loss: 0.0595, step time: 1.0119  
Batch 246/248, train_loss: 0.5257, step time: 1.0199  
Batch 247/248, train_loss: 0.0761, step time: 1.0159  
Batch 248/248, train_loss: 0.9998, step time: 1.0114
```

Labels



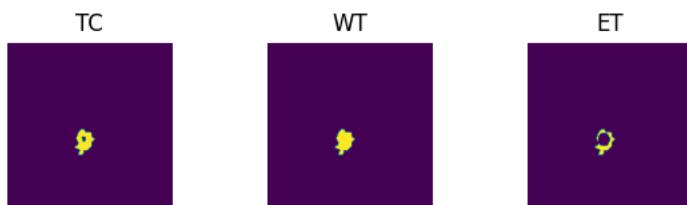
Predictions



VAL

```
Batch 1/31, val_loss: 0.9374  
Batch 2/31, val_loss: 0.9922  
Batch 3/31, val_loss: 0.9589  
Batch 4/31, val_loss: 0.9350  
Batch 5/31, val_loss: 0.9943  
Batch 6/31, val_loss: 0.6932  
Batch 7/31, val_loss: 0.8261  
Batch 8/31, val_loss: 0.9711  
Batch 9/31, val_loss: 0.6882  
Batch 10/31, val_loss: 0.9060  
Batch 11/31, val_loss: 0.8191  
Batch 12/31, val_loss: 0.9715  
Batch 13/31, val_loss: 0.9923  
Batch 14/31, val_loss: 0.9400  
Batch 15/31, val_loss: 0.9935  
Batch 16/31, val_loss: 0.9728  
Batch 17/31, val_loss: 0.9748  
Batch 18/31, val_loss: 0.9455  
Batch 19/31, val_loss: 0.7405  
Batch 20/31, val_loss: 0.8773  
Batch 21/31, val_loss: 0.8613  
Batch 22/31, val_loss: 0.9696  
Batch 23/31, val_loss: 0.9800  
Batch 24/31, val_loss: 0.7440  
Batch 25/31, val_loss: 0.7942  
Batch 26/31, val_loss: 0.9174  
Batch 27/31, val_loss: 0.9735  
Batch 28/31, val_loss: 0.7380  
Batch 29/31, val_loss: 0.9804  
Batch 30/31, val_loss: 0.9592  
Batch 31/31, val_loss: 0.9840
```

Labels



Predictions



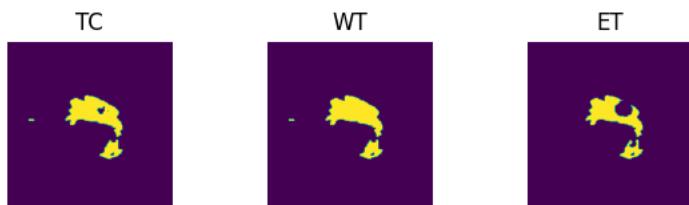
```
epoch 80
    average train loss: 0.2555
    average validation loss: 0.9042
    saved as best model: False
    current mean dice: 0.5091
    current TC dice: 0.5280
    current WT dice: 0.5396
    current ET dice: 0.5026
Best Mean Metric: 0.5258
time consuming of epoch 80 is: 1567.2310
-----
epoch 81/100
TRAIN
    Batch 1/248, train_loss: 0.0755, step time: 1.0160
    Batch 2/248, train_loss: 0.5598, step time: 1.0210
    Batch 3/248, train_loss: 0.2214, step time: 1.0188
    Batch 4/248, train_loss: 0.7680, step time: 1.0204
    Batch 5/248, train_loss: 0.1662, step time: 1.0162
    Batch 6/248, train_loss: 0.4702, step time: 1.0173
    Batch 7/248, train_loss: 0.0599, step time: 1.0166
    Batch 8/248, train_loss: 0.7198, step time: 1.0150
    Batch 9/248, train_loss: 0.0380, step time: 1.0151
    Batch 10/248, train_loss: 0.2171, step time: 1.0194
    Batch 11/248, train_loss: 0.1504, step time: 1.0161
    Batch 12/248, train_loss: 0.3658, step time: 1.0182
    Batch 13/248, train_loss: 0.2521, step time: 1.0172
    Batch 14/248, train_loss: 0.0547, step time: 1.0160
    Batch 15/248, train_loss: 0.3094, step time: 1.0160
    Batch 16/248, train_loss: 0.1545, step time: 1.0158
    Batch 17/248, train_loss: 0.2039, step time: 1.0161
    Batch 18/248, train_loss: 0.3613, step time: 1.0157
    Batch 19/248, train_loss: 0.1546, step time: 1.0178
    Batch 20/248, train_loss: 0.1381, step time: 1.0185
    Batch 21/248, train_loss: 0.0699, step time: 1.0172
    Batch 22/248, train_loss: 0.3032, step time: 1.0203
    Batch 23/248, train_loss: 0.9975, step time: 1.0149
    Batch 24/248, train_loss: 0.0969, step time: 1.0158
    Batch 25/248, train_loss: 0.0556, step time: 1.0141
    Batch 26/248, train_loss: 0.3583, step time: 1.0196
    Batch 27/248, train_loss: 0.0660, step time: 1.0150
    Batch 28/248, train_loss: 0.1429, step time: 1.0171
    Batch 29/248, train_loss: 0.3186, step time: 1.0190
    Batch 30/248, train_loss: 0.2175, step time: 1.0188
    Batch 31/248, train_loss: 0.2614, step time: 1.0162
    Batch 32/248, train_loss: 0.0666, step time: 1.0175
    Batch 33/248, train_loss: 0.0639, step time: 1.0134
    Batch 34/248, train_loss: 0.0445, step time: 1.0138
    Batch 35/248, train_loss: 0.0497, step time: 1.0159
    Batch 36/248, train_loss: 0.3490, step time: 1.0208
    Batch 37/248, train_loss: 0.1291, step time: 1.0105
    Batch 38/248, train_loss: 0.2701, step time: 1.0139
    Batch 39/248, train_loss: 0.1840, step time: 1.0150
    Batch 40/248, train_loss: 0.4890, step time: 1.0185
    Batch 41/248, train_loss: 0.2304, step time: 1.0149
    Batch 42/248, train_loss: 0.0642, step time: 1.0145
    Batch 43/248, train_loss: 0.0473, step time: 1.0152
    Batch 44/248, train_loss: 0.2270, step time: 1.0189
    Batch 45/248, train_loss: 0.3615, step time: 1.0151
    Batch 46/248, train_loss: 0.1563, step time: 1.0171
    Batch 47/248, train_loss: 0.0626, step time: 1.0156
    Batch 48/248, train_loss: 0.1936, step time: 1.0148
    Batch 49/248, train_loss: 0.5326, step time: 1.0196
    Batch 50/248, train_loss: 0.1289, step time: 1.0168
    Batch 51/248, train_loss: 0.1121, step time: 1.0171
    Batch 52/248, train_loss: 0.0875, step time: 1.0164
    Batch 53/248, train_loss: 0.3647, step time: 1.0202
    Batch 54/248, train_loss: 0.2200, step time: 1.0180
    Batch 55/248, train_loss: 0.2517, step time: 1.0245
    Batch 56/248, train_loss: 0.1802, step time: 1.0181
    Batch 57/248, train_loss: 0.2775, step time: 1.0170
    Batch 58/248, train_loss: 0.0718, step time: 1.0143
    Batch 59/248, train_loss: 0.0849, step time: 1.0154
    Batch 60/248, train_loss: 0.0497, step time: 1.0124
    Batch 61/248, train_loss: 0.0835, step time: 1.0159
    Batch 62/248, train_loss: 0.1976, step time: 1.0151
    Batch 63/248, train_loss: 0.6298, step time: 1.0139
    Batch 64/248, train_loss: 0.3258, step time: 1.0183
    Batch 65/248, train_loss: 0.2552, step time: 1.0192
    Batch 66/248, train_loss: 0.1259, step time: 1.0158
    Batch 67/248, train_loss: 0.0696, step time: 1.0152
    Batch 68/248, train_loss: 0.1640, step time: 1.0189
    Batch 69/248, train_loss: 0.3250, step time: 1.0207
    Batch 70/248, train_loss: 0.1296, step time: 1.0185
    Batch 71/248, train_loss: 0.1313, step time: 1.0170
    Batch 72/248, train_loss: 0.0578, step time: 1.0156
```

Batch 73/248, train\_loss: 0.3137, step time: 1.0139  
Batch 74/248, train\_loss: 0.9958, step time: 1.0122  
Batch 75/248, train\_loss: 0.1405, step time: 1.0178  
Batch 76/248, train\_loss: 0.5254, step time: 1.0209  
Batch 77/248, train\_loss: 0.7441, step time: 1.0178  
Batch 78/248, train\_loss: 0.0980, step time: 1.0153  
Batch 79/248, train\_loss: 0.1349, step time: 1.0162  
Batch 80/248, train\_loss: 0.1960, step time: 1.0168  
Batch 81/248, train\_loss: 0.1699, step time: 1.0199  
Batch 82/248, train\_loss: 0.0760, step time: 1.0150  
Batch 83/248, train\_loss: 0.4675, step time: 1.0228  
Batch 84/248, train\_loss: 0.2274, step time: 1.0187  
Batch 85/248, train\_loss: 0.3081, step time: 1.0182  
Batch 86/248, train\_loss: 0.3607, step time: 0.9849  
Batch 87/248, train\_loss: 0.4157, step time: 1.0164  
Batch 88/248, train\_loss: 0.2767, step time: 1.0148  
Batch 89/248, train\_loss: 0.1132, step time: 1.0157  
Batch 90/248, train\_loss: 0.3011, step time: 1.0165  
Batch 91/248, train\_loss: 0.3243, step time: 1.0178  
Batch 92/248, train\_loss: 0.2974, step time: 1.0182  
Batch 93/248, train\_loss: 0.1538, step time: 1.0142  
Batch 94/248, train\_loss: 0.2981, step time: 1.0189  
Batch 95/248, train\_loss: 0.1711, step time: 1.0139  
Batch 96/248, train\_loss: 0.1477, step time: 1.0150  
Batch 97/248, train\_loss: 0.3810, step time: 1.0179  
Batch 98/248, train\_loss: 0.1200, step time: 1.0141  
Batch 99/248, train\_loss: 0.2734, step time: 1.0158  
Batch 100/248, train\_loss: 0.2674, step time: 1.0177  
Batch 101/248, train\_loss: 0.0502, step time: 1.0115  
Batch 102/248, train\_loss: 0.1254, step time: 1.0154  
Batch 103/248, train\_loss: 0.2992, step time: 1.0161  
Batch 104/248, train\_loss: 0.2899, step time: 1.0157  
Batch 105/248, train\_loss: 0.0720, step time: 1.0140  
Batch 106/248, train\_loss: 0.0932, step time: 1.0148  
Batch 107/248, train\_loss: 0.3210, step time: 1.0181  
Batch 108/248, train\_loss: 0.5315, step time: 1.0176  
Batch 109/248, train\_loss: 0.8962, step time: 1.0177  
Batch 110/248, train\_loss: 0.2367, step time: 1.0167  
Batch 111/248, train\_loss: 0.0874, step time: 1.0133  
Batch 112/248, train\_loss: 0.0833, step time: 1.0127  
Batch 113/248, train\_loss: 0.8194, step time: 1.0177  
Batch 114/248, train\_loss: 0.1422, step time: 1.0143  
Batch 115/248, train\_loss: 0.1621, step time: 1.0154  
Batch 116/248, train\_loss: 0.0651, step time: 1.0155  
Batch 117/248, train\_loss: 0.5790, step time: 1.0206  
Batch 118/248, train\_loss: 0.4274, step time: 1.0184  
Batch 119/248, train\_loss: 0.2835, step time: 1.0151  
Batch 120/248, train\_loss: 0.2239, step time: 1.0152  
Batch 121/248, train\_loss: 0.2984, step time: 1.0182  
Batch 122/248, train\_loss: 0.4352, step time: 1.0187  
Batch 123/248, train\_loss: 0.0911, step time: 1.0165  
Batch 124/248, train\_loss: 0.3523, step time: 1.0203  
Batch 125/248, train\_loss: 0.5918, step time: 1.0201  
Batch 126/248, train\_loss: 0.2061, step time: 1.0176  
Batch 127/248, train\_loss: 0.1336, step time: 1.0170  
Batch 128/248, train\_loss: 0.3097, step time: 1.0203  
Batch 129/248, train\_loss: 0.1019, step time: 1.0156  
Batch 130/248, train\_loss: 0.0875, step time: 1.0144  
Batch 131/248, train\_loss: 0.4133, step time: 1.0172  
Batch 132/248, train\_loss: 0.1926, step time: 1.0145  
Batch 133/248, train\_loss: 0.1341, step time: 1.0141  
Batch 134/248, train\_loss: 0.6675, step time: 1.0191  
Batch 135/248, train\_loss: 0.2563, step time: 1.0170  
Batch 136/248, train\_loss: 0.0873, step time: 1.0115  
Batch 137/248, train\_loss: 0.1123, step time: 1.0159  
Batch 138/248, train\_loss: 0.0569, step time: 1.0151  
Batch 139/248, train\_loss: 0.2093, step time: 1.0152  
Batch 140/248, train\_loss: 0.1821, step time: 1.0165  
Batch 141/248, train\_loss: 0.2531, step time: 1.0174  
Batch 142/248, train\_loss: 0.4235, step time: 1.0173  
Batch 143/248, train\_loss: 0.2139, step time: 1.0187  
Batch 144/248, train\_loss: 0.1192, step time: 1.0134  
Batch 145/248, train\_loss: 0.0572, step time: 1.0154  
Batch 146/248, train\_loss: 0.6664, step time: 1.0148  
Batch 147/248, train\_loss: 0.0426, step time: 1.0136  
Batch 148/248, train\_loss: 0.5337, step time: 1.0190  
Batch 149/248, train\_loss: 0.1076, step time: 1.0142  
Batch 150/248, train\_loss: 0.6385, step time: 1.0163  
Batch 151/248, train\_loss: 0.2606, step time: 1.0154  
Batch 152/248, train\_loss: 0.0355, step time: 1.0134  
Batch 153/248, train\_loss: 0.2086, step time: 1.0166  
Batch 154/248, train\_loss: 0.5704, step time: 1.0213  
Batch 155/248, train\_loss: 0.1382, step time: 1.0171  
Batch 156/248, train\_loss: 0.1556, step time: 1.0182  
Batch 157/248, train\_loss: 0.1870, step time: 1.0167

Batch 127/248, train\_loss: 0.1070, step time: 1.0162  
Batch 128/248, train\_loss: 0.0955, step time: 1.0162  
Batch 129/248, train\_loss: 0.0955, step time: 1.0162  
Batch 130/248, train\_loss: 0.0955, step time: 1.0162  
Batch 131/248, train\_loss: 0.0955, step time: 1.0162  
Batch 132/248, train\_loss: 0.0955, step time: 1.0162  
Batch 133/248, train\_loss: 0.0955, step time: 1.0162  
Batch 134/248, train\_loss: 0.0955, step time: 1.0162  
Batch 135/248, train\_loss: 0.0955, step time: 1.0162  
Batch 136/248, train\_loss: 0.0955, step time: 1.0162  
Batch 137/248, train\_loss: 0.0955, step time: 1.0162  
Batch 138/248, train\_loss: 0.0955, step time: 1.0162  
Batch 139/248, train\_loss: 0.0955, step time: 1.0162  
Batch 140/248, train\_loss: 0.0955, step time: 1.0162  
Batch 141/248, train\_loss: 0.0955, step time: 1.0162  
Batch 142/248, train\_loss: 0.0955, step time: 1.0162  
Batch 143/248, train\_loss: 0.0955, step time: 1.0162  
Batch 144/248, train\_loss: 0.0955, step time: 1.0162  
Batch 145/248, train\_loss: 0.0955, step time: 1.0162  
Batch 146/248, train\_loss: 0.0955, step time: 1.0162  
Batch 147/248, train\_loss: 0.0955, step time: 1.0162  
Batch 148/248, train\_loss: 0.0955, step time: 1.0162  
Batch 149/248, train\_loss: 0.0955, step time: 1.0162  
Batch 150/248, train\_loss: 0.0955, step time: 1.0162  
Batch 151/248, train\_loss: 0.0955, step time: 1.0162  
Batch 152/248, train\_loss: 0.0955, step time: 1.0162  
Batch 153/248, train\_loss: 0.0955, step time: 1.0162  
Batch 154/248, train\_loss: 0.0955, step time: 1.0162  
Batch 155/248, train\_loss: 0.0955, step time: 1.0162  
Batch 156/248, train\_loss: 0.0955, step time: 1.0162  
Batch 157/248, train\_loss: 0.0955, step time: 1.0162  
Batch 158/248, train\_loss: 0.9931, step time: 1.0155  
Batch 159/248, train\_loss: 0.2985, step time: 1.0175  
Batch 160/248, train\_loss: 0.0929, step time: 1.0158  
Batch 161/248, train\_loss: 0.0875, step time: 1.0146  
Batch 162/248, train\_loss: 0.0749, step time: 1.0151  
Batch 163/248, train\_loss: 0.1423, step time: 1.0175  
Batch 164/248, train\_loss: 0.1599, step time: 1.0141  
Batch 165/248, train\_loss: 0.3542, step time: 1.0167  
Batch 166/248, train\_loss: 0.0735, step time: 1.0111  
Batch 167/248, train\_loss: 0.1685, step time: 1.0197  
Batch 168/248, train\_loss: 0.1373, step time: 1.0146  
Batch 169/248, train\_loss: 0.0787, step time: 1.0155  
Batch 170/248, train\_loss: 0.7263, step time: 1.0177  
Batch 171/248, train\_loss: 0.0732, step time: 1.0147  
Batch 172/248, train\_loss: 0.3410, step time: 1.0168  
Batch 173/248, train\_loss: 0.0872, step time: 1.0148  
Batch 174/248, train\_loss: 0.4349, step time: 1.0183  
Batch 175/248, train\_loss: 0.1540, step time: 1.0163  
Batch 176/248, train\_loss: 0.3223, step time: 1.0137  
Batch 177/248, train\_loss: 0.2093, step time: 1.0159  
Batch 178/248, train\_loss: 0.2647, step time: 1.0186  
Batch 179/248, train\_loss: 0.0836, step time: 1.0145  
Batch 180/248, train\_loss: 0.2364, step time: 1.0171  
Batch 181/248, train\_loss: 0.1060, step time: 1.0152  
Batch 182/248, train\_loss: 0.9717, step time: 1.0134  
Batch 183/248, train\_loss: 0.1442, step time: 1.0154  
Batch 184/248, train\_loss: 0.2807, step time: 1.0140  
Batch 185/248, train\_loss: 0.0896, step time: 1.0136  
Batch 186/248, train\_loss: 0.0967, step time: 1.0146  
Batch 187/248, train\_loss: 0.1697, step time: 1.0130  
Batch 188/248, train\_loss: 0.3878, step time: 1.0162  
Batch 189/248, train\_loss: 0.4615, step time: 1.0141  
Batch 190/248, train\_loss: 0.1295, step time: 1.0162  
Batch 191/248, train\_loss: 0.5661, step time: 1.0160  
Batch 192/248, train\_loss: 0.2752, step time: 1.0183  
Batch 193/248, train\_loss: 0.3003, step time: 1.0177  
Batch 194/248, train\_loss: 0.0774, step time: 1.0144  
Batch 195/248, train\_loss: 0.6577, step time: 1.0163  
Batch 196/248, train\_loss: 0.8805, step time: 1.0205  
Batch 197/248, train\_loss: 0.1657, step time: 1.0157  
Batch 198/248, train\_loss: 0.4459, step time: 1.0184  
Batch 199/248, train\_loss: 0.1319, step time: 1.0164  
Batch 200/248, train\_loss: 0.1077, step time: 1.0157  
Batch 201/248, train\_loss: 0.1129, step time: 1.0177  
Batch 202/248, train\_loss: 0.3389, step time: 1.0161  
Batch 203/248, train\_loss: 0.5336, step time: 1.0173  
Batch 204/248, train\_loss: 0.0957, step time: 1.0145  
Batch 205/248, train\_loss: 0.2142, step time: 1.0176  
Batch 206/248, train\_loss: 0.3420, step time: 1.0187  
Batch 207/248, train\_loss: 0.0813, step time: 1.0168  
Batch 208/248, train\_loss: 0.1492, step time: 1.0179  
Batch 209/248, train\_loss: 0.1578, step time: 1.0188  
Batch 210/248, train\_loss: 0.0525, step time: 1.0127  
Batch 211/248, train\_loss: 0.0614, step time: 1.0092  
Batch 212/248, train\_loss: 0.1854, step time: 1.0177  
Batch 213/248, train\_loss: 0.1419, step time: 1.0219  
Batch 214/248, train\_loss: 0.0744, step time: 1.0165  
Batch 215/248, train\_loss: 0.1835, step time: 1.0172  
Batch 216/248, train\_loss: 0.1189, step time: 1.0150  
Batch 217/248, train\_loss: 0.6334, step time: 1.0191  
Batch 218/248, train\_loss: 0.8136, step time: 1.0203  
Batch 219/248, train\_loss: 0.0705, step time: 1.0182  
Batch 220/248, train\_loss: 0.1815, step time: 1.0142  
Batch 221/248, train\_loss: 0.2588, step time: 1.0178  
Batch 222/248, train\_loss: 0.1958, step time: 1.0167  
Batch 223/248, train\_loss: 0.0417, step time: 1.0146  
Batch 224/248, train\_loss: 0.0717, step time: 1.0134  
Batch 225/248, train\_loss: 0.1623, step time: 1.0190  
Batch 226/248, train\_loss: 0.2859, step time: 1.0171  
Batch 227/248, train\_loss: 0.0994, step time: 1.0125  
Batch 228/248, train\_loss: 0.1433, step time: 1.0152  
Batch 229/248, train\_loss: 0.0966, step time: 1.0146  
Batch 230/248, train\_loss: 0.0607, step time: 1.0142  
Batch 231/248, train\_loss: 0.4258, step time: 1.0189  
Batch 232/248, train\_loss: 0.0830, step time: 1.0168  
Batch 233/248, train\_loss: 0.8752, step time: 1.0190  
Batch 234/248, train\_loss: 0.4932, step time: 1.0162  
Batch 235/248, train\_loss: 0.2679, step time: 1.0207  
Batch 236/248, train\_loss: 0.7628, step time: 1.0186  
Batch 237/248, train\_loss: 0.1117, step time: 1.0160  
Batch 238/248, train\_loss: 0.0959, step time: 1.0165  
Batch 239/248, train\_loss: 0.0860, step time: 1.0179  
Batch 240/248, train\_loss: 0.5098, step time: 1.0167  
Batch 241/248, train\_loss: 0.4261, step time: 1.0177

```
Batch 242/248, train_loss: 0.1660, step time: 1.0170  
Batch 243/248, train_loss: 0.4293, step time: 1.0159  
Batch 244/248, train_loss: 0.6253, step time: 1.0195  
Batch 245/248, train_loss: 0.0739, step time: 1.0132  
Batch 246/248, train_loss: 0.5569, step time: 1.0149  
Batch 247/248, train_loss: 0.0940, step time: 1.0150  
Batch 248/248, train_loss: 0.9997, step time: 1.0127
```

Labels



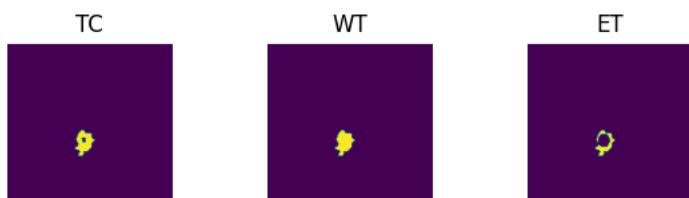
Predictions



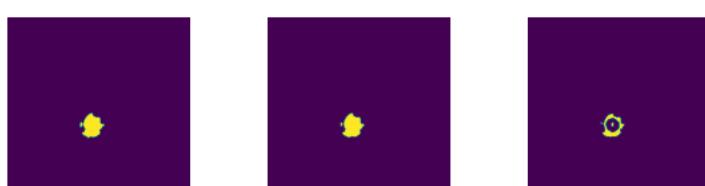
#### VAL

```
Batch 1/31, val_loss: 0.9622  
Batch 2/31, val_loss: 0.9947  
Batch 3/31, val_loss: 0.9603  
Batch 4/31, val_loss: 0.9369  
Batch 5/31, val_loss: 0.9942  
Batch 6/31, val_loss: 0.7198  
Batch 7/31, val_loss: 0.8651  
Batch 8/31, val_loss: 0.9562  
Batch 9/31, val_loss: 0.7105  
Batch 10/31, val_loss: 0.9059  
Batch 11/31, val_loss: 0.8203  
Batch 12/31, val_loss: 0.9739  
Batch 13/31, val_loss: 0.9907  
Batch 14/31, val_loss: 0.9459  
Batch 15/31, val_loss: 0.9956  
Batch 16/31, val_loss: 0.9727  
Batch 17/31, val_loss: 0.9709  
Batch 18/31, val_loss: 0.9343  
Batch 19/31, val_loss: 0.7417  
Batch 20/31, val_loss: 0.8782  
Batch 21/31, val_loss: 0.8623  
Batch 22/31, val_loss: 0.9679  
Batch 23/31, val_loss: 0.9786  
Batch 24/31, val_loss: 0.7472  
Batch 25/31, val_loss: 0.7969  
Batch 26/31, val_loss: 0.9148  
Batch 27/31, val_loss: 0.9715  
Batch 28/31, val_loss: 0.7655  
Batch 29/31, val_loss: 0.9798  
Batch 30/31, val_loss: 0.9504  
Batch 31/31, val_loss: 0.9838
```

Labels



Predictions



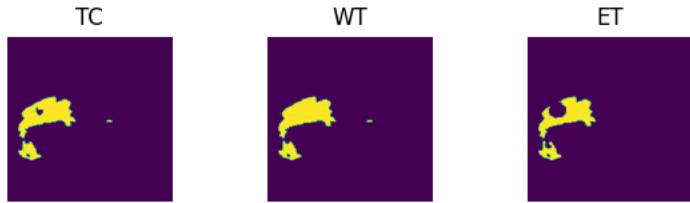
```
epoch 81
average train loss: 0.2616
average validation loss: 0.9080
saved as best model: False
current mean dice: 0.5025
current TC dice: 0.5228
current WT dice: 0.5296
current ET dice: 0.4996
Best Mean Metric: 0.5258
time consuming of epoch 81 is: 1565.9498
-----
epoch 82/100
TRAIN
Batch 1/248, train_loss: 0.0957, step time: 1.0161
Batch 2/248, train_loss: 0.6700, step time: 1.0227
Batch 3/248, train_loss: 0.2902, step time: 1.0183
Batch 4/248, train_loss: 0.8584, step time: 1.0182
Batch 5/248, train_loss: 0.2292, step time: 1.0163
Batch 6/248, train_loss: 0.4210, step time: 1.0163
Batch 7/248, train_loss: 0.0665, step time: 1.0155
Batch 8/248, train_loss: 0.6865, step time: 1.0162
Batch 9/248, train_loss: 0.0381, step time: 1.0155
Batch 10/248, train_loss: 0.2308, step time: 1.0159
Batch 11/248, train_loss: 0.1356, step time: 1.0149
Batch 12/248, train_loss: 0.3734, step time: 1.0170
Batch 13/248, train_loss: 0.3027, step time: 1.0160
Batch 14/248, train_loss: 0.0555, step time: 1.0154
Batch 15/248, train_loss: 0.2933, step time: 1.0200
Batch 16/248, train_loss: 0.1265, step time: 1.0119
Batch 17/248, train_loss: 0.2413, step time: 1.0179
Batch 18/248, train_loss: 0.4201, step time: 1.0189
Batch 19/248, train_loss: 0.0897, step time: 1.0103
Batch 20/248, train_loss: 0.1198, step time: 1.0177
Batch 21/248, train_loss: 0.0525, step time: 1.0142
Batch 22/248, train_loss: 0.5727, step time: 1.0196
Batch 23/248, train_loss: 0.9979, step time: 1.0127
Batch 24/248, train_loss: 0.0716, step time: 1.0165
Batch 25/248, train_loss: 0.0548, step time: 1.0141
Batch 26/248, train_loss: 0.3419, step time: 1.0168
Batch 27/248, train_loss: 0.0664, step time: 1.0154
Batch 28/248, train_loss: 0.1431, step time: 1.0189
Batch 29/248, train_loss: 0.3251, step time: 1.0196
Batch 30/248, train_loss: 0.2159, step time: 1.0168
Batch 31/248, train_loss: 0.2675, step time: 1.0187
Batch 32/248, train_loss: 0.0684, step time: 1.0134
Batch 33/248, train_loss: 0.0676, step time: 1.0115
Batch 34/248, train_loss: 0.0414, step time: 1.0110
Batch 35/248, train_loss: 0.0416, step time: 1.0145
Batch 36/248, train_loss: 0.3750, step time: 1.0161
Batch 37/248, train_loss: 0.1326, step time: 1.0109
Batch 38/248, train_loss: 0.2728, step time: 1.0162
Batch 39/248, train_loss: 0.1880, step time: 1.0151
Batch 40/248, train_loss: 0.4991, step time: 1.0169
Batch 41/248, train_loss: 0.2159, step time: 1.0168
Batch 42/248, train_loss: 0.0609, step time: 1.0138
Batch 43/248, train_loss: 0.0462, step time: 1.0137
Batch 44/248, train_loss: 0.2958, step time: 1.0182
Batch 45/248, train_loss: 0.3713, step time: 1.0183
Batch 46/248, train_loss: 0.1574, step time: 1.0161
Batch 47/248, train_loss: 0.2141, step time: 1.0186
Batch 48/248, train_loss: 0.2631, step time: 1.0195
Batch 49/248, train_loss: 0.4881, step time: 1.0165
Batch 50/248, train_loss: 0.1446, step time: 1.0161
Batch 51/248, train_loss: 0.1378, step time: 1.0186
Batch 52/248, train_loss: 0.0874, step time: 1.0149
Batch 53/248, train_loss: 0.3868, step time: 1.0176
Batch 54/248, train_loss: 0.2416, step time: 1.0173
Batch 55/248, train_loss: 0.2376, step time: 1.0194
Batch 56/248, train_loss: 0.1971, step time: 1.0130
Batch 57/248, train_loss: 0.2850, step time: 1.0161
Batch 58/248, train_loss: 0.0716, step time: 1.0160
Batch 59/248, train_loss: 0.0863, step time: 1.0114
Batch 60/248, train_loss: 0.0506, step time: 1.0136
Batch 61/248, train_loss: 0.0893, step time: 1.0145
Batch 62/248, train_loss: 0.1852, step time: 1.0145
Batch 63/248, train_loss: 0.5542, step time: 1.0169
Batch 64/248, train_loss: 0.3503, step time: 1.0183
Batch 65/248, train_loss: 0.2860, step time: 1.0176
Batch 66/248, train_loss: 0.1244, step time: 1.0171
Batch 67/248, train_loss: 0.0720, step time: 1.0136
Batch 68/248, train_loss: 0.1676, step time: 1.0153
Batch 69/248, train_loss: 0.3065, step time: 1.0196
Batch 70/248, train_loss: 0.1389, step time: 1.0229
Batch 71/248, train_loss: 0.1610, step time: 1.0170
Batch 72/248, train_loss: 0.0572, step time: 1.0117
```

Batch 1/248, train\_loss: 0.0575, step time: 1.0147  
Batch 2/248, train\_loss: 0.1643, step time: 1.0151  
Batch 3/248, train\_loss: 0.9970, step time: 1.0145  
Batch 4/248, train\_loss: 0.1208, step time: 1.0150  
Batch 5/248, train\_loss: 0.5893, step time: 1.0193  
Batch 6/248, train\_loss: 0.7554, step time: 1.0186  
Batch 7/248, train\_loss: 0.1036, step time: 1.0166  
Batch 8/248, train\_loss: 0.1432, step time: 1.0140  
Batch 9/248, train\_loss: 0.1872, step time: 1.0158  
Batch 10/248, train\_loss: 0.1479, step time: 1.0203  
Batch 11/248, train\_loss: 0.0767, step time: 1.0159  
Batch 12/248, train\_loss: 0.4583, step time: 1.0195  
Batch 13/248, train\_loss: 0.2830, step time: 1.0173  
Batch 14/248, train\_loss: 0.3610, step time: 1.0186  
Batch 15/248, train\_loss: 0.2713, step time: 1.0145  
Batch 16/248, train\_loss: 0.4271, step time: 1.0169  
Batch 17/248, train\_loss: 0.2692, step time: 1.0168  
Batch 18/248, train\_loss: 0.0811, step time: 1.0173  
Batch 19/248, train\_loss: 0.2061, step time: 1.0157  
Batch 20/248, train\_loss: 0.3221, step time: 1.0185  
Batch 21/248, train\_loss: 0.2303, step time: 1.0162  
Batch 22/248, train\_loss: 0.1495, step time: 1.0133  
Batch 23/248, train\_loss: 0.2455, step time: 1.0185  
Batch 24/248, train\_loss: 0.1684, step time: 1.0154  
Batch 25/248, train\_loss: 0.1466, step time: 1.0184  
Batch 26/248, train\_loss: 0.3562, step time: 1.0203  
Batch 27/248, train\_loss: 0.1004, step time: 1.0166  
Batch 28/248, train\_loss: 0.2912, step time: 1.0174  
Batch 29/248, train\_loss: 0.2631, step time: 1.0190  
Batch 30/248, train\_loss: 0.0542, step time: 1.0105  
Batch 31/248, train\_loss: 0.1261, step time: 1.0174  
Batch 32/248, train\_loss: 0.3115, step time: 1.0173  
Batch 33/248, train\_loss: 0.3358, step time: 1.0161  
Batch 34/248, train\_loss: 0.0768, step time: 1.0150  
Batch 35/248, train\_loss: 0.0937, step time: 1.0166  
Batch 36/248, train\_loss: 0.4967, step time: 1.0194  
Batch 37/248, train\_loss: 0.3833, step time: 1.0149  
Batch 38/248, train\_loss: 0.9722, step time: 1.0175  
Batch 39/248, train\_loss: 0.2501, step time: 1.0175  
Batch 40/248, train\_loss: 0.1028, step time: 1.0167  
Batch 41/248, train\_loss: 0.1460, step time: 1.0139  
Batch 42/248, train\_loss: 0.7721, step time: 1.0169  
Batch 43/248, train\_loss: 0.1377, step time: 1.0154  
Batch 44/248, train\_loss: 0.1919, step time: 1.0163  
Batch 45/248, train\_loss: 0.0872, step time: 1.0108  
Batch 46/248, train\_loss: 0.6573, step time: 1.0161  
Batch 47/248, train\_loss: 0.3550, step time: 1.0151  
Batch 48/248, train\_loss: 0.3256, step time: 1.0184  
Batch 49/248, train\_loss: 0.2163, step time: 1.0167  
Batch 50/248, train\_loss: 0.2641, step time: 1.0162  
Batch 51/248, train\_loss: 0.3769, step time: 1.0195  
Batch 52/248, train\_loss: 0.1034, step time: 1.0156  
Batch 53/248, train\_loss: 0.2297, step time: 1.0187  
Batch 54/248, train\_loss: 0.5191, step time: 1.0181  
Batch 55/248, train\_loss: 0.1726, step time: 1.0174  
Batch 56/248, train\_loss: 0.1178, step time: 1.0178  
Batch 57/248, train\_loss: 0.3481, step time: 1.0173  
Batch 58/248, train\_loss: 0.1312, step time: 1.0169  
Batch 59/248, train\_loss: 0.0914, step time: 1.0153  
Batch 60/248, train\_loss: 0.4505, step time: 1.0178  
Batch 61/248, train\_loss: 0.2688, step time: 1.0178  
Batch 62/248, train\_loss: 0.1414, step time: 1.0148  
Batch 63/248, train\_loss: 0.7850, step time: 1.0207  
Batch 64/248, train\_loss: 0.2175, step time: 1.0175  
Batch 65/248, train\_loss: 0.0959, step time: 1.0114  
Batch 66/248, train\_loss: 0.1232, step time: 1.0156  
Batch 67/248, train\_loss: 0.0661, step time: 1.0143  
Batch 68/248, train\_loss: 0.2382, step time: 1.0196  
Batch 69/248, train\_loss: 0.1905, step time: 1.0157  
Batch 70/248, train\_loss: 0.2259, step time: 1.0162  
Batch 71/248, train\_loss: 0.4619, step time: 1.0186  
Batch 72/248, train\_loss: 0.2260, step time: 1.0150  
Batch 73/248, train\_loss: 0.1216, step time: 1.0145  
Batch 74/248, train\_loss: 0.0740, step time: 1.0169  
Batch 75/248, train\_loss: 0.5157, step time: 1.0160  
Batch 76/248, train\_loss: 0.0438, step time: 1.0143  
Batch 77/248, train\_loss: 0.4916, step time: 1.0167  
Batch 78/248, train\_loss: 0.1181, step time: 1.0139  
Batch 79/248, train\_loss: 0.6580, step time: 1.0172  
Batch 80/248, train\_loss: 0.3722, step time: 1.0198  
Batch 81/248, train\_loss: 0.0361, step time: 1.0137  
Batch 82/248, train\_loss: 0.1670, step time: 1.0152  
Batch 83/248, train\_loss: 0.5809, step time: 1.0184  
Batch 84/248, train\_loss: 0.1149, step time: 1.0169  
Batch 85/248, train\_loss: 0.1710, step time: 1.0182  
... -----

Batch 157/248, train\_loss: 0.1978, step time: 1.0162  
Batch 158/248, train\_loss: 0.9857, step time: 1.0149  
Batch 159/248, train\_loss: 0.2596, step time: 1.0163  
Batch 160/248, train\_loss: 0.1083, step time: 1.0148  
Batch 161/248, train\_loss: 0.1037, step time: 1.0169  
Batch 162/248, train\_loss: 0.0704, step time: 1.0156  
Batch 163/248, train\_loss: 0.2378, step time: 1.0180  
Batch 164/248, train\_loss: 0.1477, step time: 1.0119  
Batch 165/248, train\_loss: 0.6230, step time: 1.0166  
Batch 166/248, train\_loss: 0.0863, step time: 1.0154  
Batch 167/248, train\_loss: 0.1695, step time: 1.0177  
Batch 168/248, train\_loss: 0.1419, step time: 1.0146  
Batch 169/248, train\_loss: 0.0734, step time: 1.0129  
Batch 170/248, train\_loss: 0.6785, step time: 1.0174  
Batch 171/248, train\_loss: 0.0857, step time: 1.0149  
Batch 172/248, train\_loss: 0.3822, step time: 1.0182  
Batch 173/248, train\_loss: 0.0929, step time: 1.0141  
Batch 174/248, train\_loss: 0.5856, step time: 1.0183  
Batch 175/248, train\_loss: 0.1634, step time: 1.0166  
Batch 176/248, train\_loss: 0.3544, step time: 1.0137  
Batch 177/248, train\_loss: 0.3324, step time: 1.0202  
Batch 178/248, train\_loss: 0.4844, step time: 1.0201  
Batch 179/248, train\_loss: 0.1041, step time: 1.0228  
Batch 180/248, train\_loss: 0.2306, step time: 1.0203  
Batch 181/248, train\_loss: 0.1161, step time: 1.0159  
Batch 182/248, train\_loss: 0.9431, step time: 1.0165  
Batch 183/248, train\_loss: 0.1849, step time: 1.0162  
Batch 184/248, train\_loss: 0.2595, step time: 1.0173  
Batch 185/248, train\_loss: 0.0792, step time: 1.0156  
Batch 186/248, train\_loss: 0.1057, step time: 1.0171  
Batch 187/248, train\_loss: 0.1930, step time: 1.0172  
Batch 188/248, train\_loss: 0.2457, step time: 1.0175  
Batch 189/248, train\_loss: 0.4527, step time: 1.0144  
Batch 190/248, train\_loss: 0.1184, step time: 1.0153  
Batch 191/248, train\_loss: 0.5536, step time: 1.0170  
Batch 192/248, train\_loss: 0.2925, step time: 1.0165  
Batch 193/248, train\_loss: 0.2536, step time: 1.0179  
Batch 194/248, train\_loss: 0.0757, step time: 1.0153  
Batch 195/248, train\_loss: 0.6098, step time: 1.0182  
Batch 196/248, train\_loss: 0.9949, step time: 1.0114  
Batch 197/248, train\_loss: 0.1878, step time: 1.0150  
Batch 198/248, train\_loss: 0.4814, step time: 1.0148  
Batch 199/248, train\_loss: 0.1456, step time: 1.0175  
Batch 200/248, train\_loss: 0.1287, step time: 1.0157  
Batch 201/248, train\_loss: 0.1164, step time: 1.0143  
Batch 202/248, train\_loss: 0.3496, step time: 1.0166  
Batch 203/248, train\_loss: 0.4508, step time: 1.0164  
Batch 204/248, train\_loss: 0.0734, step time: 1.0102  
Batch 205/248, train\_loss: 0.2180, step time: 1.0128  
Batch 206/248, train\_loss: 0.2788, step time: 1.0168  
Batch 207/248, train\_loss: 0.0830, step time: 1.0180  
Batch 208/248, train\_loss: 0.2064, step time: 1.0202  
Batch 209/248, train\_loss: 0.1327, step time: 1.0148  
Batch 210/248, train\_loss: 0.0574, step time: 1.0143  
Batch 211/248, train\_loss: 0.0567, step time: 1.0098  
Batch 212/248, train\_loss: 0.2284, step time: 1.0221  
Batch 213/248, train\_loss: 0.1388, step time: 1.0166  
Batch 214/248, train\_loss: 0.0680, step time: 1.0134  
Batch 215/248, train\_loss: 0.1575, step time: 1.0154  
Batch 216/248, train\_loss: 0.1240, step time: 1.0147  
Batch 217/248, train\_loss: 0.2454, step time: 1.0176  
Batch 218/248, train\_loss: 0.8288, step time: 1.0170  
Batch 219/248, train\_loss: 0.0555, step time: 1.0167  
Batch 220/248, train\_loss: 0.1861, step time: 1.0178  
Batch 221/248, train\_loss: 0.2682, step time: 1.0155  
Batch 222/248, train\_loss: 0.2048, step time: 1.0168  
Batch 223/248, train\_loss: 0.0408, step time: 1.0149  
Batch 224/248, train\_loss: 0.0767, step time: 1.0176  
Batch 225/248, train\_loss: 0.1521, step time: 1.0186  
Batch 226/248, train\_loss: 0.1037, step time: 1.0163  
Batch 227/248, train\_loss: 0.0824, step time: 1.0149  
Batch 228/248, train\_loss: 0.1566, step time: 1.0159  
Batch 229/248, train\_loss: 0.0855, step time: 1.0096  
Batch 230/248, train\_loss: 0.0671, step time: 1.0121  
Batch 231/248, train\_loss: 0.2436, step time: 1.0175  
Batch 232/248, train\_loss: 0.0683, step time: 1.0153  
Batch 233/248, train\_loss: 0.8247, step time: 1.0173  
Batch 234/248, train\_loss: 0.4254, step time: 1.0135  
Batch 235/248, train\_loss: 0.4084, step time: 1.0195  
Batch 236/248, train\_loss: 0.7016, step time: 1.0155  
Batch 237/248, train\_loss: 0.0978, step time: 1.0155  
Batch 238/248, train\_loss: 0.0974, step time: 1.0158  
Batch 239/248, train\_loss: 0.0617, step time: 1.0164  
Batch 240/248, train\_loss: 0.2822, step time: 1.0200  
Batch 241/248, train\_loss: 0.3380, step time: 1.0179

```
Batch 242/248, train_loss: 0.1308, step time: 1.0170  
Batch 243/248, train_loss: 0.4208, step time: 1.0172  
Batch 244/248, train_loss: 0.3769, step time: 1.0154  
Batch 245/248, train_loss: 0.0657, step time: 1.0134  
Batch 246/248, train_loss: 0.4571, step time: 1.0196  
Batch 247/248, train_loss: 0.0728, step time: 1.0136  
Batch 248/248, train_loss: 0.9998, step time: 1.0077
```

Labels



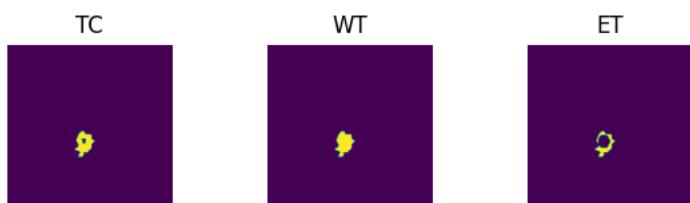
Predictions



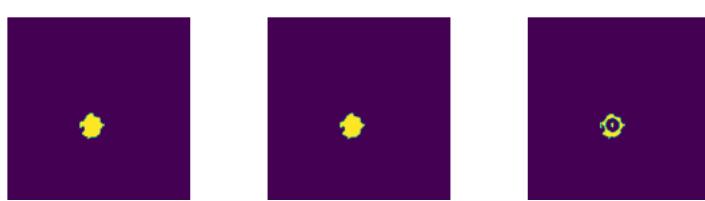
VAL

```
Batch 1/31, val_loss: 0.9347  
Batch 2/31, val_loss: 0.9907  
Batch 3/31, val_loss: 0.9587  
Batch 4/31, val_loss: 0.9372  
Batch 5/31, val_loss: 0.9932  
Batch 6/31, val_loss: 0.6899  
Batch 7/31, val_loss: 0.8296  
Batch 8/31, val_loss: 0.9618  
Batch 9/31, val_loss: 0.6907  
Batch 10/31, val_loss: 0.9037  
Batch 11/31, val_loss: 0.8225  
Batch 12/31, val_loss: 0.9684  
Batch 13/31, val_loss: 0.9889  
Batch 14/31, val_loss: 0.9399  
Batch 15/31, val_loss: 0.9960  
Batch 16/31, val_loss: 0.9729  
Batch 17/31, val_loss: 0.9724  
Batch 18/31, val_loss: 0.9400  
Batch 19/31, val_loss: 0.7383  
Batch 20/31, val_loss: 0.8822  
Batch 21/31, val_loss: 0.8564  
Batch 22/31, val_loss: 0.9703  
Batch 23/31, val_loss: 0.9746  
Batch 24/31, val_loss: 0.7471  
Batch 25/31, val_loss: 0.7955  
Batch 26/31, val_loss: 0.9152  
Batch 27/31, val_loss: 0.9667  
Batch 28/31, val_loss: 0.7630  
Batch 29/31, val_loss: 0.9802  
Batch 30/31, val_loss: 0.9569  
Batch 31/31, val_loss: 0.9840
```

Labels



Predictions



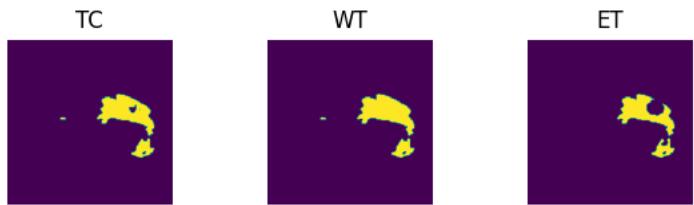
```
epoch 82
average train loss: 0.2616
average validation loss: 0.9039
saved as best model: False
current mean dice: 0.5014
current TC dice: 0.5223
current WT dice: 0.5288
current ET dice: 0.4953
Best Mean Metric: 0.5258
time consuming of epoch 82 is: 1571.1790
-----
epoch 83/100
TRAIN
Batch 1/248, train_loss: 0.0774, step time: 1.0188
Batch 2/248, train_loss: 0.6365, step time: 1.0186
Batch 3/248, train_loss: 0.2429, step time: 1.0154
Batch 4/248, train_loss: 0.8359, step time: 1.0168
Batch 5/248, train_loss: 0.1910, step time: 1.0135
Batch 6/248, train_loss: 0.4594, step time: 1.0177
Batch 7/248, train_loss: 0.0665, step time: 1.0144
Batch 8/248, train_loss: 0.6999, step time: 1.0149
Batch 9/248, train_loss: 0.0391, step time: 1.0161
Batch 10/248, train_loss: 0.2153, step time: 1.0164
Batch 11/248, train_loss: 0.1389, step time: 1.0143
Batch 12/248, train_loss: 0.3808, step time: 1.0187
Batch 13/248, train_loss: 0.2659, step time: 1.0225
Batch 14/248, train_loss: 0.0570, step time: 1.0156
Batch 15/248, train_loss: 0.3095, step time: 1.0169
Batch 16/248, train_loss: 0.1399, step time: 1.0164
Batch 17/248, train_loss: 0.2019, step time: 1.0164
Batch 18/248, train_loss: 0.3366, step time: 1.0200
Batch 19/248, train_loss: 0.1126, step time: 1.0150
Batch 20/248, train_loss: 0.1033, step time: 1.0150
Batch 21/248, train_loss: 0.0701, step time: 1.0170
Batch 22/248, train_loss: 0.2884, step time: 1.0190
Batch 23/248, train_loss: 0.9976, step time: 1.0141
Batch 24/248, train_loss: 0.0708, step time: 1.0146
Batch 25/248, train_loss: 0.0608, step time: 1.0142
Batch 26/248, train_loss: 0.3730, step time: 1.0182
Batch 27/248, train_loss: 0.0653, step time: 1.0161
Batch 28/248, train_loss: 0.1450, step time: 1.0182
Batch 29/248, train_loss: 0.3322, step time: 1.0227
Batch 30/248, train_loss: 0.3452, step time: 1.0200
Batch 31/248, train_loss: 0.2881, step time: 1.0157
Batch 32/248, train_loss: 0.0752, step time: 1.0154
Batch 33/248, train_loss: 0.0690, step time: 1.0162
Batch 34/248, train_loss: 0.0428, step time: 1.0111
Batch 35/248, train_loss: 0.0366, step time: 1.0140
Batch 36/248, train_loss: 0.3829, step time: 1.0228
Batch 37/248, train_loss: 0.1758, step time: 1.0128
Batch 38/248, train_loss: 0.2669, step time: 1.0154
Batch 39/248, train_loss: 0.1845, step time: 1.0129
Batch 40/248, train_loss: 0.5395, step time: 1.0178
Batch 41/248, train_loss: 0.2972, step time: 1.0156
Batch 42/248, train_loss: 0.0598, step time: 1.0138
Batch 43/248, train_loss: 0.0493, step time: 1.0128
Batch 44/248, train_loss: 0.3127, step time: 1.0185
Batch 45/248, train_loss: 0.3458, step time: 1.0182
Batch 46/248, train_loss: 0.1586, step time: 1.0175
Batch 47/248, train_loss: 0.0629, step time: 1.0153
Batch 48/248, train_loss: 0.2539, step time: 1.0144
Batch 49/248, train_loss: 0.5435, step time: 1.0164
Batch 50/248, train_loss: 0.1311, step time: 1.0164
Batch 51/248, train_loss: 0.1583, step time: 1.0191
Batch 52/248, train_loss: 0.0895, step time: 1.0133
Batch 53/248, train_loss: 0.4040, step time: 1.0197
Batch 54/248, train_loss: 0.2255, step time: 1.0176
Batch 55/248, train_loss: 0.3739, step time: 1.0209
Batch 56/248, train_loss: 0.2178, step time: 1.0156
Batch 57/248, train_loss: 0.2807, step time: 1.0146
Batch 58/248, train_loss: 0.0676, step time: 1.0129
Batch 59/248, train_loss: 0.0914, step time: 1.0155
Batch 60/248, train_loss: 0.0495, step time: 1.0136
Batch 61/248, train_loss: 0.0948, step time: 1.0137
Batch 62/248, train_loss: 0.2166, step time: 1.0152
Batch 63/248, train_loss: 0.6079, step time: 1.0265
Batch 64/248, train_loss: 0.3611, step time: 1.0188
Batch 65/248, train_loss: 0.2426, step time: 1.0148
Batch 66/248, train_loss: 0.1241, step time: 1.0172
Batch 67/248, train_loss: 0.0659, step time: 1.0123
Batch 68/248, train_loss: 0.2013, step time: 1.0195
Batch 69/248, train_loss: 0.4482, step time: 1.0183
Batch 70/248, train_loss: 0.1384, step time: 1.0177
Batch 71/248, train_loss: 0.1218, step time: 1.0161
```

Batch 72/248, train\_loss: 0.0570, step time: 1.0118  
Batch 73/248, train\_loss: 0.2050, step time: 1.0150  
Batch 74/248, train\_loss: 0.9962, step time: 1.0104  
Batch 75/248, train\_loss: 0.1246, step time: 1.0136  
Batch 76/248, train\_loss: 0.6014, step time: 1.0175  
Batch 77/248, train\_loss: 0.7721, step time: 1.0190  
Batch 78/248, train\_loss: 0.1319, step time: 1.0169  
Batch 79/248, train\_loss: 0.1346, step time: 1.0234  
Batch 80/248, train\_loss: 0.1778, step time: 1.0174  
Batch 81/248, train\_loss: 0.1614, step time: 1.0183  
Batch 82/248, train\_loss: 0.0742, step time: 1.0149  
Batch 83/248, train\_loss: 0.4673, step time: 1.0205  
Batch 84/248, train\_loss: 0.2387, step time: 1.0160  
Batch 85/248, train\_loss: 0.3415, step time: 1.0169  
Batch 86/248, train\_loss: 0.2223, step time: 1.0169  
Batch 87/248, train\_loss: 0.4688, step time: 1.0181  
Batch 88/248, train\_loss: 0.2770, step time: 1.0165  
Batch 89/248, train\_loss: 0.0867, step time: 1.0152  
Batch 90/248, train\_loss: 0.2699, step time: 1.0165  
Batch 91/248, train\_loss: 0.3142, step time: 1.0188  
Batch 92/248, train\_loss: 0.2369, step time: 1.0144  
Batch 93/248, train\_loss: 0.1379, step time: 1.0107  
Batch 94/248, train\_loss: 0.2973, step time: 1.0187  
Batch 95/248, train\_loss: 0.1774, step time: 1.0139  
Batch 96/248, train\_loss: 0.1258, step time: 1.0159  
Batch 97/248, train\_loss: 0.2961, step time: 1.0174  
Batch 98/248, train\_loss: 0.0950, step time: 1.0171  
Batch 99/248, train\_loss: 0.2800, step time: 1.0141  
Batch 100/248, train\_loss: 0.2787, step time: 1.0187  
Batch 101/248, train\_loss: 0.0546, step time: 1.0125  
Batch 102/248, train\_loss: 0.0969, step time: 1.0154  
Batch 103/248, train\_loss: 0.3028, step time: 1.0154  
Batch 104/248, train\_loss: 0.3160, step time: 1.0156  
Batch 105/248, train\_loss: 0.0719, step time: 1.0151  
Batch 106/248, train\_loss: 0.1014, step time: 1.0130  
Batch 107/248, train\_loss: 0.1830, step time: 1.0162  
Batch 108/248, train\_loss: 0.4190, step time: 1.0196  
Batch 109/248, train\_loss: 0.9768, step time: 1.0174  
Batch 110/248, train\_loss: 0.1609, step time: 1.0190  
Batch 111/248, train\_loss: 0.0854, step time: 1.0152  
Batch 112/248, train\_loss: 0.0979, step time: 1.0122  
Batch 113/248, train\_loss: 0.8533, step time: 1.0179  
Batch 114/248, train\_loss: 0.1366, step time: 1.0157  
Batch 115/248, train\_loss: 0.1411, step time: 1.0172  
Batch 116/248, train\_loss: 0.0617, step time: 1.0123  
Batch 117/248, train\_loss: 0.4728, step time: 1.0176  
Batch 118/248, train\_loss: 0.4085, step time: 1.0182  
Batch 119/248, train\_loss: 0.2899, step time: 1.0189  
Batch 120/248, train\_loss: 0.2430, step time: 1.0148  
Batch 121/248, train\_loss: 0.2769, step time: 1.0140  
Batch 122/248, train\_loss: 0.3446, step time: 1.0184  
Batch 123/248, train\_loss: 0.0645, step time: 1.0174  
Batch 124/248, train\_loss: 0.2159, step time: 1.0157  
Batch 125/248, train\_loss: 0.5034, step time: 1.0158  
Batch 126/248, train\_loss: 0.3641, step time: 1.0164  
Batch 127/248, train\_loss: 0.1023, step time: 1.0172  
Batch 128/248, train\_loss: 0.2447, step time: 1.0209  
Batch 129/248, train\_loss: 0.1141, step time: 1.0130  
Batch 130/248, train\_loss: 0.0884, step time: 1.0162  
Batch 131/248, train\_loss: 0.3724, step time: 1.0140  
Batch 132/248, train\_loss: 0.2756, step time: 1.0165  
Batch 133/248, train\_loss: 0.1335, step time: 1.0157  
Batch 134/248, train\_loss: 0.5993, step time: 1.0179  
Batch 135/248, train\_loss: 0.2367, step time: 1.0160  
Batch 136/248, train\_loss: 0.0982, step time: 1.0137  
Batch 137/248, train\_loss: 0.1313, step time: 1.0150  
Batch 138/248, train\_loss: 0.0652, step time: 1.0134  
Batch 139/248, train\_loss: 0.1711, step time: 1.0148  
Batch 140/248, train\_loss: 0.1749, step time: 1.0152  
Batch 141/248, train\_loss: 0.1943, step time: 1.0170  
Batch 142/248, train\_loss: 0.3963, step time: 1.0164  
Batch 143/248, train\_loss: 0.2199, step time: 1.0168  
Batch 144/248, train\_loss: 0.1278, step time: 1.0142  
Batch 145/248, train\_loss: 0.1351, step time: 1.0116  
Batch 146/248, train\_loss: 0.7804, step time: 1.0220  
Batch 147/248, train\_loss: 0.0401, step time: 1.0164  
Batch 148/248, train\_loss: 0.5707, step time: 1.0166  
Batch 149/248, train\_loss: 0.1073, step time: 1.0133  
Batch 150/248, train\_loss: 0.6126, step time: 1.0158  
Batch 151/248, train\_loss: 0.2740, step time: 1.0180  
Batch 152/248, train\_loss: 0.0379, step time: 1.0140  
Batch 153/248, train\_loss: 0.2510, step time: 1.0154  
Batch 154/248, train\_loss: 0.5345, step time: 1.0187  
Batch 155/248, train\_loss: 0.0958, step time: 1.0144  
Batch 156/248, train\_loss: 0.1638, step time: 1.0173

Batch 157/248, train\_loss: 0.1846, step time: 1.0169  
Batch 158/248, train\_loss: 0.9864, step time: 1.0159  
Batch 159/248, train\_loss: 0.2664, step time: 1.0187  
Batch 160/248, train\_loss: 0.0947, step time: 1.0169  
Batch 161/248, train\_loss: 0.0952, step time: 1.0137  
Batch 162/248, train\_loss: 0.0793, step time: 1.0152  
Batch 163/248, train\_loss: 0.1022, step time: 1.0149  
Batch 164/248, train\_loss: 0.1423, step time: 1.0156  
Batch 165/248, train\_loss: 0.3912, step time: 1.0175  
Batch 166/248, train\_loss: 0.0712, step time: 1.0140  
Batch 167/248, train\_loss: 0.1537, step time: 1.0153  
Batch 168/248, train\_loss: 0.1389, step time: 1.0126  
Batch 169/248, train\_loss: 0.0848, step time: 1.0149  
Batch 170/248, train\_loss: 0.6080, step time: 1.0165  
Batch 171/248, train\_loss: 0.0773, step time: 1.0158  
Batch 172/248, train\_loss: 0.2927, step time: 1.0184  
Batch 173/248, train\_loss: 0.0748, step time: 1.0136  
Batch 174/248, train\_loss: 0.7187, step time: 1.0184  
Batch 175/248, train\_loss: 0.1666, step time: 1.0157  
Batch 176/248, train\_loss: 0.3663, step time: 1.0186  
Batch 177/248, train\_loss: 0.1896, step time: 1.0174  
Batch 178/248, train\_loss: 0.2876, step time: 1.0162  
Batch 179/248, train\_loss: 0.0803, step time: 1.0178  
Batch 180/248, train\_loss: 0.2049, step time: 1.0136  
Batch 181/248, train\_loss: 0.0985, step time: 1.0159  
Batch 182/248, train\_loss: 0.8747, step time: 1.0128  
Batch 183/248, train\_loss: 0.1511, step time: 1.0192  
Batch 184/248, train\_loss: 0.3234, step time: 1.0172  
Batch 185/248, train\_loss: 0.0840, step time: 1.0168  
Batch 186/248, train\_loss: 0.1010, step time: 1.0152  
Batch 187/248, train\_loss: 0.1894, step time: 1.0164  
Batch 188/248, train\_loss: 0.2372, step time: 1.0162  
Batch 189/248, train\_loss: 0.4853, step time: 1.0169  
Batch 190/248, train\_loss: 0.1281, step time: 1.0182  
Batch 191/248, train\_loss: 0.5560, step time: 1.0153  
Batch 192/248, train\_loss: 0.2270, step time: 1.0165  
Batch 193/248, train\_loss: 0.2393, step time: 1.0139  
Batch 194/248, train\_loss: 0.0828, step time: 1.0164  
Batch 195/248, train\_loss: 0.6536, step time: 1.0190  
Batch 196/248, train\_loss: 0.8722, step time: 1.0196  
Batch 197/248, train\_loss: 0.1844, step time: 1.0159  
Batch 198/248, train\_loss: 0.4391, step time: 1.0200  
Batch 199/248, train\_loss: 0.1288, step time: 1.0167  
Batch 200/248, train\_loss: 0.1207, step time: 1.0132  
Batch 201/248, train\_loss: 0.1137, step time: 1.0140  
Batch 202/248, train\_loss: 0.3537, step time: 1.0172  
Batch 203/248, train\_loss: 0.6481, step time: 1.0154  
Batch 204/248, train\_loss: 0.1177, step time: 1.0166  
Batch 205/248, train\_loss: 0.2151, step time: 1.0176  
Batch 206/248, train\_loss: 0.2771, step time: 1.0179  
Batch 207/248, train\_loss: 0.0943, step time: 1.0133  
Batch 208/248, train\_loss: 0.3142, step time: 1.0180  
Batch 209/248, train\_loss: 0.1883, step time: 1.0147  
Batch 210/248, train\_loss: 0.0557, step time: 1.0172  
Batch 211/248, train\_loss: 0.0596, step time: 1.0134  
Batch 212/248, train\_loss: 0.2068, step time: 1.0151  
Batch 213/248, train\_loss: 0.1833, step time: 1.0164  
Batch 214/248, train\_loss: 0.0684, step time: 1.0133  
Batch 215/248, train\_loss: 0.1430, step time: 1.0187  
Batch 216/248, train\_loss: 0.1658, step time: 1.0174  
Batch 217/248, train\_loss: 0.2351, step time: 1.0160  
Batch 218/248, train\_loss: 0.7426, step time: 1.0178  
Batch 219/248, train\_loss: 0.0789, step time: 1.0164  
Batch 220/248, train\_loss: 0.1940, step time: 1.0189  
Batch 221/248, train\_loss: 0.2666, step time: 1.0166  
Batch 222/248, train\_loss: 0.2038, step time: 1.0164  
Batch 223/248, train\_loss: 0.0404, step time: 1.0105  
Batch 224/248, train\_loss: 0.0817, step time: 1.0146  
Batch 225/248, train\_loss: 0.1368, step time: 1.0163  
Batch 226/248, train\_loss: 0.1144, step time: 1.0166  
Batch 227/248, train\_loss: 0.0860, step time: 1.0141  
Batch 228/248, train\_loss: 0.1304, step time: 1.0155  
Batch 229/248, train\_loss: 0.1030, step time: 1.0144  
Batch 230/248, train\_loss: 0.0644, step time: 1.0114  
Batch 231/248, train\_loss: 0.3068, step time: 1.0145  
Batch 232/248, train\_loss: 0.0854, step time: 1.0152  
Batch 233/248, train\_loss: 0.7667, step time: 1.0172  
Batch 234/248, train\_loss: 0.4097, step time: 1.0165  
Batch 235/248, train\_loss: 0.2023, step time: 1.0193  
Batch 236/248, train\_loss: 0.7417, step time: 1.0193  
Batch 237/248, train\_loss: 0.0887, step time: 1.0165  
Batch 238/248, train\_loss: 0.0857, step time: 1.0180  
Batch 239/248, train\_loss: 0.0595, step time: 1.0138  
Batch 240/248, train\_loss: 0.3022, step time: 1.0171  
Batch 241/248, train\_loss: 0.3825, step time: 1.0166

```
Batch 212/248, train_loss: 0.0529, step time: 1.0100  
Batch 242/248, train_loss: 0.1245, step time: 1.0155  
Batch 243/248, train_loss: 0.4739, step time: 1.0196  
Batch 244/248, train_loss: 0.3472, step time: 1.0160  
Batch 245/248, train_loss: 0.0585, step time: 1.0117  
Batch 246/248, train_loss: 0.5419, step time: 1.0192  
Batch 247/248, train_loss: 0.0780, step time: 1.0135  
Batch 248/248, train_loss: 0.9987, step time: 1.0114
```

Labels



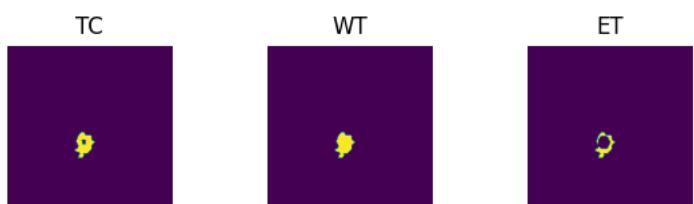
Predictions



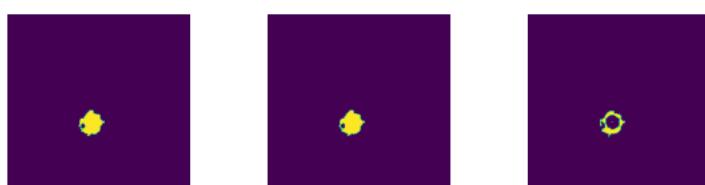
VAL

```
Batch 1/31, val_loss: 0.9432  
Batch 2/31, val_loss: 0.9920  
Batch 3/31, val_loss: 0.9618  
Batch 4/31, val_loss: 0.9401  
Batch 5/31, val_loss: 0.9953  
Batch 6/31, val_loss: 0.6953  
Batch 7/31, val_loss: 0.8399  
Batch 8/31, val_loss: 0.9675  
Batch 9/31, val_loss: 0.6942  
Batch 10/31, val_loss: 0.9051  
Batch 11/31, val_loss: 0.8261  
Batch 12/31, val_loss: 0.9754  
Batch 13/31, val_loss: 0.9924  
Batch 14/31, val_loss: 0.9511  
Batch 15/31, val_loss: 0.9978  
Batch 16/31, val_loss: 0.9730  
Batch 17/31, val_loss: 0.9717  
Batch 18/31, val_loss: 0.9413  
Batch 19/31, val_loss: 0.7431  
Batch 20/31, val_loss: 0.8771  
Batch 21/31, val_loss: 0.8592  
Batch 22/31, val_loss: 0.9694  
Batch 23/31, val_loss: 0.9848  
Batch 24/31, val_loss: 0.7438  
Batch 25/31, val_loss: 0.7969  
Batch 26/31, val_loss: 0.9152  
Batch 27/31, val_loss: 0.9715  
Batch 28/31, val_loss: 0.7554  
Batch 29/31, val_loss: 0.9784  
Batch 30/31, val_loss: 0.9518  
Batch 31/31, val_loss: 0.9827
```

Labels



Predictions



```
epoch 83
  average train loss: 0.2562
  average validation loss: 0.9062
  saved as best model: False
  current mean dice: 0.5111
  current TC dice: 0.5362
  current WT dice: 0.5386
  current ET dice: 0.4974
Best Mean Metric: 0.5258
time consuming of epoch 83 is: 1571.0045
```

```
-----  
epoch 84/100
```

```
TRAIN
```

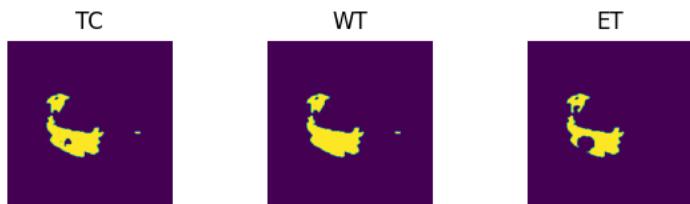
```
Batch 1/248, train_loss: 0.0843, step time: 1.0214
Batch 2/248, train_loss: 0.6184, step time: 1.0193
Batch 3/248, train_loss: 0.3015, step time: 1.0152
Batch 4/248, train_loss: 0.8541, step time: 1.0146
Batch 5/248, train_loss: 0.1783, step time: 1.0159
Batch 6/248, train_loss: 0.4503, step time: 1.0160
Batch 7/248, train_loss: 0.0556, step time: 1.0138
Batch 8/248, train_loss: 0.7163, step time: 1.0160
Batch 9/248, train_loss: 0.0410, step time: 1.0197
Batch 10/248, train_loss: 0.2274, step time: 1.0177
Batch 11/248, train_loss: 0.1903, step time: 1.0182
Batch 12/248, train_loss: 0.3685, step time: 1.0205
Batch 13/248, train_loss: 0.2606, step time: 1.0185
Batch 14/248, train_loss: 0.0585, step time: 1.0157
Batch 15/248, train_loss: 0.3192, step time: 1.0156
Batch 16/248, train_loss: 0.1439, step time: 1.0175
Batch 17/248, train_loss: 0.3005, step time: 1.0182
Batch 18/248, train_loss: 0.3879, step time: 1.0176
Batch 19/248, train_loss: 0.0893, step time: 1.0155
Batch 20/248, train_loss: 0.1694, step time: 1.0135
Batch 21/248, train_loss: 0.0490, step time: 1.0140
Batch 22/248, train_loss: 0.3545, step time: 1.0191
Batch 23/248, train_loss: 0.9970, step time: 1.0135
Batch 24/248, train_loss: 0.0905, step time: 1.0187
Batch 25/248, train_loss: 0.0608, step time: 1.0147
Batch 26/248, train_loss: 0.3351, step time: 1.0188
Batch 27/248, train_loss: 0.0679, step time: 1.0138
Batch 28/248, train_loss: 0.1611, step time: 1.0167
Batch 29/248, train_loss: 0.4150, step time: 1.0213
Batch 30/248, train_loss: 0.2156, step time: 1.0174
Batch 31/248, train_loss: 0.2550, step time: 1.0165
Batch 32/248, train_loss: 0.0764, step time: 1.0147
Batch 33/248, train_loss: 0.0691, step time: 1.0154
Batch 34/248, train_loss: 0.0439, step time: 1.0138
Batch 35/248, train_loss: 0.0427, step time: 1.0140
Batch 36/248, train_loss: 0.3696, step time: 1.0145
Batch 37/248, train_loss: 0.1294, step time: 1.0129
Batch 38/248, train_loss: 0.2532, step time: 1.0170
Batch 39/248, train_loss: 0.1775, step time: 1.0166
Batch 40/248, train_loss: 0.5000, step time: 1.0166
Batch 41/248, train_loss: 0.3254, step time: 1.0171
Batch 42/248, train_loss: 0.0596, step time: 1.0161
Batch 43/248, train_loss: 0.0523, step time: 1.0120
Batch 44/248, train_loss: 0.3173, step time: 1.0157
Batch 45/248, train_loss: 0.3281, step time: 1.0181
Batch 46/248, train_loss: 0.1437, step time: 1.0195
Batch 47/248, train_loss: 0.0761, step time: 1.0134
Batch 48/248, train_loss: 0.2281, step time: 1.0162
Batch 49/248, train_loss: 0.4699, step time: 1.0149
Batch 50/248, train_loss: 0.1303, step time: 1.0150
Batch 51/248, train_loss: 0.1916, step time: 1.0187
Batch 52/248, train_loss: 0.0876, step time: 1.0120
Batch 53/248, train_loss: 0.4080, step time: 1.0190
Batch 54/248, train_loss: 0.2140, step time: 1.0168
Batch 55/248, train_loss: 0.2257, step time: 1.0158
Batch 56/248, train_loss: 0.1950, step time: 1.0176
Batch 57/248, train_loss: 0.2808, step time: 1.0166
Batch 58/248, train_loss: 0.0734, step time: 1.0144
Batch 59/248, train_loss: 0.0836, step time: 1.0128
Batch 60/248, train_loss: 0.0500, step time: 1.0173
Batch 61/248, train_loss: 0.0849, step time: 1.0145
Batch 62/248, train_loss: 0.2142, step time: 1.0200
Batch 63/248, train_loss: 0.5087, step time: 1.0169
Batch 64/248, train_loss: 0.3078, step time: 1.0162
Batch 65/248, train_loss: 0.2386, step time: 1.0200
Batch 66/248, train_loss: 0.1192, step time: 1.0173
Batch 67/248, train_loss: 0.0707, step time: 1.0148
Batch 68/248, train_loss: 0.1298, step time: 1.0155
Batch 69/248, train_loss: 0.3158, step time: 1.0176
Batch 70/248, train_loss: 0.1565, step time: 1.0166
Batch 71/248, train_loss: 0.1277, step time: 1.0173
```

Batch 72/248, train\_loss: 0.0565, step time: 1.0108  
Batch 73/248, train\_loss: 0.1305, step time: 1.0149  
Batch 74/248, train\_loss: 0.9967, step time: 1.0123  
Batch 75/248, train\_loss: 0.1197, step time: 1.0168  
Batch 76/248, train\_loss: 0.5039, step time: 1.0191  
Batch 77/248, train\_loss: 0.7220, step time: 1.0142  
Batch 78/248, train\_loss: 0.0913, step time: 1.0179  
Batch 79/248, train\_loss: 0.1121, step time: 1.0197  
Batch 80/248, train\_loss: 0.1848, step time: 1.0166  
Batch 81/248, train\_loss: 0.1473, step time: 1.0206  
Batch 82/248, train\_loss: 0.0748, step time: 1.0136  
Batch 83/248, train\_loss: 0.4860, step time: 1.0181  
Batch 84/248, train\_loss: 0.2508, step time: 1.0161  
Batch 85/248, train\_loss: 0.3337, step time: 1.0174  
Batch 86/248, train\_loss: 0.2269, step time: 1.0153  
Batch 87/248, train\_loss: 0.4601, step time: 1.0147  
Batch 88/248, train\_loss: 0.2739, step time: 1.0155  
Batch 89/248, train\_loss: 0.0829, step time: 1.0147  
Batch 90/248, train\_loss: 0.2425, step time: 1.0182  
Batch 91/248, train\_loss: 0.3061, step time: 1.0202  
Batch 92/248, train\_loss: 0.2377, step time: 1.0179  
Batch 93/248, train\_loss: 0.1398, step time: 1.0172  
Batch 94/248, train\_loss: 0.3140, step time: 1.0212  
Batch 95/248, train\_loss: 0.1671, step time: 1.0163  
Batch 96/248, train\_loss: 0.1345, step time: 1.0158  
Batch 97/248, train\_loss: 0.3893, step time: 1.0181  
Batch 98/248, train\_loss: 0.1345, step time: 1.0175  
Batch 99/248, train\_loss: 0.2650, step time: 1.0177  
Batch 100/248, train\_loss: 0.2380, step time: 1.0163  
Batch 101/248, train\_loss: 0.0511, step time: 1.0128  
Batch 102/248, train\_loss: 0.1234, step time: 1.0125  
Batch 103/248, train\_loss: 0.2730, step time: 1.0193  
Batch 104/248, train\_loss: 0.2941, step time: 1.0163  
Batch 105/248, train\_loss: 0.0718, step time: 1.0136  
Batch 106/248, train\_loss: 0.1104, step time: 1.0155  
Batch 107/248, train\_loss: 0.2392, step time: 1.0166  
Batch 108/248, train\_loss: 0.4901, step time: 1.0196  
Batch 109/248, train\_loss: 0.9171, step time: 1.0194  
Batch 110/248, train\_loss: 0.2271, step time: 1.0188  
Batch 111/248, train\_loss: 0.0876, step time: 1.0216  
Batch 112/248, train\_loss: 0.0939, step time: 1.0173  
Batch 113/248, train\_loss: 0.7745, step time: 1.0172  
Batch 114/248, train\_loss: 0.1368, step time: 1.0158  
Batch 115/248, train\_loss: 0.1497, step time: 1.0166  
Batch 116/248, train\_loss: 0.0722, step time: 1.0134  
Batch 117/248, train\_loss: 0.4478, step time: 1.0182  
Batch 118/248, train\_loss: 0.3285, step time: 1.0174  
Batch 119/248, train\_loss: 0.2698, step time: 1.0156  
Batch 120/248, train\_loss: 0.2488, step time: 1.0144  
Batch 121/248, train\_loss: 0.2720, step time: 1.0163  
Batch 122/248, train\_loss: 0.4315, step time: 1.0174  
Batch 123/248, train\_loss: 0.0755, step time: 1.0178  
Batch 124/248, train\_loss: 0.2415, step time: 1.0176  
Batch 125/248, train\_loss: 0.4730, step time: 1.0188  
Batch 126/248, train\_loss: 0.1990, step time: 1.0168  
Batch 127/248, train\_loss: 0.1103, step time: 1.0201  
Batch 128/248, train\_loss: 0.2444, step time: 1.0249  
Batch 129/248, train\_loss: 0.0963, step time: 1.0148  
Batch 130/248, train\_loss: 0.0929, step time: 1.0145  
Batch 131/248, train\_loss: 0.4775, step time: 1.0167  
Batch 132/248, train\_loss: 0.3607, step time: 1.0193  
Batch 133/248, train\_loss: 0.0971, step time: 1.0146  
Batch 134/248, train\_loss: 0.6322, step time: 1.0163  
Batch 135/248, train\_loss: 0.2994, step time: 1.0185  
Batch 136/248, train\_loss: 0.1138, step time: 1.0162  
Batch 137/248, train\_loss: 0.1158, step time: 1.0161  
Batch 138/248, train\_loss: 0.0620, step time: 1.0142  
Batch 139/248, train\_loss: 0.2219, step time: 1.0141  
Batch 140/248, train\_loss: 0.1628, step time: 1.0173  
Batch 141/248, train\_loss: 0.1454, step time: 1.0139  
Batch 142/248, train\_loss: 0.3999, step time: 1.0168  
Batch 143/248, train\_loss: 0.2054, step time: 1.0166  
Batch 144/248, train\_loss: 0.1162, step time: 1.0123  
Batch 145/248, train\_loss: 0.0676, step time: 1.0134  
Batch 146/248, train\_loss: 0.4548, step time: 1.0186  
Batch 147/248, train\_loss: 0.0444, step time: 1.0117  
Batch 148/248, train\_loss: 0.6830, step time: 1.0158  
Batch 149/248, train\_loss: 0.1133, step time: 1.0167  
Batch 150/248, train\_loss: 0.6758, step time: 1.0151  
Batch 151/248, train\_loss: 0.2751, step time: 1.0164  
Batch 152/248, train\_loss: 0.0399, step time: 1.0134  
Batch 153/248, train\_loss: 0.3632, step time: 1.0199  
Batch 154/248, train\_loss: 0.5422, step time: 1.0174  
Batch 155/248, train\_loss: 0.1181, step time: 1.0165  
Batch 156/248, train\_loss: 0.1881, step time: 1.0152

```
Batch 150/248, train_loss: 0.1004, step time: 1.0150
Batch 157/248, train_loss: 0.2133, step time: 1.0149
Batch 158/248, train_loss: 0.9798, step time: 1.0153
Batch 159/248, train_loss: 0.2664, step time: 1.0197
Batch 160/248, train_loss: 0.0896, step time: 1.0155
Batch 161/248, train_loss: 0.1095, step time: 1.0176
Batch 162/248, train_loss: 0.0924, step time: 1.0182
Batch 163/248, train_loss: 0.1302, step time: 1.0164
Batch 164/248, train_loss: 0.1729, step time: 1.0197
Batch 165/248, train_loss: 0.3157, step time: 1.0162
Batch 166/248, train_loss: 0.0710, step time: 1.0160
Batch 167/248, train_loss: 0.1806, step time: 1.0170
Batch 168/248, train_loss: 0.1345, step time: 1.0152
Batch 169/248, train_loss: 0.1021, step time: 1.0153
Batch 170/248, train_loss: 0.5878, step time: 1.0171
Batch 171/248, train_loss: 0.0873, step time: 1.0126
Batch 172/248, train_loss: 0.4551, step time: 1.0200
Batch 173/248, train_loss: 0.0878, step time: 1.0157
Batch 174/248, train_loss: 0.5979, step time: 1.0188
Batch 175/248, train_loss: 0.1421, step time: 1.0137
Batch 176/248, train_loss: 0.2844, step time: 1.0187
Batch 177/248, train_loss: 0.2072, step time: 1.0184
Batch 178/248, train_loss: 0.3678, step time: 1.0192
Batch 179/248, train_loss: 0.0897, step time: 1.0173
Batch 180/248, train_loss: 0.1560, step time: 1.0165
Batch 181/248, train_loss: 0.1090, step time: 1.0150
Batch 182/248, train_loss: 0.9064, step time: 1.0152
Batch 183/248, train_loss: 0.1097, step time: 1.0155
Batch 184/248, train_loss: 0.2704, step time: 1.0175
Batch 185/248, train_loss: 0.1031, step time: 1.0166
Batch 186/248, train_loss: 0.1165, step time: 1.0130
Batch 187/248, train_loss: 0.1705, step time: 1.0135
Batch 188/248, train_loss: 0.2132, step time: 1.0177
Batch 189/248, train_loss: 0.4692, step time: 1.0275
Batch 190/248, train_loss: 0.1246, step time: 1.0145
Batch 191/248, train_loss: 0.5817, step time: 1.0190
Batch 192/248, train_loss: 0.2615, step time: 1.0161
Batch 193/248, train_loss: 0.2385, step time: 1.0182
Batch 194/248, train_loss: 0.0710, step time: 1.0142
Batch 195/248, train_loss: 0.6042, step time: 1.0208
Batch 196/248, train_loss: 0.9477, step time: 1.0192
Batch 197/248, train_loss: 0.1706, step time: 1.0178
Batch 198/248, train_loss: 0.4649, step time: 1.0202
Batch 199/248, train_loss: 0.1144, step time: 1.0174
Batch 200/248, train_loss: 0.1221, step time: 1.0147
Batch 201/248, train_loss: 0.1138, step time: 1.0148
Batch 202/248, train_loss: 0.3348, step time: 1.0196
Batch 203/248, train_loss: 0.4937, step time: 1.0153
Batch 204/248, train_loss: 0.0927, step time: 1.0162
Batch 205/248, train_loss: 0.2135, step time: 1.0112
Batch 206/248, train_loss: 0.2716, step time: 1.0157
Batch 207/248, train_loss: 0.1041, step time: 1.0174
Batch 208/248, train_loss: 0.1089, step time: 1.0142
Batch 209/248, train_loss: 0.2159, step time: 1.0163
Batch 210/248, train_loss: 0.0531, step time: 1.0113
Batch 211/248, train_loss: 0.0594, step time: 1.0105
Batch 212/248, train_loss: 0.1809, step time: 1.0152
Batch 213/248, train_loss: 0.1394, step time: 1.0165
Batch 214/248, train_loss: 0.0639, step time: 1.0139
Batch 215/248, train_loss: 0.1462, step time: 1.0163
Batch 216/248, train_loss: 0.1719, step time: 1.0155
Batch 217/248, train_loss: 0.2954, step time: 1.0210
Batch 218/248, train_loss: 0.8602, step time: 1.0160
Batch 219/248, train_loss: 0.0558, step time: 1.0164
Batch 220/248, train_loss: 0.1871, step time: 1.0164
Batch 221/248, train_loss: 0.2468, step time: 1.0172
Batch 222/248, train_loss: 0.1920, step time: 1.0171
Batch 223/248, train_loss: 0.0387, step time: 1.0089
Batch 224/248, train_loss: 0.0834, step time: 1.0186
Batch 225/248, train_loss: 0.1502, step time: 1.0135
Batch 226/248, train_loss: 0.1152, step time: 1.0164
Batch 227/248, train_loss: 0.1219, step time: 1.0118
Batch 228/248, train_loss: 0.1330, step time: 1.0155
Batch 229/248, train_loss: 0.0930, step time: 1.0108
Batch 230/248, train_loss: 0.0635, step time: 1.0145
Batch 231/248, train_loss: 0.2800, step time: 1.0144
Batch 232/248, train_loss: 0.0751, step time: 1.0110
Batch 233/248, train_loss: 0.7353, step time: 1.0169
Batch 234/248, train_loss: 0.4308, step time: 1.0155
Batch 235/248, train_loss: 0.3925, step time: 1.0192
Batch 236/248, train_loss: 0.7066, step time: 1.0180
Batch 237/248, train_loss: 0.0965, step time: 1.0237
Batch 238/248, train_loss: 0.1117, step time: 1.0157
Batch 239/248, train_loss: 0.0516, step time: 1.0173
Batch 240/248, train_loss: 0.2418, step time: 1.0171
... - - - - -
```

```
Batch 241/248, train_loss: 0.3916, step time: 1.0179  
Batch 242/248, train_loss: 0.1293, step time: 1.0170  
Batch 243/248, train_loss: 0.5264, step time: 1.0180  
Batch 244/248, train_loss: 0.3695, step time: 1.0160  
Batch 245/248, train_loss: 0.0585, step time: 1.0127  
Batch 246/248, train_loss: 0.5544, step time: 1.0185  
Batch 247/248, train_loss: 0.0721, step time: 1.0121  
Batch 248/248, train_loss: 0.9998, step time: 1.0105
```

Labels



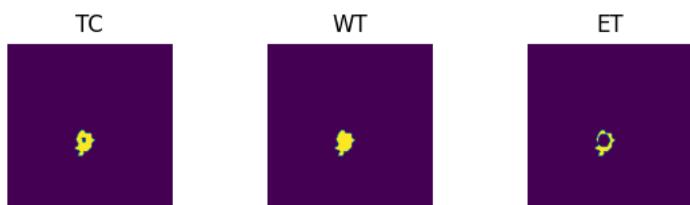
Predictions



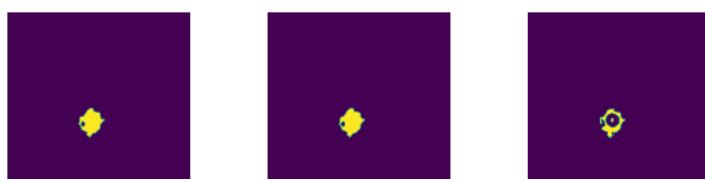
VAL

```
Batch 1/31, val_loss: 0.9210  
Batch 2/31, val_loss: 0.9921  
Batch 3/31, val_loss: 0.9584  
Batch 4/31, val_loss: 0.9361  
Batch 5/31, val_loss: 0.9956  
Batch 6/31, val_loss: 0.6880  
Batch 7/31, val_loss: 0.8298  
Batch 8/31, val_loss: 0.9672  
Batch 9/31, val_loss: 0.6857  
Batch 10/31, val_loss: 0.9028  
Batch 11/31, val_loss: 0.8241  
Batch 12/31, val_loss: 0.9726  
Batch 13/31, val_loss: 0.9844  
Batch 14/31, val_loss: 0.9467  
Batch 15/31, val_loss: 0.9979  
Batch 16/31, val_loss: 0.9721  
Batch 17/31, val_loss: 0.9712  
Batch 18/31, val_loss: 0.9473  
Batch 19/31, val_loss: 0.7384  
Batch 20/31, val_loss: 0.8896  
Batch 21/31, val_loss: 0.8601  
Batch 22/31, val_loss: 0.9682  
Batch 23/31, val_loss: 0.9827  
Batch 24/31, val_loss: 0.7437  
Batch 25/31, val_loss: 0.7968  
Batch 26/31, val_loss: 0.9143  
Batch 27/31, val_loss: 0.9723  
Batch 28/31, val_loss: 0.7463  
Batch 29/31, val_loss: 0.9793  
Batch 30/31, val_loss: 0.9546  
Batch 31/31, val_loss: 0.9831
```

Labels



Predictions



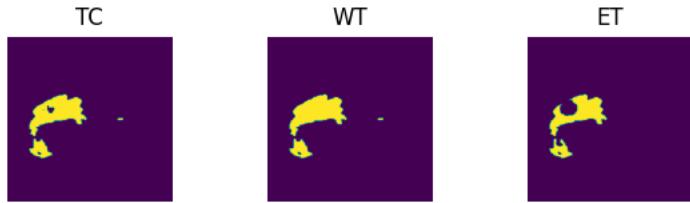
```
epoch 84
    average train loss: 0.2534
    average validation loss: 0.9040
    saved as best model: False
    current mean dice: 0.5011
    current TC dice: 0.5241
    current WT dice: 0.5277
    current ET dice: 0.4927
Best Mean Metric: 0.5258
time consuming of epoch 84 is: 1568.7374
-----
epoch 85/100
TRAIN
    Batch 1/248, train_loss: 0.0772, step time: 1.0163
    Batch 2/248, train_loss: 0.6179, step time: 1.0176
    Batch 3/248, train_loss: 0.2363, step time: 1.0169
    Batch 4/248, train_loss: 0.8216, step time: 1.0147
    Batch 5/248, train_loss: 0.1923, step time: 1.0179
    Batch 6/248, train_loss: 0.5148, step time: 1.0189
    Batch 7/248, train_loss: 0.0545, step time: 1.0139
    Batch 8/248, train_loss: 0.7074, step time: 1.0126
    Batch 9/248, train_loss: 0.0434, step time: 1.0150
    Batch 10/248, train_loss: 0.2081, step time: 1.0152
    Batch 11/248, train_loss: 0.1540, step time: 1.0139
    Batch 12/248, train_loss: 0.3457, step time: 1.0167
    Batch 13/248, train_loss: 0.2892, step time: 1.0170
    Batch 14/248, train_loss: 0.0555, step time: 1.0121
    Batch 15/248, train_loss: 0.2847, step time: 1.0160
    Batch 16/248, train_loss: 0.1298, step time: 1.0163
    Batch 17/248, train_loss: 0.2581, step time: 1.0143
    Batch 18/248, train_loss: 0.3468, step time: 1.0171
    Batch 19/248, train_loss: 0.1121, step time: 1.0154
    Batch 20/248, train_loss: 0.1428, step time: 1.0161
    Batch 21/248, train_loss: 0.0615, step time: 1.0165
    Batch 22/248, train_loss: 0.3064, step time: 1.0212
    Batch 23/248, train_loss: 0.9975, step time: 1.0123
    Batch 24/248, train_loss: 0.0720, step time: 1.0144
    Batch 25/248, train_loss: 0.0521, step time: 1.0109
    Batch 26/248, train_loss: 0.3486, step time: 1.0192
    Batch 27/248, train_loss: 0.0681, step time: 1.0125
    Batch 28/248, train_loss: 0.1528, step time: 1.0168
    Batch 29/248, train_loss: 0.3630, step time: 1.0203
    Batch 30/248, train_loss: 0.2098, step time: 1.0150
    Batch 31/248, train_loss: 0.2738, step time: 1.0167
    Batch 32/248, train_loss: 0.0667, step time: 1.0175
    Batch 33/248, train_loss: 0.0632, step time: 1.0142
    Batch 34/248, train_loss: 0.0424, step time: 1.0176
    Batch 35/248, train_loss: 0.0360, step time: 1.0098
    Batch 36/248, train_loss: 0.4215, step time: 1.0174
    Batch 37/248, train_loss: 0.1435, step time: 1.0128
    Batch 38/248, train_loss: 0.2699, step time: 1.0134
    Batch 39/248, train_loss: 0.1709, step time: 1.0151
    Batch 40/248, train_loss: 0.4996, step time: 1.0180
    Batch 41/248, train_loss: 0.2207, step time: 1.0183
    Batch 42/248, train_loss: 0.0638, step time: 1.0133
    Batch 43/248, train_loss: 0.0514, step time: 1.0156
    Batch 44/248, train_loss: 0.4532, step time: 1.0170
    Batch 45/248, train_loss: 0.3282, step time: 1.0173
    Batch 46/248, train_loss: 0.1510, step time: 1.0175
    Batch 47/248, train_loss: 0.0630, step time: 1.0153
    Batch 48/248, train_loss: 0.1760, step time: 1.0135
    Batch 49/248, train_loss: 0.4840, step time: 1.0167
    Batch 50/248, train_loss: 0.1222, step time: 1.0148
    Batch 51/248, train_loss: 0.1343, step time: 1.0154
    Batch 52/248, train_loss: 0.0883, step time: 1.0143
    Batch 53/248, train_loss: 0.3678, step time: 1.0152
    Batch 54/248, train_loss: 0.2194, step time: 1.0171
    Batch 55/248, train_loss: 0.2237, step time: 1.0163
    Batch 56/248, train_loss: 0.2411, step time: 1.0193
    Batch 57/248, train_loss: 0.2253, step time: 1.0148
    Batch 58/248, train_loss: 0.0719, step time: 1.0154
    Batch 59/248, train_loss: 0.0899, step time: 1.0209
    Batch 60/248, train_loss: 0.0501, step time: 1.0126
    Batch 61/248, train_loss: 0.0903, step time: 1.0135
    Batch 62/248, train_loss: 0.2050, step time: 1.0223
    Batch 63/248, train_loss: 0.5177, step time: 1.0178
    Batch 64/248, train_loss: 0.3186, step time: 1.0157
    Batch 65/248, train_loss: 0.2764, step time: 1.0222
    Batch 66/248, train_loss: 0.1240, step time: 1.0141
    Batch 67/248, train_loss: 0.0668, step time: 1.0140
    Batch 68/248, train_loss: 0.2348, step time: 1.0177
    Batch 69/248, train_loss: 0.3746, step time: 1.0170
    Batch 70/248, train_loss: 0.1467, step time: 1.0167
    total 71/248 train loss: 0.1242 step time: 1.0162
```

Batch 1/248, train\_loss: 0.1242, step time: 1.0162  
Batch 2/248, train\_loss: 0.0620, step time: 1.0146  
Batch 3/248, train\_loss: 0.3796, step time: 1.0161  
Batch 4/248, train\_loss: 0.9962, step time: 1.0127  
Batch 5/248, train\_loss: 0.1419, step time: 1.0143  
Batch 6/248, train\_loss: 0.5286, step time: 1.0166  
Batch 7/248, train\_loss: 0.7419, step time: 1.0156  
Batch 8/248, train\_loss: 0.0808, step time: 1.0154  
Batch 9/248, train\_loss: 0.1476, step time: 1.0235  
Batch 10/248, train\_loss: 0.1875, step time: 1.0188  
Batch 11/248, train\_loss: 0.1504, step time: 1.0177  
Batch 12/248, train\_loss: 0.0791, step time: 1.0157  
Batch 13/248, train\_loss: 0.4487, step time: 1.0199  
Batch 14/248, train\_loss: 0.2402, step time: 1.0171  
Batch 15/248, train\_loss: 0.3120, step time: 1.0179  
Batch 16/248, train\_loss: 0.4479, step time: 1.0133  
Batch 17/248, train\_loss: 0.4487, step time: 1.0165  
Batch 18/248, train\_loss: 0.3149, step time: 1.0172  
Batch 19/248, train\_loss: 0.0924, step time: 1.0142  
Batch 20/248, train\_loss: 0.3551, step time: 1.0162  
Batch 21/248, train\_loss: 0.2857, step time: 1.0171  
Batch 22/248, train\_loss: 0.2485, step time: 1.0214  
Batch 23/248, train\_loss: 0.1376, step time: 1.0159  
Batch 24/248, train\_loss: 0.2978, step time: 1.0182  
Batch 25/248, train\_loss: 0.1639, step time: 1.0154  
Batch 26/248, train\_loss: 0.1256, step time: 1.0134  
Batch 27/248, train\_loss: 0.2648, step time: 1.0163  
Batch 28/248, train\_loss: 0.0949, step time: 1.0151  
Batch 29/248, train\_loss: 0.2384, step time: 1.0157  
Batch 30/248, train\_loss: 0.3533, step time: 1.0208  
Batch 31/248, train\_loss: 0.0512, step time: 1.0130  
Batch 32/248, train\_loss: 0.0986, step time: 1.0126  
Batch 33/248, train\_loss: 0.5570, step time: 1.0187  
Batch 34/248, train\_loss: 0.3215, step time: 1.0162  
Batch 35/248, train\_loss: 0.0716, step time: 1.0131  
Batch 36/248, train\_loss: 0.1195, step time: 1.0166  
Batch 37/248, train\_loss: 0.1757, step time: 1.0187  
Batch 38/248, train\_loss: 0.4619, step time: 1.0187  
Batch 39/248, train\_loss: 0.7053, step time: 1.0184  
Batch 40/248, train\_loss: 0.2163, step time: 1.0172  
Batch 41/248, train\_loss: 0.1449, step time: 1.0134  
Batch 42/248, train\_loss: 0.1318, step time: 1.0188  
Batch 43/248, train\_loss: 0.7911, step time: 1.0181  
Batch 44/248, train\_loss: 0.1288, step time: 1.0176  
Batch 45/248, train\_loss: 0.1169, step time: 1.0173  
Batch 46/248, train\_loss: 0.0880, step time: 1.0163  
Batch 47/248, train\_loss: 0.4469, step time: 1.0176  
Batch 48/248, train\_loss: 0.5361, step time: 1.0150  
Batch 49/248, train\_loss: 0.3604, step time: 1.0150  
Batch 50/248, train\_loss: 0.2292, step time: 1.0153  
Batch 51/248, train\_loss: 0.2792, step time: 1.0185  
Batch 52/248, train\_loss: 0.3345, step time: 1.0168  
Batch 53/248, train\_loss: 0.0911, step time: 1.0159  
Batch 54/248, train\_loss: 0.2936, step time: 1.0198  
Batch 55/248, train\_loss: 0.5916, step time: 1.0192  
Batch 56/248, train\_loss: 0.1817, step time: 1.0139  
Batch 57/248, train\_loss: 0.1280, step time: 1.0173  
Batch 58/248, train\_loss: 0.2447, step time: 1.0175  
Batch 59/248, train\_loss: 0.1173, step time: 1.0146  
Batch 60/248, train\_loss: 0.0800, step time: 1.0128  
Batch 61/248, train\_loss: 0.4186, step time: 1.0173  
Batch 62/248, train\_loss: 0.2369, step time: 1.0187  
Batch 63/248, train\_loss: 0.1167, step time: 1.0145  
Batch 64/248, train\_loss: 0.5746, step time: 1.0172  
Batch 65/248, train\_loss: 0.3015, step time: 1.0165  
Batch 66/248, train\_loss: 0.0969, step time: 1.0153  
Batch 67/248, train\_loss: 0.1100, step time: 1.0156  
Batch 68/248, train\_loss: 0.0718, step time: 1.0139  
Batch 69/248, train\_loss: 0.1796, step time: 1.0165  
Batch 70/248, train\_loss: 0.1597, step time: 1.0155  
Batch 71/248, train\_loss: 0.2895, step time: 1.0238  
Batch 72/248, train\_loss: 0.4622, step time: 1.0171  
Batch 73/248, train\_loss: 0.2915, step time: 1.0144  
Batch 74/248, train\_loss: 0.1248, step time: 1.0138  
Batch 75/248, train\_loss: 0.0450, step time: 1.0144  
Batch 76/248, train\_loss: 0.5068, step time: 1.0178  
Batch 77/248, train\_loss: 0.0355, step time: 1.0119  
Batch 78/248, train\_loss: 0.4798, step time: 1.0160  
Batch 79/248, train\_loss: 0.1115, step time: 1.0153  
Batch 80/248, train\_loss: 0.6655, step time: 1.0147  
Batch 81/248, train\_loss: 0.3190, step time: 1.0139  
Batch 82/248, train\_loss: 0.0381, step time: 1.0097  
Batch 83/248, train\_loss: 0.1802, step time: 1.0156  
Batch 84/248, train\_loss: 0.5570, step time: 1.0150  
Batch 85/248, train\_loss: 0.1329, step time: 1.0167

Batch 156/248, train\_loss: 0.2039, step time: 1.0200  
Batch 157/248, train\_loss: 0.2227, step time: 1.0185  
Batch 158/248, train\_loss: 0.9801, step time: 1.0168  
Batch 159/248, train\_loss: 0.2433, step time: 1.0153  
Batch 160/248, train\_loss: 0.0757, step time: 1.0154  
Batch 161/248, train\_loss: 0.0835, step time: 1.0160  
Batch 162/248, train\_loss: 0.0973, step time: 1.0143  
Batch 163/248, train\_loss: 0.0882, step time: 1.0145  
Batch 164/248, train\_loss: 0.1531, step time: 1.0160  
Batch 165/248, train\_loss: 0.3179, step time: 1.0123  
Batch 166/248, train\_loss: 0.0818, step time: 1.0155  
Batch 167/248, train\_loss: 0.1525, step time: 1.0158  
Batch 168/248, train\_loss: 0.1361, step time: 1.0139  
Batch 169/248, train\_loss: 0.0958, step time: 1.0176  
Batch 170/248, train\_loss: 0.6193, step time: 1.0155  
Batch 171/248, train\_loss: 0.0865, step time: 1.0134  
Batch 172/248, train\_loss: 0.2689, step time: 1.0174  
Batch 173/248, train\_loss: 0.0785, step time: 1.0160  
Batch 174/248, train\_loss: 0.7617, step time: 1.0188  
Batch 175/248, train\_loss: 0.1469, step time: 1.0184  
Batch 176/248, train\_loss: 0.3266, step time: 1.0191  
Batch 177/248, train\_loss: 0.2039, step time: 1.0185  
Batch 178/248, train\_loss: 0.2257, step time: 1.0184  
Batch 179/248, train\_loss: 0.0885, step time: 1.0121  
Batch 180/248, train\_loss: 0.1941, step time: 1.0146  
Batch 181/248, train\_loss: 0.1087, step time: 1.0165  
Batch 182/248, train\_loss: 0.9683, step time: 1.0166  
Batch 183/248, train\_loss: 0.1129, step time: 1.0161  
Batch 184/248, train\_loss: 0.2331, step time: 1.0147  
Batch 185/248, train\_loss: 0.0989, step time: 1.0163  
Batch 186/248, train\_loss: 0.0890, step time: 1.0155  
Batch 187/248, train\_loss: 0.1503, step time: 1.0141  
Batch 188/248, train\_loss: 0.3358, step time: 1.0175  
Batch 189/248, train\_loss: 0.3794, step time: 1.0125  
Batch 190/248, train\_loss: 0.1300, step time: 1.0144  
Batch 191/248, train\_loss: 0.5503, step time: 1.0169  
Batch 192/248, train\_loss: 0.2946, step time: 1.0158  
Batch 193/248, train\_loss: 0.3012, step time: 1.0163  
Batch 194/248, train\_loss: 0.0759, step time: 1.0179  
Batch 195/248, train\_loss: 0.5706, step time: 1.0181  
Batch 196/248, train\_loss: 0.9991, step time: 1.0124  
Batch 197/248, train\_loss: 0.1563, step time: 1.0152  
Batch 198/248, train\_loss: 0.4764, step time: 1.0170  
Batch 199/248, train\_loss: 0.1236, step time: 1.0176  
Batch 200/248, train\_loss: 0.1348, step time: 1.0156  
Batch 201/248, train\_loss: 0.1188, step time: 1.0135  
Batch 202/248, train\_loss: 0.3230, step time: 1.0165  
Batch 203/248, train\_loss: 0.5134, step time: 1.0173  
Batch 204/248, train\_loss: 0.0686, step time: 1.0149  
Batch 205/248, train\_loss: 0.2108, step time: 1.0164  
Batch 206/248, train\_loss: 0.2590, step time: 1.0170  
Batch 207/248, train\_loss: 0.0896, step time: 1.0145  
Batch 208/248, train\_loss: 0.2135, step time: 1.0157  
Batch 209/248, train\_loss: 0.1510, step time: 1.0159  
Batch 210/248, train\_loss: 0.0567, step time: 1.0143  
Batch 211/248, train\_loss: 0.0563, step time: 1.0141  
Batch 212/248, train\_loss: 0.3123, step time: 1.0162  
Batch 213/248, train\_loss: 0.1545, step time: 1.0173  
Batch 214/248, train\_loss: 0.0609, step time: 1.0098  
Batch 215/248, train\_loss: 0.1753, step time: 1.0148  
Batch 216/248, train\_loss: 0.1533, step time: 1.0166  
Batch 217/248, train\_loss: 0.2494, step time: 1.0176  
Batch 218/248, train\_loss: 0.7409, step time: 1.0183  
Batch 219/248, train\_loss: 0.0540, step time: 1.0146  
Batch 220/248, train\_loss: 0.1957, step time: 1.0189  
Batch 221/248, train\_loss: 0.2618, step time: 1.0169  
Batch 222/248, train\_loss: 0.1926, step time: 1.0165  
Batch 223/248, train\_loss: 0.0402, step time: 1.0117  
Batch 224/248, train\_loss: 0.0829, step time: 1.0156  
Batch 225/248, train\_loss: 0.1285, step time: 1.0165  
Batch 226/248, train\_loss: 0.3125, step time: 1.0149  
Batch 227/248, train\_loss: 0.0820, step time: 1.0141  
Batch 228/248, train\_loss: 0.1395, step time: 1.0155  
Batch 229/248, train\_loss: 0.0947, step time: 1.0103  
Batch 230/248, train\_loss: 0.0653, step time: 1.0138  
Batch 231/248, train\_loss: 0.7189, step time: 1.0152  
Batch 232/248, train\_loss: 0.0720, step time: 1.0128  
Batch 233/248, train\_loss: 0.8010, step time: 1.0176  
Batch 234/248, train\_loss: 0.4544, step time: 1.0174  
Batch 235/248, train\_loss: 0.4014, step time: 1.0185  
Batch 236/248, train\_loss: 0.7635, step time: 1.0192  
Batch 237/248, train\_loss: 0.0959, step time: 1.0160  
Batch 238/248, train\_loss: 0.0968, step time: 1.0156  
Batch 239/248, train\_loss: 0.0666, step time: 1.0168  
Batch 240/248, train\_loss: 0.2720, step time: 1.0183

```
Batch 241/248, train_loss: 0.3450, step time: 1.0186  
Batch 242/248, train_loss: 0.2273, step time: 1.0177  
Batch 243/248, train_loss: 0.4017, step time: 1.0194  
Batch 244/248, train_loss: 0.3628, step time: 1.0141  
Batch 245/248, train_loss: 0.0747, step time: 1.0140  
Batch 246/248, train_loss: 0.5066, step time: 1.0173  
Batch 247/248, train_loss: 0.0986, step time: 1.0151  
Batch 248/248, train_loss: 0.9995, step time: 1.0113
```

Labels



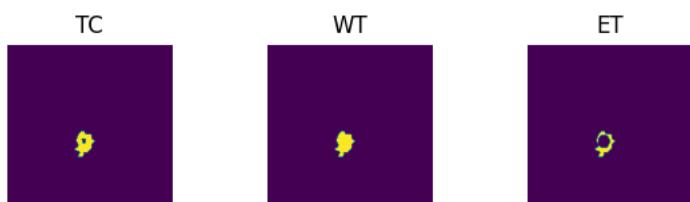
Predictions



VAL

```
Batch 1/31, val_loss: 0.9630  
Batch 2/31, val_loss: 0.9923  
Batch 3/31, val_loss: 0.9602  
Batch 4/31, val_loss: 0.9367  
Batch 5/31, val_loss: 0.9956  
Batch 6/31, val_loss: 0.7334  
Batch 7/31, val_loss: 0.8529  
Batch 8/31, val_loss: 0.9729  
Batch 9/31, val_loss: 0.7123  
Batch 10/31, val_loss: 0.9064  
Batch 11/31, val_loss: 0.8219  
Batch 12/31, val_loss: 0.9785  
Batch 13/31, val_loss: 0.9968  
Batch 14/31, val_loss: 0.9547  
Batch 15/31, val_loss: 0.9976  
Batch 16/31, val_loss: 0.9703  
Batch 17/31, val_loss: 0.9749  
Batch 18/31, val_loss: 0.9490  
Batch 19/31, val_loss: 0.7443  
Batch 20/31, val_loss: 0.8888  
Batch 21/31, val_loss: 0.8688  
Batch 22/31, val_loss: 0.9671  
Batch 23/31, val_loss: 0.9830  
Batch 24/31, val_loss: 0.7509  
Batch 25/31, val_loss: 0.7980  
Batch 26/31, val_loss: 0.9142  
Batch 27/31, val_loss: 0.9755  
Batch 28/31, val_loss: 0.7541  
Batch 29/31, val_loss: 0.9788  
Batch 30/31, val_loss: 0.9584  
Batch 31/31, val_loss: 0.9856
```

Labels



Predictions



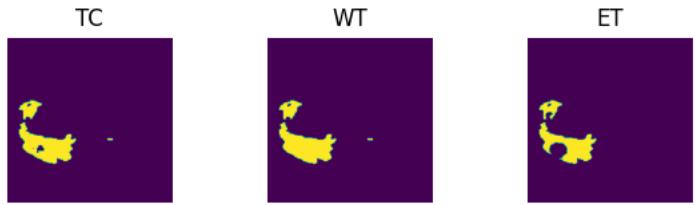
```
epoch 85
    average train loss: 0.2581
    average validation loss: 0.9109
    saved as best model: False
    current mean dice: 0.5081
    current TC dice: 0.5351
    current WT dice: 0.5414
    current ET dice: 0.4861
Best Mean Metric: 0.5258
time consuming of epoch 85 is: 1547.0596
-----
epoch 86/100
TRAIN
    Batch 1/248, train_loss: 0.1012, step time: 1.0189
    Batch 2/248, train_loss: 0.5404, step time: 1.0172
    Batch 3/248, train_loss: 0.2529, step time: 1.0160
    Batch 4/248, train_loss: 0.9055, step time: 1.0169
    Batch 5/248, train_loss: 0.2318, step time: 1.0136
    Batch 6/248, train_loss: 0.4045, step time: 1.0152
    Batch 7/248, train_loss: 0.0614, step time: 1.0134
    Batch 8/248, train_loss: 0.6850, step time: 1.0154
    Batch 9/248, train_loss: 0.0451, step time: 1.0147
    Batch 10/248, train_loss: 0.2315, step time: 1.0178
    Batch 11/248, train_loss: 0.1435, step time: 1.0176
    Batch 12/248, train_loss: 0.3327, step time: 1.0166
    Batch 13/248, train_loss: 0.2738, step time: 1.0169
    Batch 14/248, train_loss: 0.0560, step time: 1.0148
    Batch 15/248, train_loss: 0.2978, step time: 1.0145
    Batch 16/248, train_loss: 0.1444, step time: 1.0171
    Batch 17/248, train_loss: 0.2614, step time: 1.0186
    Batch 18/248, train_loss: 0.4193, step time: 1.0166
    Batch 19/248, train_loss: 0.0981, step time: 1.0137
    Batch 20/248, train_loss: 0.2624, step time: 1.0167
    Batch 21/248, train_loss: 0.0603, step time: 1.0144
    Batch 22/248, train_loss: 0.3970, step time: 1.0190
    Batch 23/248, train_loss: 0.9952, step time: 1.0153
    Batch 24/248, train_loss: 0.0743, step time: 1.0124
    Batch 25/248, train_loss: 0.0585, step time: 1.0167
    Batch 26/248, train_loss: 0.3087, step time: 1.0195
    Batch 27/248, train_loss: 0.0638, step time: 1.0141
    Batch 28/248, train_loss: 0.1528, step time: 1.0153
    Batch 29/248, train_loss: 0.3042, step time: 1.0166
    Batch 30/248, train_loss: 0.4815, step time: 1.0182
    Batch 31/248, train_loss: 0.2715, step time: 1.0171
    Batch 32/248, train_loss: 0.0696, step time: 1.0129
    Batch 33/248, train_loss: 0.0723, step time: 1.0109
    Batch 34/248, train_loss: 0.0462, step time: 1.0130
    Batch 35/248, train_loss: 0.0456, step time: 1.0140
    Batch 36/248, train_loss: 0.4018, step time: 1.0143
    Batch 37/248, train_loss: 0.1654, step time: 1.0130
    Batch 38/248, train_loss: 0.2551, step time: 1.0127
    Batch 39/248, train_loss: 0.1221, step time: 1.0143
    Batch 40/248, train_loss: 0.5003, step time: 1.0165
    Batch 41/248, train_loss: 0.3213, step time: 1.0176
    Batch 42/248, train_loss: 0.0586, step time: 1.0158
    Batch 43/248, train_loss: 0.0538, step time: 1.0159
    Batch 44/248, train_loss: 0.1662, step time: 1.0183
    Batch 45/248, train_loss: 0.3523, step time: 1.0147
    Batch 46/248, train_loss: 0.1772, step time: 1.0158
    Batch 47/248, train_loss: 0.0715, step time: 1.0161
    Batch 48/248, train_loss: 0.1874, step time: 1.0167
    Batch 49/248, train_loss: 0.5493, step time: 1.0179
    Batch 50/248, train_loss: 0.1360, step time: 1.0188
    Batch 51/248, train_loss: 0.1140, step time: 1.0165
    Batch 52/248, train_loss: 0.0923, step time: 1.0174
    Batch 53/248, train_loss: 0.3838, step time: 1.0159
    Batch 54/248, train_loss: 0.2085, step time: 1.0193
    Batch 55/248, train_loss: 0.2147, step time: 1.0165
    Batch 56/248, train_loss: 0.2189, step time: 1.0153
    Batch 57/248, train_loss: 0.2223, step time: 1.0147
    Batch 58/248, train_loss: 0.0717, step time: 1.0145
    Batch 59/248, train_loss: 0.0883, step time: 1.0128
    Batch 60/248, train_loss: 0.0482, step time: 1.0135
    Batch 61/248, train_loss: 0.0863, step time: 1.0145
    Batch 62/248, train_loss: 0.2020, step time: 1.0158
    Batch 63/248, train_loss: 0.5639, step time: 1.0160
    Batch 64/248, train_loss: 0.3032, step time: 1.0143
    Batch 65/248, train_loss: 0.3835, step time: 1.0146
    Batch 66/248, train_loss: 0.1154, step time: 1.0128
    Batch 67/248, train_loss: 0.0738, step time: 1.0162
    Batch 68/248, train_loss: 0.1643, step time: 1.0173
    Batch 69/248, train_loss: 0.3180, step time: 1.0210
    Batch 70/248, train_loss: 0.1328, step time: 1.0136
```

Batch 71/248, train\_loss: 0.1378, step time: 1.0173  
Batch 72/248, train\_loss: 0.0531, step time: 1.0104  
Batch 73/248, train\_loss: 0.2842, step time: 1.0149  
Batch 74/248, train\_loss: 0.9959, step time: 1.0097  
Batch 75/248, train\_loss: 0.1089, step time: 1.0152  
Batch 76/248, train\_loss: 0.6346, step time: 1.0198  
Batch 77/248, train\_loss: 0.7419, step time: 1.0172  
Batch 78/248, train\_loss: 0.1249, step time: 1.0168  
Batch 79/248, train\_loss: 0.1195, step time: 1.0177  
Batch 80/248, train\_loss: 0.1873, step time: 1.0154  
Batch 81/248, train\_loss: 0.1504, step time: 1.0205  
Batch 82/248, train\_loss: 0.0773, step time: 1.0131  
Batch 83/248, train\_loss: 0.5199, step time: 1.0169  
Batch 84/248, train\_loss: 0.2165, step time: 1.0147  
Batch 85/248, train\_loss: 0.6776, step time: 1.0150  
Batch 86/248, train\_loss: 0.4371, step time: 1.0155  
Batch 87/248, train\_loss: 0.3961, step time: 1.0169  
Batch 88/248, train\_loss: 0.3052, step time: 1.0168  
Batch 89/248, train\_loss: 0.0974, step time: 1.0206  
Batch 90/248, train\_loss: 0.4886, step time: 1.0186  
Batch 91/248, train\_loss: 0.2853, step time: 1.0185  
Batch 92/248, train\_loss: 0.2901, step time: 1.0188  
Batch 93/248, train\_loss: 0.1320, step time: 1.0182  
Batch 94/248, train\_loss: 0.3211, step time: 1.0199  
Batch 95/248, train\_loss: 0.1674, step time: 1.0163  
Batch 96/248, train\_loss: 0.1360, step time: 1.0157  
Batch 97/248, train\_loss: 0.3636, step time: 1.0186  
Batch 98/248, train\_loss: 0.1318, step time: 1.0157  
Batch 99/248, train\_loss: 0.2812, step time: 1.0154  
Batch 100/248, train\_loss: 0.2939, step time: 1.0168  
Batch 101/248, train\_loss: 0.0548, step time: 1.0121  
Batch 102/248, train\_loss: 0.0951, step time: 1.0149  
Batch 103/248, train\_loss: 0.3175, step time: 1.0157  
Batch 104/248, train\_loss: 0.3487, step time: 1.0167  
Batch 105/248, train\_loss: 0.0895, step time: 1.0121  
Batch 106/248, train\_loss: 0.1101, step time: 1.0163  
Batch 107/248, train\_loss: 0.2406, step time: 1.0146  
Batch 108/248, train\_loss: 0.3923, step time: 1.0182  
Batch 109/248, train\_loss: 0.7569, step time: 1.0184  
Batch 110/248, train\_loss: 0.1939, step time: 1.0176  
Batch 111/248, train\_loss: 0.0909, step time: 1.0170  
Batch 112/248, train\_loss: 0.1129, step time: 1.0171  
Batch 113/248, train\_loss: 0.7698, step time: 1.0147  
Batch 114/248, train\_loss: 0.1300, step time: 1.0174  
Batch 115/248, train\_loss: 0.1541, step time: 1.0173  
Batch 116/248, train\_loss: 0.0735, step time: 1.0141  
Batch 117/248, train\_loss: 0.6061, step time: 1.0147  
Batch 118/248, train\_loss: 0.4505, step time: 1.0174  
Batch 119/248, train\_loss: 0.2724, step time: 1.0145  
Batch 120/248, train\_loss: 0.2174, step time: 1.0168  
Batch 121/248, train\_loss: 0.2703, step time: 1.0156  
Batch 122/248, train\_loss: 0.4767, step time: 1.0176  
Batch 123/248, train\_loss: 0.0768, step time: 1.0168  
Batch 124/248, train\_loss: 0.3225, step time: 1.0188  
Batch 125/248, train\_loss: 0.6058, step time: 1.0214  
Batch 126/248, train\_loss: 0.2055, step time: 1.0161  
Batch 127/248, train\_loss: 0.1121, step time: 1.0206  
Batch 128/248, train\_loss: 0.2273, step time: 1.0191  
Batch 129/248, train\_loss: 0.0985, step time: 1.0165  
Batch 130/248, train\_loss: 0.0894, step time: 1.0161  
Batch 131/248, train\_loss: 0.4214, step time: 1.0199  
Batch 132/248, train\_loss: 0.2330, step time: 1.0162  
Batch 133/248, train\_loss: 0.1190, step time: 1.0130  
Batch 134/248, train\_loss: 0.7213, step time: 1.0179  
Batch 135/248, train\_loss: 0.3009, step time: 1.0169  
Batch 136/248, train\_loss: 0.1013, step time: 1.0156  
Batch 137/248, train\_loss: 0.1033, step time: 1.0146  
Batch 138/248, train\_loss: 0.0733, step time: 1.0159  
Batch 139/248, train\_loss: 0.1377, step time: 1.0157  
Batch 140/248, train\_loss: 0.1395, step time: 1.0170  
Batch 141/248, train\_loss: 0.1476, step time: 1.0151  
Batch 142/248, train\_loss: 0.4297, step time: 1.0172  
Batch 143/248, train\_loss: 0.2348, step time: 1.0150  
Batch 144/248, train\_loss: 0.1194, step time: 1.0107  
Batch 145/248, train\_loss: 0.0577, step time: 1.0125  
Batch 146/248, train\_loss: 0.5847, step time: 1.0173  
Batch 147/248, train\_loss: 0.0365, step time: 1.0117  
Batch 148/248, train\_loss: 0.5810, step time: 1.0171  
Batch 149/248, train\_loss: 0.1196, step time: 1.0132  
Batch 150/248, train\_loss: 0.6777, step time: 1.0173  
Batch 151/248, train\_loss: 0.2640, step time: 1.0142  
Batch 152/248, train\_loss: 0.0375, step time: 1.0111  
Batch 153/248, train\_loss: 0.2184, step time: 1.0171  
Batch 154/248, train\_loss: 0.4789, step time: 1.0178  
Batch 155/248, train\_loss: 0.0902, step time: 1.0150

Batch 156/248, train\_loss: 0.1817, step time: 1.0162  
Batch 157/248, train\_loss: 0.1775, step time: 1.0157  
Batch 158/248, train\_loss: 0.9851, step time: 1.0161  
Batch 159/248, train\_loss: 0.4386, step time: 1.0202  
Batch 160/248, train\_loss: 0.0805, step time: 1.0183  
Batch 161/248, train\_loss: 0.0954, step time: 1.0156  
Batch 162/248, train\_loss: 0.0823, step time: 1.0105  
Batch 163/248, train\_loss: 0.1086, step time: 1.0161  
Batch 164/248, train\_loss: 0.2569, step time: 1.0167  
Batch 165/248, train\_loss: 0.4599, step time: 1.0163  
Batch 166/248, train\_loss: 0.0804, step time: 1.0145  
Batch 167/248, train\_loss: 0.1581, step time: 1.0149  
Batch 168/248, train\_loss: 0.1292, step time: 1.0121  
Batch 169/248, train\_loss: 0.0921, step time: 1.0149  
Batch 170/248, train\_loss: 0.5393, step time: 1.0169  
Batch 171/248, train\_loss: 0.0796, step time: 1.0128  
Batch 172/248, train\_loss: 0.2670, step time: 1.0183  
Batch 173/248, train\_loss: 0.0956, step time: 1.0165  
Batch 174/248, train\_loss: 0.8499, step time: 1.0174  
Batch 175/248, train\_loss: 0.1447, step time: 1.0166  
Batch 176/248, train\_loss: 0.3455, step time: 1.0151  
Batch 177/248, train\_loss: 0.1875, step time: 1.0139  
Batch 178/248, train\_loss: 0.2438, step time: 1.0166  
Batch 179/248, train\_loss: 0.0863, step time: 1.0150  
Batch 180/248, train\_loss: 0.2642, step time: 1.0266  
Batch 181/248, train\_loss: 0.1095, step time: 1.0181  
Batch 182/248, train\_loss: 0.9241, step time: 1.0154  
Batch 183/248, train\_loss: 0.1051, step time: 1.0172  
Batch 184/248, train\_loss: 0.4826, step time: 1.0128  
Batch 185/248, train\_loss: 0.0874, step time: 1.0178  
Batch 186/248, train\_loss: 0.0884, step time: 1.0156  
Batch 187/248, train\_loss: 0.1661, step time: 1.0178  
Batch 188/248, train\_loss: 0.2190, step time: 1.0174  
Batch 189/248, train\_loss: 0.4788, step time: 1.0190  
Batch 190/248, train\_loss: 0.1406, step time: 1.0186  
Batch 191/248, train\_loss: 0.5573, step time: 1.0188  
Batch 192/248, train\_loss: 0.2313, step time: 1.0170  
Batch 193/248, train\_loss: 0.2215, step time: 1.0169  
Batch 194/248, train\_loss: 0.0794, step time: 1.0147  
Batch 195/248, train\_loss: 0.6143, step time: 1.0187  
Batch 196/248, train\_loss: 0.9954, step time: 1.0161  
Batch 197/248, train\_loss: 0.1972, step time: 1.0195  
Batch 198/248, train\_loss: 0.4925, step time: 1.0148  
Batch 199/248, train\_loss: 0.1455, step time: 1.0183  
Batch 200/248, train\_loss: 0.1210, step time: 1.0141  
Batch 201/248, train\_loss: 0.1181, step time: 1.0126  
Batch 202/248, train\_loss: 0.3251, step time: 1.0149  
Batch 203/248, train\_loss: 0.3982, step time: 1.0178  
Batch 204/248, train\_loss: 0.0746, step time: 1.0168  
Batch 205/248, train\_loss: 0.2073, step time: 1.0143  
Batch 206/248, train\_loss: 0.3325, step time: 1.0182  
Batch 207/248, train\_loss: 0.0888, step time: 1.0125  
Batch 208/248, train\_loss: 0.1574, step time: 1.0164  
Batch 209/248, train\_loss: 0.1972, step time: 1.0124  
Batch 210/248, train\_loss: 0.0552, step time: 1.0146  
Batch 211/248, train\_loss: 0.0720, step time: 1.0149  
Batch 212/248, train\_loss: 0.3916, step time: 1.0179  
Batch 213/248, train\_loss: 0.1496, step time: 1.0162  
Batch 214/248, train\_loss: 0.0632, step time: 1.0128  
Batch 215/248, train\_loss: 0.1731, step time: 1.0153  
Batch 216/248, train\_loss: 0.1688, step time: 1.0177  
Batch 217/248, train\_loss: 0.2355, step time: 1.0153  
Batch 218/248, train\_loss: 0.7941, step time: 1.0186  
Batch 219/248, train\_loss: 0.0633, step time: 1.0168  
Batch 220/248, train\_loss: 0.1659, step time: 1.0190  
Batch 221/248, train\_loss: 0.2374, step time: 1.0145  
Batch 222/248, train\_loss: 0.1982, step time: 1.0146  
Batch 223/248, train\_loss: 0.0403, step time: 1.0094  
Batch 224/248, train\_loss: 0.0777, step time: 1.0143  
Batch 225/248, train\_loss: 0.1351, step time: 1.0168  
Batch 226/248, train\_loss: 0.1874, step time: 1.0181  
Batch 227/248, train\_loss: 0.0879, step time: 1.0127  
Batch 228/248, train\_loss: 0.1458, step time: 1.0147  
Batch 229/248, train\_loss: 0.0909, step time: 1.0113  
Batch 230/248, train\_loss: 0.0705, step time: 1.0115  
Batch 231/248, train\_loss: 0.5277, step time: 1.0163  
Batch 232/248, train\_loss: 0.0816, step time: 1.0141  
Batch 233/248, train\_loss: 0.7602, step time: 1.0153  
Batch 234/248, train\_loss: 0.4379, step time: 1.0153  
Batch 235/248, train\_loss: 0.3022, step time: 1.0167  
Batch 236/248, train\_loss: 0.6917, step time: 1.0173  
Batch 237/248, train\_loss: 0.0920, step time: 1.0171  
Batch 238/248, train\_loss: 0.0893, step time: 1.0120  
Batch 239/248, train\_loss: 0.0869, step time: 1.0160  
Batch 240/248, train\_loss: 0.3001, step time: 1.0178

```
Batch 240/248, train_loss: 0.3004, step time: 1.0170  
Batch 241/248, train_loss: 0.3555, step time: 1.0188  
Batch 242/248, train_loss: 0.1667, step time: 1.0167  
Batch 243/248, train_loss: 0.4640, step time: 1.0190  
Batch 244/248, train_loss: 0.5968, step time: 1.0171  
Batch 245/248, train_loss: 0.0660, step time: 1.0132  
Batch 246/248, train_loss: 0.5579, step time: 1.0219  
Batch 247/248, train_loss: 0.0832, step time: 1.0146  
Batch 248/248, train_loss: 0.9999, step time: 1.0094
```

Labels



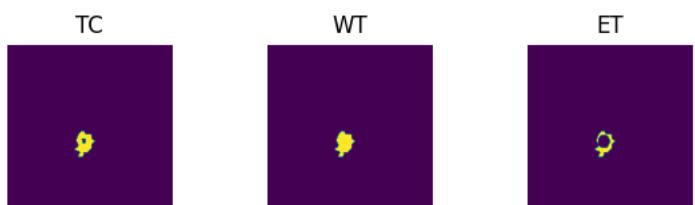
Predictions



#### VAL

```
Batch 1/31, val_loss: 0.9334  
Batch 2/31, val_loss: 0.9892  
Batch 3/31, val_loss: 0.9587  
Batch 4/31, val_loss: 0.9379  
Batch 5/31, val_loss: 0.9940  
Batch 6/31, val_loss: 0.7204  
Batch 7/31, val_loss: 0.8328  
Batch 8/31, val_loss: 0.9563  
Batch 9/31, val_loss: 0.6950  
Batch 10/31, val_loss: 0.9041  
Batch 11/31, val_loss: 0.8244  
Batch 12/31, val_loss: 0.9689  
Batch 13/31, val_loss: 0.9874  
Batch 14/31, val_loss: 0.9379  
Batch 15/31, val_loss: 0.9950  
Batch 16/31, val_loss: 0.9721  
Batch 17/31, val_loss: 0.9689  
Batch 18/31, val_loss: 0.9347  
Batch 19/31, val_loss: 0.7431  
Batch 20/31, val_loss: 0.8772  
Batch 21/31, val_loss: 0.8606  
Batch 22/31, val_loss: 0.9704  
Batch 23/31, val_loss: 0.9770  
Batch 24/31, val_loss: 0.7465  
Batch 25/31, val_loss: 0.8069  
Batch 26/31, val_loss: 0.9143  
Batch 27/31, val_loss: 0.9702  
Batch 28/31, val_loss: 0.7517  
Batch 29/31, val_loss: 0.9815  
Batch 30/31, val_loss: 0.9556  
Batch 31/31, val_loss: 0.9836
```

Labels



Predictions



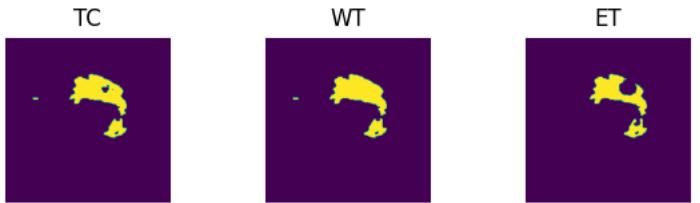
```
epoch 86
    average train loss: 0.2632
    average validation loss: 0.9048
    saved as best model: False
    current mean dice: 0.5001
    current TC dice: 0.5191
    current WT dice: 0.5272
    current ET dice: 0.4956
Best Mean Metric: 0.5258
time consuming of epoch 86 is: 1578.3280
-----
epoch 87/100
TRAIN
    Batch 1/248, train_loss: 0.0908, step time: 1.0160
    Batch 2/248, train_loss: 0.7146, step time: 1.0192
    Batch 3/248, train_loss: 0.3044, step time: 1.0147
    Batch 4/248, train_loss: 0.7826, step time: 1.0178
    Batch 5/248, train_loss: 0.1993, step time: 1.0158
    Batch 6/248, train_loss: 0.3175, step time: 1.0191
    Batch 7/248, train_loss: 0.0704, step time: 1.0140
    Batch 8/248, train_loss: 0.7010, step time: 1.0150
    Batch 9/248, train_loss: 0.0522, step time: 1.0154
    Batch 10/248, train_loss: 0.2294, step time: 1.0181
    Batch 11/248, train_loss: 0.1585, step time: 1.0167
    Batch 12/248, train_loss: 0.3983, step time: 1.0177
    Batch 13/248, train_loss: 0.2588, step time: 1.0173
    Batch 14/248, train_loss: 0.0600, step time: 1.0142
    Batch 15/248, train_loss: 0.3100, step time: 1.0163
    Batch 16/248, train_loss: 0.1408, step time: 1.0167
    Batch 17/248, train_loss: 0.2410, step time: 1.0187
    Batch 18/248, train_loss: 0.3260, step time: 1.0162
    Batch 19/248, train_loss: 0.1125, step time: 1.0135
    Batch 20/248, train_loss: 0.1859, step time: 1.0148
    Batch 21/248, train_loss: 0.0621, step time: 1.0150
    Batch 22/248, train_loss: 0.3239, step time: 1.0213
    Batch 23/248, train_loss: 0.9974, step time: 1.0113
    Batch 24/248, train_loss: 0.0777, step time: 1.0155
    Batch 25/248, train_loss: 0.0744, step time: 1.0147
    Batch 26/248, train_loss: 0.3617, step time: 1.0183
    Batch 27/248, train_loss: 0.0725, step time: 1.0173
    Batch 28/248, train_loss: 0.1593, step time: 1.0208
    Batch 29/248, train_loss: 0.3072, step time: 1.0180
    Batch 30/248, train_loss: 0.2040, step time: 1.0164
    Batch 31/248, train_loss: 0.2846, step time: 1.0142
    Batch 32/248, train_loss: 0.0839, step time: 1.0140
    Batch 33/248, train_loss: 0.0738, step time: 1.0143
    Batch 34/248, train_loss: 0.0419, step time: 1.0118
    Batch 35/248, train_loss: 0.0360, step time: 1.0114
    Batch 36/248, train_loss: 0.3418, step time: 1.0184
    Batch 37/248, train_loss: 0.1255, step time: 1.0142
    Batch 38/248, train_loss: 0.2714, step time: 1.0155
    Batch 39/248, train_loss: 0.1289, step time: 1.0148
    Batch 40/248, train_loss: 0.5605, step time: 1.0166
    Batch 41/248, train_loss: 0.2880, step time: 1.0181
    Batch 42/248, train_loss: 0.0619, step time: 1.0153
    Batch 43/248, train_loss: 0.0508, step time: 1.0151
    Batch 44/248, train_loss: 0.3004, step time: 1.0177
    Batch 45/248, train_loss: 0.3851, step time: 1.0169
    Batch 46/248, train_loss: 0.1634, step time: 1.0183
    Batch 47/248, train_loss: 0.0782, step time: 1.0168
    Batch 48/248, train_loss: 0.1749, step time: 1.0134
    Batch 49/248, train_loss: 0.5526, step time: 1.0142
    Batch 50/248, train_loss: 0.1308, step time: 1.0143
    Batch 51/248, train_loss: 0.1167, step time: 1.0124
    Batch 52/248, train_loss: 0.0890, step time: 1.0146
    Batch 53/248, train_loss: 0.4023, step time: 1.0182
    Batch 54/248, train_loss: 0.2143, step time: 1.0167
    Batch 55/248, train_loss: 0.2374, step time: 1.0177
    Batch 56/248, train_loss: 0.2464, step time: 1.0179
    Batch 57/248, train_loss: 0.1701, step time: 1.0128
    Batch 58/248, train_loss: 0.0684, step time: 1.0110
    Batch 59/248, train_loss: 0.0898, step time: 1.0165
    Batch 60/248, train_loss: 0.0451, step time: 1.0123
    Batch 61/248, train_loss: 0.0864, step time: 1.0138
    Batch 62/248, train_loss: 0.1984, step time: 1.0168
    Batch 63/248, train_loss: 0.5130, step time: 1.0145
    Batch 64/248, train_loss: 0.3292, step time: 1.0146
    Batch 65/248, train_loss: 0.2679, step time: 1.0180
    Batch 66/248, train_loss: 0.1266, step time: 1.0164
    Batch 67/248, train_loss: 0.0695, step time: 1.0107
    Batch 68/248, train_loss: 0.1613, step time: 1.0192
    Batch 69/248, train_loss: 0.4545, step time: 1.0201
    Batch 70/248. train loss: 0.1420. step time: 1.0164
```

Batch 71/248, train\_loss: 0.1197, step time: 1.0154  
Batch 72/248, train\_loss: 0.0644, step time: 1.0142  
Batch 73/248, train\_loss: 0.2058, step time: 1.0176  
Batch 74/248, train\_loss: 0.9963, step time: 1.0126  
Batch 75/248, train\_loss: 0.1539, step time: 1.0173  
Batch 76/248, train\_loss: 0.5385, step time: 1.0244  
Batch 77/248, train\_loss: 0.7792, step time: 1.0168  
Batch 78/248, train\_loss: 0.0929, step time: 1.0168  
Batch 79/248, train\_loss: 0.1396, step time: 1.0183  
Batch 80/248, train\_loss: 0.2002, step time: 1.0169  
Batch 81/248, train\_loss: 0.1411, step time: 1.0162  
Batch 82/248, train\_loss: 0.0757, step time: 1.0128  
Batch 83/248, train\_loss: 0.4898, step time: 1.0211  
Batch 84/248, train\_loss: 0.2611, step time: 1.0173  
Batch 85/248, train\_loss: 0.3055, step time: 1.0180  
Batch 86/248, train\_loss: 0.2297, step time: 1.0169  
Batch 87/248, train\_loss: 0.4664, step time: 1.0156  
Batch 88/248, train\_loss: 0.2878, step time: 1.0157  
Batch 89/248, train\_loss: 0.0838, step time: 1.0141  
Batch 90/248, train\_loss: 0.2773, step time: 1.0174  
Batch 91/248, train\_loss: 0.3267, step time: 1.0165  
Batch 92/248, train\_loss: 0.2479, step time: 1.0164  
Batch 93/248, train\_loss: 0.1370, step time: 1.0132  
Batch 94/248, train\_loss: 0.3259, step time: 1.0238  
Batch 95/248, train\_loss: 0.1747, step time: 1.0167  
Batch 96/248, train\_loss: 0.1689, step time: 1.0151  
Batch 97/248, train\_loss: 0.3416, step time: 1.0181  
Batch 98/248, train\_loss: 0.1075, step time: 1.0130  
Batch 99/248, train\_loss: 0.2548, step time: 1.0156  
Batch 100/248, train\_loss: 0.2183, step time: 1.0185  
Batch 101/248, train\_loss: 0.0494, step time: 1.0180  
Batch 102/248, train\_loss: 0.0970, step time: 1.0160  
Batch 103/248, train\_loss: 0.2822, step time: 1.0183  
Batch 104/248, train\_loss: 0.3483, step time: 1.0163  
Batch 105/248, train\_loss: 0.0817, step time: 1.0165  
Batch 106/248, train\_loss: 0.0931, step time: 1.0125  
Batch 107/248, train\_loss: 0.3226, step time: 1.0168  
Batch 108/248, train\_loss: 0.4892, step time: 1.0189  
Batch 109/248, train\_loss: 0.9890, step time: 1.0188  
Batch 110/248, train\_loss: 0.2049, step time: 1.0184  
Batch 111/248, train\_loss: 0.0890, step time: 1.0142  
Batch 112/248, train\_loss: 0.0871, step time: 1.0169  
Batch 113/248, train\_loss: 0.8632, step time: 1.0184  
Batch 114/248, train\_loss: 0.1317, step time: 1.0141  
Batch 115/248, train\_loss: 0.1144, step time: 1.0163  
Batch 116/248, train\_loss: 0.0706, step time: 1.0140  
Batch 117/248, train\_loss: 0.5693, step time: 1.0176  
Batch 118/248, train\_loss: 0.3659, step time: 1.0158  
Batch 119/248, train\_loss: 0.2770, step time: 1.0128  
Batch 120/248, train\_loss: 0.2390, step time: 1.0149  
Batch 121/248, train\_loss: 0.2660, step time: 1.0177  
Batch 122/248, train\_loss: 0.3423, step time: 1.0169  
Batch 123/248, train\_loss: 0.0752, step time: 1.0172  
Batch 124/248, train\_loss: 0.3157, step time: 1.0181  
Batch 125/248, train\_loss: 0.5533, step time: 1.0174  
Batch 126/248, train\_loss: 0.1838, step time: 1.0174  
Batch 127/248, train\_loss: 0.1136, step time: 1.0162  
Batch 128/248, train\_loss: 0.2636, step time: 1.0198  
Batch 129/248, train\_loss: 0.1045, step time: 1.0134  
Batch 130/248, train\_loss: 0.0861, step time: 1.0134  
Batch 131/248, train\_loss: 0.3738, step time: 1.0165  
Batch 132/248, train\_loss: 0.1675, step time: 1.0113  
Batch 133/248, train\_loss: 0.1400, step time: 1.0143  
Batch 134/248, train\_loss: 0.7054, step time: 1.0192  
Batch 135/248, train\_loss: 0.1990, step time: 1.0169  
Batch 136/248, train\_loss: 0.0955, step time: 1.0143  
Batch 137/248, train\_loss: 0.1217, step time: 1.0178  
Batch 138/248, train\_loss: 0.0633, step time: 1.0111  
Batch 139/248, train\_loss: 0.2410, step time: 1.0145  
Batch 140/248, train\_loss: 0.1382, step time: 1.0188  
Batch 141/248, train\_loss: 0.1939, step time: 1.0178  
Batch 142/248, train\_loss: 0.4425, step time: 1.0181  
Batch 143/248, train\_loss: 0.2111, step time: 1.0109  
Batch 144/248, train\_loss: 0.1236, step time: 1.0135  
Batch 145/248, train\_loss: 0.0838, step time: 1.0152  
Batch 146/248, train\_loss: 0.4577, step time: 1.0167  
Batch 147/248, train\_loss: 0.0420, step time: 1.0140  
Batch 148/248, train\_loss: 0.6220, step time: 1.0179  
Batch 149/248, train\_loss: 0.1135, step time: 1.0152  
Batch 150/248, train\_loss: 0.6530, step time: 1.0163  
Batch 151/248, train\_loss: 0.2661, step time: 1.0138  
Batch 152/248, train\_loss: 0.0361, step time: 1.0167  
Batch 153/248, train\_loss: 0.2225, step time: 1.0187  
Batch 154/248, train\_loss: 0.4893, step time: 1.0175  
Batch 155/248, train\_loss: 0.1260, step time: 1.0210

Batch 154/248, train\_loss: 0.1200, step time: 1.0240  
Batch 156/248, train\_loss: 0.2547, step time: 1.0184  
Batch 157/248, train\_loss: 0.1830, step time: 1.0137  
Batch 158/248, train\_loss: 0.9759, step time: 1.0131  
Batch 159/248, train\_loss: 0.2379, step time: 1.0176  
Batch 160/248, train\_loss: 0.1146, step time: 1.0149  
Batch 161/248, train\_loss: 0.1037, step time: 1.0168  
Batch 162/248, train\_loss: 0.0706, step time: 1.0149  
Batch 163/248, train\_loss: 0.1030, step time: 1.0197  
Batch 164/248, train\_loss: 0.1508, step time: 1.0173  
Batch 165/248, train\_loss: 0.3377, step time: 1.0179  
Batch 166/248, train\_loss: 0.0817, step time: 1.0188  
Batch 167/248, train\_loss: 0.1706, step time: 1.0163  
Batch 168/248, train\_loss: 0.1381, step time: 1.0148  
Batch 169/248, train\_loss: 0.0847, step time: 1.0201  
Batch 170/248, train\_loss: 0.4973, step time: 1.0204  
Batch 171/248, train\_loss: 0.0788, step time: 1.0134  
Batch 172/248, train\_loss: 0.3147, step time: 1.0162  
Batch 173/248, train\_loss: 0.0878, step time: 1.0138  
Batch 174/248, train\_loss: 0.6746, step time: 1.0176  
Batch 175/248, train\_loss: 0.1536, step time: 1.0148  
Batch 176/248, train\_loss: 0.3260, step time: 1.0167  
Batch 177/248, train\_loss: 0.2004, step time: 1.0178  
Batch 178/248, train\_loss: 0.2878, step time: 1.0171  
Batch 179/248, train\_loss: 0.0981, step time: 1.0165  
Batch 180/248, train\_loss: 0.1904, step time: 1.0167  
Batch 181/248, train\_loss: 0.1252, step time: 1.0147  
Batch 182/248, train\_loss: 0.8986, step time: 1.0203  
Batch 183/248, train\_loss: 0.1398, step time: 1.0178  
Batch 184/248, train\_loss: 0.2315, step time: 1.0170  
Batch 185/248, train\_loss: 0.0816, step time: 1.0161  
Batch 186/248, train\_loss: 0.0804, step time: 1.0132  
Batch 187/248, train\_loss: 0.1560, step time: 1.0153  
Batch 188/248, train\_loss: 0.2939, step time: 1.0150  
Batch 189/248, train\_loss: 0.3660, step time: 1.0171  
Batch 190/248, train\_loss: 0.1278, step time: 1.0151  
Batch 191/248, train\_loss: 0.5636, step time: 1.0176  
Batch 192/248, train\_loss: 0.3400, step time: 1.0174  
Batch 193/248, train\_loss: 0.2985, step time: 1.0165  
Batch 194/248, train\_loss: 0.0734, step time: 1.0129  
Batch 195/248, train\_loss: 0.6220, step time: 1.0149  
Batch 196/248, train\_loss: 0.7397, step time: 1.0182  
Batch 197/248, train\_loss: 0.1902, step time: 1.0153  
Batch 198/248, train\_loss: 0.4672, step time: 1.0190  
Batch 199/248, train\_loss: 0.4412, step time: 1.0183  
Batch 200/248, train\_loss: 0.1151, step time: 1.0166  
Batch 201/248, train\_loss: 0.1231, step time: 1.0156  
Batch 202/248, train\_loss: 0.3248, step time: 1.0154  
Batch 203/248, train\_loss: 0.5070, step time: 1.0170  
Batch 204/248, train\_loss: 0.0955, step time: 1.0154  
Batch 205/248, train\_loss: 0.2104, step time: 1.0164  
Batch 206/248, train\_loss: 0.2547, step time: 1.0218  
Batch 207/248, train\_loss: 0.0733, step time: 1.0153  
Batch 208/248, train\_loss: 0.1297, step time: 1.0161  
Batch 209/248, train\_loss: 0.1386, step time: 1.0159  
Batch 210/248, train\_loss: 0.0616, step time: 1.0113  
Batch 211/248, train\_loss: 0.0669, step time: 1.0134  
Batch 212/248, train\_loss: 0.2079, step time: 1.0194  
Batch 213/248, train\_loss: 0.1941, step time: 1.0163  
Batch 214/248, train\_loss: 0.0711, step time: 1.0146  
Batch 215/248, train\_loss: 0.1459, step time: 1.0174  
Batch 216/248, train\_loss: 0.1412, step time: 1.0171  
Batch 217/248, train\_loss: 0.2550, step time: 1.0177  
Batch 218/248, train\_loss: 0.7353, step time: 1.0163  
Batch 219/248, train\_loss: 0.0705, step time: 1.0175  
Batch 220/248, train\_loss: 0.1935, step time: 1.0181  
Batch 221/248, train\_loss: 0.2773, step time: 1.0143  
Batch 222/248, train\_loss: 0.1809, step time: 1.0139  
Batch 223/248, train\_loss: 0.0395, step time: 1.0122  
Batch 224/248, train\_loss: 0.0870, step time: 1.0158  
Batch 225/248, train\_loss: 0.1378, step time: 1.0190  
Batch 226/248, train\_loss: 0.1693, step time: 1.0182  
Batch 227/248, train\_loss: 0.1120, step time: 1.0137  
Batch 228/248, train\_loss: 0.1301, step time: 1.0154  
Batch 229/248, train\_loss: 0.1095, step time: 1.0177  
Batch 230/248, train\_loss: 0.0657, step time: 1.0129  
Batch 231/248, train\_loss: 0.2593, step time: 1.0120  
Batch 232/248, train\_loss: 0.0797, step time: 1.0141  
Batch 233/248, train\_loss: 0.7608, step time: 1.0167  
Batch 234/248, train\_loss: 0.4950, step time: 1.0186  
Batch 235/248, train\_loss: 0.2846, step time: 1.0147  
Batch 236/248, train\_loss: 0.7262, step time: 1.0176  
Batch 237/248, train\_loss: 0.0941, step time: 1.0147  
Batch 238/248, train\_loss: 0.0953, step time: 1.0162  
Batch 239/248, train\_loss: 0.0568, step time: 1.0153

```
Batch 240/248, train_loss: 0.2715, step time: 1.0181
Batch 241/248, train_loss: 0.3787, step time: 1.0193
Batch 242/248, train_loss: 0.1236, step time: 1.0151
Batch 243/248, train_loss: 0.5128, step time: 1.0156
Batch 244/248, train_loss: 0.3718, step time: 1.0173
Batch 245/248, train_loss: 0.0591, step time: 1.0101
Batch 246/248, train_loss: 0.4994, step time: 1.0192
Batch 247/248, train_loss: 0.0778, step time: 1.0148
Batch 248/248, train_loss: 0.9995, step time: 1.0110
```

Labels



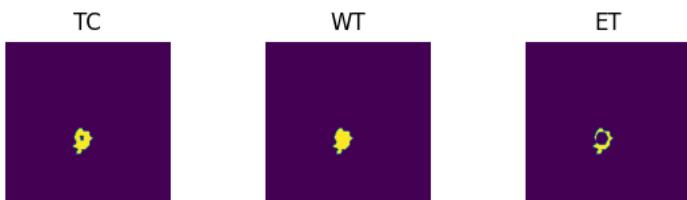
Predictions



VAL

```
Batch 1/31, val_loss: 0.9015
Batch 2/31, val_loss: 0.9914
Batch 3/31, val_loss: 0.9618
Batch 4/31, val_loss: 0.9411
Batch 5/31, val_loss: 0.9969
Batch 6/31, val_loss: 0.6981
Batch 7/31, val_loss: 0.8320
Batch 8/31, val_loss: 0.9659
Batch 9/31, val_loss: 0.6891
Batch 10/31, val_loss: 0.9038
Batch 11/31, val_loss: 0.8224
Batch 12/31, val_loss: 0.9755
Batch 13/31, val_loss: 0.9871
Batch 14/31, val_loss: 0.9459
Batch 15/31, val_loss: 0.9964
Batch 16/31, val_loss: 0.9718
Batch 17/31, val_loss: 0.9746
Batch 18/31, val_loss: 0.9402
Batch 19/31, val_loss: 0.7419
Batch 20/31, val_loss: 0.8898
Batch 21/31, val_loss: 0.8561
Batch 22/31, val_loss: 0.9690
Batch 23/31, val_loss: 0.9817
Batch 24/31, val_loss: 0.7448
Batch 25/31, val_loss: 0.7964
Batch 26/31, val_loss: 0.9145
Batch 27/31, val_loss: 0.9765
Batch 28/31, val_loss: 0.7547
Batch 29/31, val_loss: 0.9795
Batch 30/31, val_loss: 0.9597
Batch 31/31, val_loss: 0.9843
```

Labels



Predictions



epoch 87  
average train loss: 0.2532  
average validation loss: 0.9047  
saved as best model: False  
current mean dice: 0.5250  
current TC dice: 0.5446  
current WT dice: 0.5521  
current ET dice: 0.5220  
Best Mean Metric: 0.5258  
time consuming of epoch 87 is: 1552.5465

-----  
epoch 88/100  
TRAIN

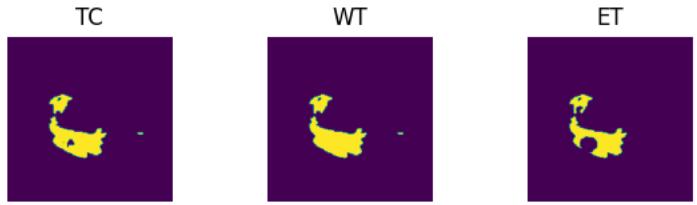
Batch 1/248, train\_loss: 0.0772, step time: 1.0155  
Batch 2/248, train\_loss: 0.6345, step time: 1.0178  
Batch 3/248, train\_loss: 0.2674, step time: 1.0151  
Batch 4/248, train\_loss: 0.8208, step time: 1.0158  
Batch 5/248, train\_loss: 0.1794, step time: 1.0150  
Batch 6/248, train\_loss: 0.5052, step time: 1.0173  
Batch 7/248, train\_loss: 0.0612, step time: 1.0134  
Batch 8/248, train\_loss: 0.7158, step time: 1.0123  
Batch 9/248, train\_loss: 0.0437, step time: 1.0156  
Batch 10/248, train\_loss: 0.2046, step time: 1.0180  
Batch 11/248, train\_loss: 0.1429, step time: 1.0173  
Batch 12/248, train\_loss: 0.3223, step time: 1.0193  
Batch 13/248, train\_loss: 0.3083, step time: 1.0216  
Batch 14/248, train\_loss: 0.0568, step time: 1.0146  
Batch 15/248, train\_loss: 0.2979, step time: 1.0166  
Batch 16/248, train\_loss: 0.1305, step time: 1.0134  
Batch 17/248, train\_loss: 0.2136, step time: 1.0183  
Batch 18/248, train\_loss: 0.3223, step time: 1.0164  
Batch 19/248, train\_loss: 0.1110, step time: 1.0184  
Batch 20/248, train\_loss: 0.1877, step time: 1.0207  
Batch 21/248, train\_loss: 0.0530, step time: 1.0135  
Batch 22/248, train\_loss: 0.6097, step time: 1.0173  
Batch 23/248, train\_loss: 0.9979, step time: 1.0113  
Batch 24/248, train\_loss: 0.0706, step time: 1.0130  
Batch 25/248, train\_loss: 0.0593, step time: 1.0127  
Batch 26/248, train\_loss: 0.3345, step time: 1.0167  
Batch 27/248, train\_loss: 0.0621, step time: 1.0130  
Batch 28/248, train\_loss: 0.1500, step time: 1.0179  
Batch 29/248, train\_loss: 0.3533, step time: 1.0165  
Batch 30/248, train\_loss: 0.2212, step time: 1.0170  
Batch 31/248, train\_loss: 0.2781, step time: 1.0190  
Batch 32/248, train\_loss: 0.0788, step time: 1.0151  
Batch 33/248, train\_loss: 0.0732, step time: 1.0149  
Batch 34/248, train\_loss: 0.0429, step time: 1.0106  
Batch 35/248, train\_loss: 0.0386, step time: 1.0121  
Batch 36/248, train\_loss: 0.3605, step time: 1.0166  
Batch 37/248, train\_loss: 0.1717, step time: 1.0148  
Batch 38/248, train\_loss: 0.2651, step time: 1.0138  
Batch 39/248, train\_loss: 0.1706, step time: 1.0158  
Batch 40/248, train\_loss: 0.5016, step time: 1.0180  
Batch 41/248, train\_loss: 0.2642, step time: 1.0175  
Batch 42/248, train\_loss: 0.0648, step time: 1.0103  
Batch 43/248, train\_loss: 0.0515, step time: 1.0140  
Batch 44/248, train\_loss: 0.3948, step time: 1.0175  
Batch 45/248, train\_loss: 0.3691, step time: 1.0173  
Batch 46/248, train\_loss: 0.1519, step time: 1.0170  
Batch 47/248, train\_loss: 0.0800, step time: 1.0164  
Batch 48/248, train\_loss: 0.1838, step time: 1.0172  
Batch 49/248, train\_loss: 0.4472, step time: 1.0143  
Batch 50/248, train\_loss: 0.1182, step time: 1.0132  
Batch 51/248, train\_loss: 0.1534, step time: 1.0158  
Batch 52/248, train\_loss: 0.0869, step time: 1.0162  
Batch 53/248, train\_loss: 0.4254, step time: 1.0161  
Batch 54/248, train\_loss: 0.2233, step time: 1.0164  
Batch 55/248, train\_loss: 0.2198, step time: 1.0166  
Batch 56/248, train\_loss: 0.2136, step time: 1.0157  
Batch 57/248, train\_loss: 0.2206, step time: 1.0137  
Batch 58/248, train\_loss: 0.0750, step time: 1.0156  
Batch 59/248, train\_loss: 0.0813, step time: 1.0117  
Batch 60/248, train\_loss: 0.0476, step time: 1.0144  
Batch 61/248, train\_loss: 0.0881, step time: 1.0085  
Batch 62/248, train\_loss: 0.2040, step time: 1.0137  
Batch 63/248, train\_loss: 0.4796, step time: 1.0166  
Batch 64/248, train\_loss: 0.2819, step time: 1.0154  
Batch 65/248, train\_loss: 0.2827, step time: 1.0170  
Batch 66/248, train\_loss: 0.1162, step time: 1.0149  
Batch 67/248, train\_loss: 0.0661, step time: 1.0138  
Batch 68/248, train\_loss: 0.2313, step time: 1.0171  
Batch 69/248, train\_loss: 0.3250, step time: 1.0181

Batch 0/248, train\_loss: 0.1316, step time: 1.0169  
Batch 1/248, train\_loss: 0.1255, step time: 1.0185  
Batch 2/248, train\_loss: 0.0566, step time: 1.0165  
Batch 3/248, train\_loss: 0.3599, step time: 1.0164  
Batch 4/248, train\_loss: 0.9961, step time: 1.0126  
Batch 5/248, train\_loss: 0.1091, step time: 1.0139  
Batch 6/248, train\_loss: 0.4430, step time: 1.0157  
Batch 7/248, train\_loss: 0.7693, step time: 1.0134  
Batch 8/248, train\_loss: 0.1235, step time: 1.0136  
Batch 9/248, train\_loss: 0.1430, step time: 1.0164  
Batch 10/248, train\_loss: 0.1752, step time: 1.0146  
Batch 11/248, train\_loss: 0.1732, step time: 1.0186  
Batch 12/248, train\_loss: 0.0742, step time: 1.0158  
Batch 13/248, train\_loss: 0.4665, step time: 1.0195  
Batch 14/248, train\_loss: 0.2360, step time: 1.0167  
Batch 15/248, train\_loss: 0.3479, step time: 1.0185  
Batch 16/248, train\_loss: 0.2722, step time: 1.0184  
Batch 17/248, train\_loss: 0.3964, step time: 1.0178  
Batch 18/248, train\_loss: 0.2849, step time: 1.0178  
Batch 19/248, train\_loss: 0.0851, step time: 1.0142  
Batch 20/248, train\_loss: 0.2054, step time: 1.0162  
Batch 21/248, train\_loss: 0.4278, step time: 1.0203  
Batch 22/248, train\_loss: 0.2324, step time: 1.0141  
Batch 23/248, train\_loss: 0.1463, step time: 1.0145  
Batch 24/248, train\_loss: 0.2706, step time: 1.0177  
Batch 25/248, train\_loss: 0.1719, step time: 1.0139  
Batch 26/248, train\_loss: 0.1430, step time: 1.0136  
Batch 27/248, train\_loss: 0.3180, step time: 1.0187  
Batch 28/248, train\_loss: 0.0966, step time: 1.0169  
Batch 29/248, train\_loss: 0.2687, step time: 1.0181  
Batch 30/248, train\_loss: 0.2204, step time: 1.0204  
Batch 31/248, train\_loss: 0.0546, step time: 1.0146  
Batch 32/248, train\_loss: 0.1002, step time: 1.0152  
Batch 33/248, train\_loss: 0.6066, step time: 1.0190  
Batch 34/248, train\_loss: 0.3413, step time: 1.0189  
Batch 35/248, train\_loss: 0.0763, step time: 1.0108  
Batch 36/248, train\_loss: 0.1364, step time: 1.0168  
Batch 37/248, train\_loss: 0.2147, step time: 1.0208  
Batch 38/248, train\_loss: 0.6236, step time: 1.0182  
Batch 39/248, train\_loss: 0.5995, step time: 1.0175  
Batch 40/248, train\_loss: 0.3573, step time: 1.0178  
Batch 41/248, train\_loss: 0.1422, step time: 1.0206  
Batch 42/248, train\_loss: 0.1764, step time: 1.0177  
Batch 43/248, train\_loss: 0.8548, step time: 1.0168  
Batch 44/248, train\_loss: 0.2018, step time: 1.0154  
Batch 45/248, train\_loss: 0.1426, step time: 1.0162  
Batch 46/248, train\_loss: 0.0795, step time: 1.0138  
Batch 47/248, train\_loss: 0.4718, step time: 1.0172  
Batch 48/248, train\_loss: 0.4160, step time: 1.0173  
Batch 49/248, train\_loss: 0.3231, step time: 1.0192  
Batch 50/248, train\_loss: 0.2366, step time: 1.0166  
Batch 51/248, train\_loss: 0.2757, step time: 1.0171  
Batch 52/248, train\_loss: 0.4443, step time: 1.0167  
Batch 53/248, train\_loss: 0.0933, step time: 1.0175  
Batch 54/248, train\_loss: 0.3424, step time: 1.0178  
Batch 55/248, train\_loss: 0.5047, step time: 1.0177  
Batch 56/248, train\_loss: 0.2810, step time: 1.0174  
Batch 57/248, train\_loss: 0.1361, step time: 1.0179  
Batch 58/248, train\_loss: 0.3856, step time: 1.0207  
Batch 59/248, train\_loss: 0.0870, step time: 1.0109  
Batch 60/248, train\_loss: 0.0863, step time: 1.0126  
Batch 61/248, train\_loss: 0.4965, step time: 1.0171  
Batch 62/248, train\_loss: 0.2176, step time: 1.0188  
Batch 63/248, train\_loss: 0.1279, step time: 1.0144  
Batch 64/248, train\_loss: 0.5810, step time: 1.0172  
Batch 65/248, train\_loss: 0.2832, step time: 1.0165  
Batch 66/248, train\_loss: 0.0937, step time: 1.0121  
Batch 67/248, train\_loss: 0.0998, step time: 1.0118  
Batch 68/248, train\_loss: 0.0638, step time: 1.0130  
Batch 69/248, train\_loss: 0.1822, step time: 1.0171  
Batch 70/248, train\_loss: 0.1369, step time: 1.0168  
Batch 71/248, train\_loss: 0.1776, step time: 1.0206  
Batch 72/248, train\_loss: 0.3780, step time: 1.0180  
Batch 73/248, train\_loss: 0.2330, step time: 1.0158  
Batch 74/248, train\_loss: 0.1299, step time: 1.0158  
Batch 75/248, train\_loss: 0.1189, step time: 1.0148  
Batch 76/248, train\_loss: 0.5556, step time: 1.0197  
Batch 77/248, train\_loss: 0.0422, step time: 1.0127  
Batch 78/248, train\_loss: 0.5697, step time: 1.0179  
Batch 79/248, train\_loss: 0.1064, step time: 1.0158  
Batch 80/248, train\_loss: 0.6721, step time: 1.0168  
Batch 81/248, train\_loss: 0.3014, step time: 1.0131  
Batch 82/248, train\_loss: 0.0369, step time: 1.0140  
Batch 83/248, train\_loss: 0.1581, step time: 1.0140  
Batch 84/248, train\_loss: 0.5066, step time: 1.0153

Batch 155/248, train\_loss: 0.1014, step time: 1.0177  
Batch 156/248, train\_loss: 0.1626, step time: 1.0176  
Batch 157/248, train\_loss: 0.1841, step time: 1.0178  
Batch 158/248, train\_loss: 0.9753, step time: 1.0176  
Batch 159/248, train\_loss: 0.2725, step time: 1.0205  
Batch 160/248, train\_loss: 0.0917, step time: 1.0134  
Batch 161/248, train\_loss: 0.0983, step time: 1.0174  
Batch 162/248, train\_loss: 0.0751, step time: 1.0147  
Batch 163/248, train\_loss: 0.1345, step time: 1.0161  
Batch 164/248, train\_loss: 0.1526, step time: 1.0163  
Batch 165/248, train\_loss: 0.2947, step time: 1.0157  
Batch 166/248, train\_loss: 0.0747, step time: 1.0155  
Batch 167/248, train\_loss: 0.1897, step time: 1.0163  
Batch 168/248, train\_loss: 0.1398, step time: 1.0151  
Batch 169/248, train\_loss: 0.0758, step time: 1.0147  
Batch 170/248, train\_loss: 0.6048, step time: 1.0166  
Batch 171/248, train\_loss: 0.0798, step time: 1.0140  
Batch 172/248, train\_loss: 0.3529, step time: 1.0186  
Batch 173/248, train\_loss: 0.1094, step time: 1.0166  
Batch 174/248, train\_loss: 0.5524, step time: 1.0173  
Batch 175/248, train\_loss: 0.1443, step time: 1.0163  
Batch 176/248, train\_loss: 0.3361, step time: 1.0174  
Batch 177/248, train\_loss: 0.2038, step time: 1.0178  
Batch 178/248, train\_loss: 0.2379, step time: 1.0168  
Batch 179/248, train\_loss: 0.0810, step time: 1.0129  
Batch 180/248, train\_loss: 0.1918, step time: 1.0171  
Batch 181/248, train\_loss: 0.1135, step time: 1.0159  
Batch 182/248, train\_loss: 0.9224, step time: 1.0189  
Batch 183/248, train\_loss: 0.1449, step time: 1.0188  
Batch 184/248, train\_loss: 0.3124, step time: 1.0164  
Batch 185/248, train\_loss: 0.0855, step time: 1.0160  
Batch 186/248, train\_loss: 0.0768, step time: 1.0129  
Batch 187/248, train\_loss: 0.1660, step time: 1.0131  
Batch 188/248, train\_loss: 0.2903, step time: 1.0175  
Batch 189/248, train\_loss: 0.4167, step time: 1.0154  
Batch 190/248, train\_loss: 0.1160, step time: 1.0166  
Batch 191/248, train\_loss: 0.5713, step time: 1.0159  
Batch 192/248, train\_loss: 0.2715, step time: 1.0168  
Batch 193/248, train\_loss: 0.2321, step time: 1.0162  
Batch 194/248, train\_loss: 0.0807, step time: 1.0157  
Batch 195/248, train\_loss: 0.5623, step time: 1.0164  
Batch 196/248, train\_loss: 0.9170, step time: 1.0195  
Batch 197/248, train\_loss: 0.1539, step time: 1.0171  
Batch 198/248, train\_loss: 0.4259, step time: 1.0178  
Batch 199/248, train\_loss: 0.1300, step time: 1.0180  
Batch 200/248, train\_loss: 0.1316, step time: 1.0117  
Batch 201/248, train\_loss: 0.1106, step time: 1.0115  
Batch 202/248, train\_loss: 0.3009, step time: 1.0132  
Batch 203/248, train\_loss: 0.5765, step time: 1.0183  
Batch 204/248, train\_loss: 0.0724, step time: 1.0148  
Batch 205/248, train\_loss: 0.2103, step time: 1.0185  
Batch 206/248, train\_loss: 0.2469, step time: 1.0179  
Batch 207/248, train\_loss: 0.0795, step time: 1.0258  
Batch 208/248, train\_loss: 0.1921, step time: 1.0156  
Batch 209/248, train\_loss: 0.1318, step time: 1.0156  
Batch 210/248, train\_loss: 0.0682, step time: 1.0130  
Batch 211/248, train\_loss: 0.0614, step time: 1.0150  
Batch 212/248, train\_loss: 0.1965, step time: 1.0173  
Batch 213/248, train\_loss: 0.1507, step time: 1.0174  
Batch 214/248, train\_loss: 0.0637, step time: 1.0133  
Batch 215/248, train\_loss: 0.1527, step time: 1.0154  
Batch 216/248, train\_loss: 0.1206, step time: 1.0183  
Batch 217/248, train\_loss: 0.2393, step time: 1.0148  
Batch 218/248, train\_loss: 0.7745, step time: 1.0222  
Batch 219/248, train\_loss: 0.0589, step time: 1.0157  
Batch 220/248, train\_loss: 0.1714, step time: 1.0182  
Batch 221/248, train\_loss: 0.2633, step time: 1.0177  
Batch 222/248, train\_loss: 0.1746, step time: 1.0150  
Batch 223/248, train\_loss: 0.0409, step time: 1.0135  
Batch 224/248, train\_loss: 0.0774, step time: 1.0138  
Batch 225/248, train\_loss: 0.1798, step time: 1.0200  
Batch 226/248, train\_loss: 0.0904, step time: 1.0139  
Batch 227/248, train\_loss: 0.0823, step time: 1.0095  
Batch 228/248, train\_loss: 0.1231, step time: 1.0145  
Batch 229/248, train\_loss: 0.1013, step time: 1.0158  
Batch 230/248, train\_loss: 0.0607, step time: 1.0119  
Batch 231/248, train\_loss: 0.2822, step time: 1.0137  
Batch 232/248, train\_loss: 0.0814, step time: 1.0139  
Batch 233/248, train\_loss: 0.7683, step time: 1.0218  
Batch 234/248, train\_loss: 0.4896, step time: 1.0174  
Batch 235/248, train\_loss: 0.2794, step time: 1.0194  
Batch 236/248, train\_loss: 0.7169, step time: 1.0158  
Batch 237/248, train\_loss: 0.0957, step time: 1.0163  
Batch 238/248, train\_loss: 0.0876, step time: 1.0149  
Batch 239/248, train\_loss: 0.0608, step time: 1.0140

```
Batch 240/248, train_loss: 0.2525, step time: 1.0159  
Batch 241/248, train_loss: 0.3470, step time: 1.0202  
Batch 242/248, train_loss: 0.1422, step time: 1.0158  
Batch 243/248, train_loss: 0.5124, step time: 1.0166  
Batch 244/248, train_loss: 0.4297, step time: 1.0180  
Batch 245/248, train_loss: 0.0604, step time: 1.0113  
Batch 246/248, train_loss: 0.4991, step time: 1.0163  
Batch 247/248, train_loss: 0.0736, step time: 1.0127  
Batch 248/248, train_loss: 0.9999, step time: 1.0054
```

Labels



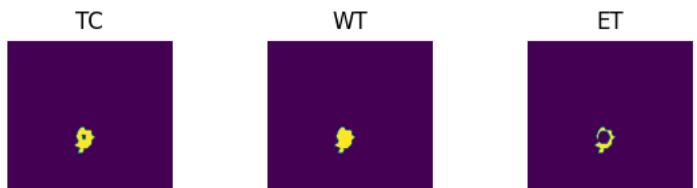
Predictions



VAL

```
Batch 1/31, val_loss: 0.8997  
Batch 2/31, val_loss: 0.9909  
Batch 3/31, val_loss: 0.9596  
Batch 4/31, val_loss: 0.9367  
Batch 5/31, val_loss: 0.9952  
Batch 6/31, val_loss: 0.6892  
Batch 7/31, val_loss: 0.8263  
Batch 8/31, val_loss: 0.9550  
Batch 9/31, val_loss: 0.6863  
Batch 10/31, val_loss: 0.9013  
Batch 11/31, val_loss: 0.8226  
Batch 12/31, val_loss: 0.9752  
Batch 13/31, val_loss: 0.9853  
Batch 14/31, val_loss: 0.9450  
Batch 15/31, val_loss: 0.9961  
Batch 16/31, val_loss: 0.9721  
Batch 17/31, val_loss: 0.9713  
Batch 18/31, val_loss: 0.9367  
Batch 19/31, val_loss: 0.7373  
Batch 20/31, val_loss: 0.8890  
Batch 21/31, val_loss: 0.8590  
Batch 22/31, val_loss: 0.9686  
Batch 23/31, val_loss: 0.9830  
Batch 24/31, val_loss: 0.7457  
Batch 25/31, val_loss: 0.7973  
Batch 26/31, val_loss: 0.9144  
Batch 27/31, val_loss: 0.9745  
Batch 28/31, val_loss: 0.7435  
Batch 29/31, val_loss: 0.9802  
Batch 30/31, val_loss: 0.9566  
Batch 31/31, val_loss: 0.9818
```

Labels



Predictions



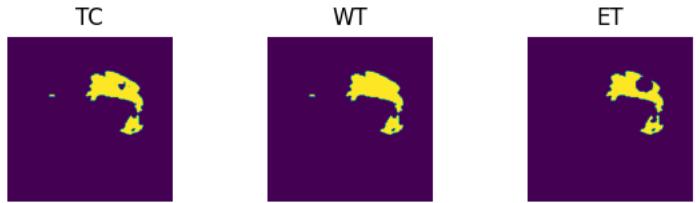
```
epoch 88
    average train loss: 0.2547
    average validation loss: 0.9024
    saved as best model: False
    current mean dice: 0.5128
    current TC dice: 0.5325
    current WT dice: 0.5397
    current ET dice: 0.5090
Best Mean Metric: 0.5258
time consuming of epoch 88 is: 1556.1086
-----
epoch 89/100
TRAIN
    Batch 1/248, train_loss: 0.0774, step time: 1.0160
    Batch 2/248, train_loss: 0.6447, step time: 1.0192
    Batch 3/248, train_loss: 0.3081, step time: 1.0139
    Batch 4/248, train_loss: 0.8830, step time: 1.0168
    Batch 5/248, train_loss: 0.1988, step time: 1.0121
    Batch 6/248, train_loss: 0.5956, step time: 1.0176
    Batch 7/248, train_loss: 0.0548, step time: 1.0136
    Batch 8/248, train_loss: 0.7129, step time: 1.0143
    Batch 9/248, train_loss: 0.0475, step time: 1.0176
    Batch 10/248, train_loss: 0.2038, step time: 1.0172
    Batch 11/248, train_loss: 0.1462, step time: 1.0191
    Batch 12/248, train_loss: 0.3339, step time: 1.0209
    Batch 13/248, train_loss: 0.2707, step time: 1.0174
    Batch 14/248, train_loss: 0.0545, step time: 1.0122
    Batch 15/248, train_loss: 0.3044, step time: 1.0157
    Batch 16/248, train_loss: 0.1383, step time: 1.0159
    Batch 17/248, train_loss: 0.2021, step time: 1.0185
    Batch 18/248, train_loss: 0.3815, step time: 1.0177
    Batch 19/248, train_loss: 0.1075, step time: 1.0123
    Batch 20/248, train_loss: 0.1946, step time: 1.0143
    Batch 21/248, train_loss: 0.0553, step time: 1.0156
    Batch 22/248, train_loss: 0.4012, step time: 1.0186
    Batch 23/248, train_loss: 0.9977, step time: 1.0095
    Batch 24/248, train_loss: 0.0774, step time: 1.0144
    Batch 25/248, train_loss: 0.0715, step time: 1.0131
    Batch 26/248, train_loss: 0.3421, step time: 1.0187
    Batch 27/248, train_loss: 0.0816, step time: 1.0167
    Batch 28/248, train_loss: 0.1576, step time: 1.0185
    Batch 29/248, train_loss: 0.3794, step time: 1.0181
    Batch 30/248, train_loss: 0.2258, step time: 1.0188
    Batch 31/248, train_loss: 0.2816, step time: 1.0183
    Batch 32/248, train_loss: 0.0686, step time: 1.0141
    Batch 33/248, train_loss: 0.0872, step time: 1.0148
    Batch 34/248, train_loss: 0.0461, step time: 1.0137
    Batch 35/248, train_loss: 0.0444, step time: 1.0138
    Batch 36/248, train_loss: 0.3627, step time: 1.0147
    Batch 37/248, train_loss: 0.1809, step time: 1.0153
    Batch 38/248, train_loss: 0.2631, step time: 1.0166
    Batch 39/248, train_loss: 0.1497, step time: 1.0129
    Batch 40/248, train_loss: 0.5026, step time: 1.0177
    Batch 41/248, train_loss: 0.3842, step time: 1.0137
    Batch 42/248, train_loss: 0.0666, step time: 1.0110
    Batch 43/248, train_loss: 0.0528, step time: 1.0114
    Batch 44/248, train_loss: 0.5048, step time: 1.0179
    Batch 45/248, train_loss: 0.3447, step time: 1.0176
    Batch 46/248, train_loss: 0.1522, step time: 1.0177
    Batch 47/248, train_loss: 0.0720, step time: 1.0185
    Batch 48/248, train_loss: 0.1942, step time: 1.0240
    Batch 49/248, train_loss: 0.4675, step time: 1.0176
    Batch 50/248, train_loss: 0.1371, step time: 1.0162
    Batch 51/248, train_loss: 0.1258, step time: 1.0174
    Batch 52/248, train_loss: 0.0916, step time: 1.0205
    Batch 53/248, train_loss: 0.3795, step time: 1.0170
    Batch 54/248, train_loss: 0.2313, step time: 1.0162
    Batch 55/248, train_loss: 0.3384, step time: 1.0188
    Batch 56/248, train_loss: 0.2105, step time: 1.0183
    Batch 57/248, train_loss: 0.2328, step time: 1.0151
    Batch 58/248, train_loss: 0.0652, step time: 1.0138
    Batch 59/248, train_loss: 0.0814, step time: 1.0120
    Batch 60/248, train_loss: 0.0561, step time: 1.0156
    Batch 61/248, train_loss: 0.0975, step time: 1.0152
    Batch 62/248, train_loss: 0.1994, step time: 1.0176
    Batch 63/248, train_loss: 0.4809, step time: 1.0170
    Batch 64/248, train_loss: 0.3436, step time: 1.0162
    Batch 65/248, train_loss: 0.2648, step time: 1.0158
    Batch 66/248, train_loss: 0.1253, step time: 1.0148
    Batch 67/248, train_loss: 0.0642, step time: 1.0127
    Batch 68/248, train_loss: 0.1284, step time: 1.0164
    Batch 69/248, train_loss: 0.3424, step time: 1.0193
```

Batch 70/248, train\_loss: 0.1390, step time: 1.0166  
Batch 71/248, train\_loss: 0.1221, step time: 1.0134  
Batch 72/248, train\_loss: 0.0566, step time: 1.0143  
Batch 73/248, train\_loss: 0.3233, step time: 1.0168  
Batch 74/248, train\_loss: 0.9973, step time: 1.0142  
Batch 75/248, train\_loss: 0.1217, step time: 1.0158  
Batch 76/248, train\_loss: 0.5098, step time: 1.0197  
Batch 77/248, train\_loss: 0.7612, step time: 1.0234  
Batch 78/248, train\_loss: 0.1106, step time: 1.0157  
Batch 79/248, train\_loss: 0.1292, step time: 1.0152  
Batch 80/248, train\_loss: 0.1768, step time: 1.0181  
Batch 81/248, train\_loss: 0.1899, step time: 1.0178  
Batch 82/248, train\_loss: 0.0749, step time: 1.0156  
Batch 83/248, train\_loss: 0.4856, step time: 1.0171  
Batch 84/248, train\_loss: 0.2576, step time: 1.0166  
Batch 85/248, train\_loss: 0.3625, step time: 1.0192  
Batch 86/248, train\_loss: 0.3117, step time: 1.0155  
Batch 87/248, train\_loss: 0.3681, step time: 1.0169  
Batch 88/248, train\_loss: 0.2845, step time: 1.0133  
Batch 89/248, train\_loss: 0.0982, step time: 1.0121  
Batch 90/248, train\_loss: 0.2995, step time: 1.0167  
Batch 91/248, train\_loss: 0.3058, step time: 1.0161  
Batch 92/248, train\_loss: 0.2924, step time: 1.0181  
Batch 93/248, train\_loss: 0.1472, step time: 1.0137  
Batch 94/248, train\_loss: 0.3171, step time: 1.0206  
Batch 95/248, train\_loss: 0.1779, step time: 1.0190  
Batch 96/248, train\_loss: 0.1132, step time: 1.0169  
Batch 97/248, train\_loss: 0.3483, step time: 1.0217  
Batch 98/248, train\_loss: 0.1013, step time: 1.0160  
Batch 99/248, train\_loss: 0.2608, step time: 1.0168  
Batch 100/248, train\_loss: 0.2246, step time: 1.0169  
Batch 101/248, train\_loss: 0.0569, step time: 1.0156  
Batch 102/248, train\_loss: 0.0907, step time: 1.0172  
Batch 103/248, train\_loss: 0.6261, step time: 0.9790  
Batch 104/248, train\_loss: 0.2771, step time: 1.0155  
Batch 105/248, train\_loss: 0.0714, step time: 1.0150  
Batch 106/248, train\_loss: 0.0909, step time: 1.0134  
Batch 107/248, train\_loss: 0.2240, step time: 1.0188  
Batch 108/248, train\_loss: 0.3769, step time: 1.0200  
Batch 109/248, train\_loss: 0.6329, step time: 1.0197  
Batch 110/248, train\_loss: 0.2115, step time: 1.0174  
Batch 111/248, train\_loss: 0.0836, step time: 1.0147  
Batch 112/248, train\_loss: 0.1417, step time: 1.0174  
Batch 113/248, train\_loss: 0.9265, step time: 1.0173  
Batch 114/248, train\_loss: 0.1495, step time: 1.0175  
Batch 115/248, train\_loss: 0.1352, step time: 1.0145  
Batch 116/248, train\_loss: 0.0772, step time: 1.0150  
Batch 117/248, train\_loss: 0.5406, step time: 1.0194  
Batch 118/248, train\_loss: 0.4374, step time: 1.0170  
Batch 119/248, train\_loss: 0.3989, step time: 1.0160  
Batch 120/248, train\_loss: 0.2526, step time: 1.0173  
Batch 121/248, train\_loss: 0.2498, step time: 1.0171  
Batch 122/248, train\_loss: 0.3730, step time: 1.0171  
Batch 123/248, train\_loss: 0.0780, step time: 1.0188  
Batch 124/248, train\_loss: 0.2546, step time: 1.0187  
Batch 125/248, train\_loss: 0.4362, step time: 1.0164  
Batch 126/248, train\_loss: 0.2161, step time: 1.0156  
Batch 127/248, train\_loss: 0.1224, step time: 1.0156  
Batch 128/248, train\_loss: 0.3187, step time: 1.0188  
Batch 129/248, train\_loss: 0.0954, step time: 1.0144  
Batch 130/248, train\_loss: 0.0959, step time: 1.0142  
Batch 131/248, train\_loss: 0.4112, step time: 1.0177  
Batch 132/248, train\_loss: 0.3557, step time: 1.0135  
Batch 133/248, train\_loss: 0.1345, step time: 1.0149  
Batch 134/248, train\_loss: 0.7029, step time: 1.0174  
Batch 135/248, train\_loss: 0.2770, step time: 1.0174  
Batch 136/248, train\_loss: 0.0954, step time: 1.0189  
Batch 137/248, train\_loss: 0.1034, step time: 1.0141  
Batch 138/248, train\_loss: 0.0648, step time: 1.0136  
Batch 139/248, train\_loss: 0.1942, step time: 1.0179  
Batch 140/248, train\_loss: 0.1322, step time: 1.0156  
Batch 141/248, train\_loss: 0.1679, step time: 1.0143  
Batch 142/248, train\_loss: 0.4326, step time: 1.0163  
Batch 143/248, train\_loss: 0.1867, step time: 1.0155  
Batch 144/248, train\_loss: 0.1203, step time: 1.0112  
Batch 145/248, train\_loss: 0.1133, step time: 1.0140  
Batch 146/248, train\_loss: 0.4230, step time: 1.0183  
Batch 147/248, train\_loss: 0.0410, step time: 1.0140  
Batch 148/248, train\_loss: 0.5088, step time: 1.0192  
Batch 149/248, train\_loss: 0.1156, step time: 1.0167  
Batch 150/248, train\_loss: 0.6325, step time: 1.0167  
Batch 151/248, train\_loss: 0.2669, step time: 1.0190  
Batch 152/248, train\_loss: 0.0409, step time: 1.0141  
Batch 153/248, train\_loss: 0.1737, step time: 1.0160  
Batch 154/248, train\_loss: 0.4924, step time: 1.0181

Batch 155/248, train\_loss: 0.1046, step time: 1.0183  
Batch 156/248, train\_loss: 0.1605, step time: 1.0169  
Batch 157/248, train\_loss: 0.2160, step time: 1.0196  
Batch 158/248, train\_loss: 0.9645, step time: 1.0143  
Batch 159/248, train\_loss: 0.3427, step time: 1.0174  
Batch 160/248, train\_loss: 0.0815, step time: 1.0156  
Batch 161/248, train\_loss: 0.0805, step time: 1.0182  
Batch 162/248, train\_loss: 0.0762, step time: 1.0161  
Batch 163/248, train\_loss: 0.0960, step time: 1.0155  
Batch 164/248, train\_loss: 0.1794, step time: 1.0172  
Batch 165/248, train\_loss: 0.4759, step time: 1.0171  
Batch 166/248, train\_loss: 0.0918, step time: 1.0155  
Batch 167/248, train\_loss: 0.2000, step time: 1.0158  
Batch 168/248, train\_loss: 0.1379, step time: 1.0126  
Batch 169/248, train\_loss: 0.1049, step time: 1.0127  
Batch 170/248, train\_loss: 0.6095, step time: 1.0200  
Batch 171/248, train\_loss: 0.0818, step time: 1.0115  
Batch 172/248, train\_loss: 0.2822, step time: 1.0170  
Batch 173/248, train\_loss: 0.0836, step time: 1.0154  
Batch 174/248, train\_loss: 0.3653, step time: 1.0171  
Batch 175/248, train\_loss: 0.1392, step time: 1.0169  
Batch 176/248, train\_loss: 0.3127, step time: 1.0170  
Batch 177/248, train\_loss: 0.2420, step time: 1.0247  
Batch 178/248, train\_loss: 0.2362, step time: 1.0184  
Batch 179/248, train\_loss: 0.0727, step time: 1.0158  
Batch 180/248, train\_loss: 0.1642, step time: 1.0173  
Batch 181/248, train\_loss: 0.1024, step time: 1.0143  
Batch 182/248, train\_loss: 0.9319, step time: 1.0152  
Batch 183/248, train\_loss: 0.1830, step time: 1.0156  
Batch 184/248, train\_loss: 0.2972, step time: 1.0192  
Batch 185/248, train\_loss: 0.1021, step time: 1.0160  
Batch 186/248, train\_loss: 0.0941, step time: 1.0143  
Batch 187/248, train\_loss: 0.1571, step time: 1.0134  
Batch 188/248, train\_loss: 0.2919, step time: 1.0157  
Batch 189/248, train\_loss: 0.4071, step time: 1.0207  
Batch 190/248, train\_loss: 0.1251, step time: 1.0145  
Batch 191/248, train\_loss: 0.5574, step time: 1.0187  
Batch 192/248, train\_loss: 0.2379, step time: 1.0156  
Batch 193/248, train\_loss: 0.2707, step time: 1.0157  
Batch 194/248, train\_loss: 0.0731, step time: 1.0143  
Batch 195/248, train\_loss: 0.6144, step time: 1.0161  
Batch 196/248, train\_loss: 0.9145, step time: 1.0167  
Batch 197/248, train\_loss: 0.1620, step time: 1.0203  
Batch 198/248, train\_loss: 0.4344, step time: 1.0159  
Batch 199/248, train\_loss: 0.2053, step time: 1.0174  
Batch 200/248, train\_loss: 0.1203, step time: 1.0130  
Batch 201/248, train\_loss: 0.1156, step time: 1.0139  
Batch 202/248, train\_loss: 0.3190, step time: 1.0152  
Batch 203/248, train\_loss: 0.4573, step time: 1.0175  
Batch 204/248, train\_loss: 0.0733, step time: 1.0154  
Batch 205/248, train\_loss: 0.2126, step time: 1.0153  
Batch 206/248, train\_loss: 0.2710, step time: 1.0158  
Batch 207/248, train\_loss: 0.0811, step time: 1.0175  
Batch 208/248, train\_loss: 0.1318, step time: 1.0161  
Batch 209/248, train\_loss: 0.1522, step time: 1.0143  
Batch 210/248, train\_loss: 0.0555, step time: 1.0162  
Batch 211/248, train\_loss: 0.0662, step time: 1.0121  
Batch 212/248, train\_loss: 0.1891, step time: 1.0203  
Batch 213/248, train\_loss: 0.1745, step time: 1.0171  
Batch 214/248, train\_loss: 0.0666, step time: 1.0145  
Batch 215/248, train\_loss: 0.1512, step time: 1.0169  
Batch 216/248, train\_loss: 0.1769, step time: 1.0169  
Batch 217/248, train\_loss: 0.2354, step time: 1.0180  
Batch 218/248, train\_loss: 0.8146, step time: 1.0182  
Batch 219/248, train\_loss: 0.0637, step time: 1.0185  
Batch 220/248, train\_loss: 0.1797, step time: 1.0201  
Batch 221/248, train\_loss: 0.2234, step time: 1.0191  
Batch 222/248, train\_loss: 0.1889, step time: 1.0172  
Batch 223/248, train\_loss: 0.0404, step time: 1.0128  
Batch 224/248, train\_loss: 0.0817, step time: 1.0160  
Batch 225/248, train\_loss: 0.1491, step time: 1.0167  
Batch 226/248, train\_loss: 0.1626, step time: 1.0138  
Batch 227/248, train\_loss: 0.0811, step time: 1.0136  
Batch 228/248, train\_loss: 0.1246, step time: 1.0116  
Batch 229/248, train\_loss: 0.1012, step time: 1.0134  
Batch 230/248, train\_loss: 0.0652, step time: 1.0174  
Batch 231/248, train\_loss: 0.2689, step time: 1.0164  
Batch 232/248, train\_loss: 0.0915, step time: 1.0156  
Batch 233/248, train\_loss: 0.7424, step time: 1.0180  
Batch 234/248, train\_loss: 0.3794, step time: 1.0180  
Batch 235/248, train\_loss: 0.4471, step time: 1.0185  
Batch 236/248, train\_loss: 0.7643, step time: 1.0156  
Batch 237/248, train\_loss: 0.0964, step time: 1.0178  
Batch 238/248, train\_loss: 0.0824, step time: 1.0129  
Batch 239/248, train\_loss: 0.2651, step time: 1.0159

```
Batch 239/248, train_loss: 0.3054, step time: 1.0177
Batch 240/248, train_loss: 0.3369, step time: 1.0177
Batch 241/248, train_loss: 0.3788, step time: 1.0184
Batch 242/248, train_loss: 0.1291, step time: 1.0191
Batch 243/248, train_loss: 0.4721, step time: 1.0167
Batch 244/248, train_loss: 0.4005, step time: 1.0182
Batch 245/248, train_loss: 0.0573, step time: 1.0126
Batch 246/248, train_loss: 0.3857, step time: 1.0186
Batch 247/248, train_loss: 0.0702, step time: 1.0127
Batch 248/248, train_loss: 0.9998, step time: 1.0088
```

Labels



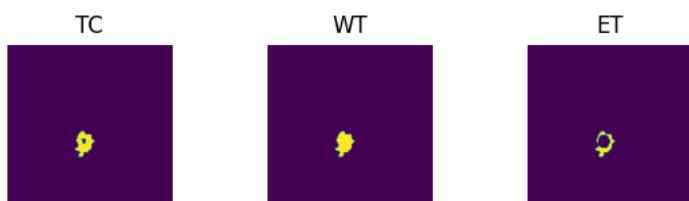
Predictions



VAL

```
Batch 1/31, val_loss: 0.9043
Batch 2/31, val_loss: 0.9890
Batch 3/31, val_loss: 0.9600
Batch 4/31, val_loss: 0.9382
Batch 5/31, val_loss: 0.9955
Batch 6/31, val_loss: 0.6855
Batch 7/31, val_loss: 0.8271
Batch 8/31, val_loss: 0.9649
Batch 9/31, val_loss: 0.6870
Batch 10/31, val_loss: 0.8987
Batch 11/31, val_loss: 0.8194
Batch 12/31, val_loss: 0.9747
Batch 13/31, val_loss: 0.9868
Batch 14/31, val_loss: 0.9472
Batch 15/31, val_loss: 0.9957
Batch 16/31, val_loss: 0.9721
Batch 17/31, val_loss: 0.9723
Batch 18/31, val_loss: 0.9350
Batch 19/31, val_loss: 0.7366
Batch 20/31, val_loss: 0.8710
Batch 21/31, val_loss: 0.8589
Batch 22/31, val_loss: 0.9708
Batch 23/31, val_loss: 0.9818
Batch 24/31, val_loss: 0.7452
Batch 25/31, val_loss: 0.7974
Batch 26/31, val_loss: 0.9160
Batch 27/31, val_loss: 0.9752
Batch 28/31, val_loss: 0.7455
Batch 29/31, val_loss: 0.9799
Batch 30/31, val_loss: 0.9564
Batch 31/31, val_loss: 0.9868
```

Labels



Predictions





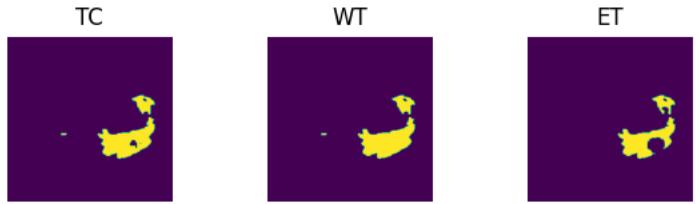
```
epoch 89
average train loss: 0.2545
average validation loss: 0.9024
saved as best model: False
current mean dice: 0.5197
current TC dice: 0.5388
current WT dice: 0.5464
current ET dice: 0.5176
Best Mean Metric: 0.5258
time consuming of epoch 89 is: 1555.6738
-----
epoch 90/100
TRAIN
Batch 1/248, train_loss: 0.0785, step time: 1.0197
Batch 2/248, train_loss: 0.5983, step time: 1.0194
Batch 3/248, train_loss: 0.2881, step time: 1.0179
Batch 4/248, train_loss: 0.9265, step time: 1.0203
Batch 5/248, train_loss: 0.1734, step time: 1.0128
Batch 6/248, train_loss: 0.4294, step time: 1.0166
Batch 7/248, train_loss: 0.0679, step time: 1.0161
Batch 8/248, train_loss: 0.7237, step time: 1.0173
Batch 9/248, train_loss: 0.0485, step time: 1.0144
Batch 10/248, train_loss: 0.2041, step time: 1.0156
Batch 11/248, train_loss: 0.1370, step time: 1.0168
Batch 12/248, train_loss: 0.3263, step time: 1.0193
Batch 13/248, train_loss: 0.2875, step time: 1.0185
Batch 14/248, train_loss: 0.0617, step time: 1.0155
Batch 15/248, train_loss: 0.2833, step time: 1.0155
Batch 16/248, train_loss: 0.1302, step time: 1.0143
Batch 17/248, train_loss: 0.2358, step time: 1.0185
Batch 18/248, train_loss: 0.3092, step time: 1.0148
Batch 19/248, train_loss: 0.1074, step time: 1.0146
Batch 20/248, train_loss: 0.1407, step time: 1.0166
Batch 21/248, train_loss: 0.0615, step time: 1.0126
Batch 22/248, train_loss: 0.2829, step time: 1.0185
Batch 23/248, train_loss: 0.9987, step time: 1.0110
Batch 24/248, train_loss: 0.0747, step time: 1.0138
Batch 25/248, train_loss: 0.0553, step time: 1.0147
Batch 26/248, train_loss: 0.3162, step time: 1.0194
Batch 27/248, train_loss: 0.0679, step time: 1.0161
Batch 28/248, train_loss: 0.1364, step time: 1.0165
Batch 29/248, train_loss: 0.3397, step time: 1.0199
Batch 30/248, train_loss: 0.4586, step time: 1.0268
Batch 31/248, train_loss: 0.2516, step time: 1.0166
Batch 32/248, train_loss: 0.0705, step time: 1.0137
Batch 33/248, train_loss: 0.0629, step time: 1.0149
Batch 34/248, train_loss: 0.0443, step time: 1.0142
Batch 35/248, train_loss: 0.0423, step time: 1.0153
Batch 36/248, train_loss: 0.3749, step time: 1.0172
Batch 37/248, train_loss: 0.1508, step time: 1.0138
Batch 38/248, train_loss: 0.2605, step time: 1.0174
Batch 39/248, train_loss: 0.1927, step time: 1.0151
Batch 40/248, train_loss: 0.4689, step time: 1.0151
Batch 41/248, train_loss: 0.2131, step time: 1.0151
Batch 42/248, train_loss: 0.0609, step time: 1.0155
Batch 43/248, train_loss: 0.0532, step time: 1.0148
Batch 44/248, train_loss: 0.2881, step time: 1.0175
Batch 45/248, train_loss: 0.3548, step time: 1.0206
Batch 46/248, train_loss: 0.1676, step time: 1.0174
Batch 47/248, train_loss: 0.0648, step time: 1.0155
Batch 48/248, train_loss: 0.2255, step time: 1.0173
Batch 49/248, train_loss: 0.4494, step time: 1.0164
Batch 50/248, train_loss: 0.1160, step time: 1.0164
Batch 51/248, train_loss: 0.1056, step time: 1.0184
Batch 52/248, train_loss: 0.0900, step time: 1.0103
Batch 53/248, train_loss: 0.3556, step time: 1.0174
Batch 54/248, train_loss: 0.2108, step time: 1.0158
Batch 55/248, train_loss: 0.2236, step time: 1.0152
Batch 56/248, train_loss: 0.1864, step time: 1.0180
Batch 57/248, train_loss: 0.2375, step time: 1.0139
Batch 58/248, train_loss: 0.0733, step time: 1.0146
Batch 59/248, train_loss: 0.0910, step time: 1.0087
Batch 60/248, train_loss: 0.0457, step time: 1.0100
Batch 61/248, train_loss: 0.0904, step time: 1.0148
Batch 62/248, train_loss: 0.1982, step time: 1.0150
Batch 63/248, train_loss: 0.5154, step time: 1.0153
Batch 64/248, train_loss: 0.2737, step time: 1.0142
Batch 65/248, train_loss: 0.2579, step time: 1.0175
Batch 66/248, train_loss: 0.0989, step time: 1.0158
Batch 67/248, train_loss: 0.0742, step time: 1.0231
Batch 68/248, train_loss: 0.1371, step time: 1.0166
Batch 69/248, train_loss: 0.2829, step time: 1.0194
```

Batch 69/248, train\_loss: 0.2029, step time: 1.0151  
Batch 70/248, train\_loss: 0.1362, step time: 1.0151  
Batch 71/248, train\_loss: 0.1709, step time: 1.0182  
Batch 72/248, train\_loss: 0.0551, step time: 1.0134  
Batch 73/248, train\_loss: 0.5858, step time: 1.0173  
Batch 74/248, train\_loss: 0.9957, step time: 1.0097  
Batch 75/248, train\_loss: 0.1084, step time: 1.0153  
Batch 76/248, train\_loss: 0.5420, step time: 1.0218  
Batch 77/248, train\_loss: 0.7328, step time: 1.0148  
Batch 78/248, train\_loss: 0.1315, step time: 1.0177  
Batch 79/248, train\_loss: 0.1293, step time: 1.0157  
Batch 80/248, train\_loss: 0.1864, step time: 1.0183  
Batch 81/248, train\_loss: 0.2316, step time: 1.0213  
Batch 82/248, train\_loss: 0.0872, step time: 1.0192  
Batch 83/248, train\_loss: 0.5580, step time: 1.0203  
Batch 84/248, train\_loss: 0.2232, step time: 1.0182  
Batch 85/248, train\_loss: 0.3073, step time: 1.0181  
Batch 86/248, train\_loss: 0.3817, step time: 1.0157  
Batch 87/248, train\_loss: 0.4787, step time: 1.0174  
Batch 88/248, train\_loss: 0.2801, step time: 1.0164  
Batch 89/248, train\_loss: 0.0908, step time: 1.0143  
Batch 90/248, train\_loss: 0.2146, step time: 1.0143  
Batch 91/248, train\_loss: 0.2773, step time: 1.0157  
Batch 92/248, train\_loss: 0.2552, step time: 1.0170  
Batch 93/248, train\_loss: 0.1397, step time: 1.0170  
Batch 94/248, train\_loss: 0.2449, step time: 1.0198  
Batch 95/248, train\_loss: 0.1701, step time: 1.0165  
Batch 96/248, train\_loss: 0.1447, step time: 1.0165  
Batch 97/248, train\_loss: 0.3379, step time: 1.0178  
Batch 98/248, train\_loss: 0.0965, step time: 1.0172  
Batch 99/248, train\_loss: 0.2863, step time: 1.0188  
Batch 100/248, train\_loss: 0.2055, step time: 1.0167  
Batch 101/248, train\_loss: 0.0550, step time: 1.0130  
Batch 102/248, train\_loss: 0.1480, step time: 1.0169  
Batch 103/248, train\_loss: 0.3416, step time: 1.0186  
Batch 104/248, train\_loss: 0.2865, step time: 1.0175  
Batch 105/248, train\_loss: 0.0731, step time: 1.0166  
Batch 106/248, train\_loss: 0.1064, step time: 1.0182  
Batch 107/248, train\_loss: 0.1824, step time: 1.0138  
Batch 108/248, train\_loss: 0.4010, step time: 1.0174  
Batch 109/248, train\_loss: 0.8127, step time: 1.0188  
Batch 110/248, train\_loss: 0.2609, step time: 1.0196  
Batch 111/248, train\_loss: 0.0942, step time: 1.0146  
Batch 112/248, train\_loss: 0.1067, step time: 1.0148  
Batch 113/248, train\_loss: 0.7891, step time: 1.0184  
Batch 114/248, train\_loss: 0.1381, step time: 1.0145  
Batch 115/248, train\_loss: 0.1537, step time: 1.0194  
Batch 116/248, train\_loss: 0.0595, step time: 1.0135  
Batch 117/248, train\_loss: 0.4829, step time: 1.0179  
Batch 118/248, train\_loss: 0.3531, step time: 1.0180  
Batch 119/248, train\_loss: 0.3046, step time: 1.0175  
Batch 120/248, train\_loss: 0.2150, step time: 1.0152  
Batch 121/248, train\_loss: 0.2433, step time: 1.0153  
Batch 122/248, train\_loss: 0.3245, step time: 1.0153  
Batch 123/248, train\_loss: 0.0703, step time: 1.0157  
Batch 124/248, train\_loss: 0.2220, step time: 1.0177  
Batch 125/248, train\_loss: 0.4456, step time: 1.0217  
Batch 126/248, train\_loss: 0.2628, step time: 1.0162  
Batch 127/248, train\_loss: 0.1087, step time: 1.0190  
Batch 128/248, train\_loss: 0.1742, step time: 1.0210  
Batch 129/248, train\_loss: 0.1033, step time: 1.0150  
Batch 130/248, train\_loss: 0.1012, step time: 1.0151  
Batch 131/248, train\_loss: 0.5823, step time: 1.0170  
Batch 132/248, train\_loss: 0.2129, step time: 1.0163  
Batch 133/248, train\_loss: 0.1205, step time: 1.0139  
Batch 134/248, train\_loss: 0.5454, step time: 1.0177  
Batch 135/248, train\_loss: 0.1906, step time: 1.0170  
Batch 136/248, train\_loss: 0.1293, step time: 1.0157  
Batch 137/248, train\_loss: 0.1017, step time: 1.0112  
Batch 138/248, train\_loss: 0.0722, step time: 1.0158  
Batch 139/248, train\_loss: 0.2027, step time: 1.0156  
Batch 140/248, train\_loss: 0.1473, step time: 1.0172  
Batch 141/248, train\_loss: 0.1487, step time: 1.0150  
Batch 142/248, train\_loss: 0.3785, step time: 1.0157  
Batch 143/248, train\_loss: 0.1757, step time: 1.0134  
Batch 144/248, train\_loss: 0.1212, step time: 1.0139  
Batch 145/248, train\_loss: 0.0773, step time: 1.0152  
Batch 146/248, train\_loss: 0.3537, step time: 1.0173  
Batch 147/248, train\_loss: 0.0360, step time: 1.0129  
Batch 148/248, train\_loss: 0.4562, step time: 1.0171  
Batch 149/248, train\_loss: 0.1061, step time: 1.0151  
Batch 150/248, train\_loss: 0.6684, step time: 1.0148  
Batch 151/248, train\_loss: 0.2609, step time: 1.0157  
Batch 152/248, train\_loss: 0.0343, step time: 1.0101  
Batch 153/248, train\_loss: 0.1818, step time: 1.0163  
Total 153/248 train loss: 0.5210 step time: 1.0105

Batch 154/248, train\_loss: 0.5219, step time: 1.0195  
Batch 155/248, train\_loss: 0.1451, step time: 1.0189  
Batch 156/248, train\_loss: 0.1666, step time: 1.0190  
Batch 157/248, train\_loss: 0.1820, step time: 1.0159  
Batch 158/248, train\_loss: 0.9535, step time: 1.0161  
Batch 159/248, train\_loss: 0.2330, step time: 1.0197  
Batch 160/248, train\_loss: 0.0857, step time: 1.0160  
Batch 161/248, train\_loss: 0.0699, step time: 1.0167  
Batch 162/248, train\_loss: 0.0624, step time: 1.0152  
Batch 163/248, train\_loss: 0.0980, step time: 1.0146  
Batch 164/248, train\_loss: 0.1469, step time: 1.0156  
Batch 165/248, train\_loss: 0.2849, step time: 1.0170  
Batch 166/248, train\_loss: 0.0723, step time: 1.0197  
Batch 167/248, train\_loss: 0.1610, step time: 1.0162  
Batch 168/248, train\_loss: 0.1374, step time: 1.0157  
Batch 169/248, train\_loss: 0.0940, step time: 1.0137  
Batch 170/248, train\_loss: 0.6516, step time: 1.0169  
Batch 171/248, train\_loss: 0.0789, step time: 1.0122  
Batch 172/248, train\_loss: 0.3083, step time: 1.0186  
Batch 173/248, train\_loss: 0.0727, step time: 1.0111  
Batch 174/248, train\_loss: 0.8947, step time: 1.0194  
Batch 175/248, train\_loss: 0.1321, step time: 1.0164  
Batch 176/248, train\_loss: 0.3404, step time: 1.0168  
Batch 177/248, train\_loss: 0.1796, step time: 1.0186  
Batch 178/248, train\_loss: 0.2504, step time: 1.0155  
Batch 179/248, train\_loss: 0.0809, step time: 1.0132  
Batch 180/248, train\_loss: 0.1490, step time: 1.0150  
Batch 181/248, train\_loss: 0.1067, step time: 1.0228  
Batch 182/248, train\_loss: 0.9209, step time: 1.0161  
Batch 183/248, train\_loss: 0.1094, step time: 1.0169  
Batch 184/248, train\_loss: 0.2524, step time: 1.0175  
Batch 185/248, train\_loss: 0.0960, step time: 1.0154  
Batch 186/248, train\_loss: 0.0880, step time: 1.0126  
Batch 187/248, train\_loss: 0.1511, step time: 1.0143  
Batch 188/248, train\_loss: 0.2574, step time: 1.0171  
Batch 189/248, train\_loss: 0.3882, step time: 1.0177  
Batch 190/248, train\_loss: 0.1170, step time: 1.0133  
Batch 191/248, train\_loss: 0.5601, step time: 1.0187  
Batch 192/248, train\_loss: 0.2790, step time: 1.0162  
Batch 193/248, train\_loss: 0.2518, step time: 1.0189  
Batch 194/248, train\_loss: 0.0775, step time: 1.0167  
Batch 195/248, train\_loss: 0.5862, step time: 1.0175  
Batch 196/248, train\_loss: 0.7501, step time: 1.0193  
Batch 197/248, train\_loss: 0.1500, step time: 1.0178  
Batch 198/248, train\_loss: 0.4764, step time: 1.0186  
Batch 199/248, train\_loss: 0.1160, step time: 1.0134  
Batch 200/248, train\_loss: 0.1224, step time: 1.0116  
Batch 201/248, train\_loss: 0.1112, step time: 1.0136  
Batch 202/248, train\_loss: 0.3251, step time: 1.0188  
Batch 203/248, train\_loss: 0.4187, step time: 1.0185  
Batch 204/248, train\_loss: 0.0807, step time: 1.0124  
Batch 205/248, train\_loss: 0.2043, step time: 1.0160  
Batch 206/248, train\_loss: 0.2864, step time: 1.0224  
Batch 207/248, train\_loss: 0.0873, step time: 1.0172  
Batch 208/248, train\_loss: 0.1389, step time: 1.0172  
Batch 209/248, train\_loss: 0.1772, step time: 1.0155  
Batch 210/248, train\_loss: 0.0563, step time: 1.0122  
Batch 211/248, train\_loss: 0.0581, step time: 1.0090  
Batch 212/248, train\_loss: 0.2469, step time: 1.0145  
Batch 213/248, train\_loss: 0.1864, step time: 1.0165  
Batch 214/248, train\_loss: 0.0630, step time: 1.0140  
Batch 215/248, train\_loss: 0.1465, step time: 1.0175  
Batch 216/248, train\_loss: 0.1281, step time: 1.0171  
Batch 217/248, train\_loss: 0.2378, step time: 1.0164  
Batch 218/248, train\_loss: 0.7583, step time: 1.0173  
Batch 219/248, train\_loss: 0.0618, step time: 1.0166  
Batch 220/248, train\_loss: 0.1828, step time: 1.0175  
Batch 221/248, train\_loss: 0.2608, step time: 1.0159  
Batch 222/248, train\_loss: 0.1922, step time: 1.0152  
Batch 223/248, train\_loss: 0.0398, step time: 1.0089  
Batch 224/248, train\_loss: 0.0902, step time: 1.0141  
Batch 225/248, train\_loss: 0.1405, step time: 1.0132  
Batch 226/248, train\_loss: 0.0987, step time: 1.0157  
Batch 227/248, train\_loss: 0.0803, step time: 1.0135  
Batch 228/248, train\_loss: 0.1712, step time: 1.0127  
Batch 229/248, train\_loss: 0.0989, step time: 1.0097  
Batch 230/248, train\_loss: 0.0670, step time: 1.0129  
Batch 231/248, train\_loss: 0.2921, step time: 1.0163  
Batch 232/248, train\_loss: 0.0733, step time: 1.0164  
Batch 233/248, train\_loss: 0.7598, step time: 1.0171  
Batch 234/248, train\_loss: 0.4301, step time: 1.0148  
Batch 235/248, train\_loss: 0.2032, step time: 1.0153  
Batch 236/248, train\_loss: 0.6992, step time: 1.0152  
Batch 237/248, train\_loss: 0.0916, step time: 1.0135  
Batch 238/248, train\_loss: 0.0992, step time: 1.0173

```
Batch 239/248, train_loss: 0.0594, step time: 1.0149  
Batch 240/248, train_loss: 0.2657, step time: 1.0160  
Batch 241/248, train_loss: 0.4307, step time: 1.0161  
Batch 242/248, train_loss: 0.1277, step time: 1.0161  
Batch 243/248, train_loss: 0.4477, step time: 1.0142  
Batch 244/248, train_loss: 0.3853, step time: 1.0138  
Batch 245/248, train_loss: 0.0563, step time: 1.0133  
Batch 246/248, train_loss: 0.4984, step time: 1.0194  
Batch 247/248, train_loss: 0.0702, step time: 1.0139  
Batch 248/248, train_loss: 0.9999, step time: 1.0084
```

Labels



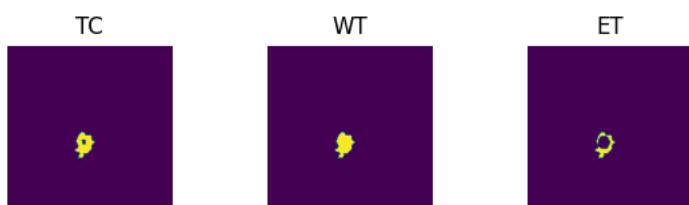
Predictions



VAL

```
Batch 1/31, val_loss: 0.8986  
Batch 2/31, val_loss: 0.9897  
Batch 3/31, val_loss: 0.9580  
Batch 4/31, val_loss: 0.9389  
Batch 5/31, val_loss: 0.9946  
Batch 6/31, val_loss: 0.6935  
Batch 7/31, val_loss: 0.8309  
Batch 8/31, val_loss: 0.9590  
Batch 9/31, val_loss: 0.6876  
Batch 10/31, val_loss: 0.9011  
Batch 11/31, val_loss: 0.8232  
Batch 12/31, val_loss: 0.9741  
Batch 13/31, val_loss: 0.9846  
Batch 14/31, val_loss: 0.9459  
Batch 15/31, val_loss: 0.9934  
Batch 16/31, val_loss: 0.9722  
Batch 17/31, val_loss: 0.9700  
Batch 18/31, val_loss: 0.9362  
Batch 19/31, val_loss: 0.7403  
Batch 20/31, val_loss: 0.8738  
Batch 21/31, val_loss: 0.8566  
Batch 22/31, val_loss: 0.9688  
Batch 23/31, val_loss: 0.9791  
Batch 24/31, val_loss: 0.7363  
Batch 25/31, val_loss: 0.7957  
Batch 26/31, val_loss: 0.9148  
Batch 27/31, val_loss: 0.9720  
Batch 28/31, val_loss: 0.7409  
Batch 29/31, val_loss: 0.9802  
Batch 30/31, val_loss: 0.9535  
Batch 31/31, val_loss: 0.9803
```

Labels



Predictions





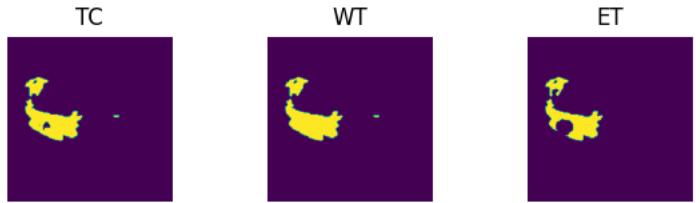
```
epoch 90
    average train loss: 0.2456
    average validation loss: 0.9014
    saved as best model: False
    current mean dice: 0.5202
    current TC dice: 0.5406
    current WT dice: 0.5502
    current ET dice: 0.5130
Best Mean Metric: 0.5258
time consuming of epoch 90 is: 1555.9527
-----
epoch 91/100
TRAIN
Batch 1/248, train_loss: 0.0816, step time: 1.0193
Batch 2/248, train_loss: 0.6451, step time: 1.0214
Batch 3/248, train_loss: 0.2800, step time: 1.0127
Batch 4/248, train_loss: 0.8960, step time: 1.0147
Batch 5/248, train_loss: 0.2005, step time: 1.0157
Batch 6/248, train_loss: 0.4338, step time: 1.0158
Batch 7/248, train_loss: 0.0613, step time: 1.0150
Batch 8/248, train_loss: 0.7084, step time: 1.0161
Batch 9/248, train_loss: 0.0449, step time: 1.0157
Batch 10/248, train_loss: 0.2124, step time: 1.0170
Batch 11/248, train_loss: 0.1395, step time: 1.0176
Batch 12/248, train_loss: 0.3361, step time: 1.0196
Batch 13/248, train_loss: 0.2838, step time: 1.0197
Batch 14/248, train_loss: 0.0568, step time: 1.0159
Batch 15/248, train_loss: 0.2788, step time: 1.0177
Batch 16/248, train_loss: 0.1473, step time: 1.0176
Batch 17/248, train_loss: 0.2512, step time: 1.0171
Batch 18/248, train_loss: 0.3641, step time: 1.0168
Batch 19/248, train_loss: 0.1556, step time: 1.0142
Batch 20/248, train_loss: 0.1366, step time: 1.0142
Batch 21/248, train_loss: 0.0662, step time: 1.0120
Batch 22/248, train_loss: 0.6694, step time: 0.9796
Batch 23/248, train_loss: 0.9960, step time: 1.0155
Batch 24/248, train_loss: 0.0765, step time: 1.0127
Batch 25/248, train_loss: 0.0532, step time: 1.0132
Batch 26/248, train_loss: 0.3239, step time: 1.0156
Batch 27/248, train_loss: 0.0708, step time: 1.0149
Batch 28/248, train_loss: 0.1420, step time: 1.0163
Batch 29/248, train_loss: 0.2816, step time: 1.0233
Batch 30/248, train_loss: 0.2022, step time: 1.0179
Batch 31/248, train_loss: 0.2457, step time: 1.0144
Batch 32/248, train_loss: 0.0701, step time: 1.0184
Batch 33/248, train_loss: 0.0664, step time: 1.0165
Batch 34/248, train_loss: 0.0432, step time: 1.0128
Batch 35/248, train_loss: 0.0440, step time: 1.0147
Batch 36/248, train_loss: 0.3512, step time: 1.0162
Batch 37/248, train_loss: 0.1562, step time: 1.0138
Batch 38/248, train_loss: 0.2352, step time: 1.0127
Batch 39/248, train_loss: 0.0965, step time: 1.0110
Batch 40/248, train_loss: 0.4783, step time: 1.0178
Batch 41/248, train_loss: 0.1964, step time: 1.0149
Batch 42/248, train_loss: 0.0619, step time: 1.0141
Batch 43/248, train_loss: 0.0445, step time: 1.0171
Batch 44/248, train_loss: 0.2614, step time: 1.0149
Batch 45/248, train_loss: 0.3579, step time: 1.0140
Batch 46/248, train_loss: 0.1841, step time: 1.0169
Batch 47/248, train_loss: 0.0614, step time: 1.0126
Batch 48/248, train_loss: 0.2273, step time: 1.0173
Batch 49/248, train_loss: 0.4819, step time: 1.0180
Batch 50/248, train_loss: 0.1265, step time: 1.0153
Batch 51/248, train_loss: 0.0978, step time: 1.0136
Batch 52/248, train_loss: 0.0898, step time: 1.0138
Batch 53/248, train_loss: 0.3685, step time: 1.0183
Batch 54/248, train_loss: 0.2189, step time: 1.0226
Batch 55/248, train_loss: 0.2089, step time: 1.0153
Batch 56/248, train_loss: 0.1892, step time: 1.0149
Batch 57/248, train_loss: 0.2702, step time: 1.0142
Batch 58/248, train_loss: 0.0766, step time: 1.0112
Batch 59/248, train_loss: 0.0990, step time: 1.0099
Batch 60/248, train_loss: 0.0443, step time: 1.0120
Batch 61/248, train_loss: 0.0739, step time: 1.0119
Batch 62/248, train_loss: 0.1932, step time: 1.0168
Batch 63/248, train_loss: 0.4712, step time: 1.0156
Batch 64/248, train_loss: 0.2877, step time: 1.0157
Batch 65/248, train_loss: 0.2570, step time: 1.0159
Batch 66/248, train_loss: 0.1135, step time: 1.0162
Batch 67/248, train_loss: 0.0641, step time: 1.0143
Batch 68/248, train_loss: 0.1374, step time: 1.0140
-----
```

Batch 69/248, train\_loss: 0.2638, step time: 1.0197  
Batch 70/248, train\_loss: 0.1356, step time: 1.0149  
Batch 71/248, train\_loss: 0.1494, step time: 1.0141  
Batch 72/248, train\_loss: 0.0617, step time: 1.0156  
Batch 73/248, train\_loss: 0.3366, step time: 1.0159  
Batch 74/248, train\_loss: 0.9970, step time: 1.0112  
Batch 75/248, train\_loss: 0.1194, step time: 1.0132  
Batch 76/248, train\_loss: 0.5623, step time: 1.0174  
Batch 77/248, train\_loss: 0.7484, step time: 1.0144  
Batch 78/248, train\_loss: 0.1061, step time: 1.0154  
Batch 79/248, train\_loss: 0.1146, step time: 1.0159  
Batch 80/248, train\_loss: 0.1795, step time: 1.0155  
Batch 81/248, train\_loss: 0.1685, step time: 1.0184  
Batch 82/248, train\_loss: 0.0820, step time: 1.0156  
Batch 83/248, train\_loss: 0.5347, step time: 1.0183  
Batch 84/248, train\_loss: 0.2472, step time: 1.0157  
Batch 85/248, train\_loss: 0.4896, step time: 1.0171  
Batch 86/248, train\_loss: 0.2527, step time: 1.0152  
Batch 87/248, train\_loss: 0.4502, step time: 1.0124  
Batch 88/248, train\_loss: 0.2682, step time: 1.0157  
Batch 89/248, train\_loss: 0.0896, step time: 1.0140  
Batch 90/248, train\_loss: 0.2820, step time: 1.0206  
Batch 91/248, train\_loss: 0.3487, step time: 1.0167  
Batch 92/248, train\_loss: 0.2452, step time: 1.0139  
Batch 93/248, train\_loss: 0.1421, step time: 1.0154  
Batch 94/248, train\_loss: 0.2648, step time: 1.0151  
Batch 95/248, train\_loss: 0.1714, step time: 1.0129  
Batch 96/248, train\_loss: 0.1711, step time: 1.0156  
Batch 97/248, train\_loss: 0.3175, step time: 1.0162  
Batch 98/248, train\_loss: 0.1071, step time: 1.0154  
Batch 99/248, train\_loss: 0.2787, step time: 1.0161  
Batch 100/248, train\_loss: 0.1884, step time: 1.0132  
Batch 101/248, train\_loss: 0.0566, step time: 1.0113  
Batch 102/248, train\_loss: 0.1515, step time: 1.0150  
Batch 103/248, train\_loss: 0.2895, step time: 1.0115  
Batch 104/248, train\_loss: 0.2871, step time: 1.0144  
Batch 105/248, train\_loss: 0.0740, step time: 1.0127  
Batch 106/248, train\_loss: 0.2245, step time: 1.0135  
Batch 107/248, train\_loss: 0.2927, step time: 1.0156  
Batch 108/248, train\_loss: 0.4073, step time: 1.0147  
Batch 109/248, train\_loss: 0.8849, step time: 1.0180  
Batch 110/248, train\_loss: 0.1942, step time: 1.0154  
Batch 111/248, train\_loss: 0.0910, step time: 1.0147  
Batch 112/248, train\_loss: 0.0806, step time: 1.0126  
Batch 113/248, train\_loss: 0.8383, step time: 1.0171  
Batch 114/248, train\_loss: 0.1253, step time: 1.0142  
Batch 115/248, train\_loss: 0.1516, step time: 1.0133  
Batch 116/248, train\_loss: 0.0793, step time: 1.0135  
Batch 117/248, train\_loss: 0.4583, step time: 1.0188  
Batch 118/248, train\_loss: 0.3798, step time: 1.0153  
Batch 119/248, train\_loss: 0.2645, step time: 1.0151  
Batch 120/248, train\_loss: 0.2263, step time: 1.0124  
Batch 121/248, train\_loss: 0.2646, step time: 1.0166  
Batch 122/248, train\_loss: 0.3400, step time: 1.0179  
Batch 123/248, train\_loss: 0.0745, step time: 1.0127  
Batch 124/248, train\_loss: 0.3956, step time: 1.0189  
Batch 125/248, train\_loss: 0.4214, step time: 1.0158  
Batch 126/248, train\_loss: 0.2610, step time: 1.0154  
Batch 127/248, train\_loss: 0.0934, step time: 1.0135  
Batch 128/248, train\_loss: 0.1840, step time: 1.0173  
Batch 129/248, train\_loss: 0.1012, step time: 1.0160  
Batch 130/248, train\_loss: 0.0897, step time: 1.0088  
Batch 131/248, train\_loss: 0.4034, step time: 1.0163  
Batch 132/248, train\_loss: 0.2435, step time: 1.0152  
Batch 133/248, train\_loss: 0.1580, step time: 1.0164  
Batch 134/248, train\_loss: 0.5498, step time: 1.0164  
Batch 135/248, train\_loss: 0.2469, step time: 1.0175  
Batch 136/248, train\_loss: 0.0942, step time: 1.0105  
Batch 137/248, train\_loss: 0.1090, step time: 1.0115  
Batch 138/248, train\_loss: 0.0610, step time: 1.0121  
Batch 139/248, train\_loss: 0.1932, step time: 1.0154  
Batch 140/248, train\_loss: 0.2117, step time: 1.0161  
Batch 141/248, train\_loss: 0.1343, step time: 1.0115  
Batch 142/248, train\_loss: 0.3923, step time: 1.0141  
Batch 143/248, train\_loss: 0.2109, step time: 1.0124  
Batch 144/248, train\_loss: 0.1198, step time: 1.0120  
Batch 145/248, train\_loss: 0.0783, step time: 1.0130  
Batch 146/248, train\_loss: 0.4875, step time: 1.0178  
Batch 147/248, train\_loss: 0.0375, step time: 1.0121  
Batch 148/248, train\_loss: 0.4900, step time: 1.0163  
Batch 149/248, train\_loss: 0.1064, step time: 1.0140  
Batch 150/248, train\_loss: 0.6540, step time: 1.0144  
Batch 151/248, train\_loss: 0.2559, step time: 1.0190  
Batch 152/248, train\_loss: 0.0363, step time: 1.0105  
Batch 153/248, train\_loss: 0.1669, step time: 1.0121

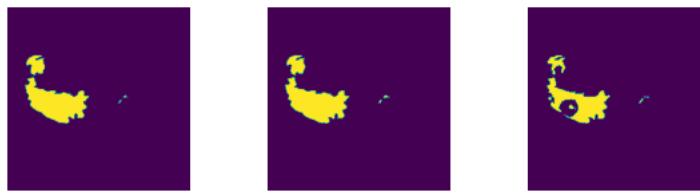
Batch 154/248, train\_loss: 0.6119, step time: 1.0190  
Batch 155/248, train\_loss: 0.1094, step time: 1.0175  
Batch 156/248, train\_loss: 0.2919, step time: 1.0190  
Batch 157/248, train\_loss: 0.1926, step time: 1.0149  
Batch 158/248, train\_loss: 0.9770, step time: 1.0158  
Batch 159/248, train\_loss: 0.2668, step time: 1.0149  
Batch 160/248, train\_loss: 0.0836, step time: 1.0134  
Batch 161/248, train\_loss: 0.0975, step time: 1.0116  
Batch 162/248, train\_loss: 0.0721, step time: 1.0137  
Batch 163/248, train\_loss: 0.1032, step time: 1.0191  
Batch 164/248, train\_loss: 0.1676, step time: 1.0151  
Batch 165/248, train\_loss: 0.3178, step time: 1.0152  
Batch 166/248, train\_loss: 0.0809, step time: 1.0118  
Batch 167/248, train\_loss: 0.1419, step time: 1.0131  
Batch 168/248, train\_loss: 0.1418, step time: 1.0136  
Batch 169/248, train\_loss: 0.0864, step time: 1.0146  
Batch 170/248, train\_loss: 0.6064, step time: 1.0174  
Batch 171/248, train\_loss: 0.0783, step time: 1.0120  
Batch 172/248, train\_loss: 0.3020, step time: 1.0177  
Batch 173/248, train\_loss: 0.0873, step time: 1.0125  
Batch 174/248, train\_loss: 0.5545, step time: 1.0181  
Batch 175/248, train\_loss: 0.1391, step time: 1.0115  
Batch 176/248, train\_loss: 0.3165, step time: 1.0146  
Batch 177/248, train\_loss: 0.1810, step time: 1.0134  
Batch 178/248, train\_loss: 0.2135, step time: 1.0162  
Batch 179/248, train\_loss: 0.0817, step time: 1.0201  
Batch 180/248, train\_loss: 0.2773, step time: 1.0181  
Batch 181/248, train\_loss: 0.1052, step time: 1.0115  
Batch 182/248, train\_loss: 0.8872, step time: 1.0130  
Batch 183/248, train\_loss: 0.1258, step time: 1.0170  
Batch 184/248, train\_loss: 0.2283, step time: 1.0156  
Batch 185/248, train\_loss: 0.0846, step time: 1.0135  
Batch 186/248, train\_loss: 0.0823, step time: 1.0097  
Batch 187/248, train\_loss: 0.1497, step time: 1.0141  
Batch 188/248, train\_loss: 0.2767, step time: 1.0136  
Batch 189/248, train\_loss: 0.4316, step time: 1.0168  
Batch 190/248, train\_loss: 0.1388, step time: 1.0144  
Batch 191/248, train\_loss: 0.5650, step time: 1.0136  
Batch 192/248, train\_loss: 0.2570, step time: 1.0181  
Batch 193/248, train\_loss: 0.2637, step time: 1.0135  
Batch 194/248, train\_loss: 0.0817, step time: 1.0170  
Batch 195/248, train\_loss: 0.5925, step time: 1.0167  
Batch 196/248, train\_loss: 0.9497, step time: 1.0133  
Batch 197/248, train\_loss: 0.1542, step time: 1.0128  
Batch 198/248, train\_loss: 0.4628, step time: 1.0147  
Batch 199/248, train\_loss: 0.1451, step time: 1.0166  
Batch 200/248, train\_loss: 0.1280, step time: 1.0162  
Batch 201/248, train\_loss: 0.1228, step time: 1.0125  
Batch 202/248, train\_loss: 0.3133, step time: 1.0138  
Batch 203/248, train\_loss: 0.6597, step time: 1.0165  
Batch 204/248, train\_loss: 0.0954, step time: 1.0165  
Batch 205/248, train\_loss: 0.2090, step time: 1.0156  
Batch 206/248, train\_loss: 0.2359, step time: 1.0154  
Batch 207/248, train\_loss: 0.0808, step time: 1.0141  
Batch 208/248, train\_loss: 0.1524, step time: 1.0133  
Batch 209/248, train\_loss: 0.1288, step time: 1.0141  
Batch 210/248, train\_loss: 0.0578, step time: 1.0121  
Batch 211/248, train\_loss: 0.0614, step time: 1.0123  
Batch 212/248, train\_loss: 0.2099, step time: 1.0156  
Batch 213/248, train\_loss: 0.1493, step time: 1.0151  
Batch 214/248, train\_loss: 0.0675, step time: 1.0116  
Batch 215/248, train\_loss: 0.1391, step time: 1.0160  
Batch 216/248, train\_loss: 0.1415, step time: 1.0182  
Batch 217/248, train\_loss: 0.2344, step time: 1.0170  
Batch 218/248, train\_loss: 0.7310, step time: 1.0169  
Batch 219/248, train\_loss: 0.0556, step time: 1.0150  
Batch 220/248, train\_loss: 0.1946, step time: 1.0134  
Batch 221/248, train\_loss: 0.2621, step time: 1.0138  
Batch 222/248, train\_loss: 0.1717, step time: 1.0142  
Batch 223/248, train\_loss: 0.0386, step time: 1.0114  
Batch 224/248, train\_loss: 0.0771, step time: 1.0118  
Batch 225/248, train\_loss: 0.1323, step time: 1.0130  
Batch 226/248, train\_loss: 0.1250, step time: 1.0150  
Batch 227/248, train\_loss: 0.0825, step time: 1.0125  
Batch 228/248, train\_loss: 0.1507, step time: 1.0133  
Batch 229/248, train\_loss: 0.1126, step time: 1.0119  
Batch 230/248, train\_loss: 0.0794, step time: 1.0142  
Batch 231/248, train\_loss: 0.2498, step time: 1.0164  
Batch 232/248, train\_loss: 0.0794, step time: 1.0113  
Batch 233/248, train\_loss: 0.7532, step time: 1.0168  
Batch 234/248, train\_loss: 0.4142, step time: 1.0125  
Batch 235/248, train\_loss: 0.2814, step time: 1.0171  
Batch 236/248, train\_loss: 0.7060, step time: 1.0171  
Batch 237/248, train\_loss: 0.1019, step time: 1.0134  
Batch 238/248, train\_loss: 0.0882, step time: 1.0136

```
Batch 239/248, train_loss: 0.0592, step time: 1.0129  
Batch 240/248, train_loss: 0.2849, step time: 1.0161  
Batch 241/248, train_loss: 0.3527, step time: 1.0167  
Batch 242/248, train_loss: 0.1357, step time: 1.0143  
Batch 243/248, train_loss: 0.4257, step time: 1.0130  
Batch 244/248, train_loss: 0.3534, step time: 1.0152  
Batch 245/248, train_loss: 0.0606, step time: 1.0124  
Batch 246/248, train_loss: 0.5609, step time: 1.0157  
Batch 247/248, train_loss: 0.0743, step time: 1.0121  
Batch 248/248, train_loss: 0.9998, step time: 1.0154
```

Labels



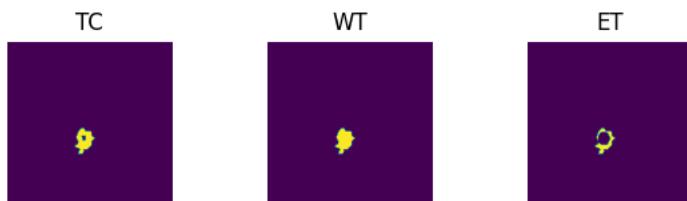
Predictions



#### VAL

```
Batch 1/31, val_loss: 0.8979  
Batch 2/31, val_loss: 0.9895  
Batch 3/31, val_loss: 0.9594  
Batch 4/31, val_loss: 0.9405  
Batch 5/31, val_loss: 0.9952  
Batch 6/31, val_loss: 0.6973  
Batch 7/31, val_loss: 0.8329  
Batch 8/31, val_loss: 0.9663  
Batch 9/31, val_loss: 0.6909  
Batch 10/31, val_loss: 0.9034  
Batch 11/31, val_loss: 0.8218  
Batch 12/31, val_loss: 0.9778  
Batch 13/31, val_loss: 0.9845  
Batch 14/31, val_loss: 0.9520  
Batch 15/31, val_loss: 0.9977  
Batch 16/31, val_loss: 0.9713  
Batch 17/31, val_loss: 0.9775  
Batch 18/31, val_loss: 0.9438  
Batch 19/31, val_loss: 0.7406  
Batch 20/31, val_loss: 0.8790  
Batch 21/31, val_loss: 0.8631  
Batch 22/31, val_loss: 0.9713  
Batch 23/31, val_loss: 0.9861  
Batch 24/31, val_loss: 0.7449  
Batch 25/31, val_loss: 0.7946  
Batch 26/31, val_loss: 0.9149  
Batch 27/31, val_loss: 0.9751  
Batch 28/31, val_loss: 0.7373  
Batch 29/31, val_loss: 0.9812  
Batch 30/31, val_loss: 0.9554  
Batch 31/31, val_loss: 0.9872
```

Labels



Predictions





```
epoch 91
average train loss: 0.2487
average validation loss: 0.9042
saved as best model: False
current mean dice: 0.5113
current TC dice: 0.5368
current WT dice: 0.5415
current ET dice: 0.4947
Best Mean Metric: 0.5258
time consuming of epoch 91 is: 1566.1570
-----
```

```
epoch 92/100
```

```
TRAIN
```

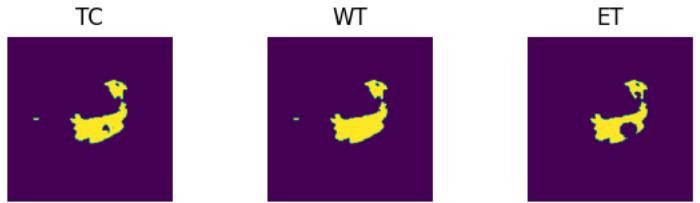
```
Batch 1/248, train_loss: 0.0738, step time: 1.0126
Batch 2/248, train_loss: 0.5941, step time: 1.0199
Batch 3/248, train_loss: 0.2296, step time: 1.0162
Batch 4/248, train_loss: 0.7422, step time: 1.0169
Batch 5/248, train_loss: 0.1716, step time: 1.0136
Batch 6/248, train_loss: 0.2621, step time: 1.0133
Batch 7/248, train_loss: 0.0579, step time: 1.0104
Batch 8/248, train_loss: 0.7210, step time: 1.0128
Batch 9/248, train_loss: 0.0407, step time: 1.0143
Batch 10/248, train_loss: 0.2065, step time: 1.0152
Batch 11/248, train_loss: 0.1363, step time: 1.0150
Batch 12/248, train_loss: 0.3368, step time: 1.0164
Batch 13/248, train_loss: 0.2774, step time: 1.0141
Batch 14/248, train_loss: 0.0564, step time: 1.0141
Batch 15/248, train_loss: 0.3095, step time: 1.0154
Batch 16/248, train_loss: 0.1430, step time: 1.0135
Batch 17/248, train_loss: 0.2120, step time: 1.0136
Batch 18/248, train_loss: 0.3751, step time: 1.0171
Batch 19/248, train_loss: 0.0860, step time: 1.0132
Batch 20/248, train_loss: 0.1622, step time: 1.0146
Batch 21/248, train_loss: 0.0532, step time: 1.0145
Batch 22/248, train_loss: 0.2832, step time: 1.0174
Batch 23/248, train_loss: 0.9974, step time: 1.0090
Batch 24/248, train_loss: 0.0653, step time: 1.0130
Batch 25/248, train_loss: 0.0550, step time: 1.0158
Batch 26/248, train_loss: 0.3249, step time: 1.0160
Batch 27/248, train_loss: 0.0678, step time: 1.0126
Batch 28/248, train_loss: 0.1497, step time: 1.0163
Batch 29/248, train_loss: 0.2608, step time: 1.0181
Batch 30/248, train_loss: 0.2220, step time: 1.0150
Batch 31/248, train_loss: 0.2566, step time: 1.0166
Batch 32/248, train_loss: 0.0767, step time: 1.0131
Batch 33/248, train_loss: 0.0665, step time: 1.0129
Batch 34/248, train_loss: 0.0404, step time: 1.0123
Batch 35/248, train_loss: 0.0403, step time: 1.0131
Batch 36/248, train_loss: 0.3508, step time: 1.0173
Batch 37/248, train_loss: 0.1359, step time: 1.0121
Batch 38/248, train_loss: 0.2959, step time: 1.0138
Batch 39/248, train_loss: 0.1194, step time: 1.0127
Batch 40/248, train_loss: 0.4711, step time: 1.0170
Batch 41/248, train_loss: 0.2413, step time: 1.0132
Batch 42/248, train_loss: 0.0587, step time: 1.0148
Batch 43/248, train_loss: 0.0471, step time: 1.0128
Batch 44/248, train_loss: 0.2978, step time: 1.0134
Batch 45/248, train_loss: 0.3374, step time: 1.0122
Batch 46/248, train_loss: 0.1584, step time: 1.0152
Batch 47/248, train_loss: 0.0601, step time: 1.0110
Batch 48/248, train_loss: 0.2179, step time: 1.0166
Batch 49/248, train_loss: 0.4780, step time: 1.0141
Batch 50/248, train_loss: 0.1189, step time: 1.0139
Batch 51/248, train_loss: 0.1119, step time: 1.0185
Batch 52/248, train_loss: 0.0888, step time: 1.0125
Batch 53/248, train_loss: 0.3802, step time: 1.0158
Batch 54/248, train_loss: 0.1987, step time: 1.0136
Batch 55/248, train_loss: 0.2435, step time: 1.0153
Batch 56/248, train_loss: 0.1756, step time: 1.0144
Batch 57/248, train_loss: 0.2892, step time: 1.0144
Batch 58/248, train_loss: 0.0648, step time: 1.0130
Batch 59/248, train_loss: 0.0877, step time: 1.0110
Batch 60/248, train_loss: 0.0443, step time: 1.0120
Batch 61/248, train_loss: 0.0788, step time: 1.0109
Batch 62/248, train_loss: 0.2027, step time: 1.0097
Batch 63/248, train_loss: 0.4884, step time: 1.0166
Batch 64/248, train_loss: 0.3042, step time: 1.0143
Batch 65/248, train_loss: 0.2385, step time: 1.0156
Batch 66/248, train_loss: 0.1072, step time: 1.0137
Batch 67/248, train_loss: 0.0681, step time: 1.0134
Batch 68/248, train_loss: 0.1407, step time: 1.0140
```

Batch 69/248, train\_loss: 0.2480, step time: 1.0167  
Batch 70/248, train\_loss: 0.1394, step time: 1.0180  
Batch 71/248, train\_loss: 0.1564, step time: 1.0153  
Batch 72/248, train\_loss: 0.0561, step time: 1.0135  
Batch 73/248, train\_loss: 0.3687, step time: 1.0135  
Batch 74/248, train\_loss: 0.9938, step time: 1.0134  
Batch 75/248, train\_loss: 0.1160, step time: 1.0144  
Batch 76/248, train\_loss: 0.5049, step time: 1.0162  
Batch 77/248, train\_loss: 0.7282, step time: 1.0135  
Batch 78/248, train\_loss: 0.1129, step time: 1.0158  
Batch 79/248, train\_loss: 0.1041, step time: 1.0103  
Batch 80/248, train\_loss: 0.2077, step time: 1.0135  
Batch 81/248, train\_loss: 0.1742, step time: 1.0144  
Batch 82/248, train\_loss: 0.0779, step time: 1.0112  
Batch 83/248, train\_loss: 0.4497, step time: 1.0155  
Batch 84/248, train\_loss: 0.2162, step time: 1.0165  
Batch 85/248, train\_loss: 0.3727, step time: 1.0131  
Batch 86/248, train\_loss: 0.3070, step time: 1.0153  
Batch 87/248, train\_loss: 0.4072, step time: 1.0174  
Batch 88/248, train\_loss: 0.2726, step time: 1.0144  
Batch 89/248, train\_loss: 0.0886, step time: 1.0133  
Batch 90/248, train\_loss: 0.3092, step time: 1.0143  
Batch 91/248, train\_loss: 0.2713, step time: 1.0165  
Batch 92/248, train\_loss: 0.2390, step time: 1.0145  
Batch 93/248, train\_loss: 0.1435, step time: 1.0150  
Batch 94/248, train\_loss: 0.2292, step time: 1.0167  
Batch 95/248, train\_loss: 0.1814, step time: 1.0145  
Batch 96/248, train\_loss: 0.1707, step time: 1.0138  
Batch 97/248, train\_loss: 0.2611, step time: 1.0171  
Batch 98/248, train\_loss: 0.0982, step time: 1.0166  
Batch 99/248, train\_loss: 0.2732, step time: 1.0146  
Batch 100/248, train\_loss: 0.2113, step time: 1.0161  
Batch 101/248, train\_loss: 0.0595, step time: 1.0127  
Batch 102/248, train\_loss: 0.1096, step time: 1.0176  
Batch 103/248, train\_loss: 0.2528, step time: 1.0152  
Batch 104/248, train\_loss: 0.3081, step time: 1.0176  
Batch 105/248, train\_loss: 0.0758, step time: 1.0123  
Batch 106/248, train\_loss: 0.0966, step time: 1.0138  
Batch 107/248, train\_loss: 0.2061, step time: 1.0140  
Batch 108/248, train\_loss: 0.4057, step time: 1.0148  
Batch 109/248, train\_loss: 0.9342, step time: 1.0137  
Batch 110/248, train\_loss: 0.3043, step time: 1.0154  
Batch 111/248, train\_loss: 0.0910, step time: 1.0107  
Batch 112/248, train\_loss: 0.0962, step time: 1.0111  
Batch 113/248, train\_loss: 0.7622, step time: 1.0161  
Batch 114/248, train\_loss: 0.1251, step time: 1.0166  
Batch 115/248, train\_loss: 0.1383, step time: 1.0130  
Batch 116/248, train\_loss: 0.0683, step time: 1.0195  
Batch 117/248, train\_loss: 0.4622, step time: 1.0172  
Batch 118/248, train\_loss: 0.3860, step time: 1.0163  
Batch 119/248, train\_loss: 0.2789, step time: 1.0155  
Batch 120/248, train\_loss: 0.2204, step time: 1.0152  
Batch 121/248, train\_loss: 0.2452, step time: 1.0146  
Batch 122/248, train\_loss: 0.3179, step time: 1.0120  
Batch 123/248, train\_loss: 0.0787, step time: 1.0156  
Batch 124/248, train\_loss: 0.2436, step time: 1.0160  
Batch 125/248, train\_loss: 0.4279, step time: 1.0160  
Batch 126/248, train\_loss: 0.2198, step time: 1.0149  
Batch 127/248, train\_loss: 0.1148, step time: 1.0153  
Batch 128/248, train\_loss: 0.2173, step time: 1.0204  
Batch 129/248, train\_loss: 0.0950, step time: 1.0156  
Batch 130/248, train\_loss: 0.0950, step time: 1.0137  
Batch 131/248, train\_loss: 0.4961, step time: 1.0206  
Batch 132/248, train\_loss: 0.2043, step time: 1.0120  
Batch 133/248, train\_loss: 0.1339, step time: 1.0156  
Batch 134/248, train\_loss: 0.5964, step time: 1.0180  
Batch 135/248, train\_loss: 0.3040, step time: 1.0172  
Batch 136/248, train\_loss: 0.0875, step time: 1.0147  
Batch 137/248, train\_loss: 0.1079, step time: 1.0111  
Batch 138/248, train\_loss: 0.0636, step time: 1.0126  
Batch 139/248, train\_loss: 0.2570, step time: 1.0136  
Batch 140/248, train\_loss: 0.1970, step time: 1.0161  
Batch 141/248, train\_loss: 0.1847, step time: 1.0175  
Batch 142/248, train\_loss: 0.3865, step time: 1.0197  
Batch 143/248, train\_loss: 0.1894, step time: 1.0158  
Batch 144/248, train\_loss: 0.1200, step time: 1.0130  
Batch 145/248, train\_loss: 0.0722, step time: 1.0159  
Batch 146/248, train\_loss: 0.3813, step time: 1.0123  
Batch 147/248, train\_loss: 0.0366, step time: 1.0087  
Batch 148/248, train\_loss: 0.5585, step time: 1.0141  
Batch 149/248, train\_loss: 0.1045, step time: 1.0141  
Batch 150/248, train\_loss: 0.6625, step time: 1.0151  
Batch 151/248, train\_loss: 0.2569, step time: 1.0140  
Batch 152/248, train\_loss: 0.0382, step time: 1.0119  
Batch 153/248, train\_loss: 0.3209, step time: 1.0177

Batch 125/248, train\_loss: 0.2200, step time: 1.0117  
Batch 154/248, train\_loss: 0.5409, step time: 1.0164  
Batch 155/248, train\_loss: 0.1358, step time: 1.0142  
Batch 156/248, train\_loss: 0.1957, step time: 1.0151  
Batch 157/248, train\_loss: 0.1883, step time: 1.0156  
Batch 158/248, train\_loss: 0.9865, step time: 1.0157  
Batch 159/248, train\_loss: 0.4518, step time: 1.0185  
Batch 160/248, train\_loss: 0.0930, step time: 1.0175  
Batch 161/248, train\_loss: 0.1356, step time: 1.0151  
Batch 162/248, train\_loss: 0.0643, step time: 1.0120  
Batch 163/248, train\_loss: 0.1386, step time: 1.0125  
Batch 164/248, train\_loss: 0.2750, step time: 1.0146  
Batch 165/248, train\_loss: 0.2990, step time: 1.0172  
Batch 166/248, train\_loss: 0.0778, step time: 1.0184  
Batch 167/248, train\_loss: 0.1855, step time: 1.0148  
Batch 168/248, train\_loss: 0.1436, step time: 1.0127  
Batch 169/248, train\_loss: 0.1048, step time: 1.0154  
Batch 170/248, train\_loss: 0.7674, step time: 1.0159  
Batch 171/248, train\_loss: 0.0819, step time: 1.0139  
Batch 172/248, train\_loss: 0.2914, step time: 1.0152  
Batch 173/248, train\_loss: 0.0842, step time: 1.0132  
Batch 174/248, train\_loss: 0.8352, step time: 1.0191  
Batch 175/248, train\_loss: 0.1579, step time: 1.0189  
Batch 176/248, train\_loss: 0.5163, step time: 1.0192  
Batch 177/248, train\_loss: 0.1782, step time: 1.0168  
Batch 178/248, train\_loss: 0.4872, step time: 1.0177  
Batch 179/248, train\_loss: 0.0822, step time: 1.0144  
Batch 180/248, train\_loss: 0.1969, step time: 1.0126  
Batch 181/248, train\_loss: 0.0957, step time: 1.0110  
Batch 182/248, train\_loss: 0.9151, step time: 1.0108  
Batch 183/248, train\_loss: 0.2082, step time: 1.0158  
Batch 184/248, train\_loss: 0.2676, step time: 1.0173  
Batch 185/248, train\_loss: 0.0782, step time: 1.0173  
Batch 186/248, train\_loss: 0.1010, step time: 1.0116  
Batch 187/248, train\_loss: 0.1621, step time: 1.0170  
Batch 188/248, train\_loss: 0.2455, step time: 1.0150  
Batch 189/248, train\_loss: 0.4179, step time: 1.0176  
Batch 190/248, train\_loss: 0.1110, step time: 1.0116  
Batch 191/248, train\_loss: 0.5601, step time: 1.0103  
Batch 192/248, train\_loss: 0.3033, step time: 1.0156  
Batch 193/248, train\_loss: 0.2582, step time: 1.0161  
Batch 194/248, train\_loss: 0.0748, step time: 1.0139  
Batch 195/248, train\_loss: 0.6235, step time: 1.0142  
Batch 196/248, train\_loss: 0.6148, step time: 1.0178  
Batch 197/248, train\_loss: 0.2173, step time: 1.0158  
Batch 198/248, train\_loss: 0.4560, step time: 1.0171  
Batch 199/248, train\_loss: 0.1048, step time: 1.0125  
Batch 200/248, train\_loss: 0.1305, step time: 1.0146  
Batch 201/248, train\_loss: 0.1164, step time: 1.0146  
Batch 202/248, train\_loss: 0.4227, step time: 1.0171  
Batch 203/248, train\_loss: 0.4609, step time: 1.0169  
Batch 204/248, train\_loss: 0.0977, step time: 1.0156  
Batch 205/248, train\_loss: 0.2165, step time: 1.0184  
Batch 206/248, train\_loss: 0.2312, step time: 1.0160  
Batch 207/248, train\_loss: 0.0955, step time: 1.0128  
Batch 208/248, train\_loss: 0.1685, step time: 1.0127  
Batch 209/248, train\_loss: 0.2048, step time: 1.0166  
Batch 210/248, train\_loss: 0.0551, step time: 1.0129  
Batch 211/248, train\_loss: 0.0580, step time: 1.0106  
Batch 212/248, train\_loss: 0.2612, step time: 1.0153  
Batch 213/248, train\_loss: 0.1565, step time: 1.0118  
Batch 214/248, train\_loss: 0.0604, step time: 1.0115  
Batch 215/248, train\_loss: 0.1490, step time: 1.0142  
Batch 216/248, train\_loss: 0.1588, step time: 1.0152  
Batch 217/248, train\_loss: 0.2356, step time: 1.0143  
Batch 218/248, train\_loss: 0.7634, step time: 1.0190  
Batch 219/248, train\_loss: 0.0647, step time: 1.0124  
Batch 220/248, train\_loss: 0.1771, step time: 1.0163  
Batch 221/248, train\_loss: 0.2616, step time: 1.0149  
Batch 222/248, train\_loss: 0.1776, step time: 1.0110  
Batch 223/248, train\_loss: 0.0399, step time: 1.0126  
Batch 224/248, train\_loss: 0.0812, step time: 1.0149  
Batch 225/248, train\_loss: 0.1243, step time: 1.0106  
Batch 226/248, train\_loss: 0.1445, step time: 1.0161  
Batch 227/248, train\_loss: 0.0726, step time: 1.0162  
Batch 228/248, train\_loss: 0.1135, step time: 1.0140  
Batch 229/248, train\_loss: 0.0997, step time: 1.0114  
Batch 230/248, train\_loss: 0.0644, step time: 1.0130  
Batch 231/248, train\_loss: 0.2980, step time: 1.0153  
Batch 232/248, train\_loss: 0.0880, step time: 1.0119  
Batch 233/248, train\_loss: 0.7313, step time: 1.0161  
Batch 234/248, train\_loss: 0.3776, step time: 1.0149  
Batch 235/248, train\_loss: 0.2518, step time: 1.0174  
Batch 236/248, train\_loss: 0.7009, step time: 1.0164  
Batch 237/248, train\_loss: 0.0937, step time: 1.0192  
Batch 238/248, train\_loss: 0.0002, step time: 1.0154

```
Batch 238/248, train_loss: 0.0902, step time: 1.0151
Batch 239/248, train_loss: 0.0579, step time: 1.0138
Batch 240/248, train_loss: 0.2695, step time: 1.0168
Batch 241/248, train_loss: 0.3820, step time: 1.0168
Batch 242/248, train_loss: 0.1243, step time: 1.0159
Batch 243/248, train_loss: 0.4369, step time: 1.0167
Batch 244/248, train_loss: 0.4953, step time: 1.0171
Batch 245/248, train_loss: 0.0598, step time: 1.0103
Batch 246/248, train_loss: 0.4705, step time: 1.0165
Batch 247/248, train_loss: 0.0746, step time: 1.0079
Batch 248/248, train_loss: 0.9997, step time: 1.0078
```

Labels



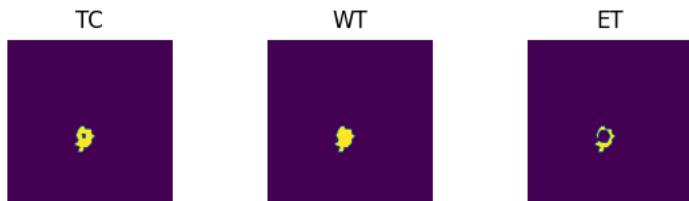
Predictions



#### VAL

```
Batch 1/31, val_loss: 0.8826
Batch 2/31, val_loss: 0.9886
Batch 3/31, val_loss: 0.9587
Batch 4/31, val_loss: 0.9382
Batch 5/31, val_loss: 0.9947
Batch 6/31, val_loss: 0.6875
Batch 7/31, val_loss: 0.8243
Batch 8/31, val_loss: 0.9569
Batch 9/31, val_loss: 0.6874
Batch 10/31, val_loss: 0.9022
Batch 11/31, val_loss: 0.8202
Batch 12/31, val_loss: 0.9745
Batch 13/31, val_loss: 0.9837
Batch 14/31, val_loss: 0.9458
Batch 15/31, val_loss: 0.9941
Batch 16/31, val_loss: 0.9731
Batch 17/31, val_loss: 0.9725
Batch 18/31, val_loss: 0.9356
Batch 19/31, val_loss: 0.7339
Batch 20/31, val_loss: 0.8682
Batch 21/31, val_loss: 0.8646
Batch 22/31, val_loss: 0.9652
Batch 23/31, val_loss: 0.9842
Batch 24/31, val_loss: 0.7390
Batch 25/31, val_loss: 0.7932
Batch 26/31, val_loss: 0.9157
Batch 27/31, val_loss: 0.9708
Batch 28/31, val_loss: 0.7377
Batch 29/31, val_loss: 0.9815
Batch 30/31, val_loss: 0.9577
Batch 31/31, val_loss: 0.9847
```

Labels



Predictions





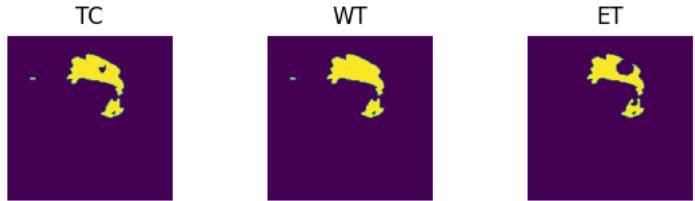
```
epoch 92
average train loss: 0.2481
average validation loss: 0.9006
saved as best model: False
current mean dice: 0.5232
current TC dice: 0.5450
current WT dice: 0.5506
current ET dice: 0.5190
Best Mean Metric: 0.5258
time consuming of epoch 92 is: 1586.6441
-----
epoch 93/100
TRAIN
Batch 1/248, train_loss: 0.0728, step time: 1.0146
Batch 2/248, train_loss: 0.7078, step time: 1.0191
Batch 3/248, train_loss: 0.3791, step time: 1.0122
Batch 4/248, train_loss: 0.8050, step time: 1.0173
Batch 5/248, train_loss: 0.1738, step time: 1.0135
Batch 6/248, train_loss: 0.5104, step time: 1.0145
Batch 7/248, train_loss: 0.0650, step time: 1.0150
Batch 8/248, train_loss: 0.7148, step time: 1.0149
Batch 9/248, train_loss: 0.0431, step time: 1.0143
Batch 10/248, train_loss: 0.2145, step time: 1.0158
Batch 11/248, train_loss: 0.1311, step time: 1.0148
Batch 12/248, train_loss: 0.3508, step time: 1.0149
Batch 13/248, train_loss: 0.2686, step time: 1.0169
Batch 14/248, train_loss: 0.0634, step time: 1.0094
Batch 15/248, train_loss: 0.2837, step time: 1.0129
Batch 16/248, train_loss: 0.1432, step time: 1.0213
Batch 17/248, train_loss: 0.2058, step time: 1.0152
Batch 18/248, train_loss: 0.3217, step time: 1.0178
Batch 19/248, train_loss: 0.1006, step time: 1.0128
Batch 20/248, train_loss: 0.1426, step time: 1.0153
Batch 21/248, train_loss: 0.0581, step time: 1.0156
Batch 22/248, train_loss: 0.3155, step time: 1.0183
Batch 23/248, train_loss: 0.9982, step time: 1.0122
Batch 24/248, train_loss: 0.0885, step time: 1.0151
Batch 25/248, train_loss: 0.0565, step time: 1.0148
Batch 26/248, train_loss: 0.3271, step time: 1.0127
Batch 27/248, train_loss: 0.0641, step time: 1.0118
Batch 28/248, train_loss: 0.1412, step time: 1.0174
Batch 29/248, train_loss: 0.3078, step time: 1.0192
Batch 30/248, train_loss: 0.2039, step time: 1.0201
Batch 31/248, train_loss: 0.2981, step time: 1.0159
Batch 32/248, train_loss: 0.0791, step time: 1.0151
Batch 33/248, train_loss: 0.0624, step time: 1.0143
Batch 34/248, train_loss: 0.0422, step time: 1.0127
Batch 35/248, train_loss: 0.0408, step time: 1.0154
Batch 36/248, train_loss: 0.3623, step time: 1.0161
Batch 37/248, train_loss: 0.1480, step time: 1.0128
Batch 38/248, train_loss: 0.2654, step time: 1.0136
Batch 39/248, train_loss: 0.1065, step time: 1.0120
Batch 40/248, train_loss: 0.4836, step time: 1.0129
Batch 41/248, train_loss: 0.2459, step time: 1.0160
Batch 42/248, train_loss: 0.0643, step time: 1.0144
Batch 43/248, train_loss: 0.0503, step time: 1.0123
Batch 44/248, train_loss: 0.2815, step time: 1.0159
Batch 45/248, train_loss: 0.3430, step time: 1.0127
Batch 46/248, train_loss: 0.1689, step time: 1.0142
Batch 47/248, train_loss: 0.0593, step time: 1.0145
Batch 48/248, train_loss: 0.1804, step time: 1.0142
Batch 49/248, train_loss: 0.4875, step time: 1.0168
Batch 50/248, train_loss: 0.1201, step time: 1.0106
Batch 51/248, train_loss: 0.1688, step time: 1.0179
Batch 52/248, train_loss: 0.0826, step time: 1.0150
Batch 53/248, train_loss: 0.3834, step time: 1.0204
Batch 54/248, train_loss: 0.2159, step time: 1.0141
Batch 55/248, train_loss: 0.2592, step time: 1.0154
Batch 56/248, train_loss: 0.2170, step time: 1.0158
Batch 57/248, train_loss: 0.2960, step time: 1.0147
Batch 58/248, train_loss: 0.0679, step time: 1.0105
Batch 59/248, train_loss: 0.0858, step time: 1.0139
Batch 60/248, train_loss: 0.0492, step time: 1.0138
Batch 61/248, train_loss: 0.0851, step time: 1.0135
Batch 62/248, train_loss: 0.2148, step time: 1.0153
Batch 63/248, train_loss: 0.4737, step time: 1.0139
Batch 64/248, train_loss: 0.3023, step time: 1.0159
Batch 65/248, train_loss: 0.2514, step time: 1.0144
Batch 66/248, train_loss: 0.1100, step time: 1.0183
Batch 67/248, train_loss: 0.0667, step time: 1.0121
Batch 68/248, train_loss: 0.1577, step time: 1.0151
```

Batch 55/248, train\_loss: 0.1577, step time: 1.0151  
Batch 69/248, train\_loss: 0.3774, step time: 1.0203  
Batch 70/248, train\_loss: 0.1596, step time: 1.0150  
Batch 71/248, train\_loss: 0.1275, step time: 1.0171  
Batch 72/248, train\_loss: 0.0550, step time: 1.0086  
Batch 73/248, train\_loss: 0.3679, step time: 1.0172  
Batch 74/248, train\_loss: 0.9983, step time: 1.0094  
Batch 75/248, train\_loss: 0.1168, step time: 1.0137  
Batch 76/248, train\_loss: 0.6020, step time: 1.0180  
Batch 77/248, train\_loss: 0.7934, step time: 1.0121  
Batch 78/248, train\_loss: 0.1319, step time: 1.0154  
Batch 79/248, train\_loss: 0.1415, step time: 1.0151  
Batch 80/248, train\_loss: 0.1766, step time: 1.0137  
Batch 81/248, train\_loss: 0.1485, step time: 1.0184  
Batch 82/248, train\_loss: 0.0799, step time: 1.0143  
Batch 83/248, train\_loss: 0.4866, step time: 1.0187  
Batch 84/248, train\_loss: 0.2349, step time: 1.0140  
Batch 85/248, train\_loss: 0.3899, step time: 1.0180  
Batch 86/248, train\_loss: 0.2591, step time: 1.0123  
Batch 87/248, train\_loss: 0.4360, step time: 1.0145  
Batch 88/248, train\_loss: 0.2613, step time: 1.0135  
Batch 89/248, train\_loss: 0.0991, step time: 1.0164  
Batch 90/248, train\_loss: 0.2319, step time: 1.0140  
Batch 91/248, train\_loss: 0.3065, step time: 1.0183  
Batch 92/248, train\_loss: 0.2329, step time: 1.0148  
Batch 93/248, train\_loss: 0.1481, step time: 1.0106  
Batch 94/248, train\_loss: 0.2214, step time: 1.0182  
Batch 95/248, train\_loss: 0.1604, step time: 1.0152  
Batch 96/248, train\_loss: 0.1243, step time: 1.0153  
Batch 97/248, train\_loss: 0.2881, step time: 1.0164  
Batch 98/248, train\_loss: 0.0948, step time: 1.0197  
Batch 99/248, train\_loss: 0.2664, step time: 1.0135  
Batch 100/248, train\_loss: 0.2629, step time: 1.0175  
Batch 101/248, train\_loss: 0.0518, step time: 1.0137  
Batch 102/248, train\_loss: 0.1229, step time: 1.0158  
Batch 103/248, train\_loss: 0.4731, step time: 1.0175  
Batch 104/248, train\_loss: 0.2970, step time: 1.0169  
Batch 105/248, train\_loss: 0.0698, step time: 1.0132  
Batch 106/248, train\_loss: 0.1595, step time: 1.0168  
Batch 107/248, train\_loss: 0.2348, step time: 1.0169  
Batch 108/248, train\_loss: 0.3518, step time: 1.0166  
Batch 109/248, train\_loss: 0.9141, step time: 1.0164  
Batch 110/248, train\_loss: 0.1908, step time: 1.0171  
Batch 111/248, train\_loss: 0.1055, step time: 1.0151  
Batch 112/248, train\_loss: 0.1484, step time: 1.0177  
Batch 113/248, train\_loss: 0.7916, step time: 1.0167  
Batch 114/248, train\_loss: 0.1280, step time: 1.0153  
Batch 115/248, train\_loss: 0.1347, step time: 1.0144  
Batch 116/248, train\_loss: 0.0736, step time: 1.0143  
Batch 117/248, train\_loss: 0.4660, step time: 1.0150  
Batch 118/248, train\_loss: 0.3472, step time: 1.0150  
Batch 119/248, train\_loss: 0.4231, step time: 1.0152  
Batch 120/248, train\_loss: 0.2145, step time: 1.0143  
Batch 121/248, train\_loss: 0.2700, step time: 1.0161  
Batch 122/248, train\_loss: 0.3047, step time: 1.0158  
Batch 123/248, train\_loss: 0.0695, step time: 1.0152  
Batch 124/248, train\_loss: 0.2273, step time: 1.0151  
Batch 125/248, train\_loss: 0.4656, step time: 1.0195  
Batch 126/248, train\_loss: 0.2121, step time: 1.0152  
Batch 127/248, train\_loss: 0.1116, step time: 1.0162  
Batch 128/248, train\_loss: 0.2005, step time: 1.0174  
Batch 129/248, train\_loss: 0.1157, step time: 1.0168  
Batch 130/248, train\_loss: 0.0816, step time: 1.0142  
Batch 131/248, train\_loss: 0.4567, step time: 1.0145  
Batch 132/248, train\_loss: 0.2571, step time: 1.0169  
Batch 133/248, train\_loss: 0.1473, step time: 1.0140  
Batch 134/248, train\_loss: 0.5526, step time: 1.0177  
Batch 135/248, train\_loss: 0.3416, step time: 1.0160  
Batch 136/248, train\_loss: 0.0934, step time: 1.0163  
Batch 137/248, train\_loss: 0.1019, step time: 1.0141  
Batch 138/248, train\_loss: 0.0651, step time: 1.0132  
Batch 139/248, train\_loss: 0.1435, step time: 1.0114  
Batch 140/248, train\_loss: 0.1923, step time: 1.0150  
Batch 141/248, train\_loss: 0.1426, step time: 1.0121  
Batch 142/248, train\_loss: 0.4052, step time: 1.0157  
Batch 143/248, train\_loss: 0.2335, step time: 1.0159  
Batch 144/248, train\_loss: 0.1178, step time: 1.0152  
Batch 145/248, train\_loss: 0.0754, step time: 1.0141  
Batch 146/248, train\_loss: 0.5806, step time: 1.0162  
Batch 147/248, train\_loss: 0.0363, step time: 1.0121  
Batch 148/248, train\_loss: 0.5075, step time: 1.0173  
Batch 149/248, train\_loss: 0.1137, step time: 1.0158  
Batch 150/248, train\_loss: 0.6703, step time: 1.0179  
Batch 151/248, train\_loss: 0.2457, step time: 1.0152  
Batch 152/248, train\_loss: 0.0378, step time: 1.0139  
-----

Batch 153/248, train\_loss: 0.2903, step time: 1.0188  
Batch 154/248, train\_loss: 0.5371, step time: 1.0186  
Batch 155/248, train\_loss: 0.1087, step time: 1.0138  
Batch 156/248, train\_loss: 0.1815, step time: 1.0188  
Batch 157/248, train\_loss: 0.1790, step time: 1.0131  
Batch 158/248, train\_loss: 0.9815, step time: 1.0163  
Batch 159/248, train\_loss: 0.3053, step time: 1.0190  
Batch 160/248, train\_loss: 0.0951, step time: 1.0137  
Batch 161/248, train\_loss: 0.0957, step time: 1.0160  
Batch 162/248, train\_loss: 0.0666, step time: 1.0137  
Batch 163/248, train\_loss: 0.0935, step time: 1.0110  
Batch 164/248, train\_loss: 0.2280, step time: 1.0167  
Batch 165/248, train\_loss: 0.3969, step time: 1.0153  
Batch 166/248, train\_loss: 0.0751, step time: 1.0186  
Batch 167/248, train\_loss: 0.1504, step time: 1.0145  
Batch 168/248, train\_loss: 0.1346, step time: 1.0154  
Batch 169/248, train\_loss: 0.0814, step time: 1.0152  
Batch 170/248, train\_loss: 0.4818, step time: 1.0169  
Batch 171/248, train\_loss: 0.0752, step time: 1.0142  
Batch 172/248, train\_loss: 0.2769, step time: 1.0168  
Batch 173/248, train\_loss: 0.0751, step time: 1.0130  
Batch 174/248, train\_loss: 0.5040, step time: 1.0175  
Batch 175/248, train\_loss: 0.1357, step time: 1.0182  
Batch 176/248, train\_loss: 0.3097, step time: 1.0164  
Batch 177/248, train\_loss: 0.2065, step time: 1.0176  
Batch 178/248, train\_loss: 0.2931, step time: 1.0150  
Batch 179/248, train\_loss: 0.0892, step time: 1.0121  
Batch 180/248, train\_loss: 0.1878, step time: 1.0145  
Batch 181/248, train\_loss: 0.1070, step time: 1.0110  
Batch 182/248, train\_loss: 0.8736, step time: 1.0156  
Batch 183/248, train\_loss: 0.1358, step time: 1.0178  
Batch 184/248, train\_loss: 0.6239, step time: 1.0156  
Batch 185/248, train\_loss: 0.0809, step time: 1.0109  
Batch 186/248, train\_loss: 0.0811, step time: 1.0093  
Batch 187/248, train\_loss: 0.1552, step time: 1.0133  
Batch 188/248, train\_loss: 0.2364, step time: 1.0167  
Batch 189/248, train\_loss: 0.4814, step time: 1.0162  
Batch 190/248, train\_loss: 0.1163, step time: 1.0134  
Batch 191/248, train\_loss: 0.5495, step time: 1.0141  
Batch 192/248, train\_loss: 0.2648, step time: 1.0154  
Batch 193/248, train\_loss: 0.2271, step time: 1.0133  
Batch 194/248, train\_loss: 0.0797, step time: 1.0166  
Batch 195/248, train\_loss: 0.5497, step time: 1.0162  
Batch 196/248, train\_loss: 0.5550, step time: 1.0190  
Batch 197/248, train\_loss: 0.1556, step time: 1.0145  
Batch 198/248, train\_loss: 0.4279, step time: 1.0167  
Batch 199/248, train\_loss: 0.1198, step time: 1.0160  
Batch 200/248, train\_loss: 0.1260, step time: 1.0143  
Batch 201/248, train\_loss: 0.1303, step time: 1.0158  
Batch 202/248, train\_loss: 0.2944, step time: 1.0143  
Batch 203/248, train\_loss: 0.4979, step time: 1.0191  
Batch 204/248, train\_loss: 0.0812, step time: 1.0136  
Batch 205/248, train\_loss: 0.2163, step time: 1.0144  
Batch 206/248, train\_loss: 0.2744, step time: 1.0189  
Batch 207/248, train\_loss: 0.0663, step time: 1.0131  
Batch 208/248, train\_loss: 0.1306, step time: 1.0148  
Batch 209/248, train\_loss: 0.1392, step time: 1.0147  
Batch 210/248, train\_loss: 0.0566, step time: 1.0148  
Batch 211/248, train\_loss: 0.0582, step time: 1.0091  
Batch 212/248, train\_loss: 0.1794, step time: 1.0139  
Batch 213/248, train\_loss: 0.1404, step time: 1.0138  
Batch 214/248, train\_loss: 0.0648, step time: 1.0131  
Batch 215/248, train\_loss: 0.1579, step time: 1.0163  
Batch 216/248, train\_loss: 0.0966, step time: 1.0148  
Batch 217/248, train\_loss: 0.2354, step time: 1.0153  
Batch 218/248, train\_loss: 0.8327, step time: 1.0198  
Batch 219/248, train\_loss: 0.0573, step time: 1.0161  
Batch 220/248, train\_loss: 0.1982, step time: 1.0175  
Batch 221/248, train\_loss: 0.2578, step time: 1.0161  
Batch 222/248, train\_loss: 0.1875, step time: 1.0150  
Batch 223/248, train\_loss: 0.0385, step time: 1.0084  
Batch 224/248, train\_loss: 0.0730, step time: 1.0100  
Batch 225/248, train\_loss: 0.1287, step time: 1.0153  
Batch 226/248, train\_loss: 0.0989, step time: 1.0142  
Batch 227/248, train\_loss: 0.0834, step time: 1.0128  
Batch 228/248, train\_loss: 0.1946, step time: 1.0168  
Batch 229/248, train\_loss: 0.1193, step time: 1.0145  
Batch 230/248, train\_loss: 0.0613, step time: 1.0104  
Batch 231/248, train\_loss: 0.2647, step time: 1.0166  
Batch 232/248, train\_loss: 0.0670, step time: 1.0134  
Batch 233/248, train\_loss: 0.7650, step time: 1.0139  
Batch 234/248, train\_loss: 0.4180, step time: 1.0138  
Batch 235/248, train\_loss: 0.2682, step time: 1.0166  
Batch 236/248, train\_loss: 0.6962, step time: 1.0136  
Batch 237/248, train\_loss: 0.0868, step time: 1.0129

```
Batch 238/248, train_loss: 0.0937, step time: 1.0147  
Batch 239/248, train_loss: 0.0498, step time: 1.0132  
Batch 240/248, train_loss: 0.2404, step time: 1.0145  
Batch 241/248, train_loss: 0.3611, step time: 1.0176  
Batch 242/248, train_loss: 0.1248, step time: 1.0140  
Batch 243/248, train_loss: 0.4410, step time: 1.0174  
Batch 244/248, train_loss: 0.3449, step time: 1.0140  
Batch 245/248, train_loss: 0.0591, step time: 1.0108  
Batch 246/248, train_loss: 0.5167, step time: 1.0175  
Batch 247/248, train_loss: 0.0668, step time: 1.0076  
Batch 248/248, train_loss: 0.9997, step time: 1.0050
```

Labels



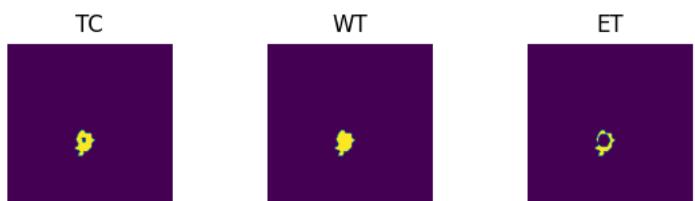
Predictions



#### VAL

```
Batch 1/31, val_loss: 0.8712  
Batch 2/31, val_loss: 0.9896  
Batch 3/31, val_loss: 0.9612  
Batch 4/31, val_loss: 0.9419  
Batch 5/31, val_loss: 0.9967  
Batch 6/31, val_loss: 0.6904  
Batch 7/31, val_loss: 0.8278  
Batch 8/31, val_loss: 0.9665  
Batch 9/31, val_loss: 0.6858  
Batch 10/31, val_loss: 0.9031  
Batch 11/31, val_loss: 0.8207  
Batch 12/31, val_loss: 0.9773  
Batch 13/31, val_loss: 0.9811  
Batch 14/31, val_loss: 0.9508  
Batch 15/31, val_loss: 0.9916  
Batch 16/31, val_loss: 0.9723  
Batch 17/31, val_loss: 0.9746  
Batch 18/31, val_loss: 0.9418  
Batch 19/31, val_loss: 0.7401  
Batch 20/31, val_loss: 0.8753  
Batch 21/31, val_loss: 0.8666  
Batch 22/31, val_loss: 0.9695  
Batch 23/31, val_loss: 0.9816  
Batch 24/31, val_loss: 0.7356  
Batch 25/31, val_loss: 0.7948  
Batch 26/31, val_loss: 0.9150  
Batch 27/31, val_loss: 0.9760  
Batch 28/31, val_loss: 0.7401  
Batch 29/31, val_loss: 0.9797  
Batch 30/31, val_loss: 0.9590  
Batch 31/31, val_loss: 0.9825
```

Labels



Predictions





```
epoch 93
  average train loss: 0.2471
  average validation loss: 0.9019
  saved as best model: False
  current mean dice: 0.5242
  current TC dice: 0.5510
  current WT dice: 0.5578
  current ET dice: 0.5075
Best Mean Metric: 0.5258
time consuming of epoch 93 is: 1585.6665
```

-----

```
epoch 94/100
```

```
TRAIN
```

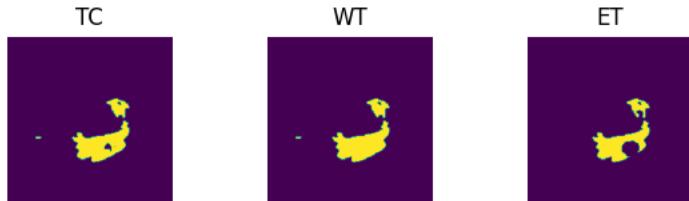
```
Batch 1/248, train_loss: 0.0775, step time: 1.0163
Batch 2/248, train_loss: 0.5520, step time: 1.0212
Batch 3/248, train_loss: 0.2404, step time: 1.0146
Batch 4/248, train_loss: 0.8083, step time: 1.0187
Batch 5/248, train_loss: 0.1613, step time: 1.0137
Batch 6/248, train_loss: 0.2831, step time: 1.0165
Batch 7/248, train_loss: 0.0578, step time: 1.0125
Batch 8/248, train_loss: 0.7071, step time: 1.0139
Batch 9/248, train_loss: 0.0346, step time: 1.0131
Batch 10/248, train_loss: 0.2023, step time: 1.0148
Batch 11/248, train_loss: 0.1361, step time: 1.0142
Batch 12/248, train_loss: 0.3365, step time: 1.0194
Batch 13/248, train_loss: 0.2893, step time: 1.0171
Batch 14/248, train_loss: 0.0564, step time: 1.0118
Batch 15/248, train_loss: 0.2798, step time: 1.0148
Batch 16/248, train_loss: 0.1414, step time: 1.0115
Batch 17/248, train_loss: 0.1922, step time: 1.0154
Batch 18/248, train_loss: 0.3634, step time: 1.0163
Batch 19/248, train_loss: 0.1032, step time: 1.0119
Batch 20/248, train_loss: 0.2008, step time: 1.0156
Batch 21/248, train_loss: 0.0656, step time: 1.0146
Batch 22/248, train_loss: 0.3022, step time: 1.0174
Batch 23/248, train_loss: 0.9971, step time: 1.0104
Batch 24/248, train_loss: 0.0794, step time: 1.0156
Batch 25/248, train_loss: 0.0550, step time: 1.0137
Batch 26/248, train_loss: 0.3517, step time: 1.0188
Batch 27/248, train_loss: 0.0670, step time: 1.0187
Batch 28/248, train_loss: 0.1913, step time: 1.0176
Batch 29/248, train_loss: 0.3281, step time: 1.0177
Batch 30/248, train_loss: 0.4625, step time: 1.0122
Batch 31/248, train_loss: 0.2469, step time: 1.0129
Batch 32/248, train_loss: 0.0671, step time: 1.0127
Batch 33/248, train_loss: 0.0711, step time: 1.0116
Batch 34/248, train_loss: 0.0459, step time: 1.0094
Batch 35/248, train_loss: 0.0410, step time: 1.0100
Batch 36/248, train_loss: 0.3465, step time: 1.0158
Batch 37/248, train_loss: 0.1344, step time: 1.0128
Batch 38/248, train_loss: 0.2346, step time: 1.0116
Batch 39/248, train_loss: 0.1603, step time: 1.0122
Batch 40/248, train_loss: 0.4958, step time: 1.0159
Batch 41/248, train_loss: 0.2309, step time: 1.0151
Batch 42/248, train_loss: 0.0624, step time: 1.0148
Batch 43/248, train_loss: 0.0504, step time: 1.0140
Batch 44/248, train_loss: 0.1981, step time: 1.0173
Batch 45/248, train_loss: 0.3443, step time: 1.0165
Batch 46/248, train_loss: 0.1931, step time: 1.0158
Batch 47/248, train_loss: 0.0955, step time: 1.0163
Batch 48/248, train_loss: 0.2613, step time: 1.0161
Batch 49/248, train_loss: 0.4180, step time: 1.0162
Batch 50/248, train_loss: 0.1221, step time: 1.0144
Batch 51/248, train_loss: 0.1115, step time: 1.0173
Batch 52/248, train_loss: 0.0908, step time: 1.0135
Batch 53/248, train_loss: 0.3901, step time: 1.0186
Batch 54/248, train_loss: 0.2172, step time: 1.0171
Batch 55/248, train_loss: 0.2394, step time: 1.0141
Batch 56/248, train_loss: 0.1965, step time: 1.0152
Batch 57/248, train_loss: 0.2774, step time: 1.0164
Batch 58/248, train_loss: 0.0779, step time: 1.0096
Batch 59/248, train_loss: 0.0771, step time: 1.0122
Batch 60/248, train_loss: 0.0494, step time: 1.0150
Batch 61/248, train_loss: 0.0903, step time: 1.0148
Batch 62/248, train_loss: 0.1961, step time: 1.0146
Batch 63/248, train_loss: 0.4335, step time: 1.0167
Batch 64/248, train_loss: 0.2930, step time: 1.0153
Batch 65/248, train_loss: 0.2386, step time: 1.0166
Batch 66/248, train_loss: 0.1156, step time: 1.0116
Batch 67/248, train_loss: 0.0690, step time: 1.0134
```

Batch 68/248, train\_loss: 0.1392, step time: 1.0200  
Batch 69/248, train\_loss: 0.2523, step time: 1.0168  
Batch 70/248, train\_loss: 0.1413, step time: 1.0169  
Batch 71/248, train\_loss: 0.1358, step time: 1.0154  
Batch 72/248, train\_loss: 0.0541, step time: 1.0141  
Batch 73/248, train\_loss: 0.1824, step time: 1.0142  
Batch 74/248, train\_loss: 0.9953, step time: 1.0105  
Batch 75/248, train\_loss: 0.1096, step time: 1.0133  
Batch 76/248, train\_loss: 0.4162, step time: 1.0180  
Batch 77/248, train\_loss: 0.7236, step time: 1.0170  
Batch 78/248, train\_loss: 0.1001, step time: 1.0143  
Batch 79/248, train\_loss: 0.1121, step time: 1.0268  
Batch 80/248, train\_loss: 0.1717, step time: 1.0184  
Batch 81/248, train\_loss: 0.1447, step time: 1.0145  
Batch 82/248, train\_loss: 0.0734, step time: 1.0096  
Batch 83/248, train\_loss: 0.4455, step time: 1.0157  
Batch 84/248, train\_loss: 0.2649, step time: 1.0163  
Batch 85/248, train\_loss: 0.2846, step time: 1.0149  
Batch 86/248, train\_loss: 0.2563, step time: 1.0135  
Batch 87/248, train\_loss: 0.4663, step time: 1.0148  
Batch 88/248, train\_loss: 0.2892, step time: 1.0132  
Batch 89/248, train\_loss: 0.0855, step time: 1.0111  
Batch 90/248, train\_loss: 0.2797, step time: 1.0149  
Batch 91/248, train\_loss: 0.3389, step time: 1.0181  
Batch 92/248, train\_loss: 0.2188, step time: 1.0156  
Batch 93/248, train\_loss: 0.1415, step time: 1.0125  
Batch 94/248, train\_loss: 0.2323, step time: 1.0213  
Batch 95/248, train\_loss: 0.1716, step time: 1.0128  
Batch 96/248, train\_loss: 0.1276, step time: 1.0187  
Batch 97/248, train\_loss: 0.2953, step time: 1.0182  
Batch 98/248, train\_loss: 0.1012, step time: 1.0152  
Batch 99/248, train\_loss: 0.2328, step time: 1.0152  
Batch 100/248, train\_loss: 0.2367, step time: 1.0164  
Batch 101/248, train\_loss: 0.0559, step time: 1.0087  
Batch 102/248, train\_loss: 0.1018, step time: 1.0159  
Batch 103/248, train\_loss: 0.2476, step time: 1.0157  
Batch 104/248, train\_loss: 0.2946, step time: 1.0152  
Batch 105/248, train\_loss: 0.0694, step time: 1.0107  
Batch 106/248, train\_loss: 0.0914, step time: 1.0139  
Batch 107/248, train\_loss: 0.1783, step time: 1.0147  
Batch 108/248, train\_loss: 0.4848, step time: 1.0158  
Batch 109/248, train\_loss: 0.8377, step time: 1.0178  
Batch 110/248, train\_loss: 0.1607, step time: 1.0175  
Batch 111/248, train\_loss: 0.0933, step time: 1.0149  
Batch 112/248, train\_loss: 0.1159, step time: 1.0161  
Batch 113/248, train\_loss: 0.8100, step time: 1.0179  
Batch 114/248, train\_loss: 0.1640, step time: 1.0169  
Batch 115/248, train\_loss: 0.2038, step time: 1.0170  
Batch 116/248, train\_loss: 0.0672, step time: 1.0137  
Batch 117/248, train\_loss: 0.6049, step time: 1.0199  
Batch 118/248, train\_loss: 0.3675, step time: 1.0167  
Batch 119/248, train\_loss: 0.2901, step time: 1.0149  
Batch 120/248, train\_loss: 0.2038, step time: 1.0141  
Batch 121/248, train\_loss: 0.2446, step time: 1.0132  
Batch 122/248, train\_loss: 0.4612, step time: 1.0148  
Batch 123/248, train\_loss: 0.0939, step time: 1.0153  
Batch 124/248, train\_loss: 0.2309, step time: 1.0156  
Batch 125/248, train\_loss: 0.4396, step time: 1.0175  
Batch 126/248, train\_loss: 0.2135, step time: 1.0160  
Batch 127/248, train\_loss: 0.1173, step time: 1.0169  
Batch 128/248, train\_loss: 0.3073, step time: 1.0188  
Batch 129/248, train\_loss: 0.1105, step time: 1.0139  
Batch 130/248, train\_loss: 0.0907, step time: 1.0149  
Batch 131/248, train\_loss: 0.4424, step time: 1.0164  
Batch 132/248, train\_loss: 0.2068, step time: 1.0157  
Batch 133/248, train\_loss: 0.1229, step time: 1.0135  
Batch 134/248, train\_loss: 0.7123, step time: 1.0175  
Batch 135/248, train\_loss: 0.2316, step time: 1.0142  
Batch 136/248, train\_loss: 0.1074, step time: 1.0160  
Batch 137/248, train\_loss: 0.1090, step time: 1.0133  
Batch 138/248, train\_loss: 0.0748, step time: 1.0209  
Batch 139/248, train\_loss: 0.2593, step time: 1.0140  
Batch 140/248, train\_loss: 0.1752, step time: 1.0162  
Batch 141/248, train\_loss: 0.2377, step time: 1.0138  
Batch 142/248, train\_loss: 0.3768, step time: 1.0140  
Batch 143/248, train\_loss: 0.1815, step time: 1.0130  
Batch 144/248, train\_loss: 0.1183, step time: 1.0132  
Batch 145/248, train\_loss: 0.0922, step time: 1.0165  
Batch 146/248, train\_loss: 0.4079, step time: 1.0165  
Batch 147/248, train\_loss: 0.0389, step time: 1.0144  
Batch 148/248, train\_loss: 0.4303, step time: 1.0154  
Batch 149/248, train\_loss: 0.1016, step time: 1.0145  
Batch 150/248, train\_loss: 0.6740, step time: 1.0144  
Batch 151/248, train\_loss: 0.2471, step time: 1.0141  
Batch 152/248, train\_loss: 0.0361, step time: 1.0103

Batch 153/248, train\_loss: 0.2689, step time: 1.0172  
Batch 154/248, train\_loss: 0.4985, step time: 1.0171  
Batch 155/248, train\_loss: 0.1211, step time: 1.0129  
Batch 156/248, train\_loss: 0.1699, step time: 1.0158  
Batch 157/248, train\_loss: 0.1840, step time: 1.0143  
Batch 158/248, train\_loss: 0.9882, step time: 1.0141  
Batch 159/248, train\_loss: 0.2966, step time: 1.0176  
Batch 160/248, train\_loss: 0.0936, step time: 1.0138  
Batch 161/248, train\_loss: 0.0876, step time: 1.0140  
Batch 162/248, train\_loss: 0.0637, step time: 1.0140  
Batch 163/248, train\_loss: 0.1480, step time: 1.0181  
Batch 164/248, train\_loss: 0.1393, step time: 1.0131  
Batch 165/248, train\_loss: 0.2605, step time: 1.0130  
Batch 166/248, train\_loss: 0.0806, step time: 1.0142  
Batch 167/248, train\_loss: 0.1559, step time: 1.0143  
Batch 168/248, train\_loss: 0.1294, step time: 1.0138  
Batch 169/248, train\_loss: 0.0813, step time: 1.0131  
Batch 170/248, train\_loss: 0.5382, step time: 1.0187  
Batch 171/248, train\_loss: 0.0776, step time: 1.0120  
Batch 172/248, train\_loss: 0.2556, step time: 1.0173  
Batch 173/248, train\_loss: 0.0786, step time: 1.0136  
Batch 174/248, train\_loss: 0.6193, step time: 1.0194  
Batch 175/248, train\_loss: 0.1505, step time: 1.0126  
Batch 176/248, train\_loss: 0.3182, step time: 1.0162  
Batch 177/248, train\_loss: 0.1748, step time: 1.0152  
Batch 178/248, train\_loss: 0.2392, step time: 1.0171  
Batch 179/248, train\_loss: 0.1022, step time: 1.0144  
Batch 180/248, train\_loss: 0.2072, step time: 1.0141  
Batch 181/248, train\_loss: 0.1208, step time: 1.0122  
Batch 182/248, train\_loss: 0.9292, step time: 1.0147  
Batch 183/248, train\_loss: 0.1008, step time: 1.0126  
Batch 184/248, train\_loss: 0.3471, step time: 1.0164  
Batch 185/248, train\_loss: 0.0771, step time: 1.0133  
Batch 186/248, train\_loss: 0.0884, step time: 1.0123  
Batch 187/248, train\_loss: 0.1562, step time: 1.0143  
Batch 188/248, train\_loss: 0.2304, step time: 1.0178  
Batch 189/248, train\_loss: 0.4570, step time: 1.0172  
Batch 190/248, train\_loss: 0.1229, step time: 1.0132  
Batch 191/248, train\_loss: 0.5557, step time: 1.0162  
Batch 192/248, train\_loss: 0.3010, step time: 1.0157  
Batch 193/248, train\_loss: 0.2234, step time: 1.0137  
Batch 194/248, train\_loss: 0.0824, step time: 1.0129  
Batch 195/248, train\_loss: 0.6315, step time: 1.0212  
Batch 196/248, train\_loss: 0.5510, step time: 1.0164  
Batch 197/248, train\_loss: 0.1469, step time: 1.0139  
Batch 198/248, train\_loss: 0.4250, step time: 1.0164  
Batch 199/248, train\_loss: 0.1216, step time: 1.0147  
Batch 200/248, train\_loss: 0.1237, step time: 1.0115  
Batch 201/248, train\_loss: 0.1145, step time: 1.0131  
Batch 202/248, train\_loss: 0.3269, step time: 1.0174  
Batch 203/248, train\_loss: 0.4186, step time: 1.0171  
Batch 204/248, train\_loss: 0.0739, step time: 1.0139  
Batch 205/248, train\_loss: 0.2123, step time: 1.0143  
Batch 206/248, train\_loss: 0.3438, step time: 1.0165  
Batch 207/248, train\_loss: 0.0770, step time: 1.0126  
Batch 208/248, train\_loss: 0.1531, step time: 1.0115  
Batch 209/248, train\_loss: 0.1478, step time: 1.0146  
Batch 210/248, train\_loss: 0.0529, step time: 1.0116  
Batch 211/248, train\_loss: 0.0576, step time: 1.0155  
Batch 212/248, train\_loss: 0.1697, step time: 1.0123  
Batch 213/248, train\_loss: 0.1288, step time: 1.0149  
Batch 214/248, train\_loss: 0.0677, step time: 1.0106  
Batch 215/248, train\_loss: 0.1528, step time: 1.0153  
Batch 216/248, train\_loss: 0.1106, step time: 1.0155  
Batch 217/248, train\_loss: 0.2882, step time: 1.0175  
Batch 218/248, train\_loss: 0.7791, step time: 1.0183  
Batch 219/248, train\_loss: 0.0524, step time: 1.0150  
Batch 220/248, train\_loss: 0.1892, step time: 1.0160  
Batch 221/248, train\_loss: 0.2499, step time: 1.0172  
Batch 222/248, train\_loss: 0.1781, step time: 1.0124  
Batch 223/248, train\_loss: 0.0392, step time: 1.0140  
Batch 224/248, train\_loss: 0.0747, step time: 1.0138  
Batch 225/248, train\_loss: 0.1395, step time: 1.0144  
Batch 226/248, train\_loss: 0.0956, step time: 1.0136  
Batch 227/248, train\_loss: 0.0842, step time: 1.0114  
Batch 228/248, train\_loss: 0.1154, step time: 1.0114  
Batch 229/248, train\_loss: 0.1043, step time: 1.0100  
Batch 230/248, train\_loss: 0.0615, step time: 1.0110  
Batch 231/248, train\_loss: 0.3618, step time: 1.0156  
Batch 232/248, train\_loss: 0.0772, step time: 1.0142  
Batch 233/248, train\_loss: 0.7286, step time: 1.0154  
Batch 234/248, train\_loss: 0.3911, step time: 1.0173  
Batch 235/248, train\_loss: 0.3696, step time: 1.0154  
Batch 236/248, train\_loss: 0.7078, step time: 1.0175  
Batch 237/248, train\_loss: 0.0915, step time: 1.0128

```
-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --  
Batch 238/248, train_loss: 0.0955, step time: 1.0184  
Batch 239/248, train_loss: 0.0541, step time: 1.0105  
Batch 240/248, train_loss: 0.2282, step time: 1.0164  
Batch 241/248, train_loss: 0.3302, step time: 1.0164  
Batch 242/248, train_loss: 0.1227, step time: 1.0120  
Batch 243/248, train_loss: 0.4063, step time: 1.0162  
Batch 244/248, train_loss: 0.3874, step time: 1.0158  
Batch 245/248, train_loss: 0.0570, step time: 1.0121  
Batch 246/248, train_loss: 0.4755, step time: 1.0158  
Batch 247/248, train_loss: 0.0773, step time: 1.0137  
Batch 248/248, train_loss: 0.9997, step time: 1.0091
```

Labels



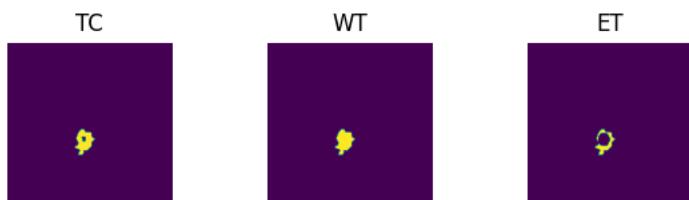
Predictions



#### VAL

```
Batch 1/31, val_loss: 0.9206  
Batch 2/31, val_loss: 0.9894  
Batch 3/31, val_loss: 0.9594  
Batch 4/31, val_loss: 0.9393  
Batch 5/31, val_loss: 0.9953  
Batch 6/31, val_loss: 0.7069  
Batch 7/31, val_loss: 0.8366  
Batch 8/31, val_loss: 0.9660  
Batch 9/31, val_loss: 0.6887  
Batch 10/31, val_loss: 0.9025  
Batch 11/31, val_loss: 0.8183  
Batch 12/31, val_loss: 0.9764  
Batch 13/31, val_loss: 0.9915  
Batch 14/31, val_loss: 0.9496  
Batch 15/31, val_loss: 0.9941  
Batch 16/31, val_loss: 0.9716  
Batch 17/31, val_loss: 0.9736  
Batch 18/31, val_loss: 0.9441  
Batch 19/31, val_loss: 0.7397  
Batch 20/31, val_loss: 0.8767  
Batch 21/31, val_loss: 0.8657  
Batch 22/31, val_loss: 0.9690  
Batch 23/31, val_loss: 0.9795  
Batch 24/31, val_loss: 0.7462  
Batch 25/31, val_loss: 0.8004  
Batch 26/31, val_loss: 0.9151  
Batch 27/31, val_loss: 0.9740  
Batch 28/31, val_loss: 0.7698  
Batch 29/31, val_loss: 0.9783  
Batch 30/31, val_loss: 0.9535  
Batch 31/31, val_loss: 0.9886
```

Labels



Predictions





epoch 94  
average train loss: 0.2412  
average validation loss: 0.9058  
saved as best model: True  
current mean dice: 0.5261  
current TC dice: 0.5490  
current WT dice: 0.5560  
current ET dice: 0.5138  
Best Mean Metric: 0.5261  
time consuming of epoch 94 is: 1585.8959

-----  
epoch 95/100  
TRAIN

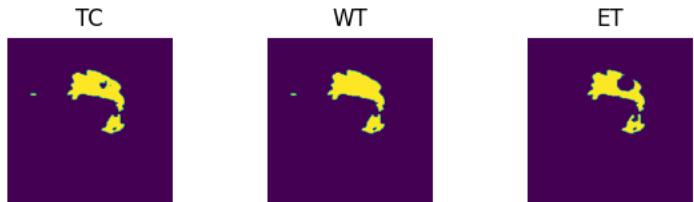
Batch 1/248, train\_loss: 0.0852, step time: 1.0134  
Batch 2/248, train\_loss: 0.5191, step time: 1.0207  
Batch 3/248, train\_loss: 0.2416, step time: 1.0171  
Batch 4/248, train\_loss: 0.7982, step time: 1.0158  
Batch 5/248, train\_loss: 0.1746, step time: 1.0097  
Batch 6/248, train\_loss: 0.3752, step time: 1.0157  
Batch 7/248, train\_loss: 0.0627, step time: 1.0131  
Batch 8/248, train\_loss: 0.6924, step time: 1.0158  
Batch 9/248, train\_loss: 0.0372, step time: 1.0151  
Batch 10/248, train\_loss: 0.2051, step time: 1.0285  
Batch 11/248, train\_loss: 0.1270, step time: 1.0149  
Batch 12/248, train\_loss: 0.3518, step time: 1.0187  
Batch 13/248, train\_loss: 0.2872, step time: 1.0203  
Batch 14/248, train\_loss: 0.0548, step time: 1.0145  
Batch 15/248, train\_loss: 0.2807, step time: 1.0139  
Batch 16/248, train\_loss: 0.1386, step time: 1.0143  
Batch 17/248, train\_loss: 0.2212, step time: 1.0155  
Batch 18/248, train\_loss: 0.3712, step time: 1.0163  
Batch 19/248, train\_loss: 0.0865, step time: 1.0117  
Batch 20/248, train\_loss: 0.1736, step time: 1.0146  
Batch 21/248, train\_loss: 0.0586, step time: 1.0131  
Batch 22/248, train\_loss: 0.5495, step time: 1.0195  
Batch 23/248, train\_loss: 0.9974, step time: 1.0098  
Batch 24/248, train\_loss: 0.0651, step time: 1.0199  
Batch 25/248, train\_loss: 0.0524, step time: 1.0143  
Batch 26/248, train\_loss: 0.3175, step time: 1.0170  
Batch 27/248, train\_loss: 0.0727, step time: 1.0124  
Batch 28/248, train\_loss: 0.1489, step time: 1.0177  
Batch 29/248, train\_loss: 0.3197, step time: 1.0200  
Batch 30/248, train\_loss: 0.4439, step time: 1.0167  
Batch 31/248, train\_loss: 0.2753, step time: 1.0170  
Batch 32/248, train\_loss: 0.0691, step time: 1.0116  
Batch 33/248, train\_loss: 0.0622, step time: 1.0143  
Batch 34/248, train\_loss: 0.0468, step time: 1.0106  
Batch 35/248, train\_loss: 0.0405, step time: 1.0146  
Batch 36/248, train\_loss: 0.3707, step time: 1.0164  
Batch 37/248, train\_loss: 0.1433, step time: 1.0100  
Batch 38/248, train\_loss: 0.2490, step time: 1.0147  
Batch 39/248, train\_loss: 0.1650, step time: 1.0139  
Batch 40/248, train\_loss: 0.4946, step time: 1.0173  
Batch 41/248, train\_loss: 0.2187, step time: 1.0172  
Batch 42/248, train\_loss: 0.0637, step time: 1.0135  
Batch 43/248, train\_loss: 0.0512, step time: 1.0143  
Batch 44/248, train\_loss: 0.3616, step time: 1.0175  
Batch 45/248, train\_loss: 0.3418, step time: 1.0141  
Batch 46/248, train\_loss: 0.1703, step time: 1.0157  
Batch 47/248, train\_loss: 0.0657, step time: 1.0122  
Batch 48/248, train\_loss: 0.2219, step time: 1.0130  
Batch 49/248, train\_loss: 0.4563, step time: 1.0222  
Batch 50/248, train\_loss: 0.1272, step time: 1.0133  
Batch 51/248, train\_loss: 0.1248, step time: 1.0182  
Batch 52/248, train\_loss: 0.0924, step time: 1.0154  
Batch 53/248, train\_loss: 0.4052, step time: 1.0178  
Batch 54/248, train\_loss: 0.2187, step time: 1.0169  
Batch 55/248, train\_loss: 0.2160, step time: 1.0176  
Batch 56/248, train\_loss: 0.1987, step time: 1.0162  
Batch 57/248, train\_loss: 0.2599, step time: 1.0138  
Batch 58/248, train\_loss: 0.0683, step time: 1.0129  
Batch 59/248, train\_loss: 0.0897, step time: 1.0136  
Batch 60/248, train\_loss: 0.0471, step time: 1.0103  
Batch 61/248, train\_loss: 0.0931, step time: 1.0128  
Batch 62/248, train\_loss: 0.1855, step time: 1.0134  
Batch 63/248, train\_loss: 0.5290, step time: 1.0137  
Batch 64/248, train\_loss: 0.2926, step time: 1.0123  
Batch 65/248, train\_loss: 0.3302, step time: 1.0164  
Batch 66/248, train\_loss: 0.1083, step time: 1.0146  
Batch 67/248, train loss: 0.0718, step time: 1.0138

Batch 68/248, train\_loss: 0.1768, step time: 1.0163  
Batch 69/248, train\_loss: 0.3095, step time: 1.0167  
Batch 70/248, train\_loss: 0.1413, step time: 1.0146  
Batch 71/248, train\_loss: 0.1492, step time: 1.0153  
Batch 72/248, train\_loss: 0.0597, step time: 1.0112  
Batch 73/248, train\_loss: 0.1349, step time: 1.0128  
Batch 74/248, train\_loss: 0.9987, step time: 1.0100  
Batch 75/248, train\_loss: 0.1154, step time: 1.0145  
Batch 76/248, train\_loss: 0.4889, step time: 1.0155  
Batch 77/248, train\_loss: 0.7196, step time: 1.0205  
Batch 78/248, train\_loss: 0.0829, step time: 1.0136  
Batch 79/248, train\_loss: 0.1327, step time: 1.0173  
Batch 80/248, train\_loss: 0.1946, step time: 1.0157  
Batch 81/248, train\_loss: 0.1713, step time: 1.0161  
Batch 82/248, train\_loss: 0.0743, step time: 1.0132  
Batch 83/248, train\_loss: 0.4786, step time: 1.0170  
Batch 84/248, train\_loss: 0.2383, step time: 1.0171  
Batch 85/248, train\_loss: 0.3027, step time: 1.0172  
Batch 86/248, train\_loss: 0.2102, step time: 1.0160  
Batch 87/248, train\_loss: 0.4323, step time: 1.0167  
Batch 88/248, train\_loss: 0.2544, step time: 1.0171  
Batch 89/248, train\_loss: 0.0891, step time: 1.0129  
Batch 90/248, train\_loss: 0.3760, step time: 1.0130  
Batch 91/248, train\_loss: 0.2796, step time: 1.0122  
Batch 92/248, train\_loss: 0.2459, step time: 1.0171  
Batch 93/248, train\_loss: 0.1316, step time: 1.0128  
Batch 94/248, train\_loss: 0.2555, step time: 1.0196  
Batch 95/248, train\_loss: 0.1605, step time: 1.0145  
Batch 96/248, train\_loss: 0.1346, step time: 1.0122  
Batch 97/248, train\_loss: 0.2975, step time: 1.0175  
Batch 98/248, train\_loss: 0.1116, step time: 1.0133  
Batch 99/248, train\_loss: 0.2795, step time: 1.0148  
Batch 100/248, train\_loss: 0.2754, step time: 1.0174  
Batch 101/248, train\_loss: 0.0551, step time: 1.0135  
Batch 102/248, train\_loss: 0.1163, step time: 1.0138  
Batch 103/248, train\_loss: 0.4375, step time: 1.0229  
Batch 104/248, train\_loss: 0.3291, step time: 1.0217  
Batch 105/248, train\_loss: 0.0728, step time: 1.0140  
Batch 106/248, train\_loss: 0.1275, step time: 1.0152  
Batch 107/248, train\_loss: 0.2578, step time: 1.0163  
Batch 108/248, train\_loss: 0.4997, step time: 1.0187  
Batch 109/248, train\_loss: 0.6642, step time: 1.0175  
Batch 110/248, train\_loss: 0.1649, step time: 1.0134  
Batch 111/248, train\_loss: 0.1425, step time: 1.0168  
Batch 112/248, train\_loss: 0.1671, step time: 1.0165  
Batch 113/248, train\_loss: 0.7937, step time: 1.0158  
Batch 114/248, train\_loss: 0.1769, step time: 1.0119  
Batch 115/248, train\_loss: 0.1247, step time: 1.0104  
Batch 116/248, train\_loss: 0.0735, step time: 1.0153  
Batch 117/248, train\_loss: 0.4235, step time: 1.0178  
Batch 118/248, train\_loss: 0.3481, step time: 1.0147  
Batch 119/248, train\_loss: 0.2905, step time: 1.0149  
Batch 120/248, train\_loss: 0.1977, step time: 1.0126  
Batch 121/248, train\_loss: 0.2745, step time: 1.0140  
Batch 122/248, train\_loss: 0.3507, step time: 1.0123  
Batch 123/248, train\_loss: 0.0807, step time: 1.0156  
Batch 124/248, train\_loss: 0.2451, step time: 1.0147  
Batch 125/248, train\_loss: 0.5484, step time: 1.0208  
Batch 126/248, train\_loss: 0.2026, step time: 1.0154  
Batch 127/248, train\_loss: 0.1325, step time: 1.0187  
Batch 128/248, train\_loss: 0.2349, step time: 1.0187  
Batch 129/248, train\_loss: 0.1029, step time: 1.0149  
Batch 130/248, train\_loss: 0.0838, step time: 1.0097  
Batch 131/248, train\_loss: 0.3988, step time: 1.0161  
Batch 132/248, train\_loss: 0.1576, step time: 1.0144  
Batch 133/248, train\_loss: 0.1397, step time: 1.0121  
Batch 134/248, train\_loss: 0.5594, step time: 1.0165  
Batch 135/248, train\_loss: 0.2563, step time: 1.0177  
Batch 136/248, train\_loss: 0.1034, step time: 1.0150  
Batch 137/248, train\_loss: 0.1017, step time: 1.0090  
Batch 138/248, train\_loss: 0.0678, step time: 1.0129  
Batch 139/248, train\_loss: 0.1664, step time: 1.0126  
Batch 140/248, train\_loss: 0.1989, step time: 1.0162  
Batch 141/248, train\_loss: 0.1470, step time: 1.0135  
Batch 142/248, train\_loss: 0.3773, step time: 1.0130  
Batch 143/248, train\_loss: 0.1972, step time: 1.0149  
Batch 144/248, train\_loss: 0.1273, step time: 1.0119  
Batch 145/248, train\_loss: 0.0873, step time: 1.0153  
Batch 146/248, train\_loss: 0.4364, step time: 1.0172  
Batch 147/248, train\_loss: 0.0375, step time: 1.0093  
Batch 148/248, train\_loss: 0.5128, step time: 1.0180  
Batch 149/248, train\_loss: 0.1027, step time: 1.0121  
Batch 150/248, train\_loss: 0.6312, step time: 1.0159  
Batch 151/248, train\_loss: 0.2445, step time: 1.0143  
Batch 152/248, train\_loss: 0.0393, step time: 1.0111

Batch 122/248, train\_loss: 0.0559, step time: 1.0111  
Batch 153/248, train\_loss: 0.2311, step time: 1.0182  
Batch 154/248, train\_loss: 0.4804, step time: 1.0176  
Batch 155/248, train\_loss: 0.0996, step time: 1.0197  
Batch 156/248, train\_loss: 0.2596, step time: 1.0196  
Batch 157/248, train\_loss: 0.1775, step time: 1.0153  
Batch 158/248, train\_loss: 0.9788, step time: 1.0124  
Batch 159/248, train\_loss: 0.2968, step time: 1.0191  
Batch 160/248, train\_loss: 0.0816, step time: 1.0138  
Batch 161/248, train\_loss: 0.0847, step time: 1.0158  
Batch 162/248, train\_loss: 0.0697, step time: 1.0151  
Batch 163/248, train\_loss: 0.0973, step time: 1.0139  
Batch 164/248, train\_loss: 0.1398, step time: 1.0152  
Batch 165/248, train\_loss: 0.2750, step time: 1.0131  
Batch 166/248, train\_loss: 0.0686, step time: 1.0134  
Batch 167/248, train\_loss: 0.1614, step time: 1.0147  
Batch 168/248, train\_loss: 0.1271, step time: 1.0141  
Batch 169/248, train\_loss: 0.0993, step time: 1.0146  
Batch 170/248, train\_loss: 0.5174, step time: 1.0161  
Batch 171/248, train\_loss: 0.0813, step time: 1.0119  
Batch 172/248, train\_loss: 0.2541, step time: 1.0148  
Batch 173/248, train\_loss: 0.0807, step time: 1.0154  
Batch 174/248, train\_loss: 0.6148, step time: 1.0175  
Batch 175/248, train\_loss: 0.1351, step time: 1.0142  
Batch 176/248, train\_loss: 0.3122, step time: 1.0161  
Batch 177/248, train\_loss: 0.2149, step time: 1.0199  
Batch 178/248, train\_loss: 0.2556, step time: 1.0175  
Batch 179/248, train\_loss: 0.0912, step time: 1.0149  
Batch 180/248, train\_loss: 0.1388, step time: 1.0153  
Batch 181/248, train\_loss: 0.1208, step time: 1.0141  
Batch 182/248, train\_loss: 0.8998, step time: 1.0141  
Batch 183/248, train\_loss: 0.1165, step time: 1.0168  
Batch 184/248, train\_loss: 0.2453, step time: 1.0153  
Batch 185/248, train\_loss: 0.0829, step time: 1.0146  
Batch 186/248, train\_loss: 0.0913, step time: 1.0136  
Batch 187/248, train\_loss: 0.1537, step time: 1.0148  
Batch 188/248, train\_loss: 0.2433, step time: 1.0145  
Batch 189/248, train\_loss: 0.4106, step time: 1.0126  
Batch 190/248, train\_loss: 0.1162, step time: 1.0150  
Batch 191/248, train\_loss: 0.6030, step time: 1.0185  
Batch 192/248, train\_loss: 0.2427, step time: 1.0139  
Batch 193/248, train\_loss: 0.2348, step time: 1.0117  
Batch 194/248, train\_loss: 0.0824, step time: 1.0136  
Batch 195/248, train\_loss: 0.5543, step time: 1.0149  
Batch 196/248, train\_loss: 0.6372, step time: 1.0175  
Batch 197/248, train\_loss: 0.1501, step time: 1.0157  
Batch 198/248, train\_loss: 0.4545, step time: 1.0171  
Batch 199/248, train\_loss: 0.1329, step time: 1.0162  
Batch 200/248, train\_loss: 0.1131, step time: 1.0161  
Batch 201/248, train\_loss: 0.1186, step time: 1.0152  
Batch 202/248, train\_loss: 0.3167, step time: 1.0147  
Batch 203/248, train\_loss: 0.5237, step time: 1.0151  
Batch 204/248, train\_loss: 0.0930, step time: 1.0130  
Batch 205/248, train\_loss: 0.2194, step time: 1.0130  
Batch 206/248, train\_loss: 0.3579, step time: 1.0164  
Batch 207/248, train\_loss: 0.0893, step time: 1.0166  
Batch 208/248, train\_loss: 0.1100, step time: 1.0139  
Batch 209/248, train\_loss: 0.1854, step time: 1.0149  
Batch 210/248, train\_loss: 0.0578, step time: 1.0128  
Batch 211/248, train\_loss: 0.0612, step time: 1.0139  
Batch 212/248, train\_loss: 0.2367, step time: 1.0146  
Batch 213/248, train\_loss: 0.1940, step time: 1.0171  
Batch 214/248, train\_loss: 0.0682, step time: 1.0120  
Batch 215/248, train\_loss: 0.1475, step time: 1.0165  
Batch 216/248, train\_loss: 0.1252, step time: 1.0144  
Batch 217/248, train\_loss: 0.2312, step time: 1.0181  
Batch 218/248, train\_loss: 0.7143, step time: 1.0187  
Batch 219/248, train\_loss: 0.0587, step time: 1.0173  
Batch 220/248, train\_loss: 0.1860, step time: 1.0141  
Batch 221/248, train\_loss: 0.2419, step time: 1.0127  
Batch 222/248, train\_loss: 0.2129, step time: 1.0133  
Batch 223/248, train\_loss: 0.0403, step time: 1.0074  
Batch 224/248, train\_loss: 0.0960, step time: 1.0148  
Batch 225/248, train\_loss: 0.1833, step time: 1.0182  
Batch 226/248, train\_loss: 0.1682, step time: 1.0136  
Batch 227/248, train\_loss: 0.0971, step time: 1.0086  
Batch 228/248, train\_loss: 0.1458, step time: 1.0149  
Batch 229/248, train\_loss: 0.1078, step time: 1.0154  
Batch 230/248, train\_loss: 0.0709, step time: 1.0130  
Batch 231/248, train\_loss: 0.2552, step time: 1.0165  
Batch 232/248, train\_loss: 0.0847, step time: 1.0134  
Batch 233/248, train\_loss: 0.7490, step time: 1.0169  
Batch 234/248, train\_loss: 0.4151, step time: 1.0162  
Batch 235/248, train\_loss: 0.2292, step time: 1.0141  
Batch 236/248, train\_loss: 0.6814, step time: 1.0165  
- - - - -

```
Batch 237/248, train_loss: 0.0992, step time: 1.0137  
Batch 238/248, train_loss: 0.0756, step time: 1.0146  
Batch 239/248, train_loss: 0.0849, step time: 1.0149  
Batch 240/248, train_loss: 0.2953, step time: 1.0164  
Batch 241/248, train_loss: 0.4201, step time: 1.0185  
Batch 242/248, train_loss: 0.1539, step time: 1.0132  
Batch 243/248, train_loss: 0.4629, step time: 1.0160  
Batch 244/248, train_loss: 0.4402, step time: 1.0161  
Batch 245/248, train_loss: 0.0593, step time: 1.0082  
Batch 246/248, train_loss: 0.4578, step time: 1.0147  
Batch 247/248, train_loss: 0.0722, step time: 1.0122  
Batch 248/248, train_loss: 0.9993, step time: 1.0129
```

Labels



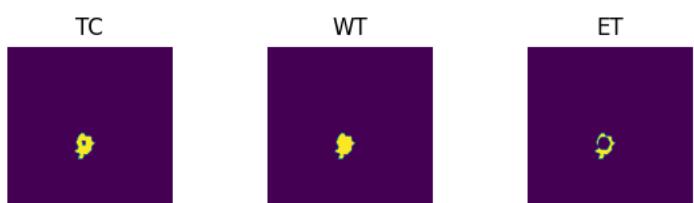
Predictions



VAL

```
Batch 1/31, val_loss: 0.8883  
Batch 2/31, val_loss: 0.9904  
Batch 3/31, val_loss: 0.9607  
Batch 4/31, val_loss: 0.9402  
Batch 5/31, val_loss: 0.9962  
Batch 6/31, val_loss: 0.6986  
Batch 7/31, val_loss: 0.8331  
Batch 8/31, val_loss: 0.9638  
Batch 9/31, val_loss: 0.6874  
Batch 10/31, val_loss: 0.9033  
Batch 11/31, val_loss: 0.8213  
Batch 12/31, val_loss: 0.9782  
Batch 13/31, val_loss: 0.9867  
Batch 14/31, val_loss: 0.9489  
Batch 15/31, val_loss: 0.9922  
Batch 16/31, val_loss: 0.9708  
Batch 17/31, val_loss: 0.9737  
Batch 18/31, val_loss: 0.9445  
Batch 19/31, val_loss: 0.7418  
Batch 20/31, val_loss: 0.8746  
Batch 21/31, val_loss: 0.8607  
Batch 22/31, val_loss: 0.9718  
Batch 23/31, val_loss: 0.9811  
Batch 24/31, val_loss: 0.7453  
Batch 25/31, val_loss: 0.7951  
Batch 26/31, val_loss: 0.9144  
Batch 27/31, val_loss: 0.9716  
Batch 28/31, val_loss: 0.7632  
Batch 29/31, val_loss: 0.9787  
Batch 30/31, val_loss: 0.9551  
Batch 31/31, val_loss: 0.9801
```

Labels



Predictions





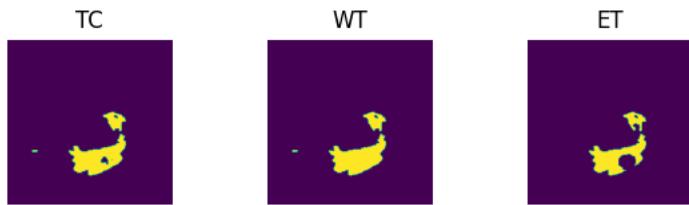
```
epoch 95
average train loss: 0.2442
average validation loss: 0.9036
saved as best model: True
current mean dice: 0.5477
current TC dice: 0.5716
current WT dice: 0.5823
current ET dice: 0.5338
Best Mean Metric: 0.5477
time consuming of epoch 95 is: 1582.5822
-----
epoch 96/100
TRAIN
Batch 1/248, train_loss: 0.0748, step time: 1.0162
Batch 2/248, train_loss: 0.5820, step time: 1.0165
Batch 3/248, train_loss: 0.2192, step time: 1.0147
Batch 4/248, train_loss: 0.7609, step time: 1.0161
Batch 5/248, train_loss: 0.1778, step time: 1.0125
Batch 6/248, train_loss: 0.2379, step time: 1.0172
Batch 7/248, train_loss: 0.0546, step time: 1.0100
Batch 8/248, train_loss: 0.7017, step time: 1.0155
Batch 9/248, train_loss: 0.0464, step time: 1.0144
Batch 10/248, train_loss: 0.2127, step time: 1.0142
Batch 11/248, train_loss: 0.1277, step time: 1.0222
Batch 12/248, train_loss: 0.3566, step time: 1.0174
Batch 13/248, train_loss: 0.2606, step time: 1.0157
Batch 14/248, train_loss: 0.0543, step time: 1.0136
Batch 15/248, train_loss: 0.2954, step time: 1.0151
Batch 16/248, train_loss: 0.1483, step time: 1.0148
Batch 17/248, train_loss: 0.1813, step time: 1.0143
Batch 18/248, train_loss: 0.3385, step time: 1.0182
Batch 19/248, train_loss: 0.0832, step time: 1.0132
Batch 20/248, train_loss: 0.1478, step time: 1.0142
Batch 21/248, train_loss: 0.0595, step time: 1.0145
Batch 22/248, train_loss: 0.3596, step time: 1.0173
Batch 23/248, train_loss: 0.9972, step time: 1.0119
Batch 24/248, train_loss: 0.0740, step time: 1.0101
Batch 25/248, train_loss: 0.0539, step time: 1.0125
Batch 26/248, train_loss: 0.3301, step time: 1.0164
Batch 27/248, train_loss: 0.0715, step time: 1.0132
Batch 28/248, train_loss: 0.1483, step time: 1.0140
Batch 29/248, train_loss: 0.2971, step time: 1.0169
Batch 30/248, train_loss: 0.6421, step time: 1.0199
Batch 31/248, train_loss: 0.2869, step time: 1.0160
Batch 32/248, train_loss: 0.0763, step time: 1.0113
Batch 33/248, train_loss: 0.0647, step time: 1.0146
Batch 34/248, train_loss: 0.0447, step time: 1.0139
Batch 35/248, train_loss: 0.0376, step time: 1.0102
Batch 36/248, train_loss: 0.3354, step time: 1.0154
Batch 37/248, train_loss: 0.1476, step time: 1.0115
Batch 38/248, train_loss: 0.2619, step time: 1.0152
Batch 39/248, train_loss: 0.1789, step time: 1.0145
Batch 40/248, train_loss: 0.5110, step time: 1.0138
Batch 41/248, train_loss: 0.2094, step time: 1.0219
Batch 42/248, train_loss: 0.0567, step time: 1.0137
Batch 43/248, train_loss: 0.0576, step time: 1.0128
Batch 44/248, train_loss: 0.3652, step time: 1.0177
Batch 45/248, train_loss: 0.3385, step time: 1.0148
Batch 46/248, train_loss: 0.1509, step time: 1.0183
Batch 47/248, train_loss: 0.0621, step time: 1.0160
Batch 48/248, train_loss: 0.2279, step time: 1.0158
Batch 49/248, train_loss: 0.4364, step time: 1.0170
Batch 50/248, train_loss: 0.1174, step time: 1.0184
Batch 51/248, train_loss: 0.1316, step time: 1.0171
Batch 52/248, train_loss: 0.0933, step time: 1.0162
Batch 53/248, train_loss: 0.4186, step time: 1.0162
Batch 54/248, train_loss: 0.2170, step time: 1.0151
Batch 55/248, train_loss: 0.2725, step time: 1.0151
Batch 56/248, train_loss: 0.2054, step time: 1.0157
Batch 57/248, train_loss: 0.2523, step time: 1.0156
Batch 58/248, train_loss: 0.0847, step time: 1.0151
Batch 59/248, train_loss: 0.0975, step time: 1.0122
Batch 60/248, train_loss: 0.0465, step time: 1.0142
Batch 61/248, train_loss: 0.0878, step time: 1.0143
Batch 62/248, train_loss: 0.2189, step time: 1.0134
Batch 63/248, train_loss: 0.6197, step time: 1.0145
Batch 64/248, train_loss: 0.3024, step time: 1.0161
Batch 65/248, train_loss: 0.3030, step time: 1.0160
Batch 66/248, train_loss: 0.1090, step time: 1.0155
Batch 67/248, train_loss: 0.2670, step time: 1.0125
```

Batch 0/248, train\_loss: 0.0079, step time: 1.0123  
Batch 68/248, train\_loss: 0.1643, step time: 1.0173  
Batch 69/248, train\_loss: 0.2619, step time: 1.0175  
Batch 70/248, train\_loss: 0.1352, step time: 1.0138  
Batch 71/248, train\_loss: 0.1657, step time: 1.0167  
Batch 72/248, train\_loss: 0.0546, step time: 1.0129  
Batch 73/248, train\_loss: 0.6752, step time: 1.0176  
Batch 74/248, train\_loss: 0.9941, step time: 1.0118  
Batch 75/248, train\_loss: 0.1168, step time: 1.0152  
Batch 76/248, train\_loss: 0.4487, step time: 1.0182  
Batch 77/248, train\_loss: 0.7406, step time: 1.0168  
Batch 78/248, train\_loss: 0.0976, step time: 1.0119  
Batch 79/248, train\_loss: 0.1140, step time: 1.0149  
Batch 80/248, train\_loss: 0.1871, step time: 1.0141  
Batch 81/248, train\_loss: 0.1867, step time: 1.0186  
Batch 82/248, train\_loss: 0.0767, step time: 1.0127  
Batch 83/248, train\_loss: 0.4329, step time: 1.0146  
Batch 84/248, train\_loss: 0.2553, step time: 1.0126  
Batch 85/248, train\_loss: 0.2701, step time: 1.0160  
Batch 86/248, train\_loss: 0.2637, step time: 1.0121  
Batch 87/248, train\_loss: 0.3846, step time: 1.0163  
Batch 88/248, train\_loss: 0.2693, step time: 1.0149  
Batch 89/248, train\_loss: 0.0912, step time: 1.0185  
Batch 90/248, train\_loss: 0.4771, step time: 1.0167  
Batch 91/248, train\_loss: 0.2875, step time: 1.0181  
Batch 92/248, train\_loss: 0.2183, step time: 1.0176  
Batch 93/248, train\_loss: 0.1542, step time: 1.0163  
Batch 94/248, train\_loss: 0.2613, step time: 1.0177  
Batch 95/248, train\_loss: 0.1768, step time: 1.0156  
Batch 96/248, train\_loss: 0.1576, step time: 1.0193  
Batch 97/248, train\_loss: 0.3183, step time: 1.0152  
Batch 98/248, train\_loss: 0.1104, step time: 1.0133  
Batch 99/248, train\_loss: 0.2882, step time: 1.0122  
Batch 100/248, train\_loss: 0.2093, step time: 1.0161  
Batch 101/248, train\_loss: 0.0569, step time: 1.0111  
Batch 102/248, train\_loss: 0.1121, step time: 1.0119  
Batch 103/248, train\_loss: 0.3036, step time: 1.0176  
Batch 104/248, train\_loss: 0.3153, step time: 1.0151  
Batch 105/248, train\_loss: 0.0701, step time: 1.0193  
Batch 106/248, train\_loss: 0.1487, step time: 1.0169  
Batch 107/248, train\_loss: 0.2031, step time: 1.0156  
Batch 108/248, train\_loss: 0.6483, step time: 1.0154  
Batch 109/248, train\_loss: 0.6964, step time: 1.0172  
Batch 110/248, train\_loss: 0.1670, step time: 1.0158  
Batch 111/248, train\_loss: 0.0910, step time: 1.0146  
Batch 112/248, train\_loss: 0.1161, step time: 1.0175  
Batch 113/248, train\_loss: 0.8582, step time: 1.0177  
Batch 114/248, train\_loss: 0.1391, step time: 1.0138  
Batch 115/248, train\_loss: 0.1502, step time: 1.0150  
Batch 116/248, train\_loss: 0.0732, step time: 1.0124  
Batch 117/248, train\_loss: 0.4483, step time: 1.0179  
Batch 118/248, train\_loss: 0.4073, step time: 1.0198  
Batch 119/248, train\_loss: 0.3374, step time: 1.0120  
Batch 120/248, train\_loss: 0.2320, step time: 1.0167  
Batch 121/248, train\_loss: 0.2482, step time: 1.0146  
Batch 122/248, train\_loss: 0.3760, step time: 1.0163  
Batch 123/248, train\_loss: 0.1000, step time: 1.0153  
Batch 124/248, train\_loss: 0.2915, step time: 1.0160  
Batch 125/248, train\_loss: 0.4782, step time: 1.0182  
Batch 126/248, train\_loss: 0.2171, step time: 1.0189  
Batch 127/248, train\_loss: 0.1172, step time: 1.0166  
Batch 128/248, train\_loss: 0.2545, step time: 1.0148  
Batch 129/248, train\_loss: 0.1202, step time: 1.0135  
Batch 130/248, train\_loss: 0.0908, step time: 1.0131  
Batch 131/248, train\_loss: 0.3750, step time: 1.0155  
Batch 132/248, train\_loss: 0.2006, step time: 1.0158  
Batch 133/248, train\_loss: 0.1365, step time: 1.0124  
Batch 134/248, train\_loss: 0.5940, step time: 1.0219  
Batch 135/248, train\_loss: 0.2270, step time: 1.0188  
Batch 136/248, train\_loss: 0.0982, step time: 1.0131  
Batch 137/248, train\_loss: 0.1163, step time: 1.0122  
Batch 138/248, train\_loss: 0.0690, step time: 1.0145  
Batch 139/248, train\_loss: 0.2276, step time: 1.0164  
Batch 140/248, train\_loss: 0.1655, step time: 1.0176  
Batch 141/248, train\_loss: 0.1490, step time: 1.0153  
Batch 142/248, train\_loss: 0.3784, step time: 1.0181  
Batch 143/248, train\_loss: 0.1835, step time: 1.0156  
Batch 144/248, train\_loss: 0.1176, step time: 1.0155  
Batch 145/248, train\_loss: 0.0760, step time: 1.0129  
Batch 146/248, train\_loss: 0.2617, step time: 1.0153  
Batch 147/248, train\_loss: 0.0374, step time: 1.0126  
Batch 148/248, train\_loss: 0.5011, step time: 1.0198  
Batch 149/248, train\_loss: 0.1002, step time: 1.0151  
Batch 150/248, train\_loss: 0.6683, step time: 1.0153  
Batch 151/248, train\_loss: 0.2931, step time: 1.0130

Batch 152/248, train\_loss: 0.0344, step time: 1.0094  
Batch 153/248, train\_loss: 0.1431, step time: 1.0143  
Batch 154/248, train\_loss: 0.4789, step time: 1.0163  
Batch 155/248, train\_loss: 0.1103, step time: 1.0175  
Batch 156/248, train\_loss: 0.1725, step time: 1.0170  
Batch 157/248, train\_loss: 0.2015, step time: 1.0172  
Batch 158/248, train\_loss: 0.9871, step time: 1.0138  
Batch 159/248, train\_loss: 0.2625, step time: 1.0179  
Batch 160/248, train\_loss: 0.0855, step time: 1.0142  
Batch 161/248, train\_loss: 0.0695, step time: 1.0126  
Batch 162/248, train\_loss: 0.0713, step time: 1.0163  
Batch 163/248, train\_loss: 0.1076, step time: 1.0147  
Batch 164/248, train\_loss: 0.1510, step time: 1.0152  
Batch 165/248, train\_loss: 0.2581, step time: 1.0143  
Batch 166/248, train\_loss: 0.0734, step time: 1.0135  
Batch 167/248, train\_loss: 0.1726, step time: 1.0170  
Batch 168/248, train\_loss: 0.1284, step time: 1.0145  
Batch 169/248, train\_loss: 0.0850, step time: 1.0143  
Batch 170/248, train\_loss: 0.5747, step time: 1.0144  
Batch 171/248, train\_loss: 0.0764, step time: 1.0126  
Batch 172/248, train\_loss: 0.3103, step time: 1.0178  
Batch 173/248, train\_loss: 0.0682, step time: 1.0141  
Batch 174/248, train\_loss: 0.7499, step time: 1.0197  
Batch 175/248, train\_loss: 0.1450, step time: 1.0132  
Batch 176/248, train\_loss: 0.3317, step time: 1.0139  
Batch 177/248, train\_loss: 0.1638, step time: 1.0119  
Batch 178/248, train\_loss: 0.2645, step time: 1.0148  
Batch 179/248, train\_loss: 0.0931, step time: 1.0147  
Batch 180/248, train\_loss: 0.1446, step time: 1.0177  
Batch 181/248, train\_loss: 0.1338, step time: 1.0138  
Batch 182/248, train\_loss: 0.9446, step time: 1.0146  
Batch 183/248, train\_loss: 0.1100, step time: 1.0156  
Batch 184/248, train\_loss: 0.1912, step time: 1.0145  
Batch 185/248, train\_loss: 0.0833, step time: 1.0156  
Batch 186/248, train\_loss: 0.0773, step time: 1.0139  
Batch 187/248, train\_loss: 0.1713, step time: 1.0133  
Batch 188/248, train\_loss: 0.2563, step time: 1.0196  
Batch 189/248, train\_loss: 0.3476, step time: 1.0167  
Batch 190/248, train\_loss: 0.1274, step time: 1.0142  
Batch 191/248, train\_loss: 0.5505, step time: 1.0142  
Batch 192/248, train\_loss: 0.2867, step time: 1.0146  
Batch 193/248, train\_loss: 0.2713, step time: 1.0150  
Batch 194/248, train\_loss: 0.0856, step time: 1.0148  
Batch 195/248, train\_loss: 0.5541, step time: 1.0141  
Batch 196/248, train\_loss: 0.5715, step time: 1.0171  
Batch 197/248, train\_loss: 0.1510, step time: 1.0178  
Batch 198/248, train\_loss: 0.8005, step time: 1.0183  
Batch 199/248, train\_loss: 0.1142, step time: 1.0167  
Batch 200/248, train\_loss: 0.1193, step time: 1.0188  
Batch 201/248, train\_loss: 0.1176, step time: 1.0148  
Batch 202/248, train\_loss: 0.3152, step time: 1.0169  
Batch 203/248, train\_loss: 0.4394, step time: 1.0155  
Batch 204/248, train\_loss: 0.0933, step time: 1.0148  
Batch 205/248, train\_loss: 0.2053, step time: 1.0101  
Batch 206/248, train\_loss: 0.2378, step time: 1.0191  
Batch 207/248, train\_loss: 0.0674, step time: 1.0140  
Batch 208/248, train\_loss: 0.1356, step time: 1.0149  
Batch 209/248, train\_loss: 0.1651, step time: 1.0177  
Batch 210/248, train\_loss: 0.0529, step time: 1.0109  
Batch 211/248, train\_loss: 0.0615, step time: 1.0136  
Batch 212/248, train\_loss: 0.2990, step time: 1.0140  
Batch 213/248, train\_loss: 0.1340, step time: 1.0147  
Batch 214/248, train\_loss: 0.0636, step time: 1.0159  
Batch 215/248, train\_loss: 0.1389, step time: 1.0171  
Batch 216/248, train\_loss: 0.1328, step time: 1.0124  
Batch 217/248, train\_loss: 0.2339, step time: 1.0144  
Batch 218/248, train\_loss: 0.7341, step time: 1.0215  
Batch 219/248, train\_loss: 0.0629, step time: 1.0173  
Batch 220/248, train\_loss: 0.1723, step time: 1.0145  
Batch 221/248, train\_loss: 0.2599, step time: 1.0127  
Batch 222/248, train\_loss: 0.1885, step time: 1.0173  
Batch 223/248, train\_loss: 0.0402, step time: 1.0117  
Batch 224/248, train\_loss: 0.0814, step time: 1.0141  
Batch 225/248, train\_loss: 0.1414, step time: 1.0159  
Batch 226/248, train\_loss: 0.0994, step time: 1.0189  
Batch 227/248, train\_loss: 0.0829, step time: 1.0112  
Batch 228/248, train\_loss: 0.1296, step time: 1.0138  
Batch 229/248, train\_loss: 0.1017, step time: 1.0133  
Batch 230/248, train\_loss: 0.0622, step time: 1.0105  
Batch 231/248, train\_loss: 0.2331, step time: 1.0158  
Batch 232/248, train\_loss: 0.0723, step time: 1.0161  
Batch 233/248, train\_loss: 0.7272, step time: 1.0166  
Batch 234/248, train\_loss: 0.3799, step time: 1.0169  
Batch 235/248, train\_loss: 0.2798, step time: 1.0146  
Batch 236/248, train\_loss: 0.6765, step time: 1.0156

```
Batch 237/248, train_loss: 0.0916, step time: 1.0138
Batch 238/248, train_loss: 0.0918, step time: 1.0152
Batch 239/248, train_loss: 0.0561, step time: 1.0217
Batch 240/248, train_loss: 0.2410, step time: 1.0184
Batch 241/248, train_loss: 0.3503, step time: 1.0164
Batch 242/248, train_loss: 0.1279, step time: 1.0141
Batch 243/248, train_loss: 0.4208, step time: 1.0172
Batch 244/248, train_loss: 0.4159, step time: 1.0166
Batch 245/248, train_loss: 0.0599, step time: 1.0118
Batch 246/248, train_loss: 0.5188, step time: 1.0172
Batch 247/248, train_loss: 0.0697, step time: 1.0119
Batch 248/248, train_loss: 0.9995, step time: 1.0099
```

Labels



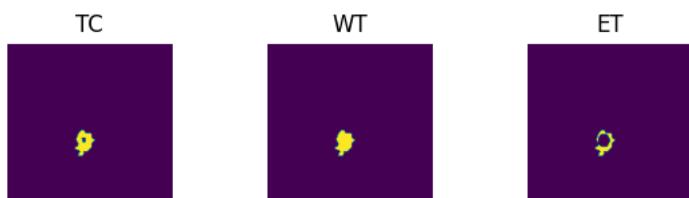
Predictions



VAL

```
Batch 1/31, val_loss: 0.8796
Batch 2/31, val_loss: 0.9899
Batch 3/31, val_loss: 0.9609
Batch 4/31, val_loss: 0.9332
Batch 5/31, val_loss: 0.9943
Batch 6/31, val_loss: 0.6918
Batch 7/31, val_loss: 0.8257
Batch 8/31, val_loss: 0.9658
Batch 9/31, val_loss: 0.6899
Batch 10/31, val_loss: 0.9019
Batch 11/31, val_loss: 0.8223
Batch 12/31, val_loss: 0.9761
Batch 13/31, val_loss: 0.9857
Batch 14/31, val_loss: 0.9500
Batch 15/31, val_loss: 0.9919
Batch 16/31, val_loss: 0.9720
Batch 17/31, val_loss: 0.9729
Batch 18/31, val_loss: 0.9397
Batch 19/31, val_loss: 0.7372
Batch 20/31, val_loss: 0.8708
Batch 21/31, val_loss: 0.8592
Batch 22/31, val_loss: 0.9703
Batch 23/31, val_loss: 0.9875
Batch 24/31, val_loss: 0.7431
Batch 25/31, val_loss: 0.7947
Batch 26/31, val_loss: 0.9141
Batch 27/31, val_loss: 0.9708
Batch 28/31, val_loss: 0.7418
Batch 29/31, val_loss: 0.9789
Batch 30/31, val_loss: 0.9561
Batch 31/31, val_loss: 0.9857
```

Labels



Predictions





```
epoch 96
  average train loss: 0.2452
  average validation loss: 0.9017
  saved as best model: False
  current mean dice: 0.5239
  current TC dice: 0.5484
  current WT dice: 0.5557
  current ET dice: 0.5096
Best Mean Metric: 0.5477
time consuming of epoch 96 is: 1584.3608
```

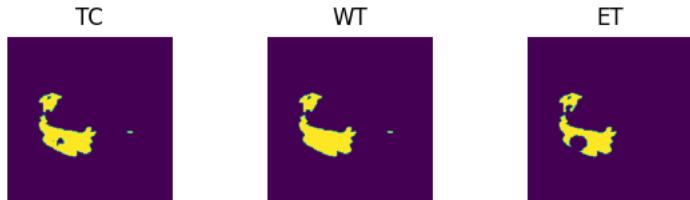
```
-----  
epoch 97/100
TRAIN
  Batch 1/248, train_loss: 0.0662, step time: 1.0143
  Batch 2/248, train_loss: 0.6163, step time: 1.0186
  Batch 3/248, train_loss: 0.2286, step time: 1.0122
  Batch 4/248, train_loss: 0.8643, step time: 1.0165
  Batch 5/248, train_loss: 0.1701, step time: 1.0135
  Batch 6/248, train_loss: 0.2605, step time: 1.0150
  Batch 7/248, train_loss: 0.0704, step time: 1.0108
  Batch 8/248, train_loss: 0.6985, step time: 1.0155
  Batch 9/248, train_loss: 0.0357, step time: 1.0123
  Batch 10/248, train_loss: 0.2213, step time: 1.0184
  Batch 11/248, train_loss: 0.1303, step time: 1.0165
  Batch 12/248, train_loss: 0.3180, step time: 1.0224
  Batch 13/248, train_loss: 0.3301, step time: 1.0231
  Batch 14/248, train_loss: 0.0550, step time: 1.0124
  Batch 15/248, train_loss: 0.2982, step time: 1.0135
  Batch 16/248, train_loss: 0.1372, step time: 1.0161
  Batch 17/248, train_loss: 0.2522, step time: 1.0171
  Batch 18/248, train_loss: 0.3257, step time: 1.0158
  Batch 19/248, train_loss: 0.0877, step time: 1.0114
  Batch 20/248, train_loss: 0.2008, step time: 1.0150
  Batch 21/248, train_loss: 0.0583, step time: 1.0156
  Batch 22/248, train_loss: 0.4405, step time: 1.0157
  Batch 23/248, train_loss: 0.9976, step time: 1.0079
  Batch 24/248, train_loss: 0.0743, step time: 1.0145
  Batch 25/248, train_loss: 0.0551, step time: 1.0111
  Batch 26/248, train_loss: 0.3026, step time: 1.0236
  Batch 27/248, train_loss: 0.0673, step time: 1.0128
  Batch 28/248, train_loss: 0.1501, step time: 1.0180
  Batch 29/248, train_loss: 0.3847, step time: 1.0166
  Batch 30/248, train_loss: 0.1945, step time: 1.0157
  Batch 31/248, train_loss: 0.2601, step time: 1.0148
  Batch 32/248, train_loss: 0.0646, step time: 1.0108
  Batch 33/248, train_loss: 0.0672, step time: 1.0119
  Batch 34/248, train_loss: 0.0471, step time: 1.0188
  Batch 35/248, train_loss: 0.0366, step time: 1.0094
  Batch 36/248, train_loss: 0.3780, step time: 1.0152
  Batch 37/248, train_loss: 0.1393, step time: 1.0124
  Batch 38/248, train_loss: 0.2489, step time: 1.0140
  Batch 39/248, train_loss: 0.1654, step time: 1.0139
  Batch 40/248, train_loss: 0.4610, step time: 1.0158
  Batch 41/248, train_loss: 0.2347, step time: 1.0147
  Batch 42/248, train_loss: 0.0602, step time: 1.0132
  Batch 43/248, train_loss: 0.0624, step time: 1.0130
  Batch 44/248, train_loss: 0.3813, step time: 1.0120
  Batch 45/248, train_loss: 0.3306, step time: 1.0120
  Batch 46/248, train_loss: 0.1652, step time: 1.0130
  Batch 47/248, train_loss: 0.0554, step time: 1.0139
  Batch 48/248, train_loss: 0.1910, step time: 1.0162
  Batch 49/248, train_loss: 0.4728, step time: 1.0167
  Batch 50/248, train_loss: 0.1329, step time: 1.0181
  Batch 51/248, train_loss: 0.1374, step time: 1.0163
  Batch 52/248, train_loss: 0.0864, step time: 1.0142
  Batch 53/248, train_loss: 0.3936, step time: 1.0180
  Batch 54/248, train_loss: 0.2114, step time: 1.0160
  Batch 55/248, train_loss: 0.2448, step time: 1.0175
  Batch 56/248, train_loss: 0.2020, step time: 1.0128
  Batch 57/248, train_loss: 0.2395, step time: 1.0146
  Batch 58/248, train_loss: 0.0722, step time: 1.0130
  Batch 59/248, train_loss: 0.0884, step time: 1.0171
  Batch 60/248, train_loss: 0.0428, step time: 1.0132
  Batch 61/248, train_loss: 0.0792, step time: 1.0236
  Batch 62/248, train_loss: 0.1928, step time: 1.0148
  Batch 63/248, train_loss: 0.4191, step time: 1.0155
  Batch 64/248, train_loss: 0.2740, step time: 1.0152
  Batch 65/248, train_loss: 0.2355, step time: 1.0147
  Batch 66/248, train_loss: 0.1129, step time: 1.0138
```

Batch 67/248, train\_loss: 0.0700, step time: 1.0142  
Batch 68/248, train\_loss: 0.1269, step time: 1.0140  
Batch 69/248, train\_loss: 0.3687, step time: 1.0178  
Batch 70/248, train\_loss: 0.1418, step time: 1.0147  
Batch 71/248, train\_loss: 0.1436, step time: 1.0131  
Batch 72/248, train\_loss: 0.0560, step time: 1.0106  
Batch 73/248, train\_loss: 0.2851, step time: 1.0164  
Batch 74/248, train\_loss: 0.9947, step time: 1.0117  
Batch 75/248, train\_loss: 0.1039, step time: 1.0143  
Batch 76/248, train\_loss: 0.5921, step time: 1.0184  
Batch 77/248, train\_loss: 0.7341, step time: 1.0141  
Batch 78/248, train\_loss: 0.1166, step time: 1.0134  
Batch 79/248, train\_loss: 0.1180, step time: 1.0161  
Batch 80/248, train\_loss: 0.1946, step time: 1.0128  
Batch 81/248, train\_loss: 0.1601, step time: 1.0205  
Batch 82/248, train\_loss: 0.0849, step time: 1.0152  
Batch 83/248, train\_loss: 0.4579, step time: 1.0162  
Batch 84/248, train\_loss: 0.2681, step time: 1.0162  
Batch 85/248, train\_loss: 0.3068, step time: 1.0150  
Batch 86/248, train\_loss: 0.2214, step time: 1.0153  
Batch 87/248, train\_loss: 0.3752, step time: 1.0159  
Batch 88/248, train\_loss: 0.2586, step time: 1.0145  
Batch 89/248, train\_loss: 0.0976, step time: 1.0117  
Batch 90/248, train\_loss: 0.2832, step time: 1.0159  
Batch 91/248, train\_loss: 0.2677, step time: 1.0147  
Batch 92/248, train\_loss: 0.2394, step time: 1.0146  
Batch 93/248, train\_loss: 0.1441, step time: 1.0135  
Batch 94/248, train\_loss: 0.2564, step time: 1.0147  
Batch 95/248, train\_loss: 0.1683, step time: 1.0153  
Batch 96/248, train\_loss: 0.1436, step time: 1.0166  
Batch 97/248, train\_loss: 0.4236, step time: 1.0188  
Batch 98/248, train\_loss: 0.1080, step time: 1.0146  
Batch 99/248, train\_loss: 0.2855, step time: 1.0177  
Batch 100/248, train\_loss: 0.2481, step time: 1.0176  
Batch 101/248, train\_loss: 0.0541, step time: 1.0147  
Batch 102/248, train\_loss: 0.1276, step time: 1.0125  
Batch 103/248, train\_loss: 0.2405, step time: 1.0159  
Batch 104/248, train\_loss: 0.3647, step time: 1.0162  
Batch 105/248, train\_loss: 0.0692, step time: 1.0118  
Batch 106/248, train\_loss: 0.1091, step time: 1.0158  
Batch 107/248, train\_loss: 0.1778, step time: 1.0161  
Batch 108/248, train\_loss: 0.6226, step time: 1.0178  
Batch 109/248, train\_loss: 0.8711, step time: 1.0172  
Batch 110/248, train\_loss: 0.2153, step time: 1.0177  
Batch 111/248, train\_loss: 0.0747, step time: 1.0133  
Batch 112/248, train\_loss: 0.0877, step time: 1.0112  
Batch 113/248, train\_loss: 0.8075, step time: 1.0159  
Batch 114/248, train\_loss: 0.1402, step time: 1.0120  
Batch 115/248, train\_loss: 0.1335, step time: 1.0159  
Batch 116/248, train\_loss: 0.0564, step time: 1.0100  
Batch 117/248, train\_loss: 0.5332, step time: 1.0161  
Batch 118/248, train\_loss: 0.4250, step time: 1.0169  
Batch 119/248, train\_loss: 0.2702, step time: 1.0164  
Batch 120/248, train\_loss: 0.2232, step time: 1.0131  
Batch 121/248, train\_loss: 0.2615, step time: 1.0150  
Batch 122/248, train\_loss: 0.3658, step time: 1.0160  
Batch 123/248, train\_loss: 0.0626, step time: 1.0155  
Batch 124/248, train\_loss: 0.2607, step time: 1.0205  
Batch 125/248, train\_loss: 0.4418, step time: 1.0180  
Batch 126/248, train\_loss: 0.2434, step time: 1.0178  
Batch 127/248, train\_loss: 0.0954, step time: 1.0157  
Batch 128/248, train\_loss: 0.2202, step time: 1.0164  
Batch 129/248, train\_loss: 0.0953, step time: 1.0154  
Batch 130/248, train\_loss: 0.0835, step time: 1.0136  
Batch 131/248, train\_loss: 0.3513, step time: 1.0125  
Batch 132/248, train\_loss: 0.1538, step time: 1.0154  
Batch 133/248, train\_loss: 0.1143, step time: 1.0119  
Batch 134/248, train\_loss: 0.5430, step time: 1.0176  
Batch 135/248, train\_loss: 0.2222, step time: 1.0147  
Batch 136/248, train\_loss: 0.0941, step time: 1.0122  
Batch 137/248, train\_loss: 0.1116, step time: 1.0134  
Batch 138/248, train\_loss: 0.0714, step time: 1.0119  
Batch 139/248, train\_loss: 0.1950, step time: 1.0166  
Batch 140/248, train\_loss: 0.1624, step time: 1.0130  
Batch 141/248, train\_loss: 0.1569, step time: 1.0135  
Batch 142/248, train\_loss: 0.3967, step time: 1.0184  
Batch 143/248, train\_loss: 0.2296, step time: 1.0172  
Batch 144/248, train\_loss: 0.1192, step time: 1.0121  
Batch 145/248, train\_loss: 0.0542, step time: 1.0076  
Batch 146/248, train\_loss: 0.3320, step time: 1.0135  
Batch 147/248, train\_loss: 0.0341, step time: 1.0114  
Batch 148/248, train\_loss: 0.4532, step time: 1.0203  
Batch 149/248, train\_loss: 0.1132, step time: 1.0124  
Batch 150/248, train\_loss: 0.6633, step time: 1.0151  
Batch 151/248, train\_loss: 0.2457, step time: 1.0153

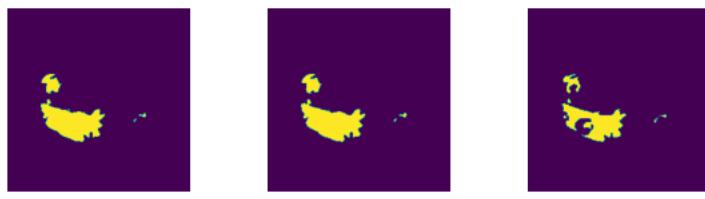
Batch 152/248, train\_loss: 0.0373, step time: 1.0131  
Batch 153/248, train\_loss: 0.1686, step time: 1.0145  
Batch 154/248, train\_loss: 0.6674, step time: 1.0140  
Batch 155/248, train\_loss: 0.1109, step time: 1.0123  
Batch 156/248, train\_loss: 0.1736, step time: 1.0170  
Batch 157/248, train\_loss: 0.1798, step time: 1.0143  
Batch 158/248, train\_loss: 0.9843, step time: 1.0144  
Batch 159/248, train\_loss: 0.2157, step time: 1.0168  
Batch 160/248, train\_loss: 0.0858, step time: 1.0130  
Batch 161/248, train\_loss: 0.0952, step time: 1.0167  
Batch 162/248, train\_loss: 0.1037, step time: 1.0156  
Batch 163/248, train\_loss: 0.1017, step time: 1.0210  
Batch 164/248, train\_loss: 0.1563, step time: 1.0167  
Batch 165/248, train\_loss: 0.2813, step time: 1.0163  
Batch 166/248, train\_loss: 0.0845, step time: 1.0133  
Batch 167/248, train\_loss: 0.1632, step time: 1.0158  
Batch 168/248, train\_loss: 0.1334, step time: 1.0102  
Batch 169/248, train\_loss: 0.0907, step time: 1.0129  
Batch 170/248, train\_loss: 0.5138, step time: 1.0150  
Batch 171/248, train\_loss: 0.0793, step time: 1.0135  
Batch 172/248, train\_loss: 0.2293, step time: 1.0109  
Batch 173/248, train\_loss: 0.0917, step time: 1.0126  
Batch 174/248, train\_loss: 0.8088, step time: 1.0165  
Batch 175/248, train\_loss: 0.1565, step time: 1.0096  
Batch 176/248, train\_loss: 0.3174, step time: 1.0182  
Batch 177/248, train\_loss: 0.1791, step time: 1.0139  
Batch 178/248, train\_loss: 0.3066, step time: 1.0161  
Batch 179/248, train\_loss: 0.0826, step time: 1.0148  
Batch 180/248, train\_loss: 0.1263, step time: 1.0148  
Batch 181/248, train\_loss: 0.1050, step time: 1.0154  
Batch 182/248, train\_loss: 0.9161, step time: 1.0142  
Batch 183/248, train\_loss: 0.1106, step time: 1.0151  
Batch 184/248, train\_loss: 0.2648, step time: 1.0169  
Batch 185/248, train\_loss: 0.0833, step time: 1.0135  
Batch 186/248, train\_loss: 0.0874, step time: 1.0143  
Batch 187/248, train\_loss: 0.1337, step time: 1.0114  
Batch 188/248, train\_loss: 0.2501, step time: 1.0166  
Batch 189/248, train\_loss: 0.4376, step time: 1.0176  
Batch 190/248, train\_loss: 0.1183, step time: 1.0107  
Batch 191/248, train\_loss: 0.5429, step time: 1.0108  
Batch 192/248, train\_loss: 0.2820, step time: 1.0114  
Batch 193/248, train\_loss: 0.2277, step time: 1.0125  
Batch 194/248, train\_loss: 0.0777, step time: 1.0106  
Batch 195/248, train\_loss: 0.5645, step time: 1.0132  
Batch 196/248, train\_loss: 0.7404, step time: 1.0198  
Batch 197/248, train\_loss: 0.1654, step time: 1.0211  
Batch 198/248, train\_loss: 0.4641, step time: 1.0181  
Batch 199/248, train\_loss: 0.1196, step time: 1.0162  
Batch 200/248, train\_loss: 0.1319, step time: 1.0121  
Batch 201/248, train\_loss: 0.1218, step time: 1.0124  
Batch 202/248, train\_loss: 0.2886, step time: 1.0120  
Batch 203/248, train\_loss: 0.5725, step time: 1.0164  
Batch 204/248, train\_loss: 0.0771, step time: 1.0104  
Batch 205/248, train\_loss: 0.2339, step time: 1.0180  
Batch 206/248, train\_loss: 0.3821, step time: 1.0175  
Batch 207/248, train\_loss: 0.0724, step time: 1.0150  
Batch 208/248, train\_loss: 0.1300, step time: 1.0144  
Batch 209/248, train\_loss: 0.1691, step time: 1.0147  
Batch 210/248, train\_loss: 0.0604, step time: 1.0092  
Batch 211/248, train\_loss: 0.0577, step time: 1.0149  
Batch 212/248, train\_loss: 0.2338, step time: 1.0169  
Batch 213/248, train\_loss: 0.1474, step time: 1.0147  
Batch 214/248, train\_loss: 0.0682, step time: 1.0129  
Batch 215/248, train\_loss: 0.1463, step time: 1.0130  
Batch 216/248, train\_loss: 0.1054, step time: 1.0137  
Batch 217/248, train\_loss: 0.2350, step time: 1.0199  
Batch 218/248, train\_loss: 0.7319, step time: 1.0155  
Batch 219/248, train\_loss: 0.0628, step time: 1.0187  
Batch 220/248, train\_loss: 0.1671, step time: 1.0155  
Batch 221/248, train\_loss: 0.2618, step time: 1.0140  
Batch 222/248, train\_loss: 0.1930, step time: 1.0158  
Batch 223/248, train\_loss: 0.0389, step time: 1.0097  
Batch 224/248, train\_loss: 0.0795, step time: 1.0145  
Batch 225/248, train\_loss: 0.1611, step time: 1.0177  
Batch 226/248, train\_loss: 0.0914, step time: 1.0142  
Batch 227/248, train\_loss: 0.0756, step time: 1.0120  
Batch 228/248, train\_loss: 0.1313, step time: 1.0146  
Batch 229/248, train\_loss: 0.0975, step time: 1.0113  
Batch 230/248, train\_loss: 0.0602, step time: 1.0126  
Batch 231/248, train\_loss: 0.2247, step time: 1.0122  
Batch 232/248, train\_loss: 0.0733, step time: 1.0158  
Batch 233/248, train\_loss: 0.7390, step time: 1.0165  
Batch 234/248, train\_loss: 0.3838, step time: 1.0136  
Batch 235/248, train\_loss: 0.3229, step time: 1.0173  
Batch 236/248, train\_loss: 0.6756, step time: 1.0157

```
Batch 236/248, train_loss: 0.0750, step time: 1.0129  
Batch 237/248, train_loss: 0.0965, step time: 1.0128  
Batch 238/248, train_loss: 0.0969, step time: 1.0150  
Batch 239/248, train_loss: 0.0582, step time: 1.0129  
Batch 240/248, train_loss: 0.2455, step time: 1.0148  
Batch 241/248, train_loss: 0.4022, step time: 1.0177  
Batch 242/248, train_loss: 0.1309, step time: 1.0141  
Batch 243/248, train_loss: 0.4683, step time: 1.0140  
Batch 244/248, train_loss: 0.3415, step time: 1.0160  
Batch 245/248, train_loss: 0.0585, step time: 1.0109  
Batch 246/248, train_loss: 0.4338, step time: 1.0174  
Batch 247/248, train_loss: 0.0717, step time: 1.0097  
Batch 248/248, train_loss: 0.9999, step time: 1.0060
```

Labels



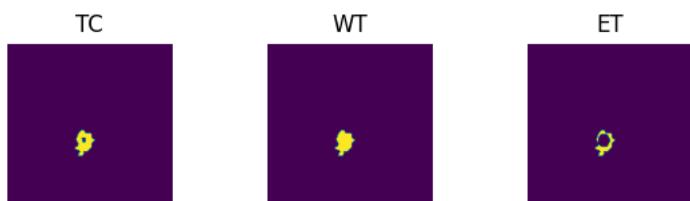
Predictions



#### VAL

```
Batch 1/31, val_loss: 0.8843  
Batch 2/31, val_loss: 0.9904  
Batch 3/31, val_loss: 0.9581  
Batch 4/31, val_loss: 0.9366  
Batch 5/31, val_loss: 0.9946  
Batch 6/31, val_loss: 0.6929  
Batch 7/31, val_loss: 0.8305  
Batch 8/31, val_loss: 0.9625  
Batch 9/31, val_loss: 0.6852  
Batch 10/31, val_loss: 0.9016  
Batch 11/31, val_loss: 0.8182  
Batch 12/31, val_loss: 0.9750  
Batch 13/31, val_loss: 0.9799  
Batch 14/31, val_loss: 0.9489  
Batch 15/31, val_loss: 0.9922  
Batch 16/31, val_loss: 0.9712  
Batch 17/31, val_loss: 0.9718  
Batch 18/31, val_loss: 0.9451  
Batch 19/31, val_loss: 0.7390  
Batch 20/31, val_loss: 0.8769  
Batch 21/31, val_loss: 0.8569  
Batch 22/31, val_loss: 0.9677  
Batch 23/31, val_loss: 0.9834  
Batch 24/31, val_loss: 0.7379  
Batch 25/31, val_loss: 0.7940  
Batch 26/31, val_loss: 0.9166  
Batch 27/31, val_loss: 0.9716  
Batch 28/31, val_loss: 0.7516  
Batch 29/31, val_loss: 0.9797  
Batch 30/31, val_loss: 0.9528  
Batch 31/31, val_loss: 0.9867
```

Labels



Predictions





epoch 97  
average train loss: 0.2423  
average validation loss: 0.9017  
saved as best model: False  
current mean dice: 0.5252  
current TC dice: 0.5509  
current WT dice: 0.5567  
current ET dice: 0.5075

Best Mean Metric: 0.5477

time consuming of epoch 97 is: 1586.5989

-----  
epoch 98/100

TRAIN

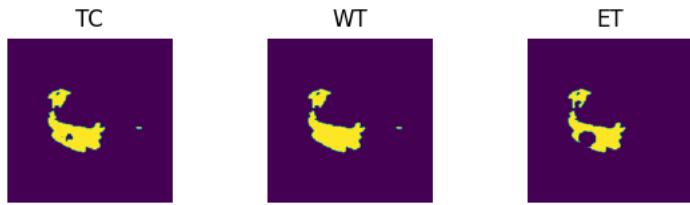
Batch 1/248, train\_loss: 0.0709, step time: 1.0128  
Batch 2/248, train\_loss: 0.5573, step time: 1.0182  
Batch 3/248, train\_loss: 0.2142, step time: 1.0196  
Batch 4/248, train\_loss: 0.7834, step time: 1.0182  
Batch 5/248, train\_loss: 0.1738, step time: 1.0172  
Batch 6/248, train\_loss: 0.3313, step time: 1.0160  
Batch 7/248, train\_loss: 0.0680, step time: 1.0188  
Batch 8/248, train\_loss: 0.6973, step time: 1.0129  
Batch 9/248, train\_loss: 0.0347, step time: 1.0121  
Batch 10/248, train\_loss: 0.2010, step time: 1.0128  
Batch 11/248, train\_loss: 0.1437, step time: 1.0132  
Batch 12/248, train\_loss: 0.3114, step time: 1.0169  
Batch 13/248, train\_loss: 0.2483, step time: 1.0127  
Batch 14/248, train\_loss: 0.0532, step time: 1.0112  
Batch 15/248, train\_loss: 0.2788, step time: 1.0152  
Batch 16/248, train\_loss: 0.1275, step time: 1.0123  
Batch 17/248, train\_loss: 0.2193, step time: 1.0159  
Batch 18/248, train\_loss: 0.2790, step time: 1.0149  
Batch 19/248, train\_loss: 0.0863, step time: 1.0134  
Batch 20/248, train\_loss: 0.1144, step time: 1.0164  
Batch 21/248, train\_loss: 0.0610, step time: 1.0144  
Batch 22/248, train\_loss: 0.2726, step time: 1.0170  
Batch 23/248, train\_loss: 0.9969, step time: 1.0125  
Batch 24/248, train\_loss: 0.0692, step time: 1.0115  
Batch 25/248, train\_loss: 0.0538, step time: 1.0134  
Batch 26/248, train\_loss: 0.3193, step time: 1.0212  
Batch 27/248, train\_loss: 0.0635, step time: 1.0106  
Batch 28/248, train\_loss: 0.1428, step time: 1.0154  
Batch 29/248, train\_loss: 0.3388, step time: 1.0192  
Batch 30/248, train\_loss: 0.4451, step time: 1.0186  
Batch 31/248, train\_loss: 0.2765, step time: 1.0148  
Batch 32/248, train\_loss: 0.0724, step time: 1.0130  
Batch 33/248, train\_loss: 0.0648, step time: 1.0095  
Batch 34/248, train\_loss: 0.0433, step time: 1.0126  
Batch 35/248, train\_loss: 0.0424, step time: 1.0115  
Batch 36/248, train\_loss: 0.3653, step time: 1.0162  
Batch 37/248, train\_loss: 0.1453, step time: 1.0135  
Batch 38/248, train\_loss: 0.2374, step time: 1.0127  
Batch 39/248, train\_loss: 0.1739, step time: 1.0165  
Batch 40/248, train\_loss: 0.5326, step time: 1.0162  
Batch 41/248, train\_loss: 0.2440, step time: 1.0156  
Batch 42/248, train\_loss: 0.0600, step time: 1.0113  
Batch 43/248, train\_loss: 0.0490, step time: 1.0103  
Batch 44/248, train\_loss: 0.3518, step time: 1.0176  
Batch 45/248, train\_loss: 0.3345, step time: 1.0168  
Batch 46/248, train\_loss: 0.1683, step time: 1.0182  
Batch 47/248, train\_loss: 0.0630, step time: 1.0172  
Batch 48/248, train\_loss: 0.1749, step time: 1.0124  
Batch 49/248, train\_loss: 0.4894, step time: 1.0168  
Batch 50/248, train\_loss: 0.1267, step time: 1.0129  
Batch 51/248, train\_loss: 0.0991, step time: 1.0142  
Batch 52/248, train\_loss: 0.0821, step time: 1.0144  
Batch 53/248, train\_loss: 0.3989, step time: 1.0184  
Batch 54/248, train\_loss: 0.2009, step time: 1.0130  
Batch 55/248, train\_loss: 0.2081, step time: 1.0173  
Batch 56/248, train\_loss: 0.1836, step time: 1.0134  
Batch 57/248, train\_loss: 0.3303, step time: 1.0142  
Batch 58/248, train\_loss: 0.0723, step time: 1.0126  
Batch 59/248, train\_loss: 0.0962, step time: 1.0141  
Batch 60/248, train\_loss: 0.0500, step time: 1.0131  
Batch 61/248, train\_loss: 0.0851, step time: 1.0141  
Batch 62/248, train\_loss: 0.2015, step time: 1.0157  
Batch 63/248, train\_loss: 0.4482, step time: 1.0232  
Batch 64/248, train\_loss: 0.2615, step time: 1.0102  
Batch 65/248, train\_loss: 0.2242, step time: 1.0137  
Batch 66/248, train\_loss: 0.1007, step time: 1.0167

Batch 67/248, train\_loss: 0.0666, step time: 1.0132  
Batch 68/248, train\_loss: 0.1432, step time: 1.0140  
Batch 69/248, train\_loss: 0.2527, step time: 1.0182  
Batch 70/248, train\_loss: 0.1321, step time: 1.0161  
Batch 71/248, train\_loss: 0.1452, step time: 1.0172  
Batch 72/248, train\_loss: 0.0547, step time: 1.0134  
Batch 73/248, train\_loss: 0.2999, step time: 1.0143  
Batch 74/248, train\_loss: 0.9992, step time: 1.0145  
Batch 75/248, train\_loss: 0.1125, step time: 1.0128  
Batch 76/248, train\_loss: 0.5303, step time: 1.0139  
Batch 77/248, train\_loss: 0.7343, step time: 1.0156  
Batch 78/248, train\_loss: 0.1202, step time: 1.0144  
Batch 79/248, train\_loss: 0.1117, step time: 1.0202  
Batch 80/248, train\_loss: 0.2074, step time: 1.0141  
Batch 81/248, train\_loss: 0.1820, step time: 1.0179  
Batch 82/248, train\_loss: 0.0809, step time: 1.0147  
Batch 83/248, train\_loss: 0.5117, step time: 1.0180  
Batch 84/248, train\_loss: 0.2420, step time: 1.0172  
Batch 85/248, train\_loss: 0.3530, step time: 1.0169  
Batch 86/248, train\_loss: 0.2645, step time: 1.0124  
Batch 87/248, train\_loss: 0.4638, step time: 1.0155  
Batch 88/248, train\_loss: 0.2810, step time: 1.0157  
Batch 89/248, train\_loss: 0.0914, step time: 1.0107  
Batch 90/248, train\_loss: 0.3358, step time: 1.0142  
Batch 91/248, train\_loss: 0.3379, step time: 1.0146  
Batch 92/248, train\_loss: 0.2489, step time: 1.0135  
Batch 93/248, train\_loss: 0.1388, step time: 1.0130  
Batch 94/248, train\_loss: 0.2256, step time: 1.0181  
Batch 95/248, train\_loss: 0.1627, step time: 1.0129  
Batch 96/248, train\_loss: 0.1322, step time: 1.0159  
Batch 97/248, train\_loss: 0.2973, step time: 1.0187  
Batch 98/248, train\_loss: 0.1198, step time: 1.0146  
Batch 99/248, train\_loss: 0.2804, step time: 1.0237  
Batch 100/248, train\_loss: 0.2544, step time: 1.0165  
Batch 101/248, train\_loss: 0.0503, step time: 1.0124  
Batch 102/248, train\_loss: 0.1125, step time: 1.0165  
Batch 103/248, train\_loss: 0.2736, step time: 1.0170  
Batch 104/248, train\_loss: 0.3058, step time: 1.0142  
Batch 105/248, train\_loss: 0.0659, step time: 1.0103  
Batch 106/248, train\_loss: 0.0967, step time: 1.0179  
Batch 107/248, train\_loss: 0.1899, step time: 1.0192  
Batch 108/248, train\_loss: 0.5974, step time: 1.0191  
Batch 109/248, train\_loss: 0.9803, step time: 1.0157  
Batch 110/248, train\_loss: 0.1666, step time: 1.0140  
Batch 111/248, train\_loss: 0.0800, step time: 1.0134  
Batch 112/248, train\_loss: 0.1007, step time: 1.0168  
Batch 113/248, train\_loss: 0.8254, step time: 1.0175  
Batch 114/248, train\_loss: 0.1366, step time: 1.0179  
Batch 115/248, train\_loss: 0.1329, step time: 1.0120  
Batch 116/248, train\_loss: 0.0659, step time: 1.0149  
Batch 117/248, train\_loss: 0.4628, step time: 1.0186  
Batch 118/248, train\_loss: 0.2725, step time: 1.0130  
Batch 119/248, train\_loss: 0.3063, step time: 1.0161  
Batch 120/248, train\_loss: 0.2118, step time: 1.0130  
Batch 121/248, train\_loss: 0.2598, step time: 1.0143  
Batch 122/248, train\_loss: 0.3419, step time: 1.0130  
Batch 123/248, train\_loss: 0.0829, step time: 1.0154  
Batch 124/248, train\_loss: 0.2216, step time: 1.0172  
Batch 125/248, train\_loss: 0.4706, step time: 1.0163  
Batch 126/248, train\_loss: 0.2422, step time: 1.0139  
Batch 127/248, train\_loss: 0.1263, step time: 1.0140  
Batch 128/248, train\_loss: 0.2422, step time: 1.0166  
Batch 129/248, train\_loss: 0.0819, step time: 1.0114  
Batch 130/248, train\_loss: 0.0965, step time: 1.0151  
Batch 131/248, train\_loss: 0.3158, step time: 1.0160  
Batch 132/248, train\_loss: 0.2760, step time: 1.0206  
Batch 133/248, train\_loss: 0.1147, step time: 1.0146  
Batch 134/248, train\_loss: 0.5548, step time: 1.0170  
Batch 135/248, train\_loss: 0.1899, step time: 1.0179  
Batch 136/248, train\_loss: 0.0961, step time: 1.0189  
Batch 137/248, train\_loss: 0.0981, step time: 1.0111  
Batch 138/248, train\_loss: 0.0711, step time: 1.0140  
Batch 139/248, train\_loss: 0.1981, step time: 1.0170  
Batch 140/248, train\_loss: 0.1808, step time: 1.0146  
Batch 141/248, train\_loss: 0.1513, step time: 1.0179  
Batch 142/248, train\_loss: 0.3936, step time: 1.0144  
Batch 143/248, train\_loss: 0.1915, step time: 1.0137  
Batch 144/248, train\_loss: 0.1206, step time: 1.0127  
Batch 145/248, train\_loss: 0.0859, step time: 1.0140  
Batch 146/248, train\_loss: 0.3507, step time: 1.0162  
Batch 147/248, train\_loss: 0.0401, step time: 1.0112  
Batch 148/248, train\_loss: 0.5774, step time: 1.0146  
Batch 149/248, train\_loss: 0.1047, step time: 1.0151  
Batch 150/248, train\_loss: 0.6534, step time: 1.0162  
Batch 151/248, train\_loss: 0.2551, step time: 1.0122

Batch 121/248, train\_loss: 0.2551, step time: 1.0129  
Batch 122/248, train\_loss: 0.1511, step time: 1.0163  
Batch 123/248, train\_loss: 0.1735, step time: 1.0166  
Batch 124/248, train\_loss: 0.4730, step time: 1.0149  
Batch 125/248, train\_loss: 0.0944, step time: 1.0142  
Batch 126/248, train\_loss: 0.2174, step time: 1.0156  
Batch 127/248, train\_loss: 0.1680, step time: 1.0163  
Batch 128/248, train\_loss: 0.9710, step time: 1.0142  
Batch 129/248, train\_loss: 0.2373, step time: 1.0156  
Batch 130/248, train\_loss: 0.0818, step time: 1.0150  
Batch 131/248, train\_loss: 0.0846, step time: 1.0165  
Batch 132/248, train\_loss: 0.0653, step time: 1.0138  
Batch 133/248, train\_loss: 0.0951, step time: 1.0123  
Batch 134/248, train\_loss: 0.1597, step time: 1.0127  
Batch 135/248, train\_loss: 0.2577, step time: 1.0146  
Batch 136/248, train\_loss: 0.0705, step time: 1.0147  
Batch 137/248, train\_loss: 0.1525, step time: 1.0146  
Batch 138/248, train\_loss: 0.1357, step time: 1.0135  
Batch 139/248, train\_loss: 0.0903, step time: 1.0145  
Batch 140/248, train\_loss: 0.6117, step time: 1.0160  
Batch 141/248, train\_loss: 0.0765, step time: 1.0123  
Batch 142/248, train\_loss: 0.3333, step time: 1.0156  
Batch 143/248, train\_loss: 0.0776, step time: 1.0143  
Batch 144/248, train\_loss: 0.5241, step time: 1.0173  
Batch 145/248, train\_loss: 0.1341, step time: 1.0148  
Batch 146/248, train\_loss: 0.3523, step time: 1.0163  
Batch 147/248, train\_loss: 0.1757, step time: 1.0175  
Batch 148/248, train\_loss: 0.2715, step time: 1.0194  
Batch 149/248, train\_loss: 0.0810, step time: 1.0134  
Batch 150/248, train\_loss: 0.1491, step time: 1.0157  
Batch 151/248, train\_loss: 0.1053, step time: 1.0165  
Batch 152/248, train\_loss: 0.9077, step time: 1.0149  
Batch 153/248, train\_loss: 0.1154, step time: 1.0142  
Batch 154/248, train\_loss: 0.2078, step time: 1.0148  
Batch 155/248, train\_loss: 0.0769, step time: 1.0135  
Batch 156/248, train\_loss: 0.0802, step time: 1.0136  
Batch 157/248, train\_loss: 0.1497, step time: 1.0145  
Batch 158/248, train\_loss: 0.2904, step time: 1.0174  
Batch 159/248, train\_loss: 0.3715, step time: 1.0154  
Batch 160/248, train\_loss: 0.1123, step time: 1.0110  
Batch 161/248, train\_loss: 0.5363, step time: 1.0153  
Batch 162/248, train\_loss: 0.2994, step time: 1.0170  
Batch 163/248, train\_loss: 0.2993, step time: 1.0151  
Batch 164/248, train\_loss: 0.0753, step time: 1.0143  
Batch 165/248, train\_loss: 0.6068, step time: 1.0166  
Batch 166/248, train\_loss: 0.5705, step time: 1.0134  
Batch 167/248, train\_loss: 0.1632, step time: 1.0168  
Batch 168/248, train\_loss: 0.4642, step time: 1.0162  
Batch 169/248, train\_loss: 0.1255, step time: 1.0150  
Batch 170/248, train\_loss: 0.1240, step time: 1.0134  
Batch 171/248, train\_loss: 0.1172, step time: 1.0153  
Batch 172/248, train\_loss: 0.3085, step time: 1.0180  
Batch 173/248, train\_loss: 0.4003, step time: 1.0139  
Batch 174/248, train\_loss: 0.0749, step time: 1.0112  
Batch 175/248, train\_loss: 0.2070, step time: 1.0143  
Batch 176/248, train\_loss: 0.3299, step time: 1.0140  
Batch 177/248, train\_loss: 0.0771, step time: 1.0144  
Batch 178/248, train\_loss: 0.1803, step time: 1.0182  
Batch 179/248, train\_loss: 0.1764, step time: 1.0174  
Batch 180/248, train\_loss: 0.0568, step time: 1.0130  
Batch 181/248, train\_loss: 0.0560, step time: 1.0122  
Batch 182/248, train\_loss: 0.2445, step time: 1.0160  
Batch 183/248, train\_loss: 0.1769, step time: 1.0152  
Batch 184/248, train\_loss: 0.0633, step time: 1.0143  
Batch 185/248, train\_loss: 0.1441, step time: 1.0145  
Batch 186/248, train\_loss: 0.1356, step time: 1.0160  
Batch 187/248, train\_loss: 0.2509, step time: 1.0171  
Batch 188/248, train\_loss: 0.7001, step time: 1.0174  
Batch 189/248, train\_loss: 0.0557, step time: 1.0112  
Batch 190/248, train\_loss: 0.1878, step time: 1.0152  
Batch 191/248, train\_loss: 0.2132, step time: 1.0133  
Batch 192/248, train\_loss: 0.2202, step time: 1.0159  
Batch 193/248, train\_loss: 0.0395, step time: 1.0129  
Batch 194/248, train\_loss: 0.0924, step time: 1.0140  
Batch 195/248, train\_loss: 0.1153, step time: 1.0154  
Batch 196/248, train\_loss: 0.1112, step time: 1.0153  
Batch 197/248, train\_loss: 0.0912, step time: 1.0132  
Batch 198/248, train\_loss: 0.1475, step time: 1.0135  
Batch 199/248, train\_loss: 0.0930, step time: 1.0129  
Batch 200/248, train\_loss: 0.0695, step time: 1.0097  
Batch 201/248, train\_loss: 0.3987, step time: 1.0167  
Batch 202/248, train\_loss: 0.0792, step time: 1.0115  
Batch 203/248, train\_loss: 0.7271, step time: 1.0164  
Batch 204/248, train\_loss: 0.3736, step time: 1.0109  
Batch 205/248, train\_loss: 0.2643, step time: 1.0159

```
Batch 236/248, train_loss: 0.6882, step time: 1.0157  
Batch 237/248, train_loss: 0.0891, step time: 1.0194  
Batch 238/248, train_loss: 0.0901, step time: 1.0138  
Batch 239/248, train_loss: 0.0483, step time: 1.0133  
Batch 240/248, train_loss: 0.2157, step time: 1.0156  
Batch 241/248, train_loss: 0.3347, step time: 1.0175  
Batch 242/248, train_loss: 0.1172, step time: 1.0141  
Batch 243/248, train_loss: 0.4006, step time: 1.0173  
Batch 244/248, train_loss: 0.3912, step time: 1.0181  
Batch 245/248, train_loss: 0.0583, step time: 1.0096  
Batch 246/248, train_loss: 0.4813, step time: 1.0174  
Batch 247/248, train_loss: 0.0703, step time: 1.0085  
Batch 248/248, train_loss: 0.9999, step time: 1.0038
```

Labels



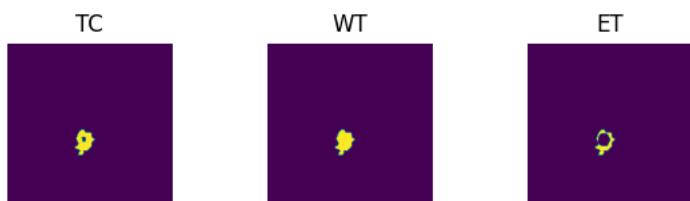
Predictions



#### VAL

```
Batch 1/31, val_loss: 0.9073  
Batch 2/31, val_loss: 0.9906  
Batch 3/31, val_loss: 0.9593  
Batch 4/31, val_loss: 0.9433  
Batch 5/31, val_loss: 0.9955  
Batch 6/31, val_loss: 0.6980  
Batch 7/31, val_loss: 0.8393  
Batch 8/31, val_loss: 0.9689  
Batch 9/31, val_loss: 0.6846  
Batch 10/31, val_loss: 0.9023  
Batch 11/31, val_loss: 0.8177  
Batch 12/31, val_loss: 0.9785  
Batch 13/31, val_loss: 0.9891  
Batch 14/31, val_loss: 0.9514  
Batch 15/31, val_loss: 0.9880  
Batch 16/31, val_loss: 0.9703  
Batch 17/31, val_loss: 0.9731  
Batch 18/31, val_loss: 0.9412  
Batch 19/31, val_loss: 0.7388  
Batch 20/31, val_loss: 0.8842  
Batch 21/31, val_loss: 0.8603  
Batch 22/31, val_loss: 0.9686  
Batch 23/31, val_loss: 0.9798  
Batch 24/31, val_loss: 0.7451  
Batch 25/31, val_loss: 0.7935  
Batch 26/31, val_loss: 0.9143  
Batch 27/31, val_loss: 0.9757  
Batch 28/31, val_loss: 0.7369  
Batch 29/31, val_loss: 0.9785  
Batch 30/31, val_loss: 0.9576  
Batch 31/31, val_loss: 0.9828
```

Labels



Predictions





```
epoch 98
  average train loss: 0.2393
  average validation loss: 0.9037
  saved as best model: False
  current mean dice: 0.5413
  current TC dice: 0.5661
  current WT dice: 0.5716
  current ET dice: 0.5226
Best Mean Metric: 0.5477
time consuming of epoch 98 is: 1550.7903
-----
```

```
epoch 99/100
```

```
TRAIN
```

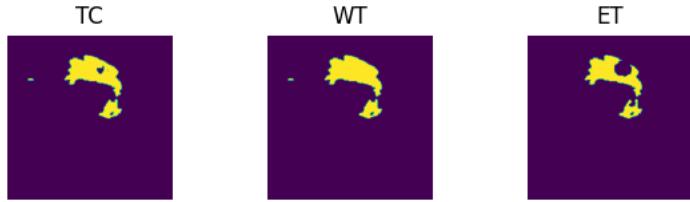
```
Batch 1/248, train_loss: 0.0773, step time: 1.0141
Batch 2/248, train_loss: 0.5339, step time: 1.0151
Batch 3/248, train_loss: 0.2290, step time: 1.0120
Batch 4/248, train_loss: 0.8441, step time: 1.0205
Batch 5/248, train_loss: 0.2071, step time: 1.0136
Batch 6/248, train_loss: 0.4557, step time: 1.0166
Batch 7/248, train_loss: 0.0621, step time: 1.0142
Batch 8/248, train_loss: 0.7104, step time: 1.0143
Batch 9/248, train_loss: 0.0395, step time: 1.0160
Batch 10/248, train_loss: 0.1912, step time: 1.0162
Batch 11/248, train_loss: 0.1349, step time: 1.0166
Batch 12/248, train_loss: 0.3354, step time: 1.0162
Batch 13/248, train_loss: 0.2898, step time: 1.0165
Batch 14/248, train_loss: 0.0541, step time: 1.0097
Batch 15/248, train_loss: 0.2937, step time: 1.0143
Batch 16/248, train_loss: 0.1303, step time: 1.0158
Batch 17/248, train_loss: 0.2077, step time: 1.0157
Batch 18/248, train_loss: 0.3571, step time: 1.0198
Batch 19/248, train_loss: 0.0863, step time: 1.0122
Batch 20/248, train_loss: 0.1344, step time: 1.0144
Batch 21/248, train_loss: 0.0549, step time: 1.0145
Batch 22/248, train_loss: 0.8485, step time: 1.0170
Batch 23/248, train_loss: 0.9969, step time: 1.0110
Batch 24/248, train_loss: 0.0689, step time: 1.0141
Batch 25/248, train_loss: 0.0538, step time: 1.0124
Batch 26/248, train_loss: 0.2901, step time: 1.0159
Batch 27/248, train_loss: 0.0632, step time: 1.0160
Batch 28/248, train_loss: 0.1424, step time: 1.0240
Batch 29/248, train_loss: 0.3456, step time: 1.0159
Batch 30/248, train_loss: 0.4755, step time: 1.0187
Batch 31/248, train_loss: 0.2523, step time: 1.0150
Batch 32/248, train_loss: 0.0686, step time: 1.0137
Batch 33/248, train_loss: 0.0584, step time: 1.0120
Batch 34/248, train_loss: 0.0415, step time: 1.0068
Batch 35/248, train_loss: 0.0361, step time: 1.0116
Batch 36/248, train_loss: 0.3527, step time: 1.0155
Batch 37/248, train_loss: 0.1333, step time: 1.0117
Batch 38/248, train_loss: 0.2483, step time: 1.0102
Batch 39/248, train_loss: 0.1654, step time: 1.0152
Batch 40/248, train_loss: 0.5179, step time: 1.0164
Batch 41/248, train_loss: 0.2307, step time: 1.0137
Batch 42/248, train_loss: 0.0596, step time: 1.0140
Batch 43/248, train_loss: 0.0475, step time: 1.0121
Batch 44/248, train_loss: 0.3343, step time: 1.0182
Batch 45/248, train_loss: 0.3404, step time: 1.0147
Batch 46/248, train_loss: 0.1356, step time: 1.0171
Batch 47/248, train_loss: 0.0641, step time: 1.0141
Batch 48/248, train_loss: 0.1982, step time: 1.0173
Batch 49/248, train_loss: 0.4691, step time: 1.0170
Batch 50/248, train_loss: 0.1459, step time: 1.0185
Batch 51/248, train_loss: 0.1058, step time: 1.0155
Batch 52/248, train_loss: 0.0884, step time: 1.0145
Batch 53/248, train_loss: 0.3963, step time: 1.0176
Batch 54/248, train_loss: 0.2039, step time: 1.0149
Batch 55/248, train_loss: 0.2350, step time: 1.0168
Batch 56/248, train_loss: 0.1836, step time: 1.0135
Batch 57/248, train_loss: 0.2225, step time: 1.0140
Batch 58/248, train_loss: 0.0748, step time: 1.0138
Batch 59/248, train_loss: 0.1014, step time: 1.0148
Batch 60/248, train_loss: 0.0438, step time: 1.0127
Batch 61/248, train_loss: 0.0819, step time: 1.0162
Batch 62/248, train_loss: 0.1880, step time: 1.0148
Batch 63/248, train_loss: 0.4090, step time: 1.0148
Batch 64/248, train_loss: 0.2800, step time: 1.0165
Batch 65/248, train_loss: 0.3704, step time: 1.0167
```

Batch 66/248, train\_loss: 0.1020, step time: 1.0156  
Batch 67/248, train\_loss: 0.0725, step time: 1.0114  
Batch 68/248, train\_loss: 0.1441, step time: 1.0167  
Batch 69/248, train\_loss: 0.2603, step time: 1.0177  
Batch 70/248, train\_loss: 0.1435, step time: 1.0174  
Batch 71/248, train\_loss: 0.1348, step time: 1.0156  
Batch 72/248, train\_loss: 0.0560, step time: 1.0139  
Batch 73/248, train\_loss: 0.2450, step time: 1.0166  
Batch 74/248, train\_loss: 0.9940, step time: 1.0145  
Batch 75/248, train\_loss: 0.1057, step time: 1.0159  
Batch 76/248, train\_loss: 0.4384, step time: 1.0156  
Batch 77/248, train\_loss: 0.7315, step time: 1.0170  
Batch 78/248, train\_loss: 0.1088, step time: 1.0136  
Batch 79/248, train\_loss: 0.1038, step time: 1.0201  
Batch 80/248, train\_loss: 0.1679, step time: 1.0157  
Batch 81/248, train\_loss: 0.1577, step time: 1.0214  
Batch 82/248, train\_loss: 0.0753, step time: 1.0161  
Batch 83/248, train\_loss: 0.4558, step time: 1.0165  
Batch 84/248, train\_loss: 0.2344, step time: 1.0174  
Batch 85/248, train\_loss: 0.3579, step time: 1.0185  
Batch 86/248, train\_loss: 0.2159, step time: 1.0132  
Batch 87/248, train\_loss: 0.4318, step time: 1.0161  
Batch 88/248, train\_loss: 0.2614, step time: 1.0180  
Batch 89/248, train\_loss: 0.0902, step time: 1.0145  
Batch 90/248, train\_loss: 0.2860, step time: 1.0173  
Batch 91/248, train\_loss: 0.2947, step time: 1.0174  
Batch 92/248, train\_loss: 0.2324, step time: 1.0163  
Batch 93/248, train\_loss: 0.1404, step time: 1.0141  
Batch 94/248, train\_loss: 0.2293, step time: 1.0175  
Batch 95/248, train\_loss: 0.1667, step time: 1.0154  
Batch 96/248, train\_loss: 0.1541, step time: 1.0165  
Batch 97/248, train\_loss: 0.2501, step time: 1.0164  
Batch 98/248, train\_loss: 0.1155, step time: 1.0173  
Batch 99/248, train\_loss: 0.2449, step time: 1.0168  
Batch 100/248, train\_loss: 0.1916, step time: 1.0185  
Batch 101/248, train\_loss: 0.0546, step time: 1.0132  
Batch 102/248, train\_loss: 0.1106, step time: 1.0174  
Batch 103/248, train\_loss: 0.2499, step time: 1.0138  
Batch 104/248, train\_loss: 0.2666, step time: 1.0150  
Batch 105/248, train\_loss: 0.0657, step time: 1.0122  
Batch 106/248, train\_loss: 0.0981, step time: 1.0160  
Batch 107/248, train\_loss: 0.2471, step time: 1.0179  
Batch 108/248, train\_loss: 0.4478, step time: 1.0156  
Batch 109/248, train\_loss: 0.5515, step time: 1.0179  
Batch 110/248, train\_loss: 0.1577, step time: 1.0142  
Batch 111/248, train\_loss: 0.0884, step time: 1.0141  
Batch 112/248, train\_loss: 0.0999, step time: 1.0177  
Batch 113/248, train\_loss: 0.7379, step time: 1.0161  
Batch 114/248, train\_loss: 0.1367, step time: 1.0164  
Batch 115/248, train\_loss: 0.1292, step time: 1.0176  
Batch 116/248, train\_loss: 0.0762, step time: 1.0164  
Batch 117/248, train\_loss: 0.5262, step time: 1.0164  
Batch 118/248, train\_loss: 0.3734, step time: 1.0175  
Batch 119/248, train\_loss: 0.3277, step time: 1.0153  
Batch 120/248, train\_loss: 0.2356, step time: 1.0134  
Batch 121/248, train\_loss: 0.2317, step time: 1.0167  
Batch 122/248, train\_loss: 0.5116, step time: 1.0184  
Batch 123/248, train\_loss: 0.0770, step time: 1.0177  
Batch 124/248, train\_loss: 0.2484, step time: 1.0183  
Batch 125/248, train\_loss: 0.4519, step time: 1.0190  
Batch 126/248, train\_loss: 0.1893, step time: 1.0167  
Batch 127/248, train\_loss: 0.1171, step time: 1.0185  
Batch 128/248, train\_loss: 0.1879, step time: 1.0170  
Batch 129/248, train\_loss: 0.1102, step time: 1.0159  
Batch 130/248, train\_loss: 0.1011, step time: 1.0159  
Batch 131/248, train\_loss: 0.3256, step time: 1.0150  
Batch 132/248, train\_loss: 0.2337, step time: 1.0162  
Batch 133/248, train\_loss: 0.1030, step time: 1.0111  
Batch 134/248, train\_loss: 0.6618, step time: 1.0195  
Batch 135/248, train\_loss: 0.3606, step time: 1.0185  
Batch 136/248, train\_loss: 0.0897, step time: 1.0137  
Batch 137/248, train\_loss: 0.1011, step time: 1.0110  
Batch 138/248, train\_loss: 0.0655, step time: 1.0145  
Batch 139/248, train\_loss: 0.1747, step time: 1.0142  
Batch 140/248, train\_loss: 0.1531, step time: 1.0157  
Batch 141/248, train\_loss: 0.1805, step time: 1.0144  
Batch 142/248, train\_loss: 0.4208, step time: 1.0182  
Batch 143/248, train\_loss: 0.2227, step time: 1.0156  
Batch 144/248, train\_loss: 0.1202, step time: 1.0131  
Batch 145/248, train\_loss: 0.0603, step time: 1.0128  
Batch 146/248, train\_loss: 0.3782, step time: 1.0164  
Batch 147/248, train\_loss: 0.0390, step time: 1.0145  
Batch 148/248, train\_loss: 0.4368, step time: 1.0181  
Batch 149/248, train\_loss: 0.1137, step time: 1.0158  
Batch 150/248, train\_loss: 0.6570, step time: 1.0158

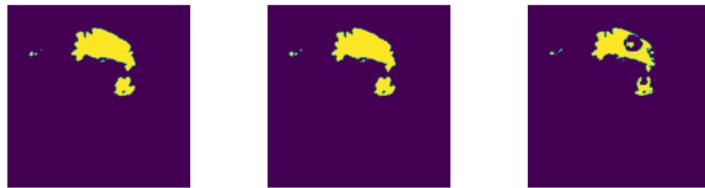
Batch 151/248, train\_loss: 0.2763, step time: 1.0179  
Batch 152/248, train\_loss: 0.0320, step time: 1.0131  
Batch 153/248, train\_loss: 0.1684, step time: 1.0151  
Batch 154/248, train\_loss: 0.5072, step time: 1.0206  
Batch 155/248, train\_loss: 0.1073, step time: 1.0162  
Batch 156/248, train\_loss: 0.1851, step time: 1.0173  
Batch 157/248, train\_loss: 0.1912, step time: 1.0150  
Batch 158/248, train\_loss: 0.9814, step time: 1.0138  
Batch 159/248, train\_loss: 0.2519, step time: 1.0178  
Batch 160/248, train\_loss: 0.0847, step time: 1.0166  
Batch 161/248, train\_loss: 0.0955, step time: 1.0142  
Batch 162/248, train\_loss: 0.0667, step time: 1.0129  
Batch 163/248, train\_loss: 0.1094, step time: 1.0170  
Batch 164/248, train\_loss: 0.1551, step time: 1.0155  
Batch 165/248, train\_loss: 0.2858, step time: 1.0174  
Batch 166/248, train\_loss: 0.0827, step time: 1.0185  
Batch 167/248, train\_loss: 0.1620, step time: 1.0142  
Batch 168/248, train\_loss: 0.1349, step time: 1.0156  
Batch 169/248, train\_loss: 0.1070, step time: 1.0186  
Batch 170/248, train\_loss: 0.5348, step time: 1.0149  
Batch 171/248, train\_loss: 0.0756, step time: 1.0146  
Batch 172/248, train\_loss: 0.2425, step time: 1.0188  
Batch 173/248, train\_loss: 0.0711, step time: 1.0132  
Batch 174/248, train\_loss: 0.6514, step time: 1.0164  
Batch 175/248, train\_loss: 0.1355, step time: 1.0169  
Batch 176/248, train\_loss: 0.2843, step time: 1.0152  
Batch 177/248, train\_loss: 0.1660, step time: 1.0191  
Batch 178/248, train\_loss: 0.2975, step time: 1.0172  
Batch 179/248, train\_loss: 0.0832, step time: 1.0150  
Batch 180/248, train\_loss: 0.1413, step time: 1.0166  
Batch 181/248, train\_loss: 0.1106, step time: 1.0148  
Batch 182/248, train\_loss: 0.9032, step time: 1.0159  
Batch 183/248, train\_loss: 0.0959, step time: 1.0168  
Batch 184/248, train\_loss: 0.3948, step time: 1.0174  
Batch 185/248, train\_loss: 0.0932, step time: 1.0163  
Batch 186/248, train\_loss: 0.0878, step time: 1.0155  
Batch 187/248, train\_loss: 0.1865, step time: 1.0164  
Batch 188/248, train\_loss: 0.2378, step time: 1.0138  
Batch 189/248, train\_loss: 0.3971, step time: 1.0178  
Batch 190/248, train\_loss: 0.1220, step time: 1.0153  
Batch 191/248, train\_loss: 0.5410, step time: 1.0166  
Batch 192/248, train\_loss: 0.2400, step time: 1.0124  
Batch 193/248, train\_loss: 0.2315, step time: 1.0175  
Batch 194/248, train\_loss: 0.0773, step time: 1.0150  
Batch 195/248, train\_loss: 0.5996, step time: 1.0175  
Batch 196/248, train\_loss: 0.9598, step time: 1.0194  
Batch 197/248, train\_loss: 0.1563, step time: 1.0168  
Batch 198/248, train\_loss: 0.4804, step time: 1.0193  
Batch 199/248, train\_loss: 0.1478, step time: 1.0144  
Batch 200/248, train\_loss: 0.1206, step time: 1.0161  
Batch 201/248, train\_loss: 0.1200, step time: 1.0140  
Batch 202/248, train\_loss: 0.3107, step time: 1.0168  
Batch 203/248, train\_loss: 0.4512, step time: 1.0176  
Batch 204/248, train\_loss: 0.0786, step time: 1.0144  
Batch 205/248, train\_loss: 0.2030, step time: 1.0147  
Batch 206/248, train\_loss: 0.2393, step time: 1.0141  
Batch 207/248, train\_loss: 0.0816, step time: 1.0152  
Batch 208/248, train\_loss: 0.1452, step time: 1.0138  
Batch 209/248, train\_loss: 0.1430, step time: 1.0162  
Batch 210/248, train\_loss: 0.0562, step time: 1.0131  
Batch 211/248, train\_loss: 0.0576, step time: 1.0128  
Batch 212/248, train\_loss: 0.2531, step time: 1.0141  
Batch 213/248, train\_loss: 0.1363, step time: 1.0162  
Batch 214/248, train\_loss: 0.0638, step time: 1.0151  
Batch 215/248, train\_loss: 0.1740, step time: 1.0153  
Batch 216/248, train\_loss: 0.0989, step time: 1.0154  
Batch 217/248, train\_loss: 0.2606, step time: 1.0166  
Batch 218/248, train\_loss: 0.7389, step time: 1.0190  
Batch 219/248, train\_loss: 0.0733, step time: 1.0181  
Batch 220/248, train\_loss: 0.1736, step time: 1.0176  
Batch 221/248, train\_loss: 0.2084, step time: 1.0157  
Batch 222/248, train\_loss: 0.1816, step time: 1.0169  
Batch 223/248, train\_loss: 0.0407, step time: 1.0132  
Batch 224/248, train\_loss: 0.0721, step time: 1.0130  
Batch 225/248, train\_loss: 0.1330, step time: 1.0151  
Batch 226/248, train\_loss: 0.0890, step time: 1.0132  
Batch 227/248, train\_loss: 0.0793, step time: 1.0093  
Batch 228/248, train\_loss: 0.1188, step time: 1.0145  
Batch 229/248, train\_loss: 0.0890, step time: 1.0137  
Batch 230/248, train\_loss: 0.0663, step time: 1.0131  
Batch 231/248, train\_loss: 0.2431, step time: 1.0177  
Batch 232/248, train\_loss: 0.0703, step time: 1.0135  
Batch 233/248, train\_loss: 0.7189, step time: 1.0217  
Batch 234/248, train\_loss: 0.3792, step time: 1.0138  
Batch 235/248, train\_loss: 0.2657, step time: 1.0167

```
Batch 236/248, train_loss: 0.6930, step time: 1.0172
Batch 237/248, train_loss: 0.0897, step time: 1.0162
Batch 238/248, train_loss: 0.0939, step time: 1.0153
Batch 239/248, train_loss: 0.0526, step time: 1.0171
Batch 240/248, train_loss: 0.2276, step time: 1.0150
Batch 241/248, train_loss: 0.3469, step time: 1.0193
Batch 242/248, train_loss: 0.1277, step time: 1.0141
Batch 243/248, train_loss: 0.4724, step time: 1.0244
Batch 244/248, train_loss: 0.4052, step time: 1.0166
Batch 245/248, train_loss: 0.0589, step time: 1.0132
Batch 246/248, train_loss: 0.3622, step time: 1.0163
Batch 247/248, train_loss: 0.0683, step time: 1.0114
Batch 248/248, train_loss: 0.9996, step time: 1.0073
```

Labels



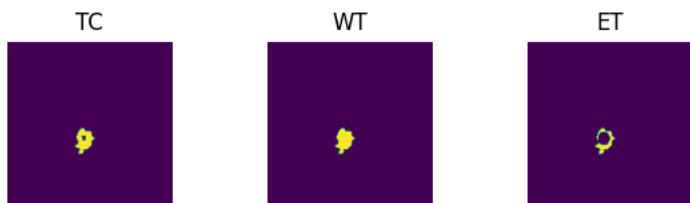
Predictions



#### VAL

```
Batch 1/31, val_loss: 0.9054
Batch 2/31, val_loss: 0.9899
Batch 3/31, val_loss: 0.9587
Batch 4/31, val_loss: 0.9390
Batch 5/31, val_loss: 0.9952
Batch 6/31, val_loss: 0.6916
Batch 7/31, val_loss: 0.8288
Batch 8/31, val_loss: 0.9667
Batch 9/31, val_loss: 0.6876
Batch 10/31, val_loss: 0.9008
Batch 11/31, val_loss: 0.8176
Batch 12/31, val_loss: 0.9774
Batch 13/31, val_loss: 0.9775
Batch 14/31, val_loss: 0.9522
Batch 15/31, val_loss: 0.9923
Batch 16/31, val_loss: 0.9697
Batch 17/31, val_loss: 0.9720
Batch 18/31, val_loss: 0.9444
Batch 19/31, val_loss: 0.7369
Batch 20/31, val_loss: 0.8772
Batch 21/31, val_loss: 0.8630
Batch 22/31, val_loss: 0.9708
Batch 23/31, val_loss: 0.9837
Batch 24/31, val_loss: 0.7452
Batch 25/31, val_loss: 0.7927
Batch 26/31, val_loss: 0.9153
Batch 27/31, val_loss: 0.9750
Batch 28/31, val_loss: 0.7475
Batch 29/31, val_loss: 0.9783
Batch 30/31, val_loss: 0.9549
Batch 31/31, val_loss: 0.9849
```

Labels



Predictions





```
epoch 99
average train loss: 0.2402
average validation loss: 0.9030
saved as best model: True
current mean dice: 0.5481
current TC dice: 0.5722
current WT dice: 0.5818
current ET dice: 0.5274
Best Mean Metric: 0.5481
time consuming of epoch 99 is: 1562.2472
-----
```

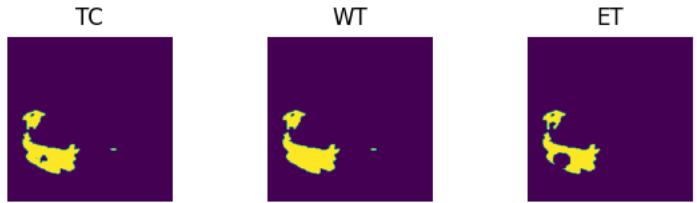
```
epoch 100/100
TRAIN
Batch 1/248, train_loss: 0.0734, step time: 1.0149
Batch 2/248, train_loss: 0.5912, step time: 1.0184
Batch 3/248, train_loss: 0.2481, step time: 1.0159
Batch 4/248, train_loss: 0.8397, step time: 1.0168
Batch 5/248, train_loss: 0.1749, step time: 1.0143
Batch 6/248, train_loss: 0.2734, step time: 1.0148
Batch 7/248, train_loss: 0.0603, step time: 1.0125
Batch 8/248, train_loss: 0.7036, step time: 1.0137
Batch 9/248, train_loss: 0.0327, step time: 1.0137
Batch 10/248, train_loss: 0.1974, step time: 1.0163
Batch 11/248, train_loss: 0.1266, step time: 1.0179
Batch 12/248, train_loss: 0.3448, step time: 1.0175
Batch 13/248, train_loss: 0.2339, step time: 1.0159
Batch 14/248, train_loss: 0.0521, step time: 1.0151
Batch 15/248, train_loss: 0.2885, step time: 1.0186
Batch 16/248, train_loss: 0.1446, step time: 1.0164
Batch 17/248, train_loss: 0.2157, step time: 1.0184
Batch 18/248, train_loss: 0.3727, step time: 1.0170
Batch 19/248, train_loss: 0.0950, step time: 1.0144
Batch 20/248, train_loss: 0.2001, step time: 1.0136
Batch 21/248, train_loss: 0.0516, step time: 1.0108
Batch 22/248, train_loss: 0.3752, step time: 1.0176
Batch 23/248, train_loss: 0.9979, step time: 1.0134
Batch 24/248, train_loss: 0.0755, step time: 1.0139
Batch 25/248, train_loss: 0.0518, step time: 1.0133
Batch 26/248, train_loss: 0.3111, step time: 1.0144
Batch 27/248, train_loss: 0.0707, step time: 1.0154
Batch 28/248, train_loss: 0.1491, step time: 1.0180
Batch 29/248, train_loss: 0.3197, step time: 1.0199
Batch 30/248, train_loss: 0.2044, step time: 1.0170
Batch 31/248, train_loss: 0.2509, step time: 1.0155
Batch 32/248, train_loss: 0.0626, step time: 1.0164
Batch 33/248, train_loss: 0.0663, step time: 1.0163
Batch 34/248, train_loss: 0.0464, step time: 1.0130
Batch 35/248, train_loss: 0.0380, step time: 1.0100
Batch 36/248, train_loss: 0.3698, step time: 1.0185
Batch 37/248, train_loss: 0.1281, step time: 1.0136
Batch 38/248, train_loss: 0.2492, step time: 1.0121
Batch 39/248, train_loss: 0.1688, step time: 1.0141
Batch 40/248, train_loss: 0.4753, step time: 1.0148
Batch 41/248, train_loss: 0.2080, step time: 1.0171
Batch 42/248, train_loss: 0.0572, step time: 1.0139
Batch 43/248, train_loss: 0.0613, step time: 1.0139
Batch 44/248, train_loss: 0.3259, step time: 1.0165
Batch 45/248, train_loss: 0.3533, step time: 1.0160
Batch 46/248, train_loss: 0.1575, step time: 1.0172
Batch 47/248, train_loss: 0.0596, step time: 1.0144
Batch 48/248, train_loss: 0.2179, step time: 1.0170
Batch 49/248, train_loss: 0.4743, step time: 1.0187
Batch 50/248, train_loss: 0.1530, step time: 1.0168
Batch 51/248, train_loss: 0.1070, step time: 1.0161
Batch 52/248, train_loss: 0.0842, step time: 1.0144
Batch 53/248, train_loss: 0.3888, step time: 1.0191
Batch 54/248, train_loss: 0.2071, step time: 1.0161
Batch 55/248, train_loss: 0.2750, step time: 1.0170
Batch 56/248, train_loss: 0.1794, step time: 1.0166
Batch 57/248, train_loss: 0.2134, step time: 1.0172
Batch 58/248, train_loss: 0.0661, step time: 1.0136
Batch 59/248, train_loss: 0.0859, step time: 1.0135
Batch 60/248, train_loss: 0.0463, step time: 1.0128
Batch 61/248, train_loss: 0.0860, step time: 1.0129
Batch 62/248, train_loss: 0.1979, step time: 1.0175
Batch 63/248, train_loss: 0.4222, step time: 1.0151
Batch 64/248, train_loss: 0.2649, step time: 1.0168
Batch 65/248, train_loss: 0.3091, step time: 1.0171
```

Batch 66/248, train\_loss: 0.1186, step time: 1.0180  
Batch 67/248, train\_loss: 0.0650, step time: 1.0101  
Batch 68/248, train\_loss: 0.1090, step time: 1.0160  
Batch 69/248, train\_loss: 0.2788, step time: 1.0188  
Batch 70/248, train\_loss: 0.1452, step time: 1.0145  
Batch 71/248, train\_loss: 0.1242, step time: 1.0163  
Batch 72/248, train\_loss: 0.0455, step time: 1.0134  
Batch 73/248, train\_loss: 0.1480, step time: 1.0174  
Batch 74/248, train\_loss: 0.9952, step time: 1.0153  
Batch 75/248, train\_loss: 0.1006, step time: 1.0160  
Batch 76/248, train\_loss: 0.4204, step time: 1.0175  
Batch 77/248, train\_loss: 0.7276, step time: 1.0166  
Batch 78/248, train\_loss: 0.1027, step time: 1.0176  
Batch 79/248, train\_loss: 0.1361, step time: 1.0169  
Batch 80/248, train\_loss: 0.1798, step time: 1.0175  
Batch 81/248, train\_loss: 0.1583, step time: 1.0166  
Batch 82/248, train\_loss: 0.0747, step time: 1.0143  
Batch 83/248, train\_loss: 0.4452, step time: 1.0183  
Batch 84/248, train\_loss: 0.2555, step time: 1.0162  
Batch 85/248, train\_loss: 0.2842, step time: 1.0170  
Batch 86/248, train\_loss: 0.2287, step time: 1.0134  
Batch 87/248, train\_loss: 0.4294, step time: 1.0141  
Batch 88/248, train\_loss: 0.2496, step time: 1.0152  
Batch 89/248, train\_loss: 0.0806, step time: 1.0178  
Batch 90/248, train\_loss: 0.2986, step time: 1.0181  
Batch 91/248, train\_loss: 0.2747, step time: 1.0159  
Batch 92/248, train\_loss: 0.2121, step time: 1.0116  
Batch 93/248, train\_loss: 0.1341, step time: 1.0141  
Batch 94/248, train\_loss: 0.3254, step time: 1.0198  
Batch 95/248, train\_loss: 0.1654, step time: 1.0153  
Batch 96/248, train\_loss: 0.1356, step time: 1.0152  
Batch 97/248, train\_loss: 0.2904, step time: 1.0174  
Batch 98/248, train\_loss: 0.1032, step time: 1.0173  
Batch 99/248, train\_loss: 0.2609, step time: 1.0177  
Batch 100/248, train\_loss: 0.1859, step time: 1.0176  
Batch 101/248, train\_loss: 0.0552, step time: 1.0137  
Batch 102/248, train\_loss: 0.1144, step time: 1.0159  
Batch 103/248, train\_loss: 0.2326, step time: 1.0138  
Batch 104/248, train\_loss: 0.3366, step time: 1.0156  
Batch 105/248, train\_loss: 0.0680, step time: 1.0108  
Batch 106/248, train\_loss: 0.1340, step time: 1.0160  
Batch 107/248, train\_loss: 0.2193, step time: 1.0172  
Batch 108/248, train\_loss: 0.4633, step time: 1.0205  
Batch 109/248, train\_loss: 0.6002, step time: 1.0165  
Batch 110/248, train\_loss: 0.1856, step time: 1.0184  
Batch 111/248, train\_loss: 0.0826, step time: 1.0149  
Batch 112/248, train\_loss: 0.0856, step time: 1.0156  
Batch 113/248, train\_loss: 0.7935, step time: 1.0198  
Batch 114/248, train\_loss: 0.1228, step time: 1.0173  
Batch 115/248, train\_loss: 0.1329, step time: 1.0161  
Batch 116/248, train\_loss: 0.0617, step time: 1.0129  
Batch 117/248, train\_loss: 0.4343, step time: 1.0177  
Batch 118/248, train\_loss: 0.3973, step time: 1.0173  
Batch 119/248, train\_loss: 0.2600, step time: 1.0149  
Batch 120/248, train\_loss: 0.1928, step time: 1.0145  
Batch 121/248, train\_loss: 0.2645, step time: 1.0201  
Batch 122/248, train\_loss: 0.2996, step time: 1.0149  
Batch 123/248, train\_loss: 0.0703, step time: 1.0153  
Batch 124/248, train\_loss: 0.3442, step time: 1.0159  
Batch 125/248, train\_loss: 0.4514, step time: 1.0162  
Batch 126/248, train\_loss: 0.2526, step time: 1.0173  
Batch 127/248, train\_loss: 0.1023, step time: 1.0174  
Batch 128/248, train\_loss: 0.1820, step time: 1.0188  
Batch 129/248, train\_loss: 0.0948, step time: 1.0152  
Batch 130/248, train\_loss: 0.0816, step time: 1.0133  
Batch 131/248, train\_loss: 0.2917, step time: 1.0189  
Batch 132/248, train\_loss: 0.2751, step time: 1.0140  
Batch 133/248, train\_loss: 0.1236, step time: 1.0121  
Batch 134/248, train\_loss: 0.5462, step time: 1.0141  
Batch 135/248, train\_loss: 0.3491, step time: 1.0183  
Batch 136/248, train\_loss: 0.0964, step time: 1.0125  
Batch 137/248, train\_loss: 0.1038, step time: 1.0123  
Batch 138/248, train\_loss: 0.0816, step time: 1.0113  
Batch 139/248, train\_loss: 0.1784, step time: 1.0166  
Batch 140/248, train\_loss: 0.1417, step time: 1.0169  
Batch 141/248, train\_loss: 0.1588, step time: 1.0153  
Batch 142/248, train\_loss: 0.3955, step time: 1.0155  
Batch 143/248, train\_loss: 0.2013, step time: 1.0172  
Batch 144/248, train\_loss: 0.1194, step time: 1.0160  
Batch 145/248, train\_loss: 0.0661, step time: 1.0110  
Batch 146/248, train\_loss: 0.2995, step time: 1.0164  
Batch 147/248, train\_loss: 0.0330, step time: 1.0084  
Batch 148/248, train\_loss: 0.4703, step time: 1.0174  
Batch 149/248, train\_loss: 0.1154, step time: 1.0134  
Batch 150/248, train\_loss: 0.6051, step time: 1.0184

Batch 151/248, train\_loss: 0.2434, step time: 1.0148  
Batch 152/248, train\_loss: 0.0358, step time: 1.0122  
Batch 153/248, train\_loss: 0.2415, step time: 1.0157  
Batch 154/248, train\_loss: 0.4843, step time: 1.0184  
Batch 155/248, train\_loss: 0.1297, step time: 1.0182  
Batch 156/248, train\_loss: 0.1624, step time: 1.0165  
Batch 157/248, train\_loss: 0.1817, step time: 1.0155  
Batch 158/248, train\_loss: 0.9818, step time: 1.0141  
Batch 159/248, train\_loss: 0.3084, step time: 1.0206  
Batch 160/248, train\_loss: 0.0863, step time: 1.0163  
Batch 161/248, train\_loss: 0.0777, step time: 1.0137  
Batch 162/248, train\_loss: 0.0663, step time: 1.0139  
Batch 163/248, train\_loss: 0.0881, step time: 1.0160  
Batch 164/248, train\_loss: 0.1411, step time: 1.0184  
Batch 165/248, train\_loss: 0.2520, step time: 1.0176  
Batch 166/248, train\_loss: 0.0836, step time: 1.0120  
Batch 167/248, train\_loss: 0.1564, step time: 1.0131  
Batch 168/248, train\_loss: 0.1368, step time: 1.0136  
Batch 169/248, train\_loss: 0.0838, step time: 1.0155  
Batch 170/248, train\_loss: 0.5797, step time: 1.0168  
Batch 171/248, train\_loss: 0.0782, step time: 1.0202  
Batch 172/248, train\_loss: 0.2172, step time: 1.0172  
Batch 173/248, train\_loss: 0.0856, step time: 1.0147  
Batch 174/248, train\_loss: 0.4248, step time: 1.0161  
Batch 175/248, train\_loss: 0.1380, step time: 1.0127  
Batch 176/248, train\_loss: 0.3129, step time: 1.0175  
Batch 177/248, train\_loss: 0.1838, step time: 1.0161  
Batch 178/248, train\_loss: 0.2194, step time: 1.0226  
Batch 179/248, train\_loss: 0.0768, step time: 1.0174  
Batch 180/248, train\_loss: 0.1175, step time: 1.0138  
Batch 181/248, train\_loss: 0.1091, step time: 1.0147  
Batch 182/248, train\_loss: 0.8820, step time: 1.0183  
Batch 183/248, train\_loss: 0.1111, step time: 1.0152  
Batch 184/248, train\_loss: 0.2268, step time: 1.0154  
Batch 185/248, train\_loss: 0.0819, step time: 1.0135  
Batch 186/248, train\_loss: 0.0785, step time: 1.0143  
Batch 187/248, train\_loss: 0.1505, step time: 1.0156  
Batch 188/248, train\_loss: 0.2394, step time: 1.0161  
Batch 189/248, train\_loss: 0.3447, step time: 1.0166  
Batch 190/248, train\_loss: 0.1258, step time: 1.0152  
Batch 191/248, train\_loss: 0.5284, step time: 1.0119  
Batch 192/248, train\_loss: 0.2534, step time: 1.0151  
Batch 193/248, train\_loss: 0.2834, step time: 1.0180  
Batch 194/248, train\_loss: 0.0721, step time: 1.0171  
Batch 195/248, train\_loss: 0.6094, step time: 1.0175  
Batch 196/248, train\_loss: 0.5357, step time: 1.0174  
Batch 197/248, train\_loss: 0.1918, step time: 1.0130  
Batch 198/248, train\_loss: 0.4339, step time: 1.0180  
Batch 199/248, train\_loss: 0.1135, step time: 1.0155  
Batch 200/248, train\_loss: 0.1191, step time: 1.0142  
Batch 201/248, train\_loss: 0.1166, step time: 1.0146  
Batch 202/248, train\_loss: 0.3151, step time: 1.0150  
Batch 203/248, train\_loss: 0.3924, step time: 1.0167  
Batch 204/248, train\_loss: 0.0725, step time: 1.0120  
Batch 205/248, train\_loss: 0.1986, step time: 1.0137  
Batch 206/248, train\_loss: 0.2209, step time: 1.0174  
Batch 207/248, train\_loss: 0.0683, step time: 1.0165  
Batch 208/248, train\_loss: 0.1215, step time: 1.0127  
Batch 209/248, train\_loss: 0.1701, step time: 1.0150  
Batch 210/248, train\_loss: 0.0612, step time: 1.0143  
Batch 211/248, train\_loss: 0.0574, step time: 1.0146  
Batch 212/248, train\_loss: 0.1957, step time: 1.0166  
Batch 213/248, train\_loss: 0.1570, step time: 1.0177  
Batch 214/248, train\_loss: 0.0642, step time: 1.0127  
Batch 215/248, train\_loss: 0.1399, step time: 1.0126  
Batch 216/248, train\_loss: 0.0931, step time: 1.0174  
Batch 217/248, train\_loss: 0.2387, step time: 1.0166  
Batch 218/248, train\_loss: 0.7029, step time: 1.0171  
Batch 219/248, train\_loss: 0.0556, step time: 1.0168  
Batch 220/248, train\_loss: 0.1912, step time: 1.0177  
Batch 221/248, train\_loss: 0.2515, step time: 1.0165  
Batch 222/248, train\_loss: 0.1919, step time: 1.0164  
Batch 223/248, train\_loss: 0.0393, step time: 1.0101  
Batch 224/248, train\_loss: 0.0875, step time: 1.0134  
Batch 225/248, train\_loss: 0.1209, step time: 1.0127  
Batch 226/248, train\_loss: 0.1189, step time: 1.0180  
Batch 227/248, train\_loss: 0.0826, step time: 1.0099  
Batch 228/248, train\_loss: 0.1447, step time: 1.0126  
Batch 229/248, train\_loss: 0.0993, step time: 1.0139  
Batch 230/248, train\_loss: 0.0573, step time: 1.0189  
Batch 231/248, train\_loss: 0.2474, step time: 1.0166  
Batch 232/248, train\_loss: 0.0725, step time: 1.0141  
Batch 233/248, train\_loss: 0.7432, step time: 1.0168  
Batch 234/248, train\_loss: 0.3998, step time: 1.0154  
Batch 235/248, train\_loss: 0.1789, step time: 1.0172

```
Batch 229/248, train_loss: 0.1700, step time: 1.0173
Batch 230/248, train_loss: 0.0945, step time: 1.0164
Batch 231/248, train_loss: 0.0925, step time: 1.0157
Batch 232/248, train_loss: 0.0552, step time: 1.0141
Batch 233/248, train_loss: 0.2244, step time: 1.0178
Batch 234/248, train_loss: 0.3508, step time: 1.0178
Batch 235/248, train_loss: 0.1244, step time: 1.0154
Batch 236/248, train_loss: 0.4207, step time: 1.0177
Batch 237/248, train_loss: 0.3481, step time: 1.0158
Batch 238/248, train_loss: 0.0600, step time: 1.0100
Batch 239/248, train_loss: 0.5114, step time: 1.0183
Batch 240/248, train_loss: 0.0681, step time: 1.0132
Batch 241/248, train_loss: 0.9994, step time: 1.0125
```

Labels



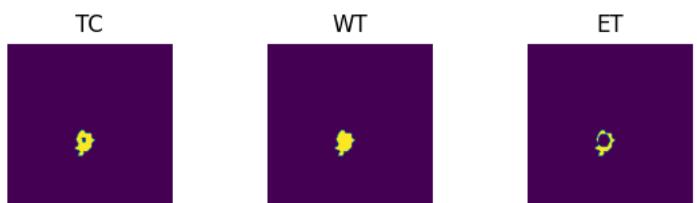
Predictions



#### VAL

```
Batch 1/31, val_loss: 0.8845
Batch 2/31, val_loss: 0.9900
Batch 3/31, val_loss: 0.9579
Batch 4/31, val_loss: 0.9365
Batch 5/31, val_loss: 0.9944
Batch 6/31, val_loss: 0.6894
Batch 7/31, val_loss: 0.8275
Batch 8/31, val_loss: 0.9595
Batch 9/31, val_loss: 0.6859
Batch 10/31, val_loss: 0.9016
Batch 11/31, val_loss: 0.8195
Batch 12/31, val_loss: 0.9760
Batch 13/31, val_loss: 0.9774
Batch 14/31, val_loss: 0.9458
Batch 15/31, val_loss: 0.9919
Batch 16/31, val_loss: 0.9717
Batch 17/31, val_loss: 0.9724
Batch 18/31, val_loss: 0.9366
Batch 19/31, val_loss: 0.7353
Batch 20/31, val_loss: 0.8704
Batch 21/31, val_loss: 0.8594
Batch 22/31, val_loss: 0.9708
Batch 23/31, val_loss: 0.9841
Batch 24/31, val_loss: 0.7424
Batch 25/31, val_loss: 0.7935
Batch 26/31, val_loss: 0.9149
Batch 27/31, val_loss: 0.9752
Batch 28/31, val_loss: 0.7398
Batch 29/31, val_loss: 0.9793
Batch 30/31, val_loss: 0.9539
Batch 31/31, val_loss: 0.9847
```

Labels



Predictions





```
epoch 100
  average train loss: 0.2304
  average validation loss: 0.9007
  saved as best model: False
  current mean dice: 0.5234
  current TC dice: 0.5492
  current WT dice: 0.5556
  current ET dice: 0.5053
Best Mean Metric: 0.5481
time consuming of epoch 100 is: 1581.3702
```





