SegResNet

Open in Colab

Environment Set Up

Requirements

```
!pip install monai[einops]
```

```
Collecting monai[einops]
  Downloading monai-1.3.1-py3-none-any.whl (1.4 MB)
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 1.4/1.4 MB 6.2 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 3.6 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 41.1 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: mpmath>=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-
Successfully installed einops-0.8.0 monai-1.3.1 nvidia-cublas-cu12-12.1.3.1 nvidia-cuda-cupti-cu12-12.1.105 nvidia-cuda-nvrtc-cu12-12.1.
```

Colab Integration

```
# Set up Colab Workspace
from google.colab import drive

drive.mount('/content/drive', force_remount=True)

!ln -s /content/drive/MyDrive/TFM/data /content/data
!ln -s /content/drive/MyDrive/TFM/utils /content/utils
!ln -s /content/drive/MyDrive/TFM/outputs /content/outputs
```

```
Mounted at /content/drive
```

Imports

```
# System
import os
import time
from math import nan

# Data Load & Visualization
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

# Monai
from monai.data import DataLoader
from monai.losses import DiceLoss
from monai.metrics import DiceMetric
from monai.data import decollate_batch
from monai.utils import set_determinism
from monai.handlers.utils import from_engine
from monai.inferers import sliding_window_inference

# PyTorch
import torch
from torch.utils.data import SequentialSampler

# Utils
from utils.Models import SEGRESNET
from utils.Transforms import Transforms
from utils.Plots import plot_gt_vs_pred
from utils.UCSF_Dataset import UCSF_Dataset
```

Config

```
# Check if CUDA is available
device = None
if torch.cuda.is_available():
    device = torch.device("cuda")
    print("Running on GPU")
else:
    device = torch.device("cpu")
    print("Running on CPU")

# Print the device
print(f"Device: {device}")
```

```
Running on GPU
Device: cuda
```

```
# Seeds
seed = 33
set_determinism(seed=seed) # Monai
np.random.seed(seed) # Numpy
torch.manual_seed(seed) # PyTorch
```

```
<torch._C.Generator at 0x7c91d3759a30>
```

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

User Configurations

```
# Model Configurations
model_name = "SegResNet"
model = SEGRESNET
b_size = 1 # Batch Size
t_size = None # Training Subjects (None for all)
v_size = None # Validation Subjects (None for all)
spatial_size = (240, 240, 160)
```

```
8
9 # Training Configuration
10 init_epoch = 0 # 0 if new training
11 best_epoch = None # Load model if not training from epoch 0 - None if new training
12 max_epochs = 100
13 best_metric = -1
14 best_metric_epoch = -1
15 if best_epoch is not None:
16     best_metric_epoch = best_epoch
17     if os.path.exists(f"outputs/{model_name}/{model_name}_metrics.csv"):
18        df = pd.read_csv(f"outputs/{model_name}/{model_name}_metrics.csv")
19        best_metric = df.loc[df["epoch"] == best_epoch]["metric"].values[0]
```

Load Data

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

	SubjectID	Sex	CancerType	ScannerType	In-plane voxel size (mm)	Matrix size	Prior Craniotomy/Biopsy/Resection	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

```
# Training
VAL_AMP = True
lr = 1e-4
weight_decay = 1e-5

# Report Frequency
plt_imgs = []
val_interval = 1
plot_interval = 1
best_metric_update = False
best_metric_update_epoch = best_epoch if best_epoch is not None else -1
max_step = len(train_dataset) // train_loader.batch_size - 1
max_val_step = len(val_dataset) // val_loader.batch_size - 3

# Metrics Storages
best_metrics_epochs_and_time = [[], [], []]
epoch_loss_values = []
val_loss_values = []
metric_values = []
metric_values_tc = []
metric_values_wt = []
metric_values_et = []
```

Model, Loss, Optimizer & Inference

```
# Model
model.to(device)

# Load model from file
if best_epoch is not None:
    if os.path.exists(f"outputs/{model_name}/{model_name}_{best_epoch}.pth"):
        model.load_state_dict(torch.load(f"outputs/{model_name}/{model_name}_{best_epoch}.pth"))

# Report File Headers
if best_epoch is None:
    with open(f"outputs/{model_name}/{model_name}_metrics.csv", "a") as f:
      f.write(f"epoch,metric,metric_tc,metric_wt,metric_et,train_loss,val_loss\n")

# Loss Function
loss_function = DiceLoss(smooth_nr=1e-5, smooth_dr=1e-5, squared_pred=True, to_onehot_y=False, sigmoid=True)

# Optimizer
optimizer = torch.optim.Adam(model.parameters(), lr, weight_decay=weight_decay)
lr_scheduler = torch.optim.lr_scheduler.CosineAnnealingLR(optimizer, T_max=max_epochs)

# Metrics
dice_metric = DiceMetric(include_background=True, reduction="mean")
dice_metric_batch = DiceMetric(include_background=True, reduction="mean_batch")

# Inference Method
def inference(input):
    def _compute(input):
        return sliding_window_inference(
            inputs=input,
            roi_size=spatial_size,
            sw_batch_size=1,
            predictor=model,
            overlap=0.5,
        )

    if VAL_AMP:
        with torch.cuda.amp.autocast():
            return _compute(input)
    else:
        return _compute(input)

# AMP to accelerate training
scaler = torch.cuda.amp.GradScaler()

# enable cuDNN benchmark
torch.backends.cudnn.benchmark = True
```

Training Process

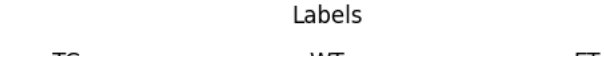
```
total_start = time.time()
for epoch in range(init_epoch, max_epochs):
    epoch_start = time.time()
    print("-" * 10)
    print(f"epoch {epoch + 1}/{max_epochs}")

    # TRAINING
    model.train()
    epoch_loss = 0
    step = 0
    print('TRAIN')
    for batch_data in train_loader:
        step_start = time.time()
        step += 1
        inputs, labels = (
            batch_data["image"].to(device),
            batch_data["label"].to(device),
        )
        optimizer.zero_grad()
        with torch.cuda.amp.autocast():
            outputs = model(inputs)
            loss = loss_function(outputs, labels)
        scaler.scale(loss).backward()
        scaler.step(optimizer)
        scaler.update()
        epoch_loss += loss.item()

        # Batch Information
        print(f"   Batch {step}/{len(train_dataset) // train_loader.batch_size}"
              f", train_loss: {loss.item():.4f}"
              f", step time: {(time.time() - step_start):.4f}")

        # Store the image to plot
        if step == max_step:
          plt_imgs = [labels[0], transforms.post()(outputs[0])]

    # Epoch Training Loss
    lr_scheduler.step()
    epoch_loss /= step
    epoch_loss_values.append(epoch_loss)

    # Plot the Img
    if (epoch + 1) % plot_interval == 0:
      plot_gt_vs_pred(plt_imgs[0], plt_imgs[1], True)

    # VALIDATION
    print('VAL')
    val_loss = 0
    val_step = 0
    if (epoch + 1) % val_interval == 0:
        model.eval()
        with torch.no_grad():
            best_val_dice = -1
            for val_data in val_loader:
                val_inputs, val_labels = (
                    val_data["image"].to(device),
                    val_data["label"].to(device),
                )
                val_step += 1
                val_outputs = inference(val_inputs)
                loss_value = loss_function(val_outputs[0], val_labels[0])
                val_loss += loss_value.item()

                val_outputs = [transforms.post()(x) for x in val_outputs]

                dice_metric(y_pred=val_outputs, y=val_labels)
                dice_metric_batch(y_pred=val_outputs, y=val_labels)

                # Batch Information
                print(f"   Batch {val_step}/{len(val_dataset) // val_loader.batch_size}"
                      f", val_loss: {loss_value.item():.4f}")

                # Store plot image
                if val_step == max_val_step:
                  plt_imgs = [val_labels[0], val_outputs[0]]

            # Record validation
```

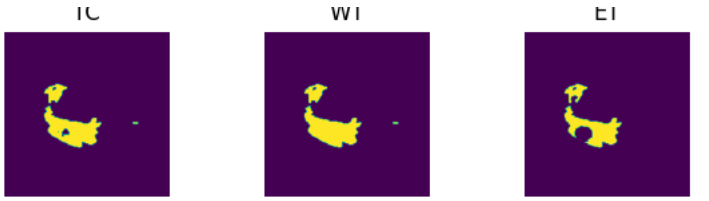
```
            # Epoch Validation Loss
            val_loss /= val_step
            val_loss_values.append(val_loss)

            # Plot the img
            if (epoch + 1) % plot_interval == 0:
              plot_gt_vs_pred(plt_imgs[0], plt_imgs[1], False)

            # Metric Calculation
            metric = dice_metric.aggregate().item()
            metric_values.append(metric)
            metric_batch = dice_metric_batch.aggregate()
            metric_tc = metric_batch[0].item()
            metric_values_tc.append(metric_tc)
            metric_wt = metric_batch[1].item()
            metric_values_wt.append(metric_wt)
            metric_et = metric_batch[2].item()
            metric_values_et.append(metric_et)
            dice_metric.reset()
            dice_metric_batch.reset()

            # Save Last State
            torch.save(
                    model.state_dict(),
                    os.path.join(f"outputs/{model_name}/last_{model_name}_{epoch+1}.pth"),
            )

            # Remove previous state
            if epoch > 0:
                os.remove(
                      os.path.join(f"outputs/{model_name}/last_{model_name}_{epoch}.pth")
                )

            # Update Best Metric
            if metric > best_metric:
                # Save best state
                best_metric = metric
                best_metric_epoch = epoch + 1
                best_metrics_epochs_and_time[0].append(best_metric)
                best_metrics_epochs_and_time[1].append(best_metric_epoch)
                best_metrics_epochs_and_time[2].append(time.time() - total_start)
                # Save best model
                torch.save(
                    model.state_dict(),
                    os.path.join(f"outputs/{model_name}/best_{model_name}_{epoch+1}.pth"),
                )
                # Remove previous best model
                if best_metric_update_epoch != -1:
                    os.remove(
                        os.path.join(f"outputs/{model_name}/best_{model_name}_{best_metric_update_epoch}.pth")
                    )
                # Update best epoch
                best_metric_update_epoch = epoch + 1
                best_metric_update = True

            # Save all metrics in csv
            with open(f"outputs/{model_name}/{model_name}_metrics.csv", "a") as f:
                f.write(f"{epoch + 1},{metric},{metric_tc},{metric_wt},{metric_et},{epoch_loss},{val_loss}\n")

    # REPORT
    print(f"epoch {epoch + 1}\n"
          f"   average train loss: {epoch_loss:.4f}\n"
          f"   average validation loss: {val_loss:.4f}\n"
          f"   saved as best model: {best_metric_update}\n"
          f"   current mean dice: {metric_values[-1]:.4f}\n"
          f"   current TC dice: {metric_values_tc[-1]:.4f}\n"
          f"   current WT dice: {metric_values_wt[-1]:.4f}\n"
          f"   current ET dice: {metric_values_et[-1]:.4f}")
    print(f"Best Mean Metric: {best_metric:.4f}")
    print(f"time consuming of epoch {epoch + 1} is: {(time.time() - epoch_start):.4f}")
    best_metric_update = False

    # When epoch ends, clean GPU memory
    torch.cuda.empty_cache()

total_time = time.time() - total_start
```

```
----------
epoch 1/100
TRAIN
   Batch 1/248, train_loss: 0.9669, step time: 7.8979
   Batch 2/248, train_loss: 0.9999, step time: 1.3022
   Batch 3/248, train_loss: 0.9993, step time: 1.2856
   Batch 4/248, train_loss: 0.9999, step time: 1.2840
   Batch 5/248, train_loss: 0.9969, step time: 1.3121
   Batch 6/248, train_loss: 0.9967, step time: 1.2996
   Batch 7/248, train_loss: 0.9381, step time: 1.2988
   Batch 8/248, train_loss: 0.9904, step time: 1.2996
   Batch 9/248, train_loss: 0.9659, step time: 1.3090
   Batch 10/248, train_loss: 0.9985, step time: 1.2801
   Batch 11/248, train_loss: 0.9970, step time: 1.2955
   Batch 12/248, train_loss: 0.9998, step time: 1.2902
   Batch 13/248, train_loss: 0.9989, step time: 1.2948
   Batch 14/248, train_loss: 0.9020, step time: 1.3029
   Batch 15/248, train_loss: 0.9977, step time: 1.3163
   Batch 16/248, train_loss: 0.9956, step time: 1.3225
   Batch 17/248, train_loss: 0.9998, step time: 1.3038
   Batch 18/248, train_loss: 0.9994, step time: 1.3141
   Batch 19/248, train_loss: 0.9553, step time: 1.3274
   Batch 20/248, train_loss: 0.9931, step time: 1.2991
   Batch 21/248, train_loss: 0.9739, step time: 1.3390
   Batch 22/248, train_loss: 1.0000, step time: 1.2958
   Batch 23/248, train_loss: 0.9999, step time: 1.3204
   Batch 24/248, train_loss: 0.9830, step time: 1.3147
   Batch 25/248, train_loss: 0.8713, step time: 1.3213
   Batch 26/248, train_loss: 0.9993, step time: 1.3029
   Batch 27/248, train_loss: 0.9267, step time: 1.3221
   Batch 28/248, train_loss: 0.9922, step time: 1.3030
   Batch 29/248, train_loss: 0.9997, step time: 1.3240
   Batch 30/248, train_loss: 0.9918, step time: 1.3060
   Batch 31/248, train_loss: 0.9977, step time: 1.3235
   Batch 32/248, train_loss: 0.9674, step time: 1.3240
   Batch 33/248, train_loss: 0.9227, step time: 1.3177
   Batch 34/248, train_loss: 0.9445, step time: 1.3409
   Batch 35/248, train_loss: 0.9745, step time: 1.3172
   Batch 36/248, train_loss: 0.9999, step time: 1.3009
   Batch 37/248, train_loss: 0.9791, step time: 1.3495
   Batch 38/248, train_loss: 0.9959, step time: 1.3180
   Batch 39/248, train_loss: 0.9847, step time: 1.3100
   Batch 40/248, train_loss: 1.0000, step time: 1.3166
   Batch 41/248, train_loss: 0.9589, step time: 1.3134
   Batch 42/248, train_loss: 0.9569, step time: 1.3329
   Batch 43/248, train_loss: 0.9333, step time: 1.3291
   Batch 44/248, train_loss: 0.9817, step time: 1.3045
   Batch 45/248, train_loss: 0.9973, step time: 1.3029
   Batch 46/248, train_loss: 0.9831, step time: 1.3307
   Batch 47/248, train_loss: 0.9895, step time: 1.3160
   Batch 48/248, train_loss: 0.9832, step time: 1.3016
   Batch 49/248, train_loss: 0.9995, step time: 1.3052
   Batch 50/248, train_loss: 0.9912, step time: 1.3376
   Batch 51/248, train_loss: 0.9906, step time: 1.3143
   Batch 52/248, train_loss: 0.9837, step time: 1.3218
   Batch 53/248, train_loss: 0.9964, step time: 1.3273
   Batch 54/248, train_loss: 0.9892, step time: 1.3404
   Batch 55/248, train_loss: 0.9984, step time: 1.3082
   Batch 56/248, train_loss: 0.9929, step time: 1.3318
   Batch 57/248, train_loss: 0.9909, step time: 1.3438
   Batch 58/248, train_loss: 0.9614, step time: 1.3482
   Batch 59/248, train_loss: 0.9707, step time: 1.3420
   Batch 60/248, train_loss: 0.9598, step time: 1.3294
   Batch 61/248, train_loss: 0.9733, step time: 1.3381
   Batch 62/248, train_loss: 0.9977, step time: 1.3236
   Batch 63/248, train_loss: 0.9994, step time: 1.3229
   Batch 64/248, train_loss: 0.9993, step time: 1.3338
   Batch 65/248, train_loss: 0.9937, step time: 1.3364
   Batch 66/248, train_loss: 0.9919, step time: 1.3512
   Batch 67/248, train_loss: 0.9122, step time: 1.3644
   Batch 68/248, train_loss: 0.9485, step time: 1.3598
   Batch 69/248, train_loss: 0.9999, step time: 1.3406
   Batch 70/248, train_loss: 0.9627, step time: 1.3562
   Batch 71/248, train_loss: 0.9422, step time: 1.3855
   Batch 72/248, train_loss: 0.9469, step time: 1.3819
   Batch 73/248, train_loss: 0.9528, step time: 1.3778
   Batch 74/248, train_loss: 0.9999, step time: 1.3397
   Batch 75/248, train_loss: 0.9608, step time: 1.3926
   Batch 76/248, train_loss: 0.9993, step time: 1.3807
   Batch 77/248, train_loss: 0.9998, step time: 1.3609
   Batch 78/248, train_loss: 0.9787, step time: 1.3560
   Batch 79/248, train_loss: 0.9887, step time: 1.3327
   Batch 80/248, train_loss: 0.9941, step time: 1.3464
   Batch 81/248, train_loss: 0.9968, step time: 1.3447
```

Batch 82/248, train_loss: 0.9569, step time: 1.3245
Batch 83/248, train_loss: 0.9992, step time: 1.3027
Batch 84/248, train_loss: 0.9894, step time: 1.3371
Batch 85/248, train_loss: 0.9996, step time: 1.3254
Batch 86/248, train_loss: 0.9697, step time: 1.3330
Batch 87/248, train_loss: 0.9990, step time: 1.3046
Batch 88/248, train_loss: 0.9985, step time: 1.3295
Batch 89/248, train_loss: 0.8887, step time: 1.3236
Batch 90/248, train_loss: 0.9907, step time: 1.3330
Batch 91/248, train_loss: 0.9997, step time: 1.3242
Batch 92/248, train_loss: 0.9884, step time: 1.3012
Batch 93/248, train_loss: 0.9509, step time: 1.3282
Batch 94/248, train_loss: 0.9996, step time: 1.3213
Batch 95/248, train_loss: 0.9759, step time: 1.3392
Batch 96/248, train_loss: 0.9773, step time: 1.3296
Batch 97/248, train_loss: 1.0000, step time: 1.3169
Batch 98/248, train_loss: 0.9393, step time: 1.3289
Batch 99/248, train_loss: 0.9989, step time: 1.3121
Batch 100/248, train_loss: 0.9998, step time: 1.3427
Batch 101/248, train_loss: 0.8647, step time: 1.3398
Batch 102/248, train_loss: 0.9851, step time: 1.3469
Batch 103/248, train_loss: 0.9992, step time: 1.3486
Batch 104/248, train_loss: 0.9795, step time: 1.3477
Batch 105/248, train_loss: 0.9318, step time: 1.3329
Batch 106/248, train_loss: 0.9907, step time: 1.3224
Batch 107/248, train_loss: 0.9985, step time: 1.3036
Batch 108/248, train_loss: 0.9989, step time: 1.3066
Batch 109/248, train_loss: 0.9997, step time: 1.2789
Batch 110/248, train_loss: 0.9960, step time: 1.3093
Batch 111/248, train_loss: 0.9356, step time: 1.3103
Batch 112/248, train_loss: 0.9424, step time: 1.3133
Batch 113/248, train_loss: 0.9999, step time: 1.2881
Batch 114/248, train_loss: 0.8957, step time: 1.3432
Batch 115/248, train_loss: 0.9813, step time: 1.3056
Batch 116/248, train_loss: 0.9343, step time: 1.3125
Batch 117/248, train_loss: 0.9996, step time: 1.3029
Batch 118/248, train_loss: 0.9989, step time: 1.3316
Batch 119/248, train_loss: 0.9898, step time: 1.3347
Batch 120/248, train_loss: 0.9864, step time: 1.3272
Batch 121/248, train_loss: 0.9969, step time: 1.3059
Batch 122/248, train_loss: 0.9985, step time: 1.2956
Batch 123/248, train_loss: 0.9604, step time: 1.2900
Batch 124/248, train_loss: 0.9986, step time: 1.3135
Batch 125/248, train_loss: 0.9997, step time: 1.3147
Batch 126/248, train_loss: 0.9308, step time: 1.3323
Batch 127/248, train_loss: 0.9855, step time: 1.3204
Batch 128/248, train_loss: 0.9931, step time: 1.3050
Batch 129/248, train_loss: 0.9029, step time: 1.3177
Batch 130/248, train_loss: 0.9087, step time: 1.3115
Batch 131/248, train_loss: 0.9982, step time: 1.3205
Batch 132/248, train_loss: 0.9980, step time: 1.3021
Batch 133/248, train_loss: 0.8381, step time: 1.3172
Batch 134/248, train_loss: 1.0000, step time: 1.3027
Batch 135/248, train_loss: 0.9994, step time: 1.3020
Batch 136/248, train_loss: 0.9916, step time: 1.3201
Batch 137/248, train_loss: 0.9140, step time: 1.2947
Batch 138/248, train_loss: 0.9306, step time: 1.2905
Batch 139/248, train_loss: 0.9415, step time: 1.2963
Batch 140/248, train_loss: 0.9914, step time: 1.2889
Batch 141/248, train_loss: 0.9636, step time: 1.3187
Batch 142/248, train_loss: 0.9994, step time: 1.3171
Batch 143/248, train_loss: 0.9921, step time: 1.3080
Batch 144/248, train_loss: 0.9308, step time: 1.3244
Batch 145/248, train_loss: 0.8455, step time: 1.3071
Batch 146/248, train_loss: 0.9996, step time: 1.2975
Batch 147/248, train_loss: 0.8444, step time: 1.3047
Batch 148/248, train_loss: 0.9979, step time: 1.3074
Batch 149/248, train_loss: 0.9824, step time: 1.3060
Batch 150/248, train_loss: 0.9640, step time: 1.3381
Batch 151/248, train_loss: 0.9982, step time: 1.3338
Batch 152/248, train_loss: 0.8566, step time: 1.3260
Batch 153/248, train_loss: 0.9973, step time: 1.2994
Batch 154/248, train_loss: 0.9995, step time: 1.3032
Batch 155/248, train_loss: 0.9818, step time: 1.3080
Batch 156/248, train_loss: 0.9851, step time: 1.3353
Batch 157/248, train_loss: 0.9464, step time: 1.3501
Batch 158/248, train_loss: 0.9998, step time: 1.3447
Batch 159/248, train_loss: 0.9998, step time: 1.3332
Batch 160/248, train_loss: 0.9562, step time: 1.3295
Batch 161/248, train_loss: 0.9810, step time: 1.3341
Batch 162/248, train_loss: 0.8238, step time: 1.3571
Batch 163/248, train_loss: 0.9985, step time: 1.3542
Batch 164/248, train_loss: 0.9829, step time: 1.3397
Batch 165/248, train_loss: 0.9998, step time: 1.3260
Batch 166/248, train_loss: 0.9961, step time: 1.3522

```
Batch 167/248, train_loss: 0.9852, step time: 1.3328
Batch 168/248, train_loss: 0.9831, step time: 1.3299
Batch 169/248, train_loss: 0.9592, step time: 1.3278
Batch 170/248, train_loss: 0.9989, step time: 1.3241
Batch 171/248, train_loss: 0.8726, step time: 1.3435
Batch 172/248, train_loss: 0.9999, step time: 1.3033
Batch 173/248, train_loss: 0.9268, step time: 1.3040
Batch 174/248, train_loss: 0.9993, step time: 1.3047
Batch 175/248, train_loss: 0.8937, step time: 1.3281
Batch 176/248, train_loss: 0.9915, step time: 1.3042
Batch 177/248, train_loss: 0.9997, step time: 1.2983
Batch 178/248, train_loss: 0.9535, step time: 1.3187
Batch 179/248, train_loss: 0.7888, step time: 1.3442
Batch 180/248, train_loss: 0.9824, step time: 1.3047
Batch 181/248, train_loss: 0.9158, step time: 1.3071
Batch 182/248, train_loss: 0.9969, step time: 1.3004
Batch 183/248, train_loss: 0.9820, step time: 1.3069
Batch 184/248, train_loss: 0.9963, step time: 1.3157
Batch 185/248, train_loss: 0.9807, step time: 1.3177
Batch 186/248, train_loss: 0.9592, step time: 1.3315
Batch 187/248, train_loss: 0.9665, step time: 1.3046
Batch 188/248, train_loss: 0.9834, step time: 1.2966
Batch 189/248, train_loss: 0.9999, step time: 1.3029
Batch 190/248, train_loss: 0.9625, step time: 1.3096
Batch 191/248, train_loss: 0.9998, step time: 1.3000
Batch 192/248, train_loss: 0.9580, step time: 1.2947
Batch 193/248, train_loss: 0.9906, step time: 1.3010
Batch 194/248, train_loss: 0.9890, step time: 1.3186
Batch 195/248, train_loss: 0.9998, step time: 1.2926
Batch 196/248, train_loss: 1.0000, step time: 1.2945
Batch 197/248, train_loss: 0.9945, step time: 1.2884
Batch 198/248, train_loss: 1.0000, step time: 1.3095
Batch 199/248, train_loss: 0.9834, step time: 1.3131
Batch 200/248, train_loss: 0.9816, step time: 1.2892
Batch 201/248, train_loss: 0.9525, step time: 1.3185
Batch 202/248, train_loss: 0.9905, step time: 1.2858
Batch 203/248, train_loss: 0.9993, step time: 1.2989
Batch 204/248, train_loss: 0.8913, step time: 1.3094
Batch 205/248, train_loss: 0.9967, step time: 1.3070
Batch 206/248, train_loss: 0.9998, step time: 1.3072
Batch 207/248, train_loss: 0.9460, step time: 1.2993
Batch 208/248, train_loss: 0.9808, step time: 1.3168
Batch 209/248, train_loss: 0.9710, step time: 1.2909
Batch 210/248, train_loss: 0.9445, step time: 1.2933
Batch 211/248, train_loss: 0.9399, step time: 1.3218
Batch 212/248, train_loss: 0.9923, step time: 1.3126
Batch 213/248, train_loss: 0.9907, step time: 1.3060
Batch 214/248, train_loss: 0.9648, step time: 1.3111
Batch 215/248, train_loss: 0.9936, step time: 1.3114
Batch 216/248, train_loss: 0.9468, step time: 1.2943
Batch 217/248, train_loss: 0.9966, step time: 1.3160
Batch 218/248, train_loss: 0.9997, step time: 1.3068
Batch 219/248, train_loss: 0.9652, step time: 1.2912
Batch 220/248, train_loss: 0.9936, step time: 1.3093
Batch 221/248, train_loss: 0.9929, step time: 1.3279
Batch 222/248, train_loss: 0.9513, step time: 1.3170
Batch 223/248, train_loss: 0.9036, step time: 1.3178
Batch 224/248, train_loss: 0.9362, step time: 1.3057
Batch 225/248, train_loss: 0.9997, step time: 1.3059
Batch 226/248, train_loss: 0.9965, step time: 1.2999
Batch 227/248, train_loss: 0.9651, step time: 1.3066
Batch 228/248, train_loss: 0.9923, step time: 1.3014
Batch 229/248, train_loss: 0.8981, step time: 1.3269
Batch 230/248, train_loss: 0.9678, step time: 1.2984
Batch 231/248, train_loss: 0.9995, step time: 1.2955
Batch 232/248, train_loss: 0.9650, step time: 1.3094
Batch 233/248, train_loss: 1.0000, step time: 1.2840
Batch 234/248, train_loss: 0.9989, step time: 1.3111
Batch 235/248, train_loss: 0.9993, step time: 1.2896
Batch 236/248, train_loss: 0.9996, step time: 1.2876
Batch 237/248, train_loss: 0.9159, step time: 1.2890
Batch 238/248, train_loss: 0.9547, step time: 1.3133
Batch 239/248, train_loss: 0.7533, step time: 1.3248
Batch 240/248, train_loss: 0.9894, step time: 1.3236
Batch 241/248, train_loss: 0.9999, step time: 1.2786
Batch 242/248, train_loss: 0.9959, step time: 1.3144
Batch 243/248, train_loss: 0.9997, step time: 1.2812
Batch 244/248, train_loss: 0.9988, step time: 1.3044
Batch 245/248, train_loss: 0.9465, step time: 1.3093
Batch 246/248, train_loss: 0.9988, step time: 1.2921
Batch 247/248, train_loss: 0.8267, step time: 1.3009
Batch 248/248, train_loss: 1.0000, step time: 1.3034
```

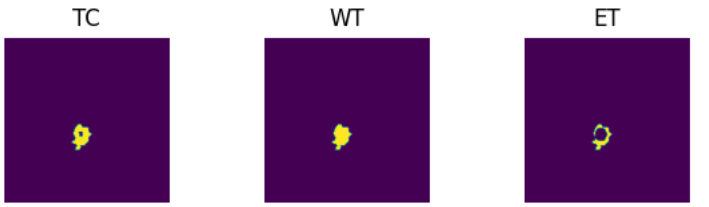




Predictions

```
VAL
   Batch 1/31, val_loss: 0.9825
   Batch 2/31, val_loss: 1.0000
   Batch 3/31, val_loss: 0.9998
   Batch 4/31, val_loss: 0.9981
   Batch 5/31, val_loss: 1.0000
   Batch 6/31, val_loss: 0.8990
   Batch 7/31, val_loss: 0.9773
   Batch 8/31, val_loss: 0.9982
   Batch 9/31, val_loss: 0.9152
   Batch 10/31, val_loss: 0.9971
   Batch 11/31, val_loss: 0.9847
   Batch 12/31, val_loss: 0.9992
   Batch 13/31, val_loss: 0.9987
   Batch 14/31, val_loss: 0.9982
   Batch 15/31, val_loss: 1.0000
   Batch 16/31, val_loss: 0.9995
   Batch 17/31, val_loss: 0.9998
   Batch 18/31, val_loss: 0.9985
   Batch 19/31, val_loss: 0.9591
   Batch 20/31, val_loss: 0.9811
   Batch 21/31, val_loss: 0.9924
   Batch 22/31, val_loss: 0.9997
   Batch 23/31, val_loss: 0.9997
   Batch 24/31, val_loss: 0.8769
   Batch 25/31, val_loss: 0.9712
   Batch 26/31, val_loss: 0.9948
   Batch 27/31, val_loss: 0.9999
   Batch 28/31, val_loss: 0.9674
   Batch 29/31, val_loss: 0.9999
   Batch 30/31, val_loss: 0.9995
   Batch 31/31, val_loss: 0.9992
```

Labels



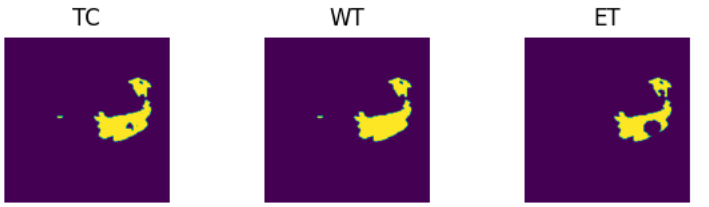
Predictions

```
epoch 1
   average train loss: 0.9720
   average validation loss: 0.9834
   saved as best model: True
   current mean dice: 0.1061
   current TC dice: 0.1181
   current WT dice: 0.1104
   current ET dice: 0.0995
Best Mean Metric: 0.1061
```

```
time consuming of epoch 1 is: 2268.2765
----------
epoch 2/100
TRAIN
   Batch 1/248, train_loss: 0.8843, step time: 1.3741
   Batch 2/248, train_loss: 0.9999, step time: 1.3060
   Batch 3/248, train_loss: 0.9981, step time: 1.3245
   Batch 4/248, train_loss: 0.9999, step time: 1.3218
   Batch 5/248, train_loss: 0.9905, step time: 1.3431
   Batch 6/248, train_loss: 0.9896, step time: 1.3246
   Batch 7/248, train_loss: 0.8334, step time: 1.3301
   Batch 8/248, train_loss: 0.9742, step time: 1.3139
   Batch 9/248, train_loss: 0.8957, step time: 1.3086
   Batch 10/248, train_loss: 0.9961, step time: 1.3139
   Batch 11/248, train_loss: 0.9924, step time: 1.3323
   Batch 12/248, train_loss: 0.9998, step time: 1.2999
   Batch 13/248, train_loss: 0.9973, step time: 1.3174
   Batch 14/248, train_loss: 0.8077, step time: 1.3107
   Batch 15/248, train_loss: 0.9952, step time: 1.3119
   Batch 16/248, train_loss: 0.9880, step time: 1.3425
   Batch 17/248, train_loss: 0.9998, step time: 1.3155
   Batch 18/248, train_loss: 0.9986, step time: 1.3473
   Batch 19/248, train_loss: 0.9012, step time: 1.3367
   Batch 20/248, train_loss: 0.9853, step time: 1.3353
   Batch 21/248, train_loss: 0.9535, step time: 1.3457
   Batch 22/248, train_loss: 0.9999, step time: 1.2832
   Batch 23/248, train_loss: 0.9999, step time: 1.2884
   Batch 24/248, train_loss: 0.9627, step time: 1.3186
   Batch 25/248, train_loss: 0.8101, step time: 1.3214
   Batch 26/248, train_loss: 0.9990, step time: 1.3088
   Batch 27/248, train_loss: 0.8887, step time: 1.3011
   Batch 28/248, train_loss: 0.9881, step time: 1.3247
   Batch 29/248, train_loss: 0.9995, step time: 1.3018
   Batch 30/248, train_loss: 0.9941, step time: 1.3028
   Batch 31/248, train_loss: 0.9955, step time: 1.2979
   Batch 32/248, train_loss: 0.9558, step time: 1.3193
   Batch 33/248, train_loss: 0.8913, step time: 1.3073
   Batch 34/248, train_loss: 0.9237, step time: 1.3130
   Batch 35/248, train_loss: 0.9640, step time: 1.3117
   Batch 36/248, train_loss: 0.9999, step time: 1.3088
   Batch 37/248, train_loss: 0.9701, step time: 1.3027
   Batch 38/248, train_loss: 0.9938, step time: 1.3060
   Batch 39/248, train_loss: 0.9730, step time: 1.3099
   Batch 40/248, train_loss: 1.0000, step time: 1.3092
   Batch 41/248, train_loss: 0.9422, step time: 1.2999
   Batch 42/248, train_loss: 0.9415, step time: 1.3163
   Batch 43/248, train_loss: 0.9094, step time: 1.3146
   Batch 44/248, train_loss: 0.9792, step time: 1.3169
   Batch 45/248, train_loss: 0.9956, step time: 1.3071
   Batch 46/248, train_loss: 0.9767, step time: 1.2850
   Batch 47/248, train_loss: 0.9862, step time: 1.3305
   Batch 48/248, train_loss: 0.9768, step time: 1.2905
   Batch 49/248, train_loss: 0.9993, step time: 1.2967
   Batch 50/248, train_loss: 0.9878, step time: 1.3040
   Batch 51/248, train_loss: 0.9852, step time: 1.2918
   Batch 52/248, train_loss: 0.9773, step time: 1.3020
   Batch 53/248, train_loss: 0.9952, step time: 1.3117
   Batch 54/248, train_loss: 0.9837, step time: 1.2893
   Batch 55/248, train_loss: 0.9963, step time: 1.3058
   Batch 56/248, train_loss: 0.9850, step time: 1.2950
   Batch 57/248, train_loss: 0.9878, step time: 1.3181
   Batch 58/248, train_loss: 0.9480, step time: 1.3277
   Batch 59/248, train_loss: 0.9590, step time: 1.3104
   Batch 60/248, train_loss: 0.9446, step time: 1.3100
   Batch 61/248, train_loss: 0.9619, step time: 1.3228
   Batch 62/248, train_loss: 0.9961, step time: 1.2936
   Batch 63/248, train_loss: 0.9992, step time: 1.2890
   Batch 64/248, train_loss: 0.9987, step time: 1.3075
   Batch 65/248, train_loss: 0.9888, step time: 1.2994
   Batch 66/248, train_loss: 0.9884, step time: 1.3067
   Batch 67/248, train_loss: 0.8787, step time: 1.3222
   Batch 68/248, train_loss: 0.9286, step time: 1.3260
   Batch 69/248, train_loss: 0.9999, step time: 1.2959
   Batch 70/248, train_loss: 0.9492, step time: 1.3162
   Batch 71/248, train_loss: 0.9195, step time: 1.3517
   Batch 72/248, train_loss: 0.9275, step time: 1.3280
   Batch 73/248, train_loss: 0.9382, step time: 1.3138
   Batch 74/248, train_loss: 0.9999, step time: 1.3289
   Batch 75/248, train_loss: 0.9428, step time: 1.3054
   Batch 76/248, train_loss: 0.9991, step time: 1.2979
   Batch 77/248, train_loss: 0.9998, step time: 1.2982
   Batch 78/248, train_loss: 0.9710, step time: 1.3117
   Batch 79/248, train_loss: 0.9852, step time: 1.3254
   Batch 80/248, train_loss: 0.9907, step time: 1.3097
   Batch 81/248, train_loss: 0.9941, step time: 1.3273
```

```
Batch 82/248, train_loss: 0.9403, step time: 1.3160
Batch 83/248, train_loss: 0.9990, step time: 1.3005
Batch 84/248, train_loss: 0.9856, step time: 1.3206
Batch 85/248, train_loss: 0.9994, step time: 1.3177
Batch 86/248, train_loss: 0.9559, step time: 1.3178
Batch 87/248, train_loss: 0.9982, step time: 1.3103
Batch 88/248, train_loss: 0.9978, step time: 1.3118
Batch 89/248, train_loss: 0.8490, step time: 1.3349
Batch 90/248, train_loss: 0.9854, step time: 1.3244
Batch 91/248, train_loss: 0.9992, step time: 1.2954
Batch 92/248, train_loss: 0.9827, step time: 1.2880
Batch 93/248, train_loss: 0.9321, step time: 1.3123
Batch 94/248, train_loss: 0.9992, step time: 1.2938
Batch 95/248, train_loss: 0.9675, step time: 1.3223
Batch 96/248, train_loss: 0.9652, step time: 1.3054
Batch 97/248, train_loss: 1.0000, step time: 1.2992
Batch 98/248, train_loss: 0.9158, step time: 1.3173
Batch 99/248, train_loss: 0.9980, step time: 1.3278
Batch 100/248, train_loss: 0.9998, step time: 1.2911
Batch 101/248, train_loss: 0.8184, step time: 1.3159
Batch 102/248, train_loss: 0.9783, step time: 1.3153
Batch 103/248, train_loss: 0.9988, step time: 1.2943
Batch 104/248, train_loss: 0.9688, step time: 1.3254
Batch 105/248, train_loss: 0.9090, step time: 1.2993
Batch 106/248, train_loss: 0.9874, step time: 1.2962
Batch 107/248, train_loss: 0.9975, step time: 1.3032
Batch 108/248, train_loss: 0.9986, step time: 1.3172
Batch 109/248, train_loss: 0.9996, step time: 1.3087
Batch 110/248, train_loss: 0.9940, step time: 1.2940
Batch 111/248, train_loss: 0.9150, step time: 1.3006
Batch 112/248, train_loss: 0.9205, step time: 1.3218
Batch 113/248, train_loss: 0.9999, step time: 1.3031
Batch 114/248, train_loss: 0.8616, step time: 1.3018
Batch 115/248, train_loss: 0.9746, step time: 1.3070
Batch 116/248, train_loss: 0.9104, step time: 1.3084
Batch 117/248, train_loss: 0.9995, step time: 1.2941
Batch 118/248, train_loss: 0.9978, step time: 1.3204
Batch 119/248, train_loss: 0.9795, step time: 1.3081
Batch 120/248, train_loss: 0.9808, step time: 1.3107
Batch 121/248, train_loss: 0.9950, step time: 1.2843
Batch 122/248, train_loss: 0.9975, step time: 1.3093
Batch 123/248, train_loss: 0.9462, step time: 1.3319
Batch 124/248, train_loss: 0.9973, step time: 1.3247
Batch 125/248, train_loss: 0.9996, step time: 1.3287
Batch 126/248, train_loss: 0.9092, step time: 1.3018
Batch 127/248, train_loss: 0.9805, step time: 1.3239
Batch 128/248, train_loss: 0.9910, step time: 1.3124
Batch 129/248, train_loss: 0.8666, step time: 1.3082
Batch 130/248, train_loss: 0.8766, step time: 1.3421
Batch 131/248, train_loss: 0.9971, step time: 1.3131
Batch 132/248, train_loss: 0.9973, step time: 1.3233
Batch 133/248, train_loss: 0.7831, step time: 1.3129
Batch 134/248, train_loss: 1.0000, step time: 1.3007
Batch 135/248, train_loss: 0.9990, step time: 1.2929
Batch 136/248, train_loss: 0.9886, step time: 1.3123
Batch 137/248, train_loss: 0.8820, step time: 1.3024
Batch 138/248, train_loss: 0.9080, step time: 1.3006
Batch 139/248, train_loss: 0.9136, step time: 1.3335
Batch 140/248, train_loss: 0.9880, step time: 1.3154
Batch 141/248, train_loss: 0.9456, step time: 1.3233
Batch 142/248, train_loss: 0.9993, step time: 1.3086
Batch 143/248, train_loss: 0.9889, step time: 1.2946
Batch 144/248, train_loss: 0.9092, step time: 1.2929
Batch 145/248, train_loss: 0.7944, step time: 1.3093
Batch 146/248, train_loss: 0.9996, step time: 1.3291
Batch 147/248, train_loss: 0.7865, step time: 1.3221
Batch 148/248, train_loss: 0.9972, step time: 1.3184
Batch 149/248, train_loss: 0.9747, step time: 1.3036
Batch 150/248, train_loss: 0.9507, step time: 1.3051
Batch 151/248, train_loss: 0.9967, step time: 1.2852
Batch 152/248, train_loss: 0.8109, step time: 1.3151
Batch 153/248, train_loss: 0.9961, step time: 1.3020
Batch 154/248, train_loss: 0.9992, step time: 1.2807
Batch 155/248, train_loss: 0.9753, step time: 1.3227
Batch 156/248, train_loss: 0.9783, step time: 1.2960
Batch 157/248, train_loss: 0.9258, step time: 1.3221
Batch 158/248, train_loss: 0.9997, step time: 1.2856
Batch 159/248, train_loss: 0.9998, step time: 1.2926
Batch 160/248, train_loss: 0.9438, step time: 1.3452
Batch 161/248, train_loss: 0.9761, step time: 1.3216
Batch 162/248, train_loss: 0.7704, step time: 1.3375
Batch 163/248, train_loss: 0.9979, step time: 1.3153
Batch 164/248, train_loss: 0.9782, step time: 1.3347
Batch 165/248, train_loss: 0.9997, step time: 1.3020
Batch 166/248, train_loss: 0.9951, step time: 1.2993
```

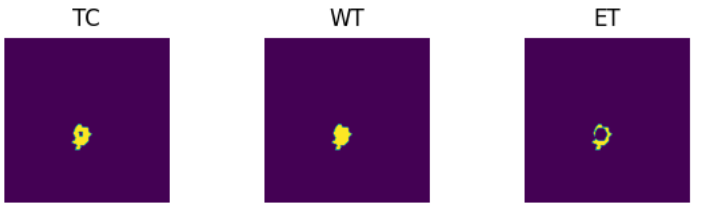
Batch 167/248, train_loss: 0.9795, step time: 1.3149
Batch 168/248, train_loss: 0.9775, step time: 1.3351
Batch 169/248, train_loss: 0.9471, step time: 1.3002
Batch 170/248, train_loss: 0.9986, step time: 1.3140
Batch 171/248, train_loss: 0.8358, step time: 1.3196
Batch 172/248, train_loss: 0.9999, step time: 1.3074
Batch 173/248, train_loss: 0.9080, step time: 1.3231
Batch 174/248, train_loss: 0.9988, step time: 1.3110
Batch 175/248, train_loss: 0.8660, step time: 1.3103
Batch 176/248, train_loss: 0.9885, step time: 1.3026
Batch 177/248, train_loss: 0.9996, step time: 1.2832
Batch 178/248, train_loss: 0.9400, step time: 1.3373
Batch 179/248, train_loss: 0.7352, step time: 1.3286
Batch 180/248, train_loss: 0.9771, step time: 1.3222
Batch 181/248, train_loss: 0.8911, step time: 1.3308
Batch 182/248, train_loss: 0.9955, step time: 1.3067
Batch 183/248, train_loss: 0.9761, step time: 1.3187
Batch 184/248, train_loss: 0.9955, step time: 1.3000
Batch 185/248, train_loss: 0.9750, step time: 1.3238
Batch 186/248, train_loss: 0.9474, step time: 1.3148
Batch 187/248, train_loss: 0.9541, step time: 1.3259
Batch 188/248, train_loss: 0.9769, step time: 1.3003
Batch 189/248, train_loss: 0.9999, step time: 1.3190
Batch 190/248, train_loss: 0.9518, step time: 1.3275
Batch 191/248, train_loss: 0.9998, step time: 1.3066
Batch 192/248, train_loss: 0.9445, step time: 1.3092
Batch 193/248, train_loss: 0.9875, step time: 1.3134
Batch 194/248, train_loss: 0.9853, step time: 1.3111
Batch 195/248, train_loss: 0.9998, step time: 1.2956
Batch 196/248, train_loss: 1.0000, step time: 1.3075
Batch 197/248, train_loss: 0.9923, step time: 1.3290
Batch 198/248, train_loss: 1.0000, step time: 1.2821
Batch 199/248, train_loss: 0.9778, step time: 1.3116
Batch 200/248, train_loss: 0.9743, step time: 1.3150
Batch 201/248, train_loss: 0.9406, step time: 1.3354
Batch 202/248, train_loss: 0.9870, step time: 1.3285
Batch 203/248, train_loss: 0.9991, step time: 1.3188
Batch 204/248, train_loss: 0.8676, step time: 1.2959
Batch 205/248, train_loss: 0.9944, step time: 1.3190
Batch 206/248, train_loss: 0.9997, step time: 1.3010
Batch 207/248, train_loss: 0.9317, step time: 1.3011
Batch 208/248, train_loss: 0.9749, step time: 1.3222
Batch 209/248, train_loss: 0.9642, step time: 1.2958
Batch 210/248, train_loss: 0.9312, step time: 1.2986
Batch 211/248, train_loss: 0.9253, step time: 1.3200
Batch 212/248, train_loss: 0.9904, step time: 1.3236
Batch 213/248, train_loss: 0.9891, step time: 1.3292
Batch 214/248, train_loss: 0.9550, step time: 1.3209
Batch 215/248, train_loss: 0.9922, step time: 1.2985
Batch 216/248, train_loss: 0.9325, step time: 1.3028
Batch 217/248, train_loss: 0.9958, step time: 1.3140
Batch 218/248, train_loss: 0.9997, step time: 1.3309
Batch 219/248, train_loss: 0.9559, step time: 1.3396
Batch 220/248, train_loss: 0.9921, step time: 1.3091
Batch 221/248, train_loss: 0.9908, step time: 1.3403
Batch 222/248, train_loss: 0.9405, step time: 1.3308
Batch 223/248, train_loss: 0.8780, step time: 1.3080
Batch 224/248, train_loss: 0.9197, step time: 1.3059
Batch 225/248, train_loss: 0.9996, step time: 1.3243
Batch 226/248, train_loss: 0.9955, step time: 1.3145
Batch 227/248, train_loss: 0.9564, step time: 1.3363
Batch 228/248, train_loss: 0.9903, step time: 1.2927
Batch 229/248, train_loss: 0.8724, step time: 1.3291
Batch 230/248, train_loss: 0.9580, step time: 1.3149
Batch 231/248, train_loss: 0.9994, step time: 1.2855
Batch 232/248, train_loss: 0.9555, step time: 1.3255
Batch 233/248, train_loss: 1.0000, step time: 1.3097
Batch 234/248, train_loss: 0.9986, step time: 1.3006
Batch 235/248, train_loss: 0.9990, step time: 1.3196
Batch 236/248, train_loss: 0.9996, step time: 1.3128
Batch 237/248, train_loss: 0.8950, step time: 1.3390
Batch 238/248, train_loss: 0.9431, step time: 1.3311
Batch 239/248, train_loss: 0.6990, step time: 1.3094
Batch 240/248, train_loss: 0.9873, step time: 1.3425
Batch 241/248, train_loss: 0.9999, step time: 1.3310
Batch 242/248, train_loss: 0.9952, step time: 1.3285
Batch 243/248, train_loss: 0.9997, step time: 1.3162
Batch 244/248, train_loss: 0.9985, step time: 1.3161
Batch 245/248, train_loss: 0.9296, step time: 1.3574
Batch 246/248, train_loss: 0.9984, step time: 1.3157
Batch 247/248, train_loss: 0.7831, step time: 1.3526
Batch 248/248, train_loss: 1.0000, step time: 1.3355



Predictions

```
VAL
   Batch 1/31, val_loss: 0.9769
   Batch 2/31, val_loss: 0.9999
   Batch 3/31, val_loss: 0.9997
   Batch 4/31, val_loss: 0.9976
   Batch 5/31, val_loss: 1.0000
   Batch 6/31, val_loss: 0.8805
   Batch 7/31, val_loss: 0.9717
   Batch 8/31, val_loss: 0.9977
   Batch 9/31, val_loss: 0.8987
   Batch 10/31, val_loss: 0.9961
   Batch 11/31, val_loss: 0.9795
   Batch 12/31, val_loss: 0.9989
   Batch 13/31, val_loss: 0.9981
   Batch 14/31, val_loss: 0.9978
   Batch 15/31, val_loss: 0.9999
   Batch 16/31, val_loss: 0.9993
   Batch 17/31, val_loss: 0.9997
   Batch 18/31, val_loss: 0.9979
   Batch 19/31, val_loss: 0.9495
   Batch 20/31, val_loss: 0.9774
   Batch 21/31, val_loss: 0.9902
   Batch 22/31, val_loss: 0.9996
   Batch 23/31, val_loss: 0.9996
   Batch 24/31, val_loss: 0.8611
   Batch 25/31, val_loss: 0.9638
   Batch 26/31, val_loss: 0.9929
   Batch 27/31, val_loss: 0.9998
   Batch 28/31, val_loss: 0.9580
   Batch 29/31, val_loss: 0.9999
   Batch 30/31, val_loss: 0.9994
   Batch 31/31, val_loss: 0.9990
```

Labels



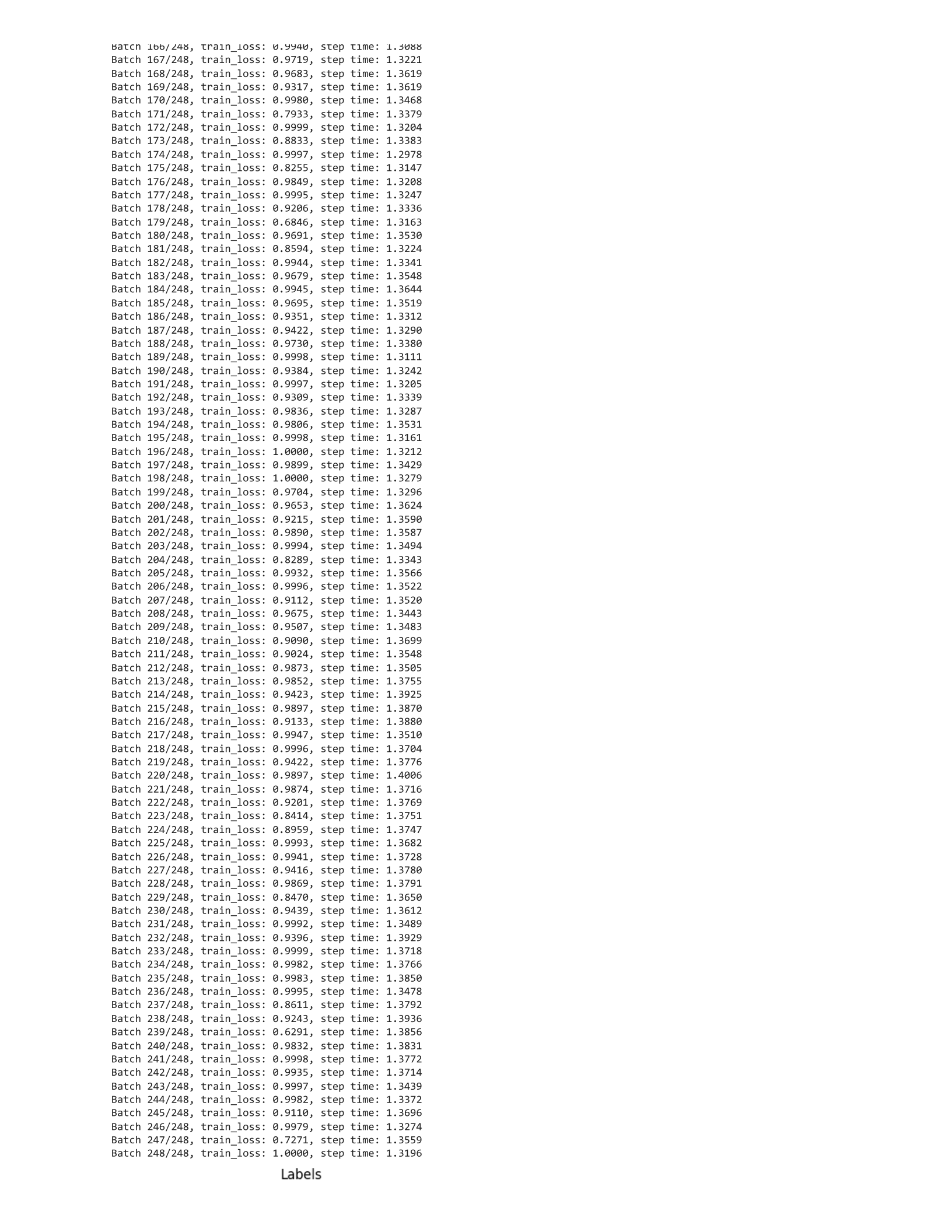
Predictions

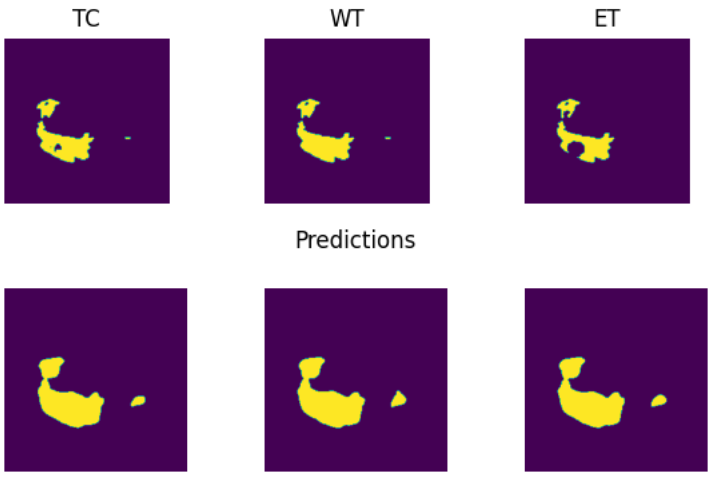
```
epoch 2
   average train loss: 0.9611
   average validation loss: 0.9800
   saved as best model: True
   current mean dice: 0.1434
   current TC dice: 0.1561
   current WT dice: 0.1491
   current ET dice: 0.1386
Best Mean Metric: 0.1434
```

```
time consuming of epoch 2 is: 1691.7063
----------
epoch 3/100
TRAIN
   Batch 1/248, train_loss: 0.8539, step time: 1.3916
   Batch 2/248, train_loss: 0.9998, step time: 1.3177
   Batch 3/248, train_loss: 0.9977, step time: 1.3020
   Batch 4/248, train_loss: 0.9999, step time: 1.3143
   Batch 5/248, train_loss: 0.9873, step time: 1.3191
   Batch 6/248, train_loss: 0.9876, step time: 1.2932
   Batch 7/248, train_loss: 0.7930, step time: 1.3044
   Batch 8/248, train_loss: 0.9661, step time: 1.3087
   Batch 9/248, train_loss: 0.8685, step time: 1.3271
   Batch 10/248, train_loss: 0.9950, step time: 1.3378
   Batch 11/248, train_loss: 0.9884, step time: 1.3161
   Batch 12/248, train_loss: 0.9998, step time: 1.3098
   Batch 13/248, train_loss: 0.9966, step time: 1.3107
   Batch 14/248, train_loss: 0.7626, step time: 1.3126
   Batch 15/248, train_loss: 0.9938, step time: 1.3039
   Batch 16/248, train_loss: 0.9844, step time: 1.3178
   Batch 17/248, train_loss: 0.9997, step time: 1.3078
   Batch 18/248, train_loss: 0.9980, step time: 1.2926
   Batch 19/248, train_loss: 0.8752, step time: 1.3147
   Batch 20/248, train_loss: 0.9805, step time: 1.3250
   Batch 21/248, train_loss: 0.9392, step time: 1.3162
   Batch 22/248, train_loss: 0.9999, step time: 1.2814
   Batch 23/248, train_loss: 0.9999, step time: 1.2991
   Batch 24/248, train_loss: 0.9512, step time: 1.3037
   Batch 25/248, train_loss: 0.7779, step time: 1.2960
   Batch 26/248, train_loss: 0.9983, step time: 1.2930
   Batch 27/248, train_loss: 0.8601, step time: 1.3283
   Batch 28/248, train_loss: 0.9835, step time: 1.3135
   Batch 29/248, train_loss: 0.9994, step time: 1.3240
   Batch 30/248, train_loss: 0.9967, step time: 1.2956
   Batch 31/248, train_loss: 0.9938, step time: 1.2857
   Batch 32/248, train_loss: 0.9400, step time: 1.3252
   Batch 33/248, train_loss: 0.8571, step time: 1.3079
   Batch 34/248, train_loss: 0.8973, step time: 1.2944
   Batch 35/248, train_loss: 0.9514, step time: 1.3240
   Batch 36/248, train_loss: 0.9999, step time: 1.3079
   Batch 37/248, train_loss: 0.9594, step time: 1.2973
   Batch 38/248, train_loss: 0.9917, step time: 1.3230
   Batch 39/248, train_loss: 0.9673, step time: 1.3268
   Batch 40/248, train_loss: 0.9999, step time: 1.3050
   Batch 41/248, train_loss: 0.9247, step time: 1.3092
   Batch 42/248, train_loss: 0.9240, step time: 1.3147
   Batch 43/248, train_loss: 0.8819, step time: 1.3256
   Batch 44/248, train_loss: 0.9649, step time: 1.3152
   Batch 45/248, train_loss: 0.9945, step time: 1.3289
   Batch 46/248, train_loss: 0.9694, step time: 1.2997
   Batch 47/248, train_loss: 0.9802, step time: 1.2966
   Batch 48/248, train_loss: 0.9704, step time: 1.3109
   Batch 49/248, train_loss: 0.9986, step time: 1.3217
   Batch 50/248, train_loss: 0.9837, step time: 1.3378
   Batch 51/248, train_loss: 0.9796, step time: 1.3445
   Batch 52/248, train_loss: 0.9699, step time: 1.3135
   Batch 53/248, train_loss: 0.9932, step time: 1.3588
   Batch 54/248, train_loss: 0.9779, step time: 1.3480
   Batch 55/248, train_loss: 0.9940, step time: 1.3375
   Batch 56/248, train_loss: 0.9793, step time: 1.3657
   Batch 57/248, train_loss: 0.9838, step time: 1.3238
   Batch 58/248, train_loss: 0.9332, step time: 1.3517
   Batch 59/248, train_loss: 0.9469, step time: 1.3478
   Batch 60/248, train_loss: 0.9279, step time: 1.3417
   Batch 61/248, train_loss: 0.9501, step time: 1.3301
   Batch 62/248, train_loss: 0.9948, step time: 1.3415
   Batch 63/248, train_loss: 0.9990, step time: 1.3254
   Batch 64/248, train_loss: 0.9984, step time: 1.3484
   Batch 65/248, train_loss: 0.9863, step time: 1.3509
   Batch 66/248, train_loss: 0.9849, step time: 1.3250
   Batch 67/248, train_loss: 0.8450, step time: 1.3488
   Batch 68/248, train_loss: 0.9112, step time: 1.3359
   Batch 69/248, train_loss: 0.9997, step time: 1.3056
   Batch 70/248, train_loss: 0.9348, step time: 1.3260
   Batch 71/248, train_loss: 0.8958, step time: 1.3280
   Batch 72/248, train_loss: 0.9070, step time: 1.3153
   Batch 73/248, train_loss: 0.9224, step time: 1.3038
   Batch 74/248, train_loss: 0.9999, step time: 1.2993
   Batch 75/248, train_loss: 0.9263, step time: 1.3364
   Batch 76/248, train_loss: 0.9990, step time: 1.3255
   Batch 77/248, train_loss: 0.9997, step time: 1.3076
   Batch 78/248, train_loss: 0.9622, step time: 1.3249
   Batch 79/248, train_loss: 0.9800, step time: 1.3392
   Batch 80/248, train_loss: 0.9879, step time: 1.3363
   Batch 81/248, train_loss: 0.9918, step time: 1.3348
```

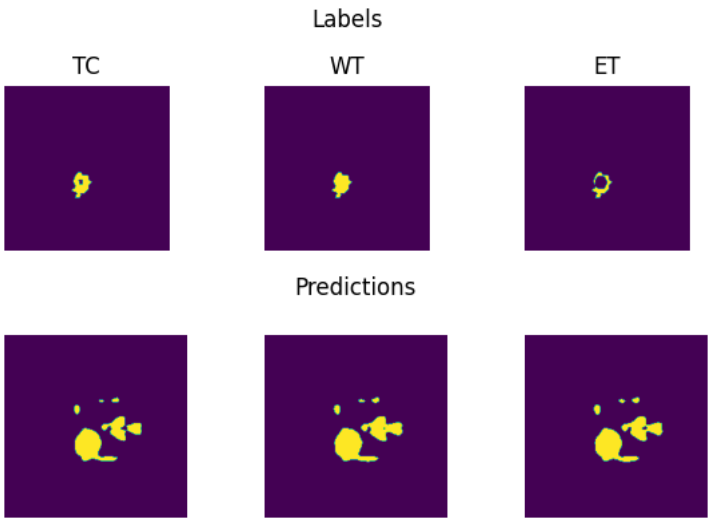
Batch 82/248, train_loss: 0.9226, step time: 1.3394
Batch 83/248, train_loss: 0.9989, step time: 1.3189
Batch 84/248, train_loss: 0.9809, step time: 1.3453
Batch 85/248, train_loss: 0.9992, step time: 1.3131
Batch 86/248, train_loss: 0.9453, step time: 1.3360
Batch 87/248, train_loss: 0.9976, step time: 1.3005
Batch 88/248, train_loss: 0.9971, step time: 1.3103
Batch 89/248, train_loss: 0.8121, step time: 1.3289
Batch 90/248, train_loss: 0.9810, step time: 1.3051
Batch 91/248, train_loss: 0.9989, step time: 1.2904
Batch 92/248, train_loss: 0.9790, step time: 1.3080
Batch 93/248, train_loss: 0.9139, step time: 1.3295
Batch 94/248, train_loss: 0.9991, step time: 1.3137
Batch 95/248, train_loss: 0.9586, step time: 1.3195
Batch 96/248, train_loss: 0.9543, step time: 1.3179
Batch 97/248, train_loss: 1.0000, step time: 1.3079
Batch 98/248, train_loss: 0.8923, step time: 1.3259
Batch 99/248, train_loss: 0.9971, step time: 1.3424
Batch 100/248, train_loss: 0.9994, step time: 1.3072
Batch 101/248, train_loss: 0.7877, step time: 1.3370
Batch 102/248, train_loss: 0.9729, step time: 1.3339
Batch 103/248, train_loss: 0.9985, step time: 1.3278
Batch 104/248, train_loss: 0.9630, step time: 1.3532
Batch 105/248, train_loss: 0.8856, step time: 1.3360
Batch 106/248, train_loss: 0.9866, step time: 1.3124
Batch 107/248, train_loss: 0.9971, step time: 1.3091
Batch 108/248, train_loss: 0.9984, step time: 1.3320
Batch 109/248, train_loss: 0.9996, step time: 1.3258
Batch 110/248, train_loss: 0.9937, step time: 1.3041
Batch 111/248, train_loss: 0.8931, step time: 1.3260
Batch 112/248, train_loss: 0.9074, step time: 1.3252
Batch 113/248, train_loss: 0.9999, step time: 1.3165
Batch 114/248, train_loss: 0.8248, step time: 1.3216
Batch 115/248, train_loss: 0.9705, step time: 1.3413
Batch 116/248, train_loss: 0.8881, step time: 1.3386
Batch 117/248, train_loss: 0.9993, step time: 1.3382
Batch 118/248, train_loss: 0.9974, step time: 1.3339
Batch 119/248, train_loss: 0.9750, step time: 1.3120
Batch 120/248, train_loss: 0.9753, step time: 1.3187
Batch 121/248, train_loss: 0.9937, step time: 1.3371
Batch 122/248, train_loss: 0.9966, step time: 1.3171
Batch 123/248, train_loss: 0.9300, step time: 1.3092
Batch 124/248, train_loss: 0.9966, step time: 1.3285
Batch 125/248, train_loss: 0.9996, step time: 1.3265
Batch 126/248, train_loss: 0.8849, step time: 1.2944
Batch 127/248, train_loss: 0.9759, step time: 1.3122
Batch 128/248, train_loss: 0.9880, step time: 1.3128
Batch 129/248, train_loss: 0.8355, step time: 1.3175
Batch 130/248, train_loss: 0.8585, step time: 1.3105
Batch 131/248, train_loss: 0.9962, step time: 1.3000
Batch 132/248, train_loss: 0.9967, step time: 1.3317
Batch 133/248, train_loss: 0.7305, step time: 1.3366
Batch 134/248, train_loss: 1.0000, step time: 1.3248
Batch 135/248, train_loss: 0.9981, step time: 1.3447
Batch 136/248, train_loss: 0.9862, step time: 1.3126
Batch 137/248, train_loss: 0.8550, step time: 1.3444
Batch 138/248, train_loss: 0.8869, step time: 1.3627
Batch 139/248, train_loss: 0.8933, step time: 1.3347
Batch 140/248, train_loss: 0.9854, step time: 1.3409
Batch 141/248, train_loss: 0.9373, step time: 1.3451
Batch 142/248, train_loss: 0.9992, step time: 1.3349
Batch 143/248, train_loss: 0.9856, step time: 1.3332
Batch 144/248, train_loss: 0.8821, step time: 1.3382
Batch 145/248, train_loss: 0.7483, step time: 1.3195
Batch 146/248, train_loss: 0.9996, step time: 1.3057
Batch 147/248, train_loss: 0.7363, step time: 1.3272
Batch 148/248, train_loss: 0.9969, step time: 1.3337
Batch 149/248, train_loss: 0.9679, step time: 1.3354
Batch 150/248, train_loss: 0.9392, step time: 1.3235
Batch 151/248, train_loss: 0.9958, step time: 1.3239
Batch 152/248, train_loss: 0.7544, step time: 1.3439
Batch 153/248, train_loss: 0.9947, step time: 1.3355
Batch 154/248, train_loss: 0.9989, step time: 1.3207
Batch 155/248, train_loss: 0.9661, step time: 1.3212
Batch 156/248, train_loss: 0.9698, step time: 1.3227
Batch 157/248, train_loss: 0.8975, step time: 1.3342
Batch 158/248, train_loss: 0.9997, step time: 1.3300
Batch 159/248, train_loss: 0.9997, step time: 1.3388
Batch 160/248, train_loss: 0.9235, step time: 1.3085
Batch 161/248, train_loss: 0.9666, step time: 1.3418
Batch 162/248, train_loss: 0.7122, step time: 1.3158
Batch 163/248, train_loss: 0.9973, step time: 1.3260
Batch 164/248, train_loss: 0.9702, step time: 1.3462
Batch 165/248, train_loss: 0.9997, step time: 1.3374

Batch 166/248, train_loss: 0.9940, step time: 1.3088
Batch 167/248, train_loss: 0.9719, step time: 1.3221
Batch 168/248, train_loss: 0.9683, step time: 1.3619
Batch 169/248, train_loss: 0.9317, step time: 1.3619
Batch 170/248, train_loss: 0.9980, step time: 1.3468
Batch 171/248, train_loss: 0.7933, step time: 1.3379
Batch 172/248, train_loss: 0.9999, step time: 1.3204
Batch 173/248, train_loss: 0.8833, step time: 1.3383
Batch 174/248, train_loss: 0.9997, step time: 1.2978
Batch 175/248, train_loss: 0.8255, step time: 1.3147
Batch 176/248, train_loss: 0.9849, step time: 1.3208
Batch 177/248, train_loss: 0.9995, step time: 1.3247
Batch 178/248, train_loss: 0.9206, step time: 1.3336
Batch 179/248, train_loss: 0.6846, step time: 1.3163
Batch 180/248, train_loss: 0.9691, step time: 1.3530
Batch 181/248, train_loss: 0.8594, step time: 1.3224
Batch 182/248, train_loss: 0.9944, step time: 1.3341
Batch 183/248, train_loss: 0.9679, step time: 1.3548
Batch 184/248, train_loss: 0.9945, step time: 1.3644
Batch 185/248, train_loss: 0.9695, step time: 1.3519
Batch 186/248, train_loss: 0.9351, step time: 1.3312
Batch 187/248, train_loss: 0.9422, step time: 1.3290
Batch 188/248, train_loss: 0.9730, step time: 1.3380
Batch 189/248, train_loss: 0.9998, step time: 1.3111
Batch 190/248, train_loss: 0.9384, step time: 1.3242
Batch 191/248, train_loss: 0.9997, step time: 1.3205
Batch 192/248, train_loss: 0.9309, step time: 1.3339
Batch 193/248, train_loss: 0.9836, step time: 1.3287
Batch 194/248, train_loss: 0.9806, step time: 1.3531
Batch 195/248, train_loss: 0.9998, step time: 1.3161
Batch 196/248, train_loss: 1.0000, step time: 1.3212
Batch 197/248, train_loss: 0.9899, step time: 1.3429
Batch 198/248, train_loss: 1.0000, step time: 1.3279
Batch 199/248, train_loss: 0.9704, step time: 1.3296
Batch 200/248, train_loss: 0.9653, step time: 1.3624
Batch 201/248, train_loss: 0.9215, step time: 1.3590
Batch 202/248, train_loss: 0.9890, step time: 1.3587
Batch 203/248, train_loss: 0.9994, step time: 1.3494
Batch 204/248, train_loss: 0.8289, step time: 1.3343
Batch 205/248, train_loss: 0.9932, step time: 1.3566
Batch 206/248, train_loss: 0.9996, step time: 1.3522
Batch 207/248, train_loss: 0.9112, step time: 1.3520
Batch 208/248, train_loss: 0.9675, step time: 1.3443
Batch 209/248, train_loss: 0.9507, step time: 1.3483
Batch 210/248, train_loss: 0.9090, step time: 1.3699
Batch 211/248, train_loss: 0.9024, step time: 1.3548
Batch 212/248, train_loss: 0.9873, step time: 1.3505
Batch 213/248, train_loss: 0.9852, step time: 1.3755
Batch 214/248, train_loss: 0.9423, step time: 1.3925
Batch 215/248, train_loss: 0.9897, step time: 1.3870
Batch 216/248, train_loss: 0.9133, step time: 1.3880
Batch 217/248, train_loss: 0.9947, step time: 1.3510
Batch 218/248, train_loss: 0.9996, step time: 1.3704
Batch 219/248, train_loss: 0.9422, step time: 1.3776
Batch 220/248, train_loss: 0.9897, step time: 1.4006
Batch 221/248, train_loss: 0.9874, step time: 1.3716
Batch 222/248, train_loss: 0.9201, step time: 1.3769
Batch 223/248, train_loss: 0.8414, step time: 1.3751
Batch 224/248, train_loss: 0.8959, step time: 1.3747
Batch 225/248, train_loss: 0.9993, step time: 1.3682
Batch 226/248, train_loss: 0.9941, step time: 1.3728
Batch 227/248, train_loss: 0.9416, step time: 1.3780
Batch 228/248, train_loss: 0.9869, step time: 1.3791
Batch 229/248, train_loss: 0.8470, step time: 1.3650
Batch 230/248, train_loss: 0.9439, step time: 1.3612
Batch 231/248, train_loss: 0.9992, step time: 1.3489
Batch 232/248, train_loss: 0.9396, step time: 1.3929
Batch 233/248, train_loss: 0.9999, step time: 1.3718
Batch 234/248, train_loss: 0.9982, step time: 1.3766
Batch 235/248, train_loss: 0.9983, step time: 1.3850
Batch 236/248, train_loss: 0.9995, step time: 1.3478
Batch 237/248, train_loss: 0.8611, step time: 1.3792
Batch 238/248, train_loss: 0.9243, step time: 1.3936
Batch 239/248, train_loss: 0.6291, step time: 1.3856
Batch 240/248, train_loss: 0.9832, step time: 1.3831
Batch 241/248, train_loss: 0.9998, step time: 1.3772
Batch 242/248, train_loss: 0.9935, step time: 1.3714
Batch 243/248, train_loss: 0.9997, step time: 1.3439
Batch 244/248, train_loss: 0.9982, step time: 1.3372
Batch 245/248, train_loss: 0.9110, step time: 1.3696
Batch 246/248, train_loss: 0.9979, step time: 1.3274
Batch 247/248, train_loss: 0.7271, step time: 1.3559
Batch 248/248, train_loss: 1.0000, step time: 1.3196






```
VAL
   Batch 1/31, val_loss: 0.9716
   Batch 2/31, val_loss: 0.9999
   Batch 3/31, val_loss: 0.9996
   Batch 4/31, val_loss: 0.9968
   Batch 5/31, val_loss: 1.0000
   Batch 6/31, val_loss: 0.8596
   Batch 7/31, val_loss: 0.9660
   Batch 8/31, val_loss: 0.9969
   Batch 9/31, val_loss: 0.8798
   Batch 10/31, val_loss: 0.9950
   Batch 11/31, val_loss: 0.9743
   Batch 12/31, val_loss: 0.9983
   Batch 13/31, val_loss: 0.9975
   Batch 14/31, val_loss: 0.9967
   Batch 15/31, val_loss: 0.9999
   Batch 16/31, val_loss: 0.9991
   Batch 17/31, val_loss: 0.9996
   Batch 18/31, val_loss: 0.9974
   Batch 19/31, val_loss: 0.9379
   Batch 20/31, val_loss: 0.9716
   Batch 21/31, val_loss: 0.9876
   Batch 22/31, val_loss: 0.9995
   Batch 23/31, val_loss: 0.9995
   Batch 24/31, val_loss: 0.8427
   Batch 25/31, val_loss: 0.9550
   Batch 26/31, val_loss: 0.9908
   Batch 27/31, val_loss: 0.9998
   Batch 28/31, val_loss: 0.9468
   Batch 29/31, val_loss: 0.9999
   Batch 30/31, val_loss: 0.9992
   Batch 31/31, val_loss: 0.9988
```

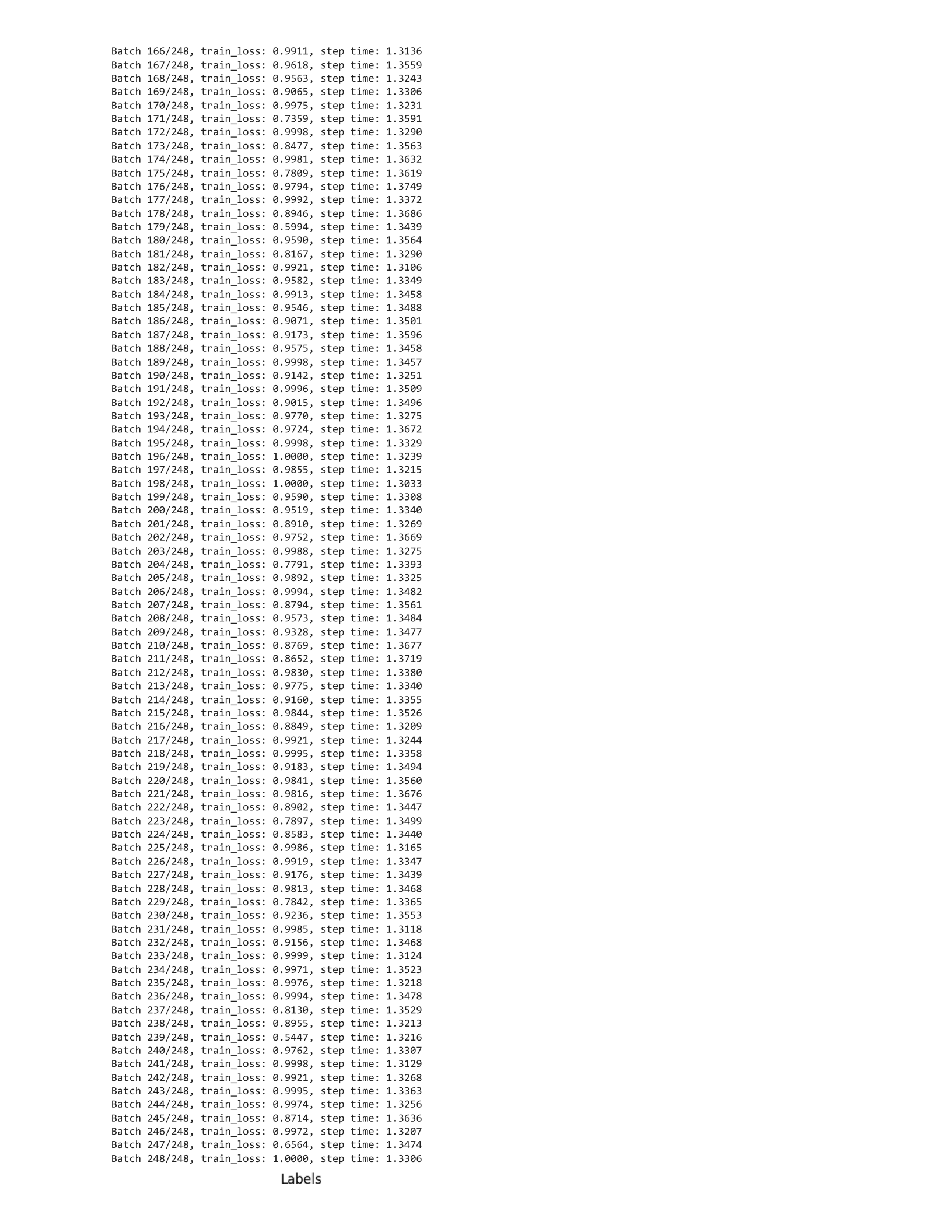


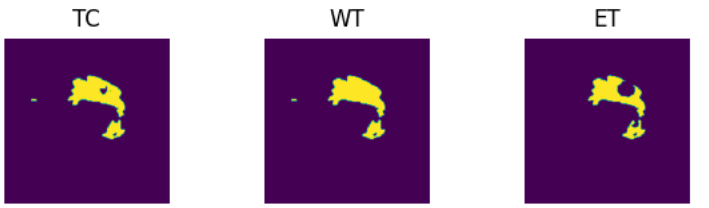

```
epoch 3
   average train loss: 0.9507
   average validation loss: 0.9760
   saved as best model: True
   current mean dice: 0.1650
   current TC dice: 0.1780
   current WT dice: 0.1703
   current ET dice: 0.1623
Best Mean Metric: 0.1650
```

```
Best Mean Metric: 0.1090
time consuming of epoch 3 is: 1688.0297
----------
epoch 4/100
TRAIN
   Batch 1/248, train_loss: 0.8118, step time: 1.4588
   Batch 2/248, train_loss: 0.9998, step time: 1.3680
   Batch 3/248, train_loss: 0.9969, step time: 1.3581
   Batch 4/248, train_loss: 0.9998, step time: 1.3459
   Batch 5/248, train_loss: 0.9833, step time: 1.3638
   Batch 6/248, train_loss: 0.9825, step time: 1.3392
   Batch 7/248, train_loss: 0.7388, step time: 1.3488
   Batch 8/248, train_loss: 0.9569, step time: 1.3543
   Batch 9/248, train_loss: 0.8340, step time: 1.3516
   Batch 10/248, train_loss: 0.9934, step time: 1.3182
   Batch 11/248, train_loss: 0.9861, step time: 1.3532
   Batch 12/248, train_loss: 0.9996, step time: 1.3260
   Batch 13/248, train_loss: 0.9954, step time: 1.3338
   Batch 14/248, train_loss: 0.7050, step time: 1.3617
   Batch 15/248, train_loss: 0.9917, step time: 1.3477
   Batch 16/248, train_loss: 0.9805, step time: 1.3133
   Batch 17/248, train_loss: 0.9994, step time: 1.3118
   Batch 18/248, train_loss: 0.9975, step time: 1.3216
   Batch 19/248, train_loss: 0.8404, step time: 1.3361
   Batch 20/248, train_loss: 0.9747, step time: 1.3326
   Batch 21/248, train_loss: 0.9212, step time: 1.3308
   Batch 22/248, train_loss: 0.9999, step time: 1.3240
   Batch 23/248, train_loss: 0.9999, step time: 1.3456
   Batch 24/248, train_loss: 0.9371, step time: 1.3491
   Batch 25/248, train_loss: 0.7030, step time: 1.3318
   Batch 26/248, train_loss: 0.9982, step time: 1.3463
   Batch 27/248, train_loss: 0.8197, step time: 1.3214
   Batch 28/248, train_loss: 0.9772, step time: 1.3204
   Batch 29/248, train_loss: 0.9991, step time: 1.3046
   Batch 30/248, train_loss: 0.9957, step time: 1.3116
   Batch 31/248, train_loss: 0.9907, step time: 1.3014
   Batch 32/248, train_loss: 0.9213, step time: 1.3166
   Batch 33/248, train_loss: 0.8136, step time: 1.3032
   Batch 34/248, train_loss: 0.8625, step time: 1.2987
   Batch 35/248, train_loss: 0.9339, step time: 1.2891
   Batch 36/248, train_loss: 0.9999, step time: 1.3056
   Batch 37/248, train_loss: 0.9437, step time: 1.3084
   Batch 38/248, train_loss: 0.9881, step time: 1.3299
   Batch 39/248, train_loss: 0.9535, step time: 1.3386
   Batch 40/248, train_loss: 0.9999, step time: 1.3177
   Batch 41/248, train_loss: 0.9025, step time: 1.3317
   Batch 42/248, train_loss: 0.8998, step time: 1.3186
   Batch 43/248, train_loss: 0.8462, step time: 1.3039
   Batch 44/248, train_loss: 0.9501, step time: 1.3379
   Batch 45/248, train_loss: 0.9910, step time: 1.3285
   Batch 46/248, train_loss: 0.9577, step time: 1.3082
   Batch 47/248, train_loss: 0.9741, step time: 1.3063
   Batch 48/248, train_loss: 0.9596, step time: 1.2974
   Batch 49/248, train_loss: 0.9976, step time: 1.3024
   Batch 50/248, train_loss: 0.9782, step time: 1.3105
   Batch 51/248, train_loss: 0.9718, step time: 1.3180
   Batch 52/248, train_loss: 0.9598, step time: 1.3262
   Batch 53/248, train_loss: 0.9905, step time: 1.3158
   Batch 54/248, train_loss: 0.9704, step time: 1.3303
   Batch 55/248, train_loss: 0.9919, step time: 1.3264
   Batch 56/248, train_loss: 0.9741, step time: 1.3096
   Batch 57/248, train_loss: 0.9783, step time: 1.3342
   Batch 58/248, train_loss: 0.9078, step time: 1.3223
   Batch 59/248, train_loss: 0.9288, step time: 1.3302
   Batch 60/248, train_loss: 0.9040, step time: 1.3445
   Batch 61/248, train_loss: 0.9314, step time: 1.3226
   Batch 62/248, train_loss: 0.9931, step time: 1.3042
   Batch 63/248, train_loss: 0.9984, step time: 1.3114
   Batch 64/248, train_loss: 0.9978, step time: 1.3168
   Batch 65/248, train_loss: 0.9819, step time: 1.3266
   Batch 66/248, train_loss: 0.9795, step time: 1.3253
   Batch 67/248, train_loss: 0.7973, step time: 1.3297
   Batch 68/248, train_loss: 0.8805, step time: 1.3271
   Batch 69/248, train_loss: 0.9996, step time: 1.3204
   Batch 70/248, train_loss: 0.9125, step time: 1.3047
   Batch 71/248, train_loss: 0.8613, step time: 1.3019
   Batch 72/248, train_loss: 0.8764, step time: 1.3340
   Batch 73/248, train_loss: 0.8940, step time: 1.3054
   Batch 74/248, train_loss: 0.9999, step time: 1.3208
   Batch 75/248, train_loss: 0.9001, step time: 1.3068
   Batch 76/248, train_loss: 0.9988, step time: 1.3206
   Batch 77/248, train_loss: 0.9997, step time: 1.3136
   Batch 78/248, train_loss: 0.9492, step time: 1.3394
   Batch 79/248, train_loss: 0.9728, step time: 1.3269
   Batch 80/248, train_loss: 0.9822, step time: 1.3538
```

```
Batch 81/248, train_loss: 0.9892, step time: 1.3199
Batch 82/248, train_loss: 0.8975, step time: 1.3493
Batch 83/248, train_loss: 0.9989, step time: 1.3293
Batch 84/248, train_loss: 0.9735, step time: 1.3215
Batch 85/248, train_loss: 0.9991, step time: 1.3266
Batch 86/248, train_loss: 0.9281, step time: 1.3288
Batch 87/248, train_loss: 0.9975, step time: 1.3372
Batch 88/248, train_loss: 0.9960, step time: 1.3172
Batch 89/248, train_loss: 0.7557, step time: 1.3281
Batch 90/248, train_loss: 0.9763, step time: 1.3493
Batch 91/248, train_loss: 0.9986, step time: 1.3110
Batch 92/248, train_loss: 0.9732, step time: 1.3139
Batch 93/248, train_loss: 0.8861, step time: 1.3217
Batch 94/248, train_loss: 0.9986, step time: 1.2971
Batch 95/248, train_loss: 0.9445, step time: 1.3077
Batch 96/248, train_loss: 0.9365, step time: 1.3266
Batch 97/248, train_loss: 0.9999, step time: 1.3225
Batch 98/248, train_loss: 0.8586, step time: 1.3212
Batch 99/248, train_loss: 0.9958, step time: 1.3203
Batch 100/248, train_loss: 0.9992, step time: 1.3007
Batch 101/248, train_loss: 0.7126, step time: 1.3027
Batch 102/248, train_loss: 0.9619, step time: 1.3272
Batch 103/248, train_loss: 0.9980, step time: 1.2990
Batch 104/248, train_loss: 0.9425, step time: 1.3060
Batch 105/248, train_loss: 0.8468, step time: 1.3297
Batch 106/248, train_loss: 0.9781, step time: 1.3483
Batch 107/248, train_loss: 0.9956, step time: 1.3044
Batch 108/248, train_loss: 0.9976, step time: 1.3335
Batch 109/248, train_loss: 0.9992, step time: 1.3109
Batch 110/248, train_loss: 0.9883, step time: 1.3485
Batch 111/248, train_loss: 0.8508, step time: 1.3338
Batch 112/248, train_loss: 0.8751, step time: 1.3351
Batch 113/248, train_loss: 0.9999, step time: 1.3088
Batch 114/248, train_loss: 0.7716, step time: 1.3385
Batch 115/248, train_loss: 0.9553, step time: 1.3315
Batch 116/248, train_loss: 0.8481, step time: 1.3048
Batch 117/248, train_loss: 0.9992, step time: 1.3221
Batch 118/248, train_loss: 0.9962, step time: 1.3339
Batch 119/248, train_loss: 0.9670, step time: 1.3389
Batch 120/248, train_loss: 0.9701, step time: 1.3204
Batch 121/248, train_loss: 0.9930, step time: 1.3365
Batch 122/248, train_loss: 0.9955, step time: 1.3384
Batch 123/248, train_loss: 0.9107, step time: 1.3285
Batch 124/248, train_loss: 0.9959, step time: 1.3212
Batch 125/248, train_loss: 0.9996, step time: 1.3105
Batch 126/248, train_loss: 0.8531, step time: 1.3196
Batch 127/248, train_loss: 0.9657, step time: 1.3392
Batch 128/248, train_loss: 0.9839, step time: 1.3051
Batch 129/248, train_loss: 0.7953, step time: 1.3372
Batch 130/248, train_loss: 0.8089, step time: 1.3195
Batch 131/248, train_loss: 0.9949, step time: 1.3168
Batch 132/248, train_loss: 0.9953, step time: 1.3470
Batch 133/248, train_loss: 0.6773, step time: 1.3152
Batch 134/248, train_loss: 1.0000, step time: 1.3010
Batch 135/248, train_loss: 0.9979, step time: 1.3163
Batch 136/248, train_loss: 0.9804, step time: 1.3564
Batch 137/248, train_loss: 0.8087, step time: 1.3667
Batch 138/248, train_loss: 0.8472, step time: 1.3651
Batch 139/248, train_loss: 0.8611, step time: 1.3493
Batch 140/248, train_loss: 0.9794, step time: 1.3620
Batch 141/248, train_loss: 0.9155, step time: 1.3414
Batch 142/248, train_loss: 0.9989, step time: 1.3217
Batch 143/248, train_loss: 0.9802, step time: 1.3273
Batch 144/248, train_loss: 0.8461, step time: 1.3252
Batch 145/248, train_loss: 0.6812, step time: 1.3187
Batch 146/248, train_loss: 0.9995, step time: 1.2990
Batch 147/248, train_loss: 0.6651, step time: 1.3333
Batch 148/248, train_loss: 0.9954, step time: 1.3162
Batch 149/248, train_loss: 0.9570, step time: 1.3484
Batch 150/248, train_loss: 0.9193, step time: 1.3486
Batch 151/248, train_loss: 0.9945, step time: 1.3140
Batch 152/248, train_loss: 0.6887, step time: 1.3489
Batch 153/248, train_loss: 0.9932, step time: 1.3235
Batch 154/248, train_loss: 0.9985, step time: 1.3381
Batch 155/248, train_loss: 0.9572, step time: 1.3378
Batch 156/248, train_loss: 0.9597, step time: 1.3453
Batch 157/248, train_loss: 0.8631, step time: 1.3673
Batch 158/248, train_loss: 0.9997, step time: 1.3415
Batch 159/248, train_loss: 0.9996, step time: 1.3407
Batch 160/248, train_loss: 0.8954, step time: 1.3512
Batch 161/248, train_loss: 0.9540, step time: 1.3395
Batch 162/248, train_loss: 0.6390, step time: 1.3366
Batch 163/248, train_loss: 0.9960, step time: 1.3274
Batch 164/248, train_loss: 0.9583, step time: 1.3345
Batch 165/248, train_loss: 0.9995, step time: 1.3128
```

```
Batch 166/248, train_loss: 0.9911, step time: 1.3136
Batch 167/248, train_loss: 0.9618, step time: 1.3559
Batch 168/248, train_loss: 0.9563, step time: 1.3243
Batch 169/248, train_loss: 0.9065, step time: 1.3306
Batch 170/248, train_loss: 0.9975, step time: 1.3231
Batch 171/248, train_loss: 0.7359, step time: 1.3591
Batch 172/248, train_loss: 0.9998, step time: 1.3290
Batch 173/248, train_loss: 0.8477, step time: 1.3563
Batch 174/248, train_loss: 0.9981, step time: 1.3632
Batch 175/248, train_loss: 0.7809, step time: 1.3619
Batch 176/248, train_loss: 0.9794, step time: 1.3749
Batch 177/248, train_loss: 0.9992, step time: 1.3372
Batch 178/248, train_loss: 0.8946, step time: 1.3686
Batch 179/248, train_loss: 0.5994, step time: 1.3439
Batch 180/248, train_loss: 0.9590, step time: 1.3564
Batch 181/248, train_loss: 0.8167, step time: 1.3290
Batch 182/248, train_loss: 0.9921, step time: 1.3106
Batch 183/248, train_loss: 0.9582, step time: 1.3349
Batch 184/248, train_loss: 0.9913, step time: 1.3458
Batch 185/248, train_loss: 0.9546, step time: 1.3488
Batch 186/248, train_loss: 0.9071, step time: 1.3501
Batch 187/248, train_loss: 0.9173, step time: 1.3596
Batch 188/248, train_loss: 0.9575, step time: 1.3458
Batch 189/248, train_loss: 0.9998, step time: 1.3457
Batch 190/248, train_loss: 0.9142, step time: 1.3251
Batch 191/248, train_loss: 0.9996, step time: 1.3509
Batch 192/248, train_loss: 0.9015, step time: 1.3496
Batch 193/248, train_loss: 0.9770, step time: 1.3275
Batch 194/248, train_loss: 0.9724, step time: 1.3672
Batch 195/248, train_loss: 0.9998, step time: 1.3329
Batch 196/248, train_loss: 1.0000, step time: 1.3239
Batch 197/248, train_loss: 0.9855, step time: 1.3215
Batch 198/248, train_loss: 1.0000, step time: 1.3033
Batch 199/248, train_loss: 0.9590, step time: 1.3308
Batch 200/248, train_loss: 0.9519, step time: 1.3340
Batch 201/248, train_loss: 0.8910, step time: 1.3269
Batch 202/248, train_loss: 0.9752, step time: 1.3669
Batch 203/248, train_loss: 0.9988, step time: 1.3275
Batch 204/248, train_loss: 0.7791, step time: 1.3393
Batch 205/248, train_loss: 0.9892, step time: 1.3325
Batch 206/248, train_loss: 0.9994, step time: 1.3482
Batch 207/248, train_loss: 0.8794, step time: 1.3561
Batch 208/248, train_loss: 0.9573, step time: 1.3484
Batch 209/248, train_loss: 0.9328, step time: 1.3477
Batch 210/248, train_loss: 0.8769, step time: 1.3677
Batch 211/248, train_loss: 0.8652, step time: 1.3719
Batch 212/248, train_loss: 0.9830, step time: 1.3380
Batch 213/248, train_loss: 0.9775, step time: 1.3340
Batch 214/248, train_loss: 0.9160, step time: 1.3355
Batch 215/248, train_loss: 0.9844, step time: 1.3526
Batch 216/248, train_loss: 0.8849, step time: 1.3209
Batch 217/248, train_loss: 0.9921, step time: 1.3244
Batch 218/248, train_loss: 0.9995, step time: 1.3358
Batch 219/248, train_loss: 0.9183, step time: 1.3494
Batch 220/248, train_loss: 0.9841, step time: 1.3560
Batch 221/248, train_loss: 0.9816, step time: 1.3676
Batch 222/248, train_loss: 0.8902, step time: 1.3447
Batch 223/248, train_loss: 0.7897, step time: 1.3499
Batch 224/248, train_loss: 0.8583, step time: 1.3440
Batch 225/248, train_loss: 0.9986, step time: 1.3165
Batch 226/248, train_loss: 0.9919, step time: 1.3347
Batch 227/248, train_loss: 0.9176, step time: 1.3439
Batch 228/248, train_loss: 0.9813, step time: 1.3468
Batch 229/248, train_loss: 0.7842, step time: 1.3365
Batch 230/248, train_loss: 0.9236, step time: 1.3553
Batch 231/248, train_loss: 0.9985, step time: 1.3118
Batch 232/248, train_loss: 0.9156, step time: 1.3468
Batch 233/248, train_loss: 0.9999, step time: 1.3124
Batch 234/248, train_loss: 0.9971, step time: 1.3523
Batch 235/248, train_loss: 0.9976, step time: 1.3218
Batch 236/248, train_loss: 0.9994, step time: 1.3478
Batch 237/248, train_loss: 0.8130, step time: 1.3529
Batch 238/248, train_loss: 0.8955, step time: 1.3213
Batch 239/248, train_loss: 0.5447, step time: 1.3216
Batch 240/248, train_loss: 0.9762, step time: 1.3307
Batch 241/248, train_loss: 0.9998, step time: 1.3129
Batch 242/248, train_loss: 0.9921, step time: 1.3268
Batch 243/248, train_loss: 0.9995, step time: 1.3363
Batch 244/248, train_loss: 0.9974, step time: 1.3256
Batch 245/248, train_loss: 0.8714, step time: 1.3636
Batch 246/248, train_loss: 0.9972, step time: 1.3207
Batch 247/248, train_loss: 0.6564, step time: 1.3474
Batch 248/248, train_loss: 1.0000, step time: 1.3306
```

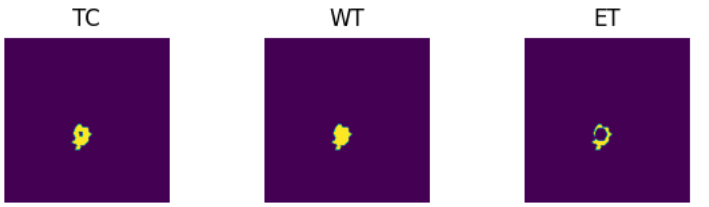




Predictions

VAL
Batch 1/31, val_loss: 0.9633
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9992
Batch 4/31, val_loss: 0.9956
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8337
Batch 7/31, val_loss: 0.9575
Batch 8/31, val_loss: 0.9962
Batch 9/31, val_loss: 0.8562
Batch 10/31, val_loss: 0.9931
Batch 11/31, val_loss: 0.9654
Batch 12/31, val_loss: 0.9969
Batch 13/31, val_loss: 0.9965
Batch 14/31, val_loss: 0.9949
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9987
Batch 17/31, val_loss: 0.9994
Batch 18/31, val_loss: 0.9957
Batch 19/31, val_loss: 0.9218
Batch 20/31, val_loss: 0.9683
Batch 21/31, val_loss: 0.9828
Batch 22/31, val_loss: 0.9993
Batch 23/31, val_loss: 0.9994
Batch 24/31, val_loss: 0.8240
Batch 25/31, val_loss: 0.9419
Batch 26/31, val_loss: 0.9874
Batch 27/31, val_loss: 0.9998
Batch 28/31, val_loss: 0.9278
Batch 29/31, val_loss: 0.9999
Batch 30/31, val_loss: 0.9990
Batch 31/31, val_loss: 0.9983

Labels



Predictions

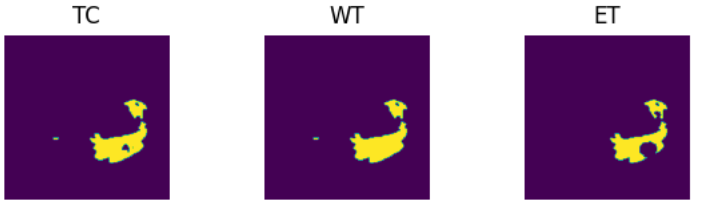
epoch 4
average train loss: 0.9348
average validation loss: 0.9707
saved as best model: True
current mean dice: 0.2004
current TC dice: 0.2143
current WT dice: 0.2078
current ET dice: 0.1982

```
Best Mean Metric: 0.2004
time consuming of epoch 4 is: 1703.1766
----------
epoch 5/100
TRAIN
   Batch 1/248, train_loss: 0.7517, step time: 1.4605
   Batch 2/248, train_loss: 0.9997, step time: 1.3617
   Batch 3/248, train_loss: 0.9958, step time: 1.3546
   Batch 4/248, train_loss: 0.9998, step time: 1.3295
   Batch 5/248, train_loss: 0.9755, step time: 1.3967
   Batch 6/248, train_loss: 0.9748, step time: 1.3671
   Batch 7/248, train_loss: 0.6626, step time: 1.3560
   Batch 8/248, train_loss: 0.9407, step time: 1.3974
   Batch 9/248, train_loss: 0.7721, step time: 1.3965
   Batch 10/248, train_loss: 0.9899, step time: 1.3752
   Batch 11/248, train_loss: 0.9790, step time: 1.3865
   Batch 12/248, train_loss: 0.9991, step time: 1.3815
   Batch 13/248, train_loss: 0.9935, step time: 1.3841
   Batch 14/248, train_loss: 0.6240, step time: 1.3610
   Batch 15/248, train_loss: 0.9867, step time: 1.3817
   Batch 16/248, train_loss: 0.9683, step time: 1.3496
   Batch 17/248, train_loss: 0.9988, step time: 1.3499
   Batch 18/248, train_loss: 0.9960, step time: 1.3671
   Batch 19/248, train_loss: 0.7844, step time: 1.3930
   Batch 20/248, train_loss: 0.9624, step time: 1.3610
   Batch 21/248, train_loss: 0.8869, step time: 1.3878
   Batch 22/248, train_loss: 0.9999, step time: 1.3736
   Batch 23/248, train_loss: 0.9999, step time: 1.3436
   Batch 24/248, train_loss: 0.9067, step time: 1.3816
   Batch 25/248, train_loss: 0.6384, step time: 1.4025
   Batch 26/248, train_loss: 0.9969, step time: 1.3617
   Batch 27/248, train_loss: 0.7612, step time: 1.3782
   Batch 28/248, train_loss: 0.9761, step time: 1.3737
   Batch 29/248, train_loss: 0.9990, step time: 1.3780
   Batch 30/248, train_loss: 0.9794, step time: 1.3612
   Batch 31/248, train_loss: 0.9898, step time: 1.3525
   Batch 32/248, train_loss: 0.8938, step time: 1.3656
   Batch 33/248, train_loss: 0.7894, step time: 1.3902
   Batch 34/248, train_loss: 0.8369, step time: 1.3937
   Batch 35/248, train_loss: 0.9078, step time: 1.3899
   Batch 36/248, train_loss: 0.9998, step time: 1.3452
   Batch 37/248, train_loss: 0.9277, step time: 1.3992
   Batch 38/248, train_loss: 0.9829, step time: 1.3569
   Batch 39/248, train_loss: 0.9358, step time: 1.3690
   Batch 40/248, train_loss: 0.9999, step time: 1.3441
   Batch 41/248, train_loss: 0.8705, step time: 1.3946
   Batch 42/248, train_loss: 0.8603, step time: 1.3615
   Batch 43/248, train_loss: 0.7941, step time: 1.3842
   Batch 44/248, train_loss: 0.9453, step time: 1.3829
   Batch 45/248, train_loss: 0.9915, step time: 1.3543
   Batch 46/248, train_loss: 0.9399, step time: 1.3682
   Batch 47/248, train_loss: 0.9614, step time: 1.3586
   Batch 48/248, train_loss: 0.9431, step time: 1.3505
   Batch 49/248, train_loss: 0.9970, step time: 1.3491
   Batch 50/248, train_loss: 0.9686, step time: 1.3523
   Batch 51/248, train_loss: 0.9622, step time: 1.3816
   Batch 52/248, train_loss: 0.9443, step time: 1.3782
   Batch 53/248, train_loss: 0.9874, step time: 1.3725
   Batch 54/248, train_loss: 0.9586, step time: 1.3851
   Batch 55/248, train_loss: 0.9884, step time: 1.3848
   Batch 56/248, train_loss: 0.9612, step time: 1.3982
   Batch 57/248, train_loss: 0.9687, step time: 1.3552
   Batch 58/248, train_loss: 0.8769, step time: 1.3928
   Batch 59/248, train_loss: 0.8988, step time: 1.3730
   Batch 60/248, train_loss: 0.8665, step time: 1.3621
   Batch 61/248, train_loss: 0.9039, step time: 1.3720
   Batch 62/248, train_loss: 0.9897, step time: 1.3690
   Batch 63/248, train_loss: 0.9984, step time: 1.3635
   Batch 64/248, train_loss: 0.9970, step time: 1.3695
   Batch 65/248, train_loss: 0.9759, step time: 1.3690
   Batch 66/248, train_loss: 0.9685, step time: 1.3888
   Batch 67/248, train_loss: 0.7417, step time: 1.3729
   Batch 68/248, train_loss: 0.8373, step time: 1.3924
   Batch 69/248, train_loss: 0.9998, step time: 1.3636
   Batch 70/248, train_loss: 0.8793, step time: 1.3764
   Batch 71/248, train_loss: 0.8153, step time: 1.3755
   Batch 72/248, train_loss: 0.8291, step time: 1.3787
   Batch 73/248, train_loss: 0.8551, step time: 1.3568
   Batch 74/248, train_loss: 0.9998, step time: 1.3551
   Batch 75/248, train_loss: 0.8625, step time: 1.3601
   Batch 76/248, train_loss: 0.9983, step time: 1.3758
   Batch 77/248, train_loss: 0.9996, step time: 1.3730
   Batch 78/248, train_loss: 0.9267, step time: 1.4050
   Batch 79/248, train_loss: 0.9606, step time: 1.3728
   Batch 80/248, train loss: 0.9760, step time: 1.4036
```

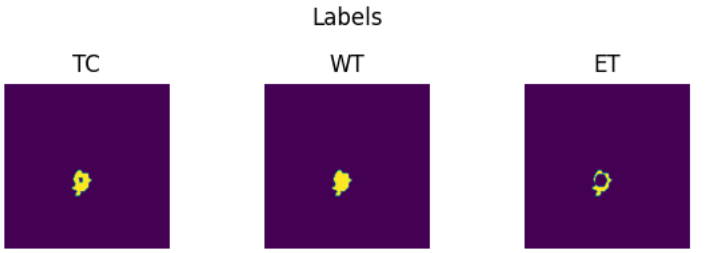
```
Batch 81/248, train_loss: 0.9852, step time: 1.3984
Batch 82/248, train_loss: 0.8548, step time: 1.3774
Batch 83/248, train_loss: 0.9983, step time: 1.3784
Batch 84/248, train_loss: 0.9617, step time: 1.3779
Batch 85/248, train_loss: 0.9986, step time: 1.3755
Batch 86/248, train_loss: 0.8974, step time: 1.3875
Batch 87/248, train_loss: 0.9966, step time: 1.3510
Batch 88/248, train_loss: 0.9944, step time: 1.3896
Batch 89/248, train_loss: 0.6926, step time: 1.3636
Batch 90/248, train_loss: 0.9647, step time: 1.3911
Batch 91/248, train_loss: 0.9978, step time: 1.3872
Batch 92/248, train_loss: 0.9596, step time: 1.4157
Batch 93/248, train_loss: 0.8404, step time: 1.3734
Batch 94/248, train_loss: 0.9980, step time: 1.3728
Batch 95/248, train_loss: 0.9194, step time: 1.3620
Batch 96/248, train_loss: 0.9186, step time: 1.3589
Batch 97/248, train_loss: 0.9999, step time: 1.3384
Batch 98/248, train_loss: 0.8043, step time: 1.3611
Batch 99/248, train_loss: 0.9943, step time: 1.3744
Batch 100/248, train_loss: 0.9991, step time: 1.3616
Batch 101/248, train_loss: 0.6265, step time: 1.3919
Batch 102/248, train_loss: 0.9473, step time: 1.3775
Batch 103/248, train_loss: 0.9972, step time: 1.3694
Batch 104/248, train_loss: 0.9202, step time: 1.3900
Batch 105/248, train_loss: 0.7873, step time: 1.3670
Batch 106/248, train_loss: 0.9678, step time: 1.3940
Batch 107/248, train_loss: 0.9935, step time: 1.3942
Batch 108/248, train_loss: 0.9966, step time: 1.3551
Batch 109/248, train_loss: 0.9990, step time: 1.3631
Batch 110/248, train_loss: 0.9818, step time: 1.3750
Batch 111/248, train_loss: 0.7929, step time: 1.3858
Batch 112/248, train_loss: 0.8235, step time: 1.3785
Batch 113/248, train_loss: 0.9999, step time: 1.3771
Batch 114/248, train_loss: 0.7088, step time: 1.3831
Batch 115/248, train_loss: 0.9342, step time: 1.3834
Batch 116/248, train_loss: 0.7934, step time: 1.3951
Batch 117/248, train_loss: 0.9986, step time: 1.3620
Batch 118/248, train_loss: 0.9953, step time: 1.3714
Batch 119/248, train_loss: 0.9462, step time: 1.3774
Batch 120/248, train_loss: 0.9495, step time: 1.3579
Batch 121/248, train_loss: 0.9889, step time: 1.3780
Batch 122/248, train_loss: 0.9928, step time: 1.3742
Batch 123/248, train_loss: 0.8685, step time: 1.4005
Batch 124/248, train_loss: 0.9943, step time: 1.3573
Batch 125/248, train_loss: 0.9992, step time: 1.3780
Batch 126/248, train_loss: 0.8129, step time: 1.3675
Batch 127/248, train_loss: 0.9533, step time: 1.3711
Batch 128/248, train_loss: 0.9782, step time: 1.3720
Batch 129/248, train_loss: 0.7234, step time: 1.3932
Batch 130/248, train_loss: 0.7267, step time: 1.3946
Batch 131/248, train_loss: 0.9921, step time: 1.3803
Batch 132/248, train_loss: 0.9930, step time: 1.3811
Batch 133/248, train_loss: 0.5802, step time: 1.3773
Batch 134/248, train_loss: 1.0000, step time: 1.3341
Batch 135/248, train_loss: 0.9975, step time: 1.3891
Batch 136/248, train_loss: 0.9688, step time: 1.3634
Batch 137/248, train_loss: 0.7362, step time: 1.4021
Batch 138/248, train_loss: 0.7779, step time: 1.3687
Batch 139/248, train_loss: 0.8193, step time: 1.4034
Batch 140/248, train_loss: 0.9661, step time: 1.3761
Batch 141/248, train_loss: 0.8707, step time: 1.3722
Batch 142/248, train_loss: 0.9988, step time: 1.3884
Batch 143/248, train_loss: 0.9713, step time: 1.4028
Batch 144/248, train_loss: 0.7933, step time: 1.3999
Batch 145/248, train_loss: 0.5874, step time: 1.3659
Batch 146/248, train_loss: 0.9994, step time: 1.3491
Batch 147/248, train_loss: 0.5833, step time: 1.4067
Batch 148/248, train_loss: 0.9934, step time: 1.3772
Batch 149/248, train_loss: 0.9418, step time: 1.3890
Batch 150/248, train_loss: 0.8881, step time: 1.3965
Batch 151/248, train_loss: 0.9928, step time: 1.3971
Batch 152/248, train_loss: 0.6087, step time: 1.3773
Batch 153/248, train_loss: 0.9920, step time: 1.4011
Batch 154/248, train_loss: 0.9981, step time: 1.3579
Batch 155/248, train_loss: 0.9431, step time: 1.3875
Batch 156/248, train_loss: 0.9494, step time: 1.4032
Batch 157/248, train_loss: 0.8237, step time: 1.3839
Batch 158/248, train_loss: 0.9996, step time: 1.3667
Batch 159/248, train_loss: 0.9996, step time: 1.3818
Batch 160/248, train_loss: 0.8615, step time: 1.3864
Batch 161/248, train_loss: 0.9353, step time: 1.3639
Batch 162/248, train_loss: 0.5514, step time: 1.3695
Batch 163/248, train_loss: 0.9946, step time: 1.3857
Batch 164/248, train_loss: 0.9435, step time: 1.3666
Batch 165/248, train_loss: 0.9995, step time: 1.3773
```

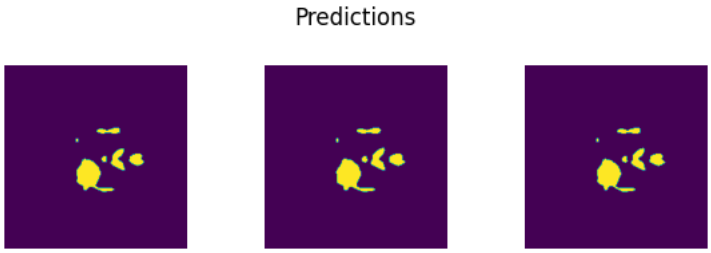
Batch 166/248, train_loss: 0.9871, step time: 1.3904
Batch 167/248, train_loss: 0.9474, step time: 1.3916
Batch 168/248, train_loss: 0.9377, step time: 1.3709
Batch 169/248, train_loss: 0.8595, step time: 1.3825
Batch 170/248, train_loss: 0.9968, step time: 1.3910
Batch 171/248, train_loss: 0.6481, step time: 1.3916
Batch 172/248, train_loss: 0.9998, step time: 1.3546
Batch 173/248, train_loss: 0.8060, step time: 1.3797
Batch 174/248, train_loss: 0.9975, step time: 1.3826
Batch 175/248, train_loss: 0.7037, step time: 1.3862
Batch 176/248, train_loss: 0.9680, step time: 1.3782
Batch 177/248, train_loss: 0.9990, step time: 1.3549
Batch 178/248, train_loss: 0.8584, step time: 1.3844
Batch 179/248, train_loss: 0.5067, step time: 1.3709
Batch 180/248, train_loss: 0.9395, step time: 1.3736
Batch 181/248, train_loss: 0.7460, step time: 1.4011
Batch 182/248, train_loss: 0.9889, step time: 1.3535
Batch 183/248, train_loss: 0.9432, step time: 1.3874
Batch 184/248, train_loss: 0.9893, step time: 1.3689
Batch 185/248, train_loss: 0.9312, step time: 1.3777
Batch 186/248, train_loss: 0.8637, step time: 1.3805
Batch 187/248, train_loss: 0.8743, step time: 1.3674
Batch 188/248, train_loss: 0.9366, step time: 1.3822
Batch 189/248, train_loss: 0.9998, step time: 1.3694
Batch 190/248, train_loss: 0.8739, step time: 1.3828
Batch 191/248, train_loss: 0.9993, step time: 1.3508
Batch 192/248, train_loss: 0.8619, step time: 1.3658
Batch 193/248, train_loss: 0.9634, step time: 1.3719
Batch 194/248, train_loss: 0.9571, step time: 1.3687
Batch 195/248, train_loss: 0.9997, step time: 1.3770
Batch 196/248, train_loss: 0.9999, step time: 1.3486
Batch 197/248, train_loss: 0.9767, step time: 1.3705
Batch 198/248, train_loss: 1.0000, step time: 1.3347
Batch 199/248, train_loss: 0.9353, step time: 1.3829
Batch 200/248, train_loss: 0.9241, step time: 1.3835
Batch 201/248, train_loss: 0.8519, step time: 1.3824
Batch 202/248, train_loss: 0.9636, step time: 1.3639
Batch 203/248, train_loss: 0.9981, step time: 1.3546
Batch 204/248, train_loss: 0.7012, step time: 1.3993
Batch 205/248, train_loss: 0.9836, step time: 1.3721
Batch 206/248, train_loss: 0.9991, step time: 1.3636
Batch 207/248, train_loss: 0.8236, step time: 1.3982
Batch 208/248, train_loss: 0.9344, step time: 1.3851
Batch 209/248, train_loss: 0.8975, step time: 1.3739
Batch 210/248, train_loss: 0.8161, step time: 1.3787
Batch 211/248, train_loss: 0.8034, step time: 1.3893
Batch 212/248, train_loss: 0.9734, step time: 1.3448
Batch 213/248, train_loss: 0.9644, step time: 1.3806
Batch 214/248, train_loss: 0.8743, step time: 1.3568
Batch 215/248, train_loss: 0.9775, step time: 1.3892
Batch 216/248, train_loss: 0.8380, step time: 1.3901
Batch 217/248, train_loss: 0.9878, step time: 1.3811
Batch 218/248, train_loss: 0.9994, step time: 1.3722
Batch 219/248, train_loss: 0.8772, step time: 1.3688
Batch 220/248, train_loss: 0.9764, step time: 1.3774
Batch 221/248, train_loss: 0.9717, step time: 1.3737
Batch 222/248, train_loss: 0.8412, step time: 1.3692
Batch 223/248, train_loss: 0.7032, step time: 1.3805
Batch 224/248, train_loss: 0.7960, step time: 1.3859
Batch 225/248, train_loss: 0.9979, step time: 1.3532
Batch 226/248, train_loss: 0.9871, step time: 1.3571
Batch 227/248, train_loss: 0.8760, step time: 1.3557
Batch 228/248, train_loss: 0.9700, step time: 1.3847
Batch 229/248, train_loss: 0.7866, step time: 1.3929
Batch 230/248, train_loss: 0.8802, step time: 1.3970
Batch 231/248, train_loss: 0.9984, step time: 1.3769
Batch 232/248, train_loss: 0.8712, step time: 1.3798
Batch 233/248, train_loss: 0.9999, step time: 1.3655
Batch 234/248, train_loss: 0.9964, step time: 1.3894
Batch 235/248, train_loss: 0.9968, step time: 1.3959
Batch 236/248, train_loss: 0.9992, step time: 1.3956
Batch 237/248, train_loss: 0.7401, step time: 1.3924
Batch 238/248, train_loss: 0.8449, step time: 1.3865
Batch 239/248, train_loss: 0.4412, step time: 1.3608
Batch 240/248, train_loss: 0.9719, step time: 1.3903
Batch 241/248, train_loss: 0.9997, step time: 1.3581
Batch 242/248, train_loss: 0.9901, step time: 1.3571
Batch 243/248, train_loss: 0.9995, step time: 1.3436
Batch 244/248, train_loss: 0.9968, step time: 1.3789
Batch 245/248, train_loss: 0.8363, step time: 1.3820
Batch 246/248, train_loss: 0.9960, step time: 1.3832
Batch 247/248, train_loss: 0.5483, step time: 1.3553
Batch 248/248, train_loss: 1.0000, step time: 1.3400

Labels



VAL
Batch 1/31, val_loss: 0.9532
Batch 2/31, val_loss: 0.9999
Batch 3/31, val_loss: 0.9996
Batch 4/31, val_loss: 0.9932
Batch 5/31, val_loss: 1.0000
Batch 6/31, val_loss: 0.8077
Batch 7/31, val_loss: 0.9477
Batch 8/31, val_loss: 0.9951
Batch 9/31, val_loss: 0.8316
Batch 10/31, val_loss: 0.9925
Batch 11/31, val_loss: 0.9570
Batch 12/31, val_loss: 0.9979
Batch 13/31, val_loss: 0.9956
Batch 14/31, val_loss: 0.9963
Batch 15/31, val_loss: 0.9999
Batch 16/31, val_loss: 0.9985
Batch 17/31, val_loss: 0.9994
Batch 18/31, val_loss: 0.9961
Batch 19/31, val_loss: 0.9062
Batch 20/31, val_loss: 0.9587
Batch 21/31, val_loss: 0.9819
Batch 22/31, val_loss: 0.9992
Batch 23/31, val_loss: 0.9993
Batch 24/31, val_loss: 0.8047
Batch 25/31, val_loss: 0.9263
Batch 26/31, val_loss: 0.9827
Batch 27/31, val_loss: 0.9997
Batch 28/31, val_loss: 0.9178
Batch 29/31, val_loss: 0.9999
Batch 30/31, val_loss: 0.9989
Batch 31/31, val_loss: 0.9979



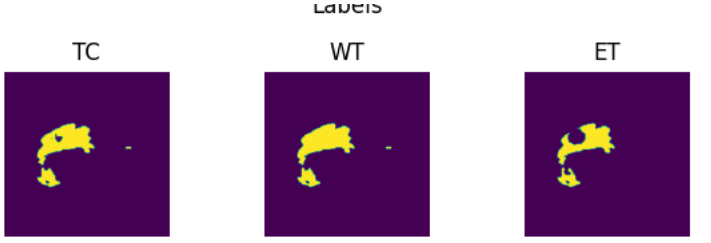


epoch 5
average train loss: 0.9120
average validation loss: 0.9656
saved as best model: False
current mean dice: 0.1851
current TC dice: 0.1953
current WT dice: 0.1937
current ET dice: 0.1842

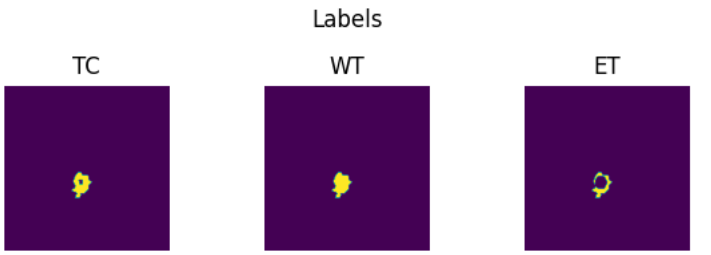
```
Best Mean Metric: 0.2004
time consuming of epoch 5 is: 1738.0598
----------
epoch 6/100
TRAIN
   Batch 1/248, train_loss: 0.6613, step time: 1.4260
   Batch 2/248, train_loss: 0.9996, step time: 1.3762
   Batch 3/248, train_loss: 0.9938, step time: 1.3690
   Batch 4/248, train_loss: 0.9998, step time: 1.3774
   Batch 5/248, train_loss: 0.9676, step time: 1.3604
   Batch 6/248, train_loss: 0.9674, step time: 1.3693
   Batch 7/248, train_loss: 0.5697, step time: 1.3866
   Batch 8/248, train_loss: 0.9212, step time: 1.3684
   Batch 9/248, train_loss: 0.6785, step time: 1.3923
   Batch 10/248, train_loss: 0.9877, step time: 1.3609
   Batch 11/248, train_loss: 0.9743, step time: 1.3947
   Batch 12/248, train_loss: 0.9993, step time: 1.3563
   Batch 13/248, train_loss: 0.9914, step time: 1.3583
   Batch 14/248, train_loss: 0.5089, step time: 1.3641
   Batch 15/248, train_loss: 0.9854, step time: 1.3557
   Batch 16/248, train_loss: 0.9604, step time: 1.4002
   Batch 17/248, train_loss: 0.9987, step time: 1.3447
   Batch 18/248, train_loss: 0.9951, step time: 1.3823
   Batch 19/248, train_loss: 0.7073, step time: 1.3884
   Batch 20/248, train_loss: 0.9440, step time: 1.3728
   Batch 21/248, train_loss: 0.8301, step time: 1.4049
   Batch 22/248, train_loss: 0.9999, step time: 1.3624
   Batch 23/248, train_loss: 0.9996, step time: 1.3737
   Batch 24/248, train_loss: 0.8598, step time: 1.4018
   Batch 25/248, train_loss: 0.5353, step time: 1.3699
   Batch 26/248, train_loss: 0.9978, step time: 1.3871
   Batch 27/248, train_loss: 0.6609, step time: 1.4034
   Batch 28/248, train_loss: 0.9502, step time: 1.3800
   Batch 29/248, train_loss: 0.9983, step time: 1.3705
   Batch 30/248, train_loss: 0.9497, step time: 1.3875
   Batch 31/248, train_loss: 0.9812, step time: 1.3726
   Batch 32/248, train_loss: 0.8302, step time: 1.3718
   Batch 33/248, train_loss: 0.6500, step time: 1.3548
   Batch 34/248, train_loss: 0.7212, step time: 1.3677
   Batch 35/248, train_loss: 0.8534, step time: 1.3698
   Batch 36/248, train_loss: 0.9998, step time: 1.3305
   Batch 37/248, train_loss: 0.8753, step time: 1.3615
   Batch 38/248, train_loss: 0.9730, step time: 1.3821
   Batch 39/248, train_loss: 0.8957, step time: 1.3742
   Batch 40/248, train_loss: 0.9999, step time: 1.3809
   Batch 41/248, train_loss: 0.8088, step time: 1.3800
   Batch 42/248, train_loss: 0.7870, step time: 1.3639
   Batch 43/248, train_loss: 0.7044, step time: 1.3908
   Batch 44/248, train_loss: 0.9045, step time: 1.3772
   Batch 45/248, train_loss: 0.9802, step time: 1.3801
   Batch 46/248, train_loss: 0.9095, step time: 1.3570
   Batch 47/248, train_loss: 0.9420, step time: 1.3678
   Batch 48/248, train_loss: 0.9171, step time: 1.3609
   Batch 49/248, train_loss: 0.9958, step time: 1.3730
   Batch 50/248, train_loss: 0.9477, step time: 1.3837
   Batch 51/248, train_loss: 0.9434, step time: 1.3999
   Batch 52/248, train_loss: 0.9090, step time: 1.3795
   Batch 53/248, train_loss: 0.9801, step time: 1.3627
   Batch 54/248, train_loss: 0.9311, step time: 1.3777
   Batch 55/248, train_loss: 0.9830, step time: 1.3574
   Batch 56/248, train_loss: 0.9366, step time: 1.3801
   Batch 57/248, train_loss: 0.9483, step time: 1.3709
   Batch 58/248, train_loss: 0.7994, step time: 1.3702
   Batch 59/248, train_loss: 0.8431, step time: 1.3817
   Batch 60/248, train_loss: 0.7931, step time: 1.3558
   Batch 61/248, train_loss: 0.8464, step time: 1.3989
   Batch 62/248, train_loss: 0.9821, step time: 1.3634
   Batch 63/248, train_loss: 0.9966, step time: 1.3615
   Batch 64/248, train_loss: 0.9955, step time: 1.3874
   Batch 65/248, train_loss: 0.9518, step time: 1.3647
   Batch 66/248, train_loss: 0.9535, step time: 1.3866
   Batch 67/248, train_loss: 0.6421, step time: 1.3965
   Batch 68/248, train_loss: 0.7656, step time: 1.3883
   Batch 69/248, train_loss: 0.9992, step time: 1.3595
   Batch 70/248, train_loss: 0.8167, step time: 1.3646
   Batch 71/248, train_loss: 0.7319, step time: 1.3699
   Batch 72/248, train_loss: 0.7437, step time: 1.3662
   Batch 73/248, train_loss: 0.7964, step time: 1.3518
   Batch 74/248, train_loss: 0.9998, step time: 1.3746
   Batch 75/248, train_loss: 0.7920, step time: 1.3998
   Batch 76/248, train_loss: 0.9977, step time: 1.3532
   Batch 77/248, train_loss: 0.9996, step time: 1.3543
   Batch 78/248, train_loss: 0.8858, step time: 1.4040
   Batch 79/248, train_loss: 0.9418, step time: 1.4081
   Batch 80/248, train_loss: 0.9642, step time: 1.3705
```

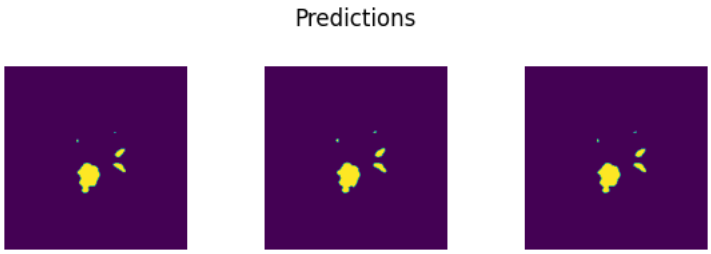
```
Batch 80/248, train_loss: 0.9042, step time: 1.3703
Batch 81/248, train_loss: 0.9780, step time: 1.3884
Batch 82/248, train_loss: 0.7802, step time: 1.3852
Batch 83/248, train_loss: 0.9972, step time: 1.3601
Batch 84/248, train_loss: 0.9395, step time: 1.3847
Batch 85/248, train_loss: 0.9978, step time: 1.3687
Batch 86/248, train_loss: 0.8498, step time: 1.3634
Batch 87/248, train_loss: 0.9963, step time: 1.3471
Batch 88/248, train_loss: 0.9917, step time: 1.3717
Batch 89/248, train_loss: 0.5989, step time: 1.3769
Batch 90/248, train_loss: 0.9472, step time: 1.3943
Batch 91/248, train_loss: 0.9969, step time: 1.3814
Batch 92/248, train_loss: 0.9433, step time: 1.4015
Batch 93/248, train_loss: 0.7581, step time: 1.4131
Batch 94/248, train_loss: 0.9969, step time: 1.3600
Batch 95/248, train_loss: 0.8704, step time: 1.3809
Batch 96/248, train_loss: 0.8681, step time: 1.3705
Batch 97/248, train_loss: 0.9999, step time: 1.3763
Batch 98/248, train_loss: 0.7111, step time: 1.3758
Batch 99/248, train_loss: 0.9915, step time: 1.3886
Batch 100/248, train_loss: 0.9995, step time: 1.3475
Batch 101/248, train_loss: 0.5025, step time: 1.3923
Batch 102/248, train_loss: 0.9106, step time: 1.3848
Batch 103/248, train_loss: 0.9955, step time: 1.3867
Batch 104/248, train_loss: 0.8708, step time: 1.3935
Batch 105/248, train_loss: 0.6879, step time: 1.3686
Batch 106/248, train_loss: 0.9452, step time: 1.3962
Batch 107/248, train_loss: 0.9890, step time: 1.3759
Batch 108/248, train_loss: 0.9944, step time: 1.3650
Batch 109/248, train_loss: 0.9989, step time: 1.3646
Batch 110/248, train_loss: 0.9793, step time: 1.3678
Batch 111/248, train_loss: 0.6964, step time: 1.3676
Batch 112/248, train_loss: 0.7230, step time: 1.3712
Batch 113/248, train_loss: 0.9999, step time: 1.3515
Batch 114/248, train_loss: 0.6126, step time: 1.3698
Batch 115/248, train_loss: 0.8922, step time: 1.3657
Batch 116/248, train_loss: 0.6847, step time: 1.3820
Batch 117/248, train_loss: 0.9983, step time: 1.3698
Batch 118/248, train_loss: 0.9874, step time: 1.3733
Batch 119/248, train_loss: 0.9321, step time: 1.3926
Batch 120/248, train_loss: 0.9207, step time: 1.3918
Batch 121/248, train_loss: 0.9841, step time: 1.3667
Batch 122/248, train_loss: 0.9892, step time: 1.3843
Batch 123/248, train_loss: 0.7922, step time: 1.3924
Batch 124/248, train_loss: 0.9908, step time: 1.3818
Batch 125/248, train_loss: 0.9990, step time: 1.3816
Batch 126/248, train_loss: 0.7386, step time: 1.3683
Batch 127/248, train_loss: 0.9264, step time: 1.3775
Batch 128/248, train_loss: 0.9620, step time: 1.3687
Batch 129/248, train_loss: 0.6096, step time: 1.3633
Batch 130/248, train_loss: 0.6310, step time: 1.3762
Batch 131/248, train_loss: 0.9864, step time: 1.3600
Batch 132/248, train_loss: 0.9867, step time: 1.3499
Batch 133/248, train_loss: 0.4828, step time: 1.3575
Batch 134/248, train_loss: 1.0000, step time: 1.3594
Batch 135/248, train_loss: 0.9947, step time: 1.3543
Batch 136/248, train_loss: 0.9468, step time: 1.3860
Batch 137/248, train_loss: 0.6251, step time: 1.3976
Batch 138/248, train_loss: 0.6689, step time: 1.3940
Batch 139/248, train_loss: 0.7323, step time: 1.3956
Batch 140/248, train_loss: 0.9438, step time: 1.3930
Batch 141/248, train_loss: 0.8067, step time: 1.3723
Batch 142/248, train_loss: 0.9976, step time: 1.3872
Batch 143/248, train_loss: 0.9497, step time: 1.3850
Batch 144/248, train_loss: 0.6879, step time: 1.3841
Batch 145/248, train_loss: 0.4561, step time: 1.3832
Batch 146/248, train_loss: 0.9993, step time: 1.3740
Batch 147/248, train_loss: 0.4380, step time: 1.3688
Batch 148/248, train_loss: 0.9917, step time: 1.3580
Batch 149/248, train_loss: 0.8823, step time: 1.3920
Batch 150/248, train_loss: 0.8580, step time: 1.4061
Batch 151/248, train_loss: 0.9860, step time: 1.3491
Batch 152/248, train_loss: 0.4593, step time: 1.3655
Batch 153/248, train_loss: 0.9835, step time: 1.3879
Batch 154/248, train_loss: 0.9962, step time: 1.3630
Batch 155/248, train_loss: 0.8909, step time: 1.4060
Batch 156/248, train_loss: 0.9030, step time: 1.3741
Batch 157/248, train_loss: 0.7410, step time: 1.4105
Batch 158/248, train_loss: 0.9994, step time: 1.3506
Batch 159/248, train_loss: 0.9992, step time: 1.3855
Batch 160/248, train_loss: 0.7568, step time: 1.3888
Batch 161/248, train_loss: 0.8829, step time: 1.3889
Batch 162/248, train_loss: 0.4461, step time: 1.3916
Batch 163/248, train_loss: 0.9888, step time: 1.3893
Batch 164/248, train_loss: 0.8913, step time: 1.3556
```

```
Batch 165/248, train_loss: 0.9992, step time: 1.3677
Batch 166/248, train_loss: 0.9766, step time: 1.3673
Batch 167/248, train_loss: 0.9131, step time: 1.3926
Batch 168/248, train_loss: 0.8958, step time: 1.3580
Batch 169/248, train_loss: 0.7786, step time: 1.3921
Batch 170/248, train_loss: 0.9968, step time: 1.3677
Batch 171/248, train_loss: 0.5319, step time: 1.4037
Batch 172/248, train_loss: 0.9998, step time: 1.3800
Batch 173/248, train_loss: 0.6773, step time: 1.3825
Batch 174/248, train_loss: 0.9945, step time: 1.3606
Batch 175/248, train_loss: 0.6395, step time: 1.4007
Batch 176/248, train_loss: 0.9449, step time: 1.3681
Batch 177/248, train_loss: 0.9983, step time: 1.3784
Batch 178/248, train_loss: 0.7687, step time: 1.3733
Batch 179/248, train_loss: 0.3860, step time: 1.3709
Batch 180/248, train_loss: 0.9007, step time: 1.3579
Batch 181/248, train_loss: 0.6428, step time: 1.3889
Batch 182/248, train_loss: 0.9823, step time: 1.3813
Batch 183/248, train_loss: 0.9096, step time: 1.3710
Batch 184/248, train_loss: 0.9810, step time: 1.3624
Batch 185/248, train_loss: 0.8844, step time: 1.3703
Batch 186/248, train_loss: 0.7854, step time: 1.3691
Batch 187/248, train_loss: 0.8050, step time: 1.3767
Batch 188/248, train_loss: 0.8947, step time: 1.3863
Batch 189/248, train_loss: 0.9997, step time: 1.3602
Batch 190/248, train_loss: 0.7976, step time: 1.3574
Batch 191/248, train_loss: 0.9992, step time: 1.3557
Batch 192/248, train_loss: 0.7948, step time: 1.4019
Batch 193/248, train_loss: 0.9421, step time: 1.3845
Batch 194/248, train_loss: 0.9248, step time: 1.3899
Batch 195/248, train_loss: 0.9997, step time: 1.3834
Batch 196/248, train_loss: 0.9999, step time: 1.3644
Batch 197/248, train_loss: 0.9600, step time: 1.3911
Batch 198/248, train_loss: 0.9999, step time: 1.3703
Batch 199/248, train_loss: 0.8942, step time: 1.3592
Batch 200/248, train_loss: 0.8762, step time: 1.3610
Batch 201/248, train_loss: 0.7533, step time: 1.3664
Batch 202/248, train_loss: 0.9403, step time: 1.3644
Batch 203/248, train_loss: 0.9965, step time: 1.3702
Batch 204/248, train_loss: 0.5763, step time: 1.4002
Batch 205/248, train_loss: 0.9737, step time: 1.3838
Batch 206/248, train_loss: 0.9982, step time: 1.3849
Batch 207/248, train_loss: 0.7312, step time: 1.3681
Batch 208/248, train_loss: 0.8860, step time: 1.3997
Batch 209/248, train_loss: 0.8348, step time: 1.3640
Batch 210/248, train_loss: 0.7104, step time: 1.3941
Batch 211/248, train_loss: 0.6972, step time: 1.3752
Batch 212/248, train_loss: 0.9507, step time: 1.3760
Batch 213/248, train_loss: 0.9371, step time: 1.3625
Batch 214/248, train_loss: 0.7932, step time: 1.3896
Batch 215/248, train_loss: 0.9645, step time: 1.3936
Batch 216/248, train_loss: 0.7424, step time: 1.3966
Batch 217/248, train_loss: 0.9794, step time: 1.3965
Batch 218/248, train_loss: 0.9994, step time: 1.3594
Batch 219/248, train_loss: 0.7947, step time: 1.3700
Batch 220/248, train_loss: 0.9555, step time: 1.3895
Batch 221/248, train_loss: 0.9558, step time: 1.3779
Batch 222/248, train_loss: 0.7662, step time: 1.3845
Batch 223/248, train_loss: 0.5684, step time: 1.3798
Batch 224/248, train_loss: 0.6808, step time: 1.3755
Batch 225/248, train_loss: 0.9969, step time: 1.3482
Batch 226/248, train_loss: 0.9794, step time: 1.3493
Batch 227/248, train_loss: 0.7994, step time: 1.3911
Batch 228/248, train_loss: 0.9527, step time: 1.3831
Batch 229/248, train_loss: 0.5721, step time: 1.3514
Batch 230/248, train_loss: 0.8044, step time: 1.3680
Batch 231/248, train_loss: 0.9975, step time: 1.3841
Batch 232/248, train_loss: 0.7842, step time: 1.3955
Batch 233/248, train_loss: 0.9999, step time: 1.3551
Batch 234/248, train_loss: 0.9964, step time: 1.3996
Batch 235/248, train_loss: 0.9934, step time: 1.3579
Batch 236/248, train_loss: 0.9990, step time: 1.3781
Batch 237/248, train_loss: 0.6190, step time: 1.3820
Batch 238/248, train_loss: 0.7418, step time: 1.3741
Batch 239/248, train_loss: 0.3669, step time: 1.4095
Batch 240/248, train_loss: 0.9386, step time: 1.3602
Batch 241/248, train_loss: 0.9996, step time: 1.3544
Batch 242/248, train_loss: 0.9793, step time: 1.3894
Batch 243/248, train_loss: 0.9993, step time: 1.3348
Batch 244/248, train_loss: 0.9942, step time: 1.3654
Batch 245/248, train_loss: 0.7164, step time: 1.3888
Batch 246/248, train_loss: 0.9945, step time: 1.3844
Batch 247/248, train_loss: 0.4187, step time: 1.4106
Batch 248/248, train_loss: 1.0000, step time: 1.3290
```




```
VAL
   Batch 1/31, val_loss: 0.9374
   Batch 2/31, val_loss: 0.9998
   Batch 3/31, val_loss: 0.9986
   Batch 4/31, val_loss: 0.9907
   Batch 5/31, val_loss: 1.0000
   Batch 6/31, val_loss: 0.7727
   Batch 7/31, val_loss: 0.9320
   Batch 8/31, val_loss: 0.9931
   Batch 9/31, val_loss: 0.7965
   Batch 10/31, val_loss: 0.9881
   Batch 11/31, val_loss: 0.9343
   Batch 12/31, val_loss: 0.9940
   Batch 13/31, val_loss: 0.9935
   Batch 14/31, val_loss: 0.9907
   Batch 15/31, val_loss: 0.9998
   Batch 16/31, val_loss: 0.9975
   Batch 17/31, val_loss: 0.9984
   Batch 18/31, val_loss: 0.9942
   Batch 19/31, val_loss: 0.8751
   Batch 20/31, val_loss: 0.9461
   Batch 21/31, val_loss: 0.9711
   Batch 22/31, val_loss: 0.9989
   Batch 23/31, val_loss: 0.9992
   Batch 24/31, val_loss: 0.7856
   Batch 25/31, val_loss: 0.9004
   Batch 26/31, val_loss: 0.9733
   Batch 27/31, val_loss: 0.9995
   Batch 28/31, val_loss: 0.8762
   Batch 29/31, val_loss: 0.9996
   Batch 30/31, val_loss: 0.9984
   Batch 31/31, val_loss: 0.9972
```



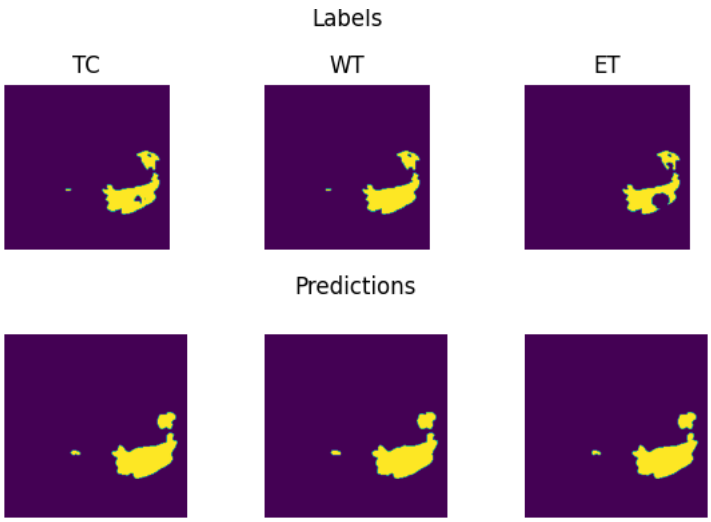



```
epoch 6
   average train loss: 0.8708
   average validation loss: 0.9559
   saved as best model: True
   current mean dice: 0.2256
   current TC dice: 0.2383
   current WT dice: 0.2365
```

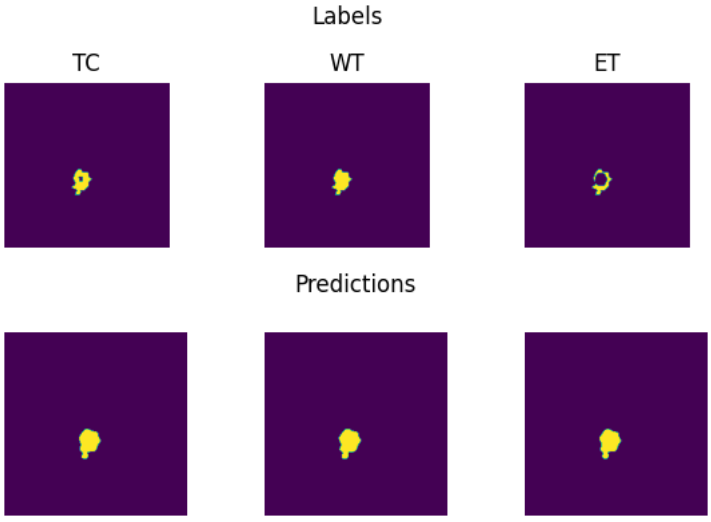
```
   current ET dice: 0.2234
Best Mean Metric: 0.2256
time consuming of epoch 6 is: 1742.1852
----------
epoch 7/100
TRAIN
   Batch 1/248, train_loss: 0.5245, step time: 1.4473
   Batch 2/248, train_loss: 0.9994, step time: 1.3749
   Batch 3/248, train_loss: 0.9897, step time: 1.3691
   Batch 4/248, train_loss: 0.9997, step time: 1.3673
   Batch 5/248, train_loss: 0.9411, step time: 1.3635
   Batch 6/248, train_loss: 0.9584, step time: 1.3900
   Batch 7/248, train_loss: 0.4604, step time: 1.3626
   Batch 8/248, train_loss: 0.8899, step time: 1.3709
   Batch 9/248, train_loss: 0.5430, step time: 1.3866
   Batch 10/248, train_loss: 0.9746, step time: 1.3871
   Batch 11/248, train_loss: 0.9627, step time: 1.3665
   Batch 12/248, train_loss: 0.9979, step time: 1.3672
   Batch 13/248, train_loss: 0.9839, step time: 1.3725
   Batch 14/248, train_loss: 0.3792, step time: 1.3941
   Batch 15/248, train_loss: 0.9654, step time: 1.3637
   Batch 16/248, train_loss: 0.9175, step time: 1.3703
   Batch 17/248, train_loss: 0.9990, step time: 1.3498
   Batch 18/248, train_loss: 0.9898, step time: 1.3492
   Batch 19/248, train_loss: 0.5906, step time: 1.3855
   Batch 20/248, train_loss: 0.9046, step time: 1.3609
   Batch 21/248, train_loss: 0.7322, step time: 1.3952
   Batch 22/248, train_loss: 0.9998, step time: 1.3714
   Batch 23/248, train_loss: 0.9998, step time: 1.3532
   Batch 24/248, train_loss: 0.7679, step time: 1.3829
   Batch 25/248, train_loss: 0.4352, step time: 1.3973
   Batch 26/248, train_loss: 0.9910, step time: 1.3727
   Batch 27/248, train_loss: 0.8377, step time: 1.4096
   Batch 28/248, train_loss: 0.9005, step time: 1.3853
   Batch 29/248, train_loss: 0.9963, step time: 1.3916
   Batch 30/248, train_loss: 0.9278, step time: 1.3682
   Batch 31/248, train_loss: 0.9650, step time: 1.3555
   Batch 32/248, train_loss: 0.7333, step time: 1.3939
   Batch 33/248, train_loss: 0.5191, step time: 1.3963
   Batch 34/248, train_loss: 0.5968, step time: 1.3838
   Batch 35/248, train_loss: 0.7671, step time: 1.3688
   Batch 36/248, train_loss: 0.9997, step time: 1.3411
   Batch 37/248, train_loss: 0.8037, step time: 1.3802
   Batch 38/248, train_loss: 0.9501, step time: 1.3958
   Batch 39/248, train_loss: 0.8310, step time: 1.3753
   Batch 40/248, train_loss: 0.9997, step time: 1.3471
   Batch 41/248, train_loss: 0.7057, step time: 1.3711
   Batch 42/248, train_loss: 0.6764, step time: 1.3591
   Batch 43/248, train_loss: 0.5722, step time: 1.3957
   Batch 44/248, train_loss: 0.8960, step time: 1.3653
   Batch 45/248, train_loss: 0.9577, step time: 1.3874
   Batch 46/248, train_loss: 0.8567, step time: 1.3968
   Batch 47/248, train_loss: 0.8893, step time: 1.3949
   Batch 48/248, train_loss: 0.8731, step time: 1.3662
   Batch 49/248, train_loss: 0.9909, step time: 1.3438
   Batch 50/248, train_loss: 0.9072, step time: 1.3861
   Batch 51/248, train_loss: 0.8890, step time: 1.3846
   Batch 52/248, train_loss: 0.8472, step time: 1.3884
   Batch 53/248, train_loss: 0.9614, step time: 1.3889
   Batch 54/248, train_loss: 0.8820, step time: 1.3981
   Batch 55/248, train_loss: 0.9625, step time: 1.3897
   Batch 56/248, train_loss: 0.9018, step time: 1.3668
   Batch 57/248, train_loss: 0.9105, step time: 1.3545
   Batch 58/248, train_loss: 0.6934, step time: 1.3650
   Batch 59/248, train_loss: 0.7608, step time: 1.3597
   Batch 60/248, train_loss: 0.6758, step time: 1.3823
   Batch 61/248, train_loss: 0.7708, step time: 1.3798
   Batch 62/248, train_loss: 0.9702, step time: 1.3837
   Batch 63/248, train_loss: 0.9965, step time: 1.3460
   Batch 64/248, train_loss: 0.9936, step time: 1.3489
   Batch 65/248, train_loss: 0.9191, step time: 1.3923
   Batch 66/248, train_loss: 0.9197, step time: 1.4097
   Batch 67/248, train_loss: 0.4885, step time: 1.3817
   Batch 68/248, train_loss: 0.6261, step time: 1.3726
   Batch 69/248, train_loss: 0.9996, step time: 1.3874
   Batch 70/248, train_loss: 0.7084, step time: 1.3960
   Batch 71/248, train_loss: 0.5990, step time: 1.3976
   Batch 72/248, train_loss: 0.6083, step time: 1.3498
   Batch 73/248, train_loss: 0.6823, step time: 1.3583
   Batch 74/248, train_loss: 0.9997, step time: 1.3403
   Batch 75/248, train_loss: 0.6771, step time: 1.3808
   Batch 76/248, train_loss: 0.9958, step time: 1.3842
   Batch 77/248, train_loss: 0.9994, step time: 1.3525
   Batch 78/248, train_loss: 0.7995, step time: 1.3632
   Batch 79/248, train_loss: 0.8836, step time: 1.3856
```

```
Batch 80/248, train_loss: 0.9198, step time: 1.3978
Batch 81/248, train_loss: 0.9485, step time: 1.3649
Batch 82/248, train_loss: 0.6565, step time: 1.3734
Batch 83/248, train_loss: 0.9969, step time: 1.3790
Batch 84/248, train_loss: 0.9127, step time: 1.3818
Batch 85/248, train_loss: 0.9965, step time: 1.3563
Batch 86/248, train_loss: 0.8010, step time: 1.3652
Batch 87/248, train_loss: 0.9867, step time: 1.3518
Batch 88/248, train_loss: 0.9859, step time: 1.3689
Batch 89/248, train_loss: 0.4349, step time: 1.4049
Batch 90/248, train_loss: 0.9276, step time: 1.3632
Batch 91/248, train_loss: 0.9950, step time: 1.3591
Batch 92/248, train_loss: 0.9121, step time: 1.3867
Batch 93/248, train_loss: 0.6458, step time: 1.3684
Batch 94/248, train_loss: 0.9957, step time: 1.3874
Batch 95/248, train_loss: 0.7877, step time: 1.3997
Batch 96/248, train_loss: 0.7660, step time: 1.3655
Batch 97/248, train_loss: 0.9999, step time: 1.3698
Batch 98/248, train_loss: 0.5816, step time: 1.3564
Batch 99/248, train_loss: 0.9812, step time: 1.3713
Batch 100/248, train_loss: 0.9985, step time: 1.3874
Batch 101/248, train_loss: 0.3668, step time: 1.3604
Batch 102/248, train_loss: 0.8539, step time: 1.3598
Batch 103/248, train_loss: 0.9921, step time: 1.3485
Batch 104/248, train_loss: 0.8149, step time: 1.3789
Batch 105/248, train_loss: 0.5502, step time: 1.3841
Batch 106/248, train_loss: 0.9072, step time: 1.3593
Batch 107/248, train_loss: 0.9832, step time: 1.3681
Batch 108/248, train_loss: 0.9918, step time: 1.3556
Batch 109/248, train_loss: 0.9989, step time: 1.3594
Batch 110/248, train_loss: 0.9681, step time: 1.3639
Batch 111/248, train_loss: 0.5650, step time: 1.3716
Batch 112/248, train_loss: 0.6097, step time: 1.3690
Batch 113/248, train_loss: 0.9998, step time: 1.3424
Batch 114/248, train_loss: 0.4683, step time: 1.3670
Batch 115/248, train_loss: 0.8355, step time: 1.3862
Batch 116/248, train_loss: 0.5411, step time: 1.3639
Batch 117/248, train_loss: 0.9975, step time: 1.3775
Batch 118/248, train_loss: 0.9905, step time: 1.3792
Batch 119/248, train_loss: 0.8689, step time: 1.3914
Batch 120/248, train_loss: 0.8738, step time: 1.4016
Batch 121/248, train_loss: 0.9617, step time: 1.3671
Batch 122/248, train_loss: 0.9759, step time: 1.3796
Batch 123/248, train_loss: 0.6631, step time: 1.4004
Batch 124/248, train_loss: 0.9748, step time: 1.3716
Batch 125/248, train_loss: 0.9986, step time: 1.3795
Batch 126/248, train_loss: 0.6364, step time: 1.3984
Batch 127/248, train_loss: 0.8435, step time: 1.4064
Batch 128/248, train_loss: 0.9207, step time: 1.3777
Batch 129/248, train_loss: 0.4971, step time: 1.3654
Batch 130/248, train_loss: 0.5341, step time: 1.3595
Batch 131/248, train_loss: 0.9770, step time: 1.3679
Batch 132/248, train_loss: 0.9743, step time: 1.3528
Batch 133/248, train_loss: 0.3592, step time: 1.3609
Batch 134/248, train_loss: 1.0000, step time: 1.3335
Batch 135/248, train_loss: 0.9905, step time: 1.3902
Batch 136/248, train_loss: 0.9113, step time: 1.3652
Batch 137/248, train_loss: 0.5272, step time: 1.3740
Batch 138/248, train_loss: 0.5615, step time: 1.4041
Batch 139/248, train_loss: 0.6522, step time: 1.3686
Batch 140/248, train_loss: 0.9172, step time: 1.3939
Batch 141/248, train_loss: 0.7143, step time: 1.3967
Batch 142/248, train_loss: 0.9963, step time: 1.3908
Batch 143/248, train_loss: 0.9152, step time: 1.3930
Batch 144/248, train_loss: 0.5424, step time: 1.3626
Batch 145/248, train_loss: 0.3407, step time: 1.3567
Batch 146/248, train_loss: 0.9991, step time: 1.3460
Batch 147/248, train_loss: 0.3543, step time: 1.3799
Batch 148/248, train_loss: 0.9882, step time: 1.3943
Batch 149/248, train_loss: 0.8076, step time: 1.3884
Batch 150/248, train_loss: 0.8381, step time: 1.4065
Batch 151/248, train_loss: 0.9803, step time: 1.3861
Batch 152/248, train_loss: 0.3295, step time: 1.3819
Batch 153/248, train_loss: 0.9728, step time: 1.3741
Batch 154/248, train_loss: 0.9938, step time: 1.3960
Batch 155/248, train_loss: 0.8315, step time: 1.3963
Batch 156/248, train_loss: 0.8701, step time: 1.3832
Batch 157/248, train_loss: 0.6399, step time: 1.3588
Batch 158/248, train_loss: 0.9992, step time: 1.3386
Batch 159/248, train_loss: 0.9983, step time: 1.3622
Batch 160/248, train_loss: 0.6479, step time: 1.3275
Batch 161/248, train_loss: 0.8051, step time: 1.3602
Batch 162/248, train_loss: 0.3021, step time: 1.3258
Batch 163/248, train_loss: 0.9841, step time: 1.3085
Batch 164/248, train_loss: 0.8217, step time: 1.3513
```

```
Batch 165/248, train_loss: 0.9986, step time: 1.3355
Batch 166/248, train_loss: 0.9511, step time: 1.3233
Batch 167/248, train_loss: 0.8348, step time: 1.3278
Batch 168/248, train_loss: 0.8160, step time: 1.3476
Batch 169/248, train_loss: 0.6574, step time: 1.3722
Batch 170/248, train_loss: 0.9916, step time: 1.3701
Batch 171/248, train_loss: 0.4014, step time: 1.3670
Batch 172/248, train_loss: 0.9985, step time: 1.3331
Batch 173/248, train_loss: 0.5767, step time: 1.3874
Batch 174/248, train_loss: 0.9998, step time: 1.3318
Batch 175/248, train_loss: 0.4909, step time: 1.3548
Batch 176/248, train_loss: 0.9008, step time: 1.3471
Batch 177/248, train_loss: 0.9960, step time: 1.3801
Batch 178/248, train_loss: 0.6592, step time: 1.3716
Batch 179/248, train_loss: 0.2820, step time: 1.3637
Batch 180/248, train_loss: 0.8345, step time: 1.3653
Batch 181/248, train_loss: 0.5213, step time: 1.3740
Batch 182/248, train_loss: 0.9741, step time: 1.3795
Batch 183/248, train_loss: 0.8477, step time: 1.3800
Batch 184/248, train_loss: 0.9626, step time: 1.3756
Batch 185/248, train_loss: 0.8037, step time: 1.3982
Batch 186/248, train_loss: 0.6660, step time: 1.4017
Batch 187/248, train_loss: 0.6998, step time: 1.3789
Batch 188/248, train_loss: 0.8217, step time: 1.3830
Batch 189/248, train_loss: 0.9994, step time: 1.3641
Batch 190/248, train_loss: 0.6853, step time: 1.3728
Batch 191/248, train_loss: 0.9995, step time: 1.3520
Batch 192/248, train_loss: 0.6808, step time: 1.3717
Batch 193/248, train_loss: 0.8994, step time: 1.3656
Batch 194/248, train_loss: 0.8647, step time: 1.3651
Batch 195/248, train_loss: 0.9995, step time: 1.3447
Batch 196/248, train_loss: 0.9999, step time: 1.3534
Batch 197/248, train_loss: 0.9277, step time: 1.3936
Batch 198/248, train_loss: 0.9999, step time: 1.3733
Batch 199/248, train_loss: 0.8280, step time: 1.3756
Batch 200/248, train_loss: 0.7945, step time: 1.3949
Batch 201/248, train_loss: 0.6304, step time: 1.3791
Batch 202/248, train_loss: 0.9028, step time: 1.3708
Batch 203/248, train_loss: 0.9935, step time: 1.3538
Batch 204/248, train_loss: 0.4200, step time: 1.4024
Batch 205/248, train_loss: 0.9497, step time: 1.3572
Batch 206/248, train_loss: 0.9969, step time: 1.3783
Batch 207/248, train_loss: 0.6012, step time: 1.3705
Batch 208/248, train_loss: 0.8092, step time: 1.3914
Batch 209/248, train_loss: 0.7180, step time: 1.3831
Batch 210/248, train_loss: 0.5704, step time: 1.3697
Batch 211/248, train_loss: 0.5485, step time: 1.3864
Batch 212/248, train_loss: 0.9658, step time: 1.4024
Batch 213/248, train_loss: 0.8865, step time: 1.3838
Batch 214/248, train_loss: 0.6710, step time: 1.3856
Batch 215/248, train_loss: 0.9414, step time: 1.3894
Batch 216/248, train_loss: 0.6493, step time: 1.3943
Batch 217/248, train_loss: 0.9699, step time: 1.3721
Batch 218/248, train_loss: 0.9989, step time: 1.3950
Batch 219/248, train_loss: 0.6745, step time: 1.3738
Batch 220/248, train_loss: 0.9205, step time: 1.3867
Batch 221/248, train_loss: 0.9198, step time: 1.3674
Batch 222/248, train_loss: 0.6688, step time: 1.3751
Batch 223/248, train_loss: 0.4134, step time: 1.3807
Batch 224/248, train_loss: 0.5522, step time: 1.3769
Batch 225/248, train_loss: 0.9943, step time: 1.3549
Batch 226/248, train_loss: 0.9655, step time: 1.3848
Batch 227/248, train_loss: 0.6872, step time: 1.3606
Batch 228/248, train_loss: 0.9101, step time: 1.3581
Batch 229/248, train_loss: 0.4472, step time: 1.3824
Batch 230/248, train_loss: 0.6919, step time: 1.3758
Batch 231/248, train_loss: 0.9980, step time: 1.3632
Batch 232/248, train_loss: 0.6524, step time: 1.3958
Batch 233/248, train_loss: 0.9998, step time: 1.3615
Batch 234/248, train_loss: 0.9899, step time: 1.3921
Batch 235/248, train_loss: 0.9905, step time: 1.3900
Batch 236/248, train_loss: 0.9987, step time: 1.3853
Batch 237/248, train_loss: 0.4849, step time: 1.3889
Batch 238/248, train_loss: 0.6058, step time: 1.3627
Batch 239/248, train_loss: 0.2348, step time: 1.3832
Batch 240/248, train_loss: 0.8904, step time: 1.3683
Batch 241/248, train_loss: 0.9997, step time: 1.3685
Batch 242/248, train_loss: 0.9635, step time: 1.3697
Batch 243/248, train_loss: 0.9978, step time: 1.3514
Batch 244/248, train_loss: 0.9895, step time: 1.3799
Batch 245/248, train_loss: 0.5754, step time: 1.3747
Batch 246/248, train_loss: 0.9890, step time: 1.3619
Batch 247/248, train_loss: 0.2851, step time: 1.3841
Batch 248/248, train_loss: 1.0000, step time: 1.3449
```




```
VAL
   Batch 1/31, val_loss: 0.9186
   Batch 2/31, val_loss: 0.9997
   Batch 3/31, val_loss: 0.9966
   Batch 4/31, val_loss: 0.9872
   Batch 5/31, val_loss: 0.9999
   Batch 6/31, val_loss: 0.7533
   Batch 7/31, val_loss: 0.9009
   Batch 8/31, val_loss: 0.9855
   Batch 9/31, val_loss: 0.7680
   Batch 10/31, val_loss: 0.9706
   Batch 11/31, val_loss: 0.9096
   Batch 12/31, val_loss: 0.9893
   Batch 13/31, val_loss: 0.9907
   Batch 14/31, val_loss: 0.9834
   Batch 15/31, val_loss: 0.9995
   Batch 16/31, val_loss: 0.9957
   Batch 17/31, val_loss: 0.9978
   Batch 18/31, val_loss: 0.9836
   Batch 19/31, val_loss: 0.8481
   Batch 20/31, val_loss: 0.9217
   Batch 21/31, val_loss: 0.9446
   Batch 22/31, val_loss: 0.9986
   Batch 23/31, val_loss: 0.9991
   Batch 24/31, val_loss: 0.7753
   Batch 25/31, val_loss: 0.8742
   Batch 26/31, val_loss: 0.9628
   Batch 27/31, val_loss: 0.9995
   Batch 28/31, val_loss: 0.8333
   Batch 29/31, val_loss: 0.9994
   Batch 30/31, val_loss: 0.9961
   Batch 31/31, val_loss: 0.9931
```

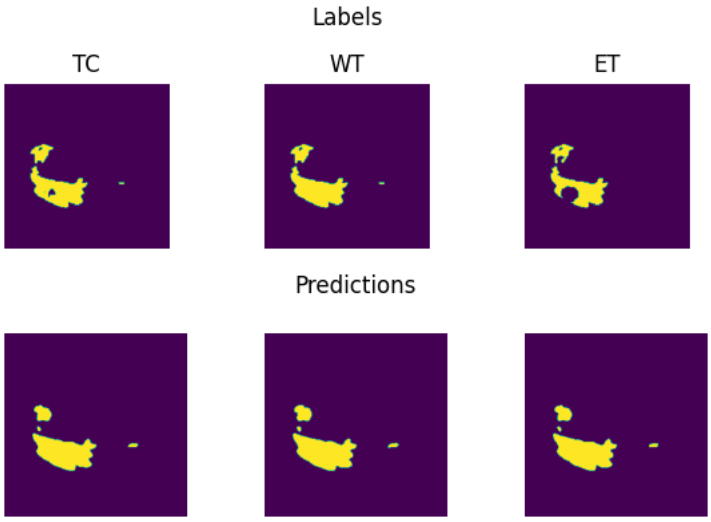



```
epoch 7
   average train loss: 0.8154
   average validation loss: 0.9444
   saved as best model: True
   current mean dice: 0.2845
   current TC dice: 0.2982
   current WT dice: 0.3011
```

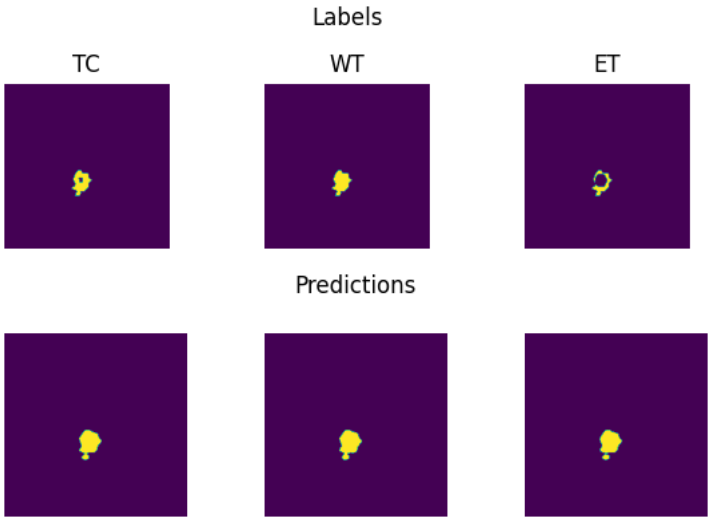
```
   current ET dice: 0.2813
Best Mean Metric: 0.2845
time consuming of epoch 7 is: 1719.5831
----------
epoch 8/100
TRAIN
   Batch 1/248, train_loss: 0.3732, step time: 1.4483
   Batch 2/248, train_loss: 0.9987, step time: 1.3727
   Batch 3/248, train_loss: 0.9739, step time: 1.3919
   Batch 4/248, train_loss: 0.9995, step time: 1.3486
   Batch 5/248, train_loss: 0.8716, step time: 1.3787
   Batch 6/248, train_loss: 0.9238, step time: 1.3793
   Batch 7/248, train_loss: 0.3039, step time: 1.3974
   Batch 8/248, train_loss: 0.8357, step time: 1.3643
   Batch 9/248, train_loss: 0.3737, step time: 1.3939
   Batch 10/248, train_loss: 0.9380, step time: 1.3647
   Batch 11/248, train_loss: 0.9377, step time: 1.3981
   Batch 12/248, train_loss: 0.9938, step time: 1.3825
   Batch 13/248, train_loss: 0.9720, step time: 1.3653
   Batch 14/248, train_loss: 0.2462, step time: 1.3701
   Batch 15/248, train_loss: 0.9516, step time: 1.3928
   Batch 16/248, train_loss: 0.8480, step time: 1.3991
   Batch 17/248, train_loss: 0.9976, step time: 1.3635
   Batch 18/248, train_loss: 0.9837, step time: 1.3623
   Batch 19/248, train_loss: 0.4445, step time: 1.3827
   Batch 20/248, train_loss: 0.8462, step time: 1.3716
   Batch 21/248, train_loss: 0.5956, step time: 1.3932
   Batch 22/248, train_loss: 0.9998, step time: 1.3479
   Batch 23/248, train_loss: 0.9995, step time: 1.3630
   Batch 24/248, train_loss: 0.6303, step time: 1.3993
   Batch 25/248, train_loss: 0.2957, step time: 1.3688
   Batch 26/248, train_loss: 0.9837, step time: 1.3682
   Batch 27/248, train_loss: 0.3763, step time: 1.3940
   Batch 28/248, train_loss: 0.8387, step time: 1.4005
   Batch 29/248, train_loss: 0.9934, step time: 1.3624
   Batch 30/248, train_loss: 0.9805, step time: 1.3929
   Batch 31/248, train_loss: 0.9446, step time: 1.3534
   Batch 32/248, train_loss: 0.6070, step time: 1.3626
   Batch 33/248, train_loss: 0.3936, step time: 1.3641
   Batch 34/248, train_loss: 0.4238, step time: 1.3736
   Batch 35/248, train_loss: 0.6175, step time: 1.3954
   Batch 36/248, train_loss: 0.9996, step time: 1.3403
   Batch 37/248, train_loss: 0.6959, step time: 1.3909
   Batch 38/248, train_loss: 0.9108, step time: 1.3913
   Batch 39/248, train_loss: 0.7527, step time: 1.3846
   Batch 40/248, train_loss: 0.9999, step time: 1.3722
   Batch 41/248, train_loss: 0.5754, step time: 1.3890
   Batch 42/248, train_loss: 0.5260, step time: 1.3967
   Batch 43/248, train_loss: 0.4031, step time: 1.3689
   Batch 44/248, train_loss: 0.6997, step time: 1.4001
   Batch 45/248, train_loss: 0.9522, step time: 1.3647
   Batch 46/248, train_loss: 0.7553, step time: 1.3829
   Batch 47/248, train_loss: 0.8104, step time: 1.3659
   Batch 48/248, train_loss: 0.7597, step time: 1.3851
   Batch 49/248, train_loss: 0.9879, step time: 1.3816
   Batch 50/248, train_loss: 0.8384, step time: 1.3589
   Batch 51/248, train_loss: 0.8092, step time: 1.3656
   Batch 52/248, train_loss: 0.7424, step time: 1.3828
   Batch 53/248, train_loss: 0.9290, step time: 1.4077
   Batch 54/248, train_loss: 0.7965, step time: 1.3863
   Batch 55/248, train_loss: 0.9283, step time: 1.3866
   Batch 56/248, train_loss: 0.8600, step time: 1.3935
   Batch 57/248, train_loss: 0.8479, step time: 1.3639
   Batch 58/248, train_loss: 0.5602, step time: 1.3684
   Batch 59/248, train_loss: 0.6236, step time: 1.3763
   Batch 60/248, train_loss: 0.5259, step time: 1.3804
   Batch 61/248, train_loss: 0.6137, step time: 1.3656
   Batch 62/248, train_loss: 0.9522, step time: 1.3831
   Batch 63/248, train_loss: 0.9933, step time: 1.3602
   Batch 64/248, train_loss: 0.9883, step time: 1.3868
   Batch 65/248, train_loss: 0.8800, step time: 1.3571
   Batch 66/248, train_loss: 0.8707, step time: 1.4041
   Batch 67/248, train_loss: 0.3580, step time: 1.3936
   Batch 68/248, train_loss: 0.4732, step time: 1.3751
   Batch 69/248, train_loss: 0.9990, step time: 1.3875
   Batch 70/248, train_loss: 0.5628, step time: 1.3630
   Batch 71/248, train_loss: 0.4609, step time: 1.4058
   Batch 72/248, train_loss: 0.4455, step time: 1.3905
   Batch 73/248, train_loss: 0.5565, step time: 1.3816
   Batch 74/248, train_loss: 0.9996, step time: 1.3526
   Batch 75/248, train_loss: 0.5254, step time: 1.3779
   Batch 76/248, train_loss: 0.9929, step time: 1.3686
   Batch 77/248, train_loss: 0.9993, step time: 1.3849
   Batch 78/248, train_loss: 0.6705, step time: 1.3681
   Batch 79/248, train_loss: 0.7983, step time: 1.3970
```

```
Batch 80/248, train_loss: 0.8606, step time: 1.3832
Batch 81/248, train_loss: 0.9041, step time: 1.4129
Batch 82/248, train_loss: 0.5077, step time: 1.3977
Batch 83/248, train_loss: 0.9922, step time: 1.3957
Batch 84/248, train_loss: 0.8236, step time: 1.4032
Batch 85/248, train_loss: 0.9946, step time: 1.3937
Batch 86/248, train_loss: 0.6798, step time: 1.3755
Batch 87/248, train_loss: 0.9829, step time: 1.3518
Batch 88/248, train_loss: 0.9741, step time: 1.3687
Batch 89/248, train_loss: 0.3588, step time: 1.4130
Batch 90/248, train_loss: 0.8749, step time: 1.3841
Batch 91/248, train_loss: 0.9917, step time: 1.3985
Batch 92/248, train_loss: 0.8648, step time: 1.3952
Batch 93/248, train_loss: 0.5100, step time: 1.3618
Batch 94/248, train_loss: 0.9917, step time: 1.3871
Batch 95/248, train_loss: 0.6578, step time: 1.3624
Batch 96/248, train_loss: 0.6532, step time: 1.3811
Batch 97/248, train_loss: 0.9999, step time: 1.3539
Batch 98/248, train_loss: 0.4428, step time: 1.3844
Batch 99/248, train_loss: 0.9759, step time: 1.3603
Batch 100/248, train_loss: 0.9950, step time: 1.3725
Batch 101/248, train_loss: 0.2432, step time: 1.3575
Batch 102/248, train_loss: 0.7543, step time: 1.3688
Batch 103/248, train_loss: 0.9873, step time: 1.3715
Batch 104/248, train_loss: 0.6865, step time: 1.3703
Batch 105/248, train_loss: 0.3892, step time: 1.3641
Batch 106/248, train_loss: 0.8498, step time: 1.3862
Batch 107/248, train_loss: 0.9706, step time: 1.3567
Batch 108/248, train_loss: 0.9863, step time: 1.3751
Batch 109/248, train_loss: 0.9982, step time: 1.3854
Batch 110/248, train_loss: 0.9865, step time: 1.3645
Batch 111/248, train_loss: 0.4168, step time: 1.3933
Batch 112/248, train_loss: 0.4925, step time: 1.3991
Batch 113/248, train_loss: 0.9996, step time: 1.3843
Batch 114/248, train_loss: 0.3817, step time: 1.4027
Batch 115/248, train_loss: 0.7178, step time: 1.3941
Batch 116/248, train_loss: 0.4171, step time: 1.3973
Batch 117/248, train_loss: 0.9969, step time: 1.3729
Batch 118/248, train_loss: 0.9875, step time: 1.3742
Batch 119/248, train_loss: 0.7816, step time: 1.3875
Batch 120/248, train_loss: 0.8373, step time: 1.3688
Batch 121/248, train_loss: 0.9535, step time: 1.3961
Batch 122/248, train_loss: 0.9632, step time: 1.3901
Batch 123/248, train_loss: 0.5057, step time: 1.4071
Batch 124/248, train_loss: 0.9676, step time: 1.4024
Batch 125/248, train_loss: 0.9976, step time: 1.3643
Batch 126/248, train_loss: 0.5421, step time: 1.3930
Batch 127/248, train_loss: 0.8024, step time: 1.3778
Batch 128/248, train_loss: 0.8956, step time: 1.3843
Batch 129/248, train_loss: 0.3210, step time: 1.3733
Batch 130/248, train_loss: 0.3592, step time: 1.3998
Batch 131/248, train_loss: 0.9616, step time: 1.3892
Batch 132/248, train_loss: 0.9603, step time: 1.3883
Batch 133/248, train_loss: 0.2620, step time: 1.3948
Batch 134/248, train_loss: 1.0000, step time: 1.3449
Batch 135/248, train_loss: 0.9813, step time: 1.3939
Batch 136/248, train_loss: 0.8356, step time: 1.4016
Batch 137/248, train_loss: 0.3510, step time: 1.3961
Batch 138/248, train_loss: 0.3788, step time: 1.3718
Batch 139/248, train_loss: 0.4848, step time: 1.3802
Batch 140/248, train_loss: 0.8658, step time: 1.3749
Batch 141/248, train_loss: 0.5802, step time: 1.4000
Batch 142/248, train_loss: 0.9970, step time: 1.3815
Batch 143/248, train_loss: 0.8620, step time: 1.3741
Batch 144/248, train_loss: 0.4160, step time: 1.3615
Batch 145/248, train_loss: 0.2581, step time: 1.3841
Batch 146/248, train_loss: 0.9987, step time: 1.3623
Batch 147/248, train_loss: 0.2055, step time: 1.3774
Batch 148/248, train_loss: 0.9830, step time: 1.3608
Batch 149/248, train_loss: 0.6896, step time: 1.3919
Batch 150/248, train_loss: 0.7627, step time: 1.3626
Batch 151/248, train_loss: 0.9700, step time: 1.3836
Batch 152/248, train_loss: 0.2099, step time: 1.3630
Batch 153/248, train_loss: 0.9522, step time: 1.3683
Batch 154/248, train_loss: 0.9892, step time: 1.3606
Batch 155/248, train_loss: 0.7068, step time: 1.3808
Batch 156/248, train_loss: 0.7539, step time: 1.3812
Batch 157/248, train_loss: 0.5784, step time: 1.3856
Batch 158/248, train_loss: 0.9990, step time: 1.3766
Batch 159/248, train_loss: 0.9968, step time: 1.3776
Batch 160/248, train_loss: 0.4775, step time: 1.3910
Batch 161/248, train_loss: 0.6590, step time: 1.3985
Batch 162/248, train_loss: 0.2137, step time: 1.3833
Batch 163/248, train_loss: 0.9701, step time: 1.3730
Batch 164/248, train_loss: 0.7018, step time: 1.3861
```

Batch 164/248, train_loss: 0.7618, step time: 1.3861
Batch 165/248, train_loss: 0.9987, step time: 1.3904
Batch 166/248, train_loss: 0.9028, step time: 1.3805
Batch 167/248, train_loss: 0.7205, step time: 1.3894
Batch 168/248, train_loss: 0.7019, step time: 1.3852
Batch 169/248, train_loss: 0.5060, step time: 1.3870
Batch 170/248, train_loss: 0.9886, step time: 1.3867
Batch 171/248, train_loss: 0.2765, step time: 1.3767
Batch 172/248, train_loss: 0.9994, step time: 1.3680
Batch 173/248, train_loss: 0.4030, step time: 1.3615
Batch 174/248, train_loss: 0.9994, step time: 1.3598
Batch 175/248, train_loss: 0.4353, step time: 1.3716
Batch 176/248, train_loss: 0.8310, step time: 1.3856
Batch 177/248, train_loss: 0.9924, step time: 1.3658
Batch 178/248, train_loss: 0.5107, step time: 1.4003
Batch 179/248, train_loss: 0.1927, step time: 1.3850
Batch 180/248, train_loss: 0.7780, step time: 1.3854
Batch 181/248, train_loss: 0.3625, step time: 1.4014
Batch 182/248, train_loss: 0.9625, step time: 1.3831
Batch 183/248, train_loss: 0.8108, step time: 1.3616
Batch 184/248, train_loss: 0.9557, step time: 1.3890
Batch 185/248, train_loss: 0.6777, step time: 1.3772
Batch 186/248, train_loss: 0.5105, step time: 1.3979
Batch 187/248, train_loss: 0.5780, step time: 1.3950
Batch 188/248, train_loss: 0.7101, step time: 1.3851
Batch 189/248, train_loss: 0.9995, step time: 1.3504
Batch 190/248, train_loss: 0.5477, step time: 1.3981
Batch 191/248, train_loss: 0.9984, step time: 1.3872
Batch 192/248, train_loss: 0.5998, step time: 1.3960
Batch 193/248, train_loss: 0.8329, step time: 1.3992
Batch 194/248, train_loss: 0.7599, step time: 1.3937
Batch 195/248, train_loss: 0.9992, step time: 1.3532
Batch 196/248, train_loss: 0.9999, step time: 1.3454
Batch 197/248, train_loss: 0.8678, step time: 1.3799
Batch 198/248, train_loss: 0.9999, step time: 1.3413
Batch 199/248, train_loss: 0.7214, step time: 1.3671
Batch 200/248, train_loss: 0.6572, step time: 1.4061
Batch 201/248, train_loss: 0.4798, step time: 1.3613
Batch 202/248, train_loss: 0.8329, step time: 1.3819
Batch 203/248, train_loss: 0.9879, step time: 1.3922
Batch 204/248, train_loss: 0.3009, step time: 1.3643
Batch 205/248, train_loss: 0.9142, step time: 1.3619
Batch 206/248, train_loss: 0.9938, step time: 1.3918
Batch 207/248, train_loss: 0.4482, step time: 1.3763
Batch 208/248, train_loss: 0.6972, step time: 1.3885
Batch 209/248, train_loss: 0.5685, step time: 1.3669
Batch 210/248, train_loss: 0.4111, step time: 1.3601
Batch 211/248, train_loss: 0.4283, step time: 1.4060
Batch 212/248, train_loss: 0.8692, step time: 1.3819
Batch 213/248, train_loss: 0.7989, step time: 1.3866
Batch 214/248, train_loss: 0.5213, step time: 1.3633
Batch 215/248, train_loss: 0.8826, step time: 1.3954
Batch 216/248, train_loss: 0.5065, step time: 1.3846
Batch 217/248, train_loss: 0.9437, step time: 1.3954
Batch 218/248, train_loss: 0.9985, step time: 1.3754
Batch 219/248, train_loss: 0.5122, step time: 1.3837
Batch 220/248, train_loss: 0.8475, step time: 1.3784
Batch 221/248, train_loss: 0.8611, step time: 1.4037
Batch 222/248, train_loss: 0.5153, step time: 1.4081
Batch 223/248, train_loss: 0.2720, step time: 1.3685
Batch 224/248, train_loss: 0.3881, step time: 1.3615
Batch 225/248, train_loss: 0.9865, step time: 1.3570
Batch 226/248, train_loss: 0.9268, step time: 1.3838
Batch 227/248, train_loss: 0.5310, step time: 1.3848
Batch 228/248, train_loss: 0.8362, step time: 1.3562
Batch 229/248, train_loss: 0.3043, step time: 1.3810
Batch 230/248, train_loss: 0.5485, step time: 1.3935
Batch 231/248, train_loss: 0.9990, step time: 1.3839
Batch 232/248, train_loss: 0.4877, step time: 1.4009
Batch 233/248, train_loss: 0.9998, step time: 1.3432
Batch 234/248, train_loss: 0.9861, step time: 1.3728
Batch 235/248, train_loss: 0.9792, step time: 1.3686
Batch 236/248, train_loss: 0.9984, step time: 1.3915
Batch 237/248, train_loss: 0.3655, step time: 1.3807
Batch 238/248, train_loss: 0.4500, step time: 1.4000
Batch 239/248, train_loss: 0.1699, step time: 1.4001
Batch 240/248, train_loss: 0.8129, step time: 1.3902
Batch 241/248, train_loss: 0.9994, step time: 1.3801
Batch 242/248, train_loss: 0.8977, step time: 1.3819
Batch 243/248, train_loss: 0.9955, step time: 1.3923
Batch 244/248, train_loss: 0.9713, step time: 1.3904
Batch 245/248, train_loss: 0.4005, step time: 1.3882
Batch 246/248, train_loss: 0.9872, step time: 1.3939
Batch 247/248, train_loss: 0.2001, step time: 1.3610
Batch 248/248, train_loss: 1.0000, step time: 1.3454




```
VAL
   Batch 1/31, val_loss: 0.8993
   Batch 2/31, val_loss: 0.9997
   Batch 3/31, val_loss: 0.9954
   Batch 4/31, val_loss: 0.9813
   Batch 5/31, val_loss: 1.0000
   Batch 6/31, val_loss: 0.7340
   Batch 7/31, val_loss: 0.9046
   Batch 8/31, val_loss: 0.9783
   Batch 9/31, val_loss: 0.7447
   Batch 10/31, val_loss: 0.9699
   Batch 11/31, val_loss: 0.8901
   Batch 12/31, val_loss: 0.9894
   Batch 13/31, val_loss: 0.9927
   Batch 14/31, val_loss: 0.9832
   Batch 15/31, val_loss: 0.9999
   Batch 16/31, val_loss: 0.9951
   Batch 17/31, val_loss: 0.9982
   Batch 18/31, val_loss: 0.9732
   Batch 19/31, val_loss: 0.8293
   Batch 20/31, val_loss: 0.9337
   Batch 21/31, val_loss: 0.9353
   Batch 22/31, val_loss: 0.9989
   Batch 23/31, val_loss: 0.9985
   Batch 24/31, val_loss: 0.7671
   Batch 25/31, val_loss: 0.8538
   Batch 26/31, val_loss: 0.9516
   Batch 27/31, val_loss: 0.9992
   Batch 28/31, val_loss: 0.8107
   Batch 29/31, val_loss: 0.9996
   Batch 30/31, val_loss: 0.9975
   Batch 31/31, val_loss: 0.9937
```

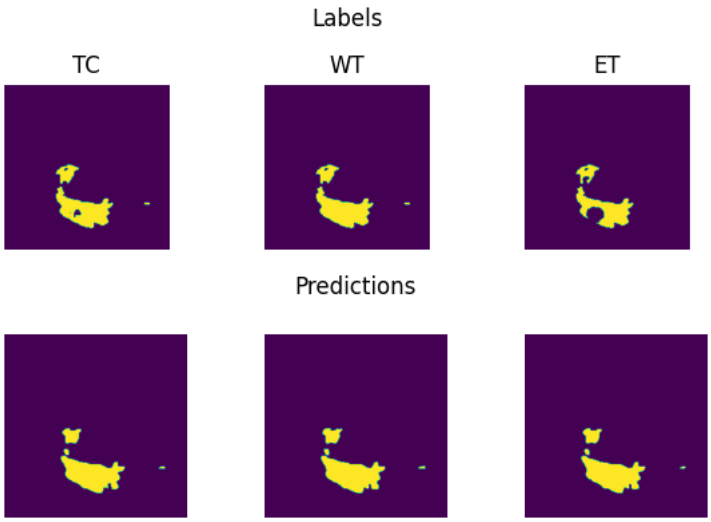



```
epoch 8
   average train loss: 0.7410
   average validation loss: 0.9386
   saved as best model: False
   current mean dice: 0.2735
   current TC dice: 0.2863
   current WT dice: 0.2903
```

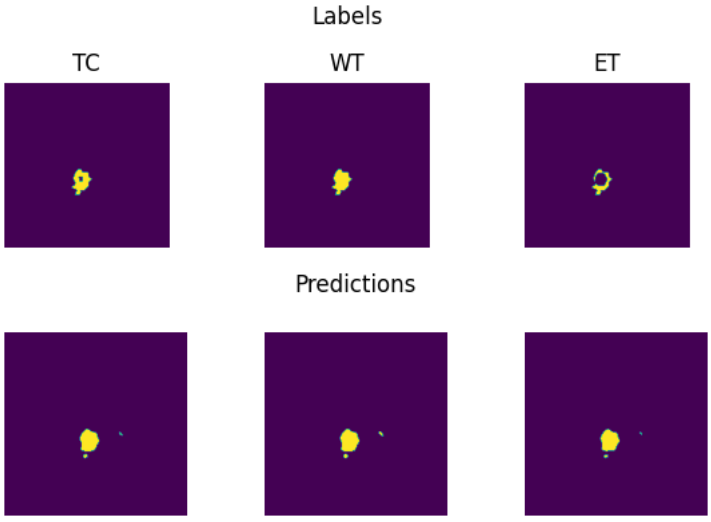
```
   current ET dice: 0.2700
Best Mean Metric: 0.2845
time consuming of epoch 8 is: 1721.9518
----------
epoch 9/100
TRAIN
   Batch 1/248, train_loss: 0.2550, step time: 1.4308
   Batch 2/248, train_loss: 0.9990, step time: 1.3961
   Batch 3/248, train_loss: 0.9596, step time: 1.3888
   Batch 4/248, train_loss: 0.9996, step time: 1.3724
   Batch 5/248, train_loss: 0.7945, step time: 1.3854
   Batch 6/248, train_loss: 0.8935, step time: 1.3920
   Batch 7/248, train_loss: 0.2260, step time: 1.3766
   Batch 8/248, train_loss: 0.7955, step time: 1.3693
   Batch 9/248, train_loss: 0.2379, step time: 1.3832
   Batch 10/248, train_loss: 0.8877, step time: 1.3956
   Batch 11/248, train_loss: 0.7859, step time: 1.3923
   Batch 12/248, train_loss: 0.9896, step time: 1.3843
   Batch 13/248, train_loss: 0.9572, step time: 1.3707
   Batch 14/248, train_loss: 0.1619, step time: 1.3656
   Batch 15/248, train_loss: 0.8807, step time: 1.3891
   Batch 16/248, train_loss: 0.7368, step time: 1.3766
   Batch 17/248, train_loss: 0.9925, step time: 1.3584
   Batch 18/248, train_loss: 0.9655, step time: 1.3855
   Batch 19/248, train_loss: 0.2962, step time: 1.3695
   Batch 20/248, train_loss: 0.7538, step time: 1.4029
   Batch 21/248, train_loss: 0.4121, step time: 1.3704
   Batch 22/248, train_loss: 0.9995, step time: 1.3680
   Batch 23/248, train_loss: 0.9990, step time: 1.3941
   Batch 24/248, train_loss: 0.7538, step time: 1.3781
   Batch 25/248, train_loss: 0.2236, step time: 1.4060
   Batch 26/248, train_loss: 0.9743, step time: 1.4021
   Batch 27/248, train_loss: 0.2665, step time: 1.3778
   Batch 28/248, train_loss: 0.7778, step time: 1.4022
   Batch 29/248, train_loss: 0.9961, step time: 1.3737
   Batch 30/248, train_loss: 0.9283, step time: 1.3834
   Batch 31/248, train_loss: 0.9642, step time: 1.3634
   Batch 32/248, train_loss: 0.4856, step time: 1.3579
   Batch 33/248, train_loss: 0.3183, step time: 1.3509
   Batch 34/248, train_loss: 0.3211, step time: 1.3716
   Batch 35/248, train_loss: 0.4655, step time: 1.3545
   Batch 36/248, train_loss: 0.9995, step time: 1.3404
   Batch 37/248, train_loss: 0.5945, step time: 1.3877
   Batch 38/248, train_loss: 0.9122, step time: 1.3617
   Batch 39/248, train_loss: 0.9603, step time: 1.3688
   Batch 40/248, train_loss: 0.9996, step time: 1.3555
   Batch 41/248, train_loss: 0.6192, step time: 1.3902
   Batch 42/248, train_loss: 0.3701, step time: 1.3802
   Batch 43/248, train_loss: 0.3008, step time: 1.3635
   Batch 44/248, train_loss: 0.6664, step time: 1.3480
   Batch 45/248, train_loss: 0.9303, step time: 1.3559
   Batch 46/248, train_loss: 0.6489, step time: 1.3878
   Batch 47/248, train_loss: 0.7401, step time: 1.3786
   Batch 48/248, train_loss: 0.7535, step time: 1.3433
   Batch 49/248, train_loss: 0.9850, step time: 1.3671
   Batch 50/248, train_loss: 0.7476, step time: 1.3386
   Batch 51/248, train_loss: 0.7916, step time: 1.3556
   Batch 52/248, train_loss: 0.6204, step time: 1.3750
   Batch 53/248, train_loss: 0.9315, step time: 1.3660
   Batch 54/248, train_loss: 0.6998, step time: 1.3461
   Batch 55/248, train_loss: 0.9151, step time: 1.3507
   Batch 56/248, train_loss: 0.7469, step time: 1.3480
   Batch 57/248, train_loss: 0.7673, step time: 1.3648
   Batch 58/248, train_loss: 0.4281, step time: 1.3561
   Batch 59/248, train_loss: 0.4962, step time: 1.3581
   Batch 60/248, train_loss: 0.4872, step time: 1.3680
   Batch 61/248, train_loss: 0.4803, step time: 1.3706
   Batch 62/248, train_loss: 0.8914, step time: 1.3562
   Batch 63/248, train_loss: 0.9970, step time: 1.3637
   Batch 64/248, train_loss: 0.9823, step time: 1.3356
   Batch 65/248, train_loss: 0.7946, step time: 1.3575
   Batch 66/248, train_loss: 0.7814, step time: 1.3596
   Batch 67/248, train_loss: 0.2731, step time: 1.3753
   Batch 68/248, train_loss: 0.3628, step time: 1.3509
   Batch 69/248, train_loss: 0.9971, step time: 1.3692
   Batch 70/248, train_loss: 0.4536, step time: 1.3827
   Batch 71/248, train_loss: 0.3495, step time: 1.3744
   Batch 72/248, train_loss: 0.3148, step time: 1.3742
   Batch 73/248, train_loss: 0.4523, step time: 1.3734
   Batch 74/248, train_loss: 0.9997, step time: 1.3439
   Batch 75/248, train_loss: 0.4193, step time: 1.3655
   Batch 76/248, train_loss: 0.9904, step time: 1.3942
   Batch 77/248, train_loss: 0.9991, step time: 1.3528
   Batch 78/248, train_loss: 0.5615, step time: 1.3751
   Batch 79/248, train_loss: 0.7242, step time: 1.3907
```

Batch 79/248, train_loss: 0.7242, step time: 1.3967
Batch 80/248, train_loss: 0.7806, step time: 1.3847
Batch 81/248, train_loss: 0.8607, step time: 1.4110
Batch 82/248, train_loss: 0.3723, step time: 1.3722
Batch 83/248, train_loss: 0.9906, step time: 1.3858
Batch 84/248, train_loss: 0.7607, step time: 1.3916
Batch 85/248, train_loss: 0.9890, step time: 1.3672
Batch 86/248, train_loss: 0.5632, step time: 1.3769
Batch 87/248, train_loss: 0.9736, step time: 1.3749
Batch 88/248, train_loss: 0.9654, step time: 1.3603
Batch 89/248, train_loss: 0.3344, step time: 1.3987
Batch 90/248, train_loss: 0.7166, step time: 1.3773
Batch 91/248, train_loss: 0.9827, step time: 1.3637
Batch 92/248, train_loss: 0.8156, step time: 1.4006
Batch 93/248, train_loss: 0.3815, step time: 1.3994
Batch 94/248, train_loss: 0.9851, step time: 1.3516
Batch 95/248, train_loss: 0.5248, step time: 1.3750
Batch 96/248, train_loss: 0.5145, step time: 1.3691
Batch 97/248, train_loss: 0.9999, step time: 1.3624
Batch 98/248, train_loss: 0.3252, step time: 1.3901
Batch 99/248, train_loss: 0.9446, step time: 1.3612
Batch 100/248, train_loss: 0.9970, step time: 1.3688
Batch 101/248, train_loss: 0.1735, step time: 1.3584
Batch 102/248, train_loss: 0.6057, step time: 1.3564
Batch 103/248, train_loss: 0.9809, step time: 1.3599
Batch 104/248, train_loss: 0.5866, step time: 1.3994
Batch 105/248, train_loss: 0.2702, step time: 1.3761
Batch 106/248, train_loss: 0.7559, step time: 1.3749
Batch 107/248, train_loss: 0.9550, step time: 1.3939
Batch 108/248, train_loss: 0.9763, step time: 1.3671
Batch 109/248, train_loss: 0.9953, step time: 1.3936
Batch 110/248, train_loss: 0.9723, step time: 1.4000
Batch 111/248, train_loss: 0.2968, step time: 1.3890
Batch 112/248, train_loss: 0.3257, step time: 1.3618
Batch 113/248, train_loss: 0.9995, step time: 1.3511
Batch 114/248, train_loss: 0.3231, step time: 1.3679
Batch 115/248, train_loss: 0.5698, step time: 1.3905
Batch 116/248, train_loss: 0.2719, step time: 1.3709
Batch 117/248, train_loss: 0.9919, step time: 1.3860
Batch 118/248, train_loss: 0.9848, step time: 1.3667
Batch 119/248, train_loss: 0.7119, step time: 1.3636
Batch 120/248, train_loss: 0.6239, step time: 1.3967
Batch 121/248, train_loss: 0.8771, step time: 1.4057
Batch 122/248, train_loss: 0.9394, step time: 1.3780
Batch 123/248, train_loss: 0.3481, step time: 1.3911
Batch 124/248, train_loss: 0.9535, step time: 1.3775
Batch 125/248, train_loss: 0.9974, step time: 1.3897
Batch 126/248, train_loss: 0.4891, step time: 1.3868
Batch 127/248, train_loss: 0.5875, step time: 1.3751
Batch 128/248, train_loss: 0.8406, step time: 1.3792
Batch 129/248, train_loss: 0.2566, step time: 1.3710
Batch 130/248, train_loss: 0.3114, step time: 1.3785
Batch 131/248, train_loss: 0.9456, step time: 1.3596
Batch 132/248, train_loss: 0.9089, step time: 1.3756
Batch 133/248, train_loss: 0.2783, step time: 1.3914
Batch 134/248, train_loss: 0.9999, step time: 1.3465
Batch 135/248, train_loss: 0.9620, step time: 1.3683
Batch 136/248, train_loss: 0.7255, step time: 1.3750
Batch 137/248, train_loss: 0.2617, step time: 1.3922
Batch 138/248, train_loss: 0.2684, step time: 1.4057
Batch 139/248, train_loss: 0.4883, step time: 1.3875
Batch 140/248, train_loss: 0.7482, step time: 1.3901
Batch 141/248, train_loss: 0.4598, step time: 1.3822
Batch 142/248, train_loss: 0.9892, step time: 1.3691
Batch 143/248, train_loss: 0.7602, step time: 1.4114
Batch 144/248, train_loss: 0.3019, step time: 1.4029
Batch 145/248, train_loss: 0.1942, step time: 1.3934
Batch 146/248, train_loss: 0.9980, step time: 1.3748
Batch 147/248, train_loss: 0.1601, step time: 1.3654
Batch 148/248, train_loss: 0.9826, step time: 1.3926
Batch 149/248, train_loss: 0.5608, step time: 1.4034
Batch 150/248, train_loss: 0.7500, step time: 1.3741
Batch 151/248, train_loss: 0.9391, step time: 1.3657
Batch 152/248, train_loss: 0.1371, step time: 1.3600
Batch 153/248, train_loss: 0.8910, step time: 1.4024
Batch 154/248, train_loss: 0.9786, step time: 1.3856
Batch 155/248, train_loss: 0.5518, step time: 1.3731
Batch 156/248, train_loss: 0.6142, step time: 1.4014
Batch 157/248, train_loss: 0.4860, step time: 1.3993
Batch 158/248, train_loss: 0.9991, step time: 1.3747
Batch 159/248, train_loss: 0.9937, step time: 1.3752
Batch 160/248, train_loss: 0.3611, step time: 1.3788
Batch 161/248, train_loss: 0.5177, step time: 1.3813
Batch 162/248, train_loss: 0.2390, step time: 1.3712
Batch 163/248, train_loss: 0.9345, step time: 1.3562

```
Batch 164/248, train_loss: 0.5742, step time: 1.4028
Batch 165/248, train_loss: 0.9968, step time: 1.3777
Batch 166/248, train_loss: 0.9055, step time: 1.3984
Batch 167/248, train_loss: 0.6940, step time: 1.3767
Batch 168/248, train_loss: 0.5955, step time: 1.3969
Batch 169/248, train_loss: 0.3817, step time: 1.3800
Batch 170/248, train_loss: 0.9828, step time: 1.3694
Batch 171/248, train_loss: 0.1979, step time: 1.3809
Batch 172/248, train_loss: 0.9960, step time: 1.3720
Batch 173/248, train_loss: 0.3804, step time: 1.3870
Batch 174/248, train_loss: 0.9716, step time: 1.3764
Batch 175/248, train_loss: 0.3635, step time: 1.3812
Batch 176/248, train_loss: 0.7405, step time: 1.3987
Batch 177/248, train_loss: 0.9861, step time: 1.3663
Batch 178/248, train_loss: 0.4045, step time: 1.3827
Batch 179/248, train_loss: 0.1590, step time: 1.3926
Batch 180/248, train_loss: 0.6380, step time: 1.3959
Batch 181/248, train_loss: 0.2742, step time: 1.3862
Batch 182/248, train_loss: 0.9502, step time: 1.3714
Batch 183/248, train_loss: 0.5990, step time: 1.4029
Batch 184/248, train_loss: 0.8914, step time: 1.4003
Batch 185/248, train_loss: 0.5466, step time: 1.4028
Batch 186/248, train_loss: 0.3711, step time: 1.3889
Batch 187/248, train_loss: 0.5207, step time: 1.4132
Batch 188/248, train_loss: 0.5930, step time: 1.3870
Batch 189/248, train_loss: 0.9990, step time: 1.3537
Batch 190/248, train_loss: 0.4241, step time: 1.3850
Batch 191/248, train_loss: 0.9969, step time: 1.3576
Batch 192/248, train_loss: 0.4964, step time: 1.3803
Batch 193/248, train_loss: 0.7960, step time: 1.3755
Batch 194/248, train_loss: 0.6320, step time: 1.3938
Batch 195/248, train_loss: 0.9977, step time: 1.3834
Batch 196/248, train_loss: 0.9998, step time: 1.3662
Batch 197/248, train_loss: 0.7806, step time: 1.3972
Batch 198/248, train_loss: 0.9999, step time: 1.3615
Batch 199/248, train_loss: 0.6182, step time: 1.3747
Batch 200/248, train_loss: 0.5371, step time: 1.3826
Batch 201/248, train_loss: 0.3682, step time: 1.3660
Batch 202/248, train_loss: 0.7628, step time: 1.3661
Batch 203/248, train_loss: 0.9802, step time: 1.3790
Batch 204/248, train_loss: 0.2483, step time: 1.4055
Batch 205/248, train_loss: 0.8695, step time: 1.3682
Batch 206/248, train_loss: 0.9878, step time: 1.3746
Batch 207/248, train_loss: 0.3162, step time: 1.3625
Batch 208/248, train_loss: 0.5216, step time: 1.3642
Batch 209/248, train_loss: 0.4459, step time: 1.3876
Batch 210/248, train_loss: 0.2875, step time: 1.3858
Batch 211/248, train_loss: 0.2874, step time: 1.3688
Batch 212/248, train_loss: 0.9797, step time: 1.3872
Batch 213/248, train_loss: 0.6882, step time: 1.3811
Batch 214/248, train_loss: 0.3752, step time: 1.3605
Batch 215/248, train_loss: 0.8084, step time: 1.3752
Batch 216/248, train_loss: 0.4200, step time: 1.3846
Batch 217/248, train_loss: 0.8761, step time: 1.4040
Batch 218/248, train_loss: 0.9981, step time: 1.3714
Batch 219/248, train_loss: 0.3720, step time: 1.4004
Batch 220/248, train_loss: 0.7603, step time: 1.3869
Batch 221/248, train_loss: 0.7795, step time: 1.3654
Batch 222/248, train_loss: 0.4131, step time: 1.3927
Batch 223/248, train_loss: 0.1818, step time: 1.3704
Batch 224/248, train_loss: 0.2807, step time: 1.3615
Batch 225/248, train_loss: 0.9969, step time: 1.3906
Batch 226/248, train_loss: 0.9109, step time: 1.3664
Batch 227/248, train_loss: 0.4143, step time: 1.3623
Batch 228/248, train_loss: 0.7502, step time: 1.3523
Batch 229/248, train_loss: 0.4862, step time: 1.3784
Batch 230/248, train_loss: 0.3927, step time: 1.3660
Batch 231/248, train_loss: 0.9953, step time: 1.3566
Batch 232/248, train_loss: 0.3535, step time: 1.3633
Batch 233/248, train_loss: 0.9999, step time: 1.3481
Batch 234/248, train_loss: 0.9882, step time: 1.3761
Batch 235/248, train_loss: 0.9863, step time: 1.4011
Batch 236/248, train_loss: 0.9984, step time: 1.3726
Batch 237/248, train_loss: 0.2952, step time: 1.3953
Batch 238/248, train_loss: 0.3403, step time: 1.3878
Batch 239/248, train_loss: 0.1192, step time: 1.3750
Batch 240/248, train_loss: 0.8589, step time: 1.3624
Batch 241/248, train_loss: 0.9993, step time: 1.3678
Batch 242/248, train_loss: 0.9643, step time: 1.3578
Batch 243/248, train_loss: 0.9986, step time: 1.3657
Batch 244/248, train_loss: 0.9888, step time: 1.3684
Batch 245/248, train_loss: 0.4555, step time: 1.3704
Batch 246/248, train_loss: 0.9885, step time: 1.3876
Batch 247/248, train_loss: 0.1580, step time: 1.3897
Batch 248/248, train_loss: 1.0000, step time: 1.3348
```




```
VAL
   Batch 1/31, val_loss: 0.9058
   Batch 2/31, val_loss: 0.9997
   Batch 3/31, val_loss: 0.9990
   Batch 4/31, val_loss: 0.9704
   Batch 5/31, val_loss: 1.0000
   Batch 6/31, val_loss: 0.7323
   Batch 7/31, val_loss: 0.8932
   Batch 8/31, val_loss: 0.9840
   Batch 9/31, val_loss: 0.7410
   Batch 10/31, val_loss: 0.9724
   Batch 11/31, val_loss: 0.8771
   Batch 12/31, val_loss: 0.9891
   Batch 13/31, val_loss: 0.9880
   Batch 14/31, val_loss: 0.9858
   Batch 15/31, val_loss: 0.9999
   Batch 16/31, val_loss: 0.9949
   Batch 17/31, val_loss: 0.9982
   Batch 18/31, val_loss: 0.9834
   Batch 19/31, val_loss: 0.8096
   Batch 20/31, val_loss: 0.9430
   Batch 21/31, val_loss: 0.9502
   Batch 22/31, val_loss: 0.9985
   Batch 23/31, val_loss: 0.9987
   Batch 24/31, val_loss: 0.7769
   Batch 25/31, val_loss: 0.8363
   Batch 26/31, val_loss: 0.9481
   Batch 27/31, val_loss: 0.9992
   Batch 28/31, val_loss: 0.7962
   Batch 29/31, val_loss: 0.9996
   Batch 30/31, val_loss: 0.9970
   Batch 31/31, val_loss: 0.9946
```



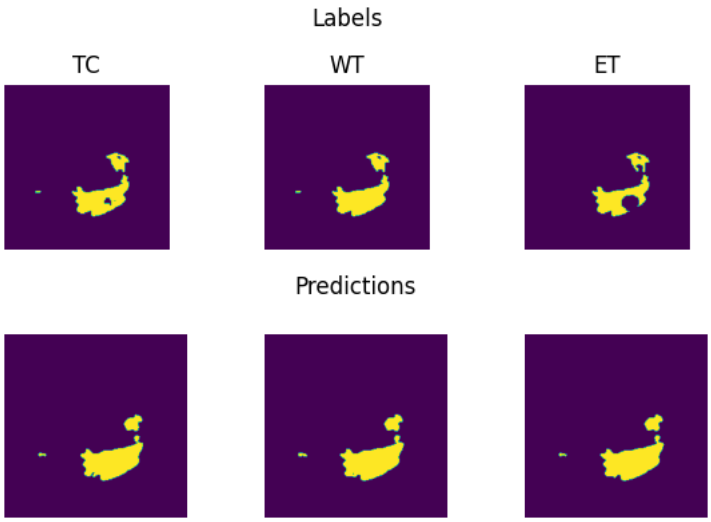

```
epoch 9
   average train loss: 0.6813
   average validation loss: 0.9375
   saved as best model: False
   current mean dice: 0.2545
   current TC dice: 0.2682
```

```
   current WT dice: 0.2723
   current ET dice: 0.2469
Best Mean Metric: 0.2845
time consuming of epoch 9 is: 1740.1126
----------
epoch 10/100
TRAIN
   Batch 1/248, train_loss: 0.1783, step time: 1.4653
   Batch 2/248, train_loss: 0.9985, step time: 1.3481
   Batch 3/248, train_loss: 0.9758, step time: 1.3856
   Batch 4/248, train_loss: 0.9995, step time: 1.3351
   Batch 5/248, train_loss: 0.7733, step time: 1.3993
   Batch 6/248, train_loss: 0.8867, step time: 1.3605
   Batch 7/248, train_loss: 0.2182, step time: 1.3747
   Batch 8/248, train_loss: 0.7633, step time: 1.3828
   Batch 9/248, train_loss: 0.1784, step time: 1.3678
   Batch 10/248, train_loss: 0.8517, step time: 1.3894
   Batch 11/248, train_loss: 0.8340, step time: 1.4048
   Batch 12/248, train_loss: 0.9947, step time: 1.3851
   Batch 13/248, train_loss: 0.9520, step time: 1.3818
   Batch 14/248, train_loss: 0.1621, step time: 1.3741
   Batch 15/248, train_loss: 0.8169, step time: 1.3578
   Batch 16/248, train_loss: 0.6181, step time: 1.3838
   Batch 17/248, train_loss: 0.9950, step time: 1.3831
   Batch 18/248, train_loss: 0.9505, step time: 1.3620
   Batch 19/248, train_loss: 0.2447, step time: 1.3576
   Batch 20/248, train_loss: 0.6529, step time: 1.3779
   Batch 21/248, train_loss: 0.3038, step time: 1.3888
   Batch 22/248, train_loss: 0.9996, step time: 1.3588
   Batch 23/248, train_loss: 0.9996, step time: 1.3609
   Batch 24/248, train_loss: 0.3451, step time: 1.3850
   Batch 25/248, train_loss: 0.2158, step time: 1.3783
   Batch 26/248, train_loss: 0.9491, step time: 1.3771
   Batch 27/248, train_loss: 0.1777, step time: 1.3608
   Batch 28/248, train_loss: 0.5786, step time: 1.4126
   Batch 29/248, train_loss: 0.9749, step time: 1.3713
   Batch 30/248, train_loss: 0.6335, step time: 1.3747
   Batch 31/248, train_loss: 0.8652, step time: 1.3592
   Batch 32/248, train_loss: 0.3214, step time: 1.3664
   Batch 33/248, train_loss: 0.2240, step time: 1.3713
   Batch 34/248, train_loss: 0.2009, step time: 1.3872
   Batch 35/248, train_loss: 0.3371, step time: 1.3746
   Batch 36/248, train_loss: 0.9994, step time: 1.3646
   Batch 37/248, train_loss: 0.4507, step time: 1.3982
   Batch 38/248, train_loss: 0.7465, step time: 1.3748
   Batch 39/248, train_loss: 0.5292, step time: 1.3999
   Batch 40/248, train_loss: 0.9998, step time: 1.3800
   Batch 41/248, train_loss: 0.3866, step time: 1.3942
   Batch 42/248, train_loss: 0.2700, step time: 1.3722
   Batch 43/248, train_loss: 0.1958, step time: 1.3966
   Batch 44/248, train_loss: 0.6262, step time: 1.3717
   Batch 45/248, train_loss: 0.8793, step time: 1.3663
   Batch 46/248, train_loss: 0.5349, step time: 1.3906
   Batch 47/248, train_loss: 0.5444, step time: 1.3896
   Batch 48/248, train_loss: 0.6637, step time: 1.3892
   Batch 49/248, train_loss: 0.9725, step time: 1.3889
   Batch 50/248, train_loss: 0.6017, step time: 1.3672
   Batch 51/248, train_loss: 0.6383, step time: 1.3769
   Batch 52/248, train_loss: 0.5356, step time: 1.3810
   Batch 53/248, train_loss: 0.8387, step time: 1.4068
   Batch 54/248, train_loss: 0.5543, step time: 1.4083
   Batch 55/248, train_loss: 0.7889, step time: 1.3934
   Batch 56/248, train_loss: 0.6644, step time: 1.3869
   Batch 57/248, train_loss: 0.6957, step time: 1.3970
   Batch 58/248, train_loss: 0.2927, step time: 1.3570
   Batch 59/248, train_loss: 0.3465, step time: 1.3628
   Batch 60/248, train_loss: 0.2662, step time: 1.3655
   Batch 61/248, train_loss: 0.3428, step time: 1.3783
   Batch 62/248, train_loss: 0.8048, step time: 1.3635
   Batch 63/248, train_loss: 0.9848, step time: 1.3703
   Batch 64/248, train_loss: 0.9635, step time: 1.3770
   Batch 65/248, train_loss: 0.7097, step time: 1.3970
   Batch 66/248, train_loss: 0.6563, step time: 1.4001
   Batch 67/248, train_loss: 0.7174, step time: 1.4078
   Batch 68/248, train_loss: 0.5518, step time: 1.4033
   Batch 69/248, train_loss: 0.9991, step time: 1.3718
   Batch 70/248, train_loss: 0.3656, step time: 1.3997
   Batch 71/248, train_loss: 0.2781, step time: 1.3833
   Batch 72/248, train_loss: 0.2253, step time: 1.3644
   Batch 73/248, train_loss: 0.4006, step time: 1.3609
   Batch 74/248, train_loss: 0.9998, step time: 1.3703
   Batch 75/248, train_loss: 0.3927, step time: 1.3959
   Batch 76/248, train_loss: 0.9890, step time: 1.3592
   Batch 77/248, train_loss: 0.9994, step time: 1.3607
   Batch 78/248, train_loss: 0.4393, step time: 1.3679
```

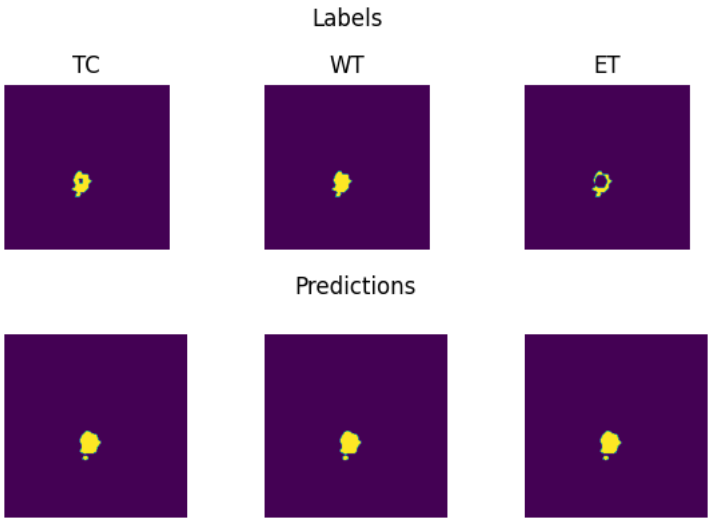
```
Batch 79/248, train_loss: 0.7443, step time: 1.3894
Batch 80/248, train_loss: 0.8390, step time: 1.3852
Batch 81/248, train_loss: 0.8807, step time: 1.3771
Batch 82/248, train_loss: 0.3801, step time: 1.3790
Batch 83/248, train_loss: 0.9953, step time: 1.3694
Batch 84/248, train_loss: 0.6982, step time: 1.3731
Batch 85/248, train_loss: 0.9967, step time: 1.3489
Batch 86/248, train_loss: 0.6352, step time: 1.3948
Batch 87/248, train_loss: 0.9875, step time: 1.3800
Batch 88/248, train_loss: 0.9620, step time: 1.3669
Batch 89/248, train_loss: 0.2431, step time: 1.3859
Batch 90/248, train_loss: 0.8081, step time: 1.4091
Batch 91/248, train_loss: 0.9832, step time: 1.3823
Batch 92/248, train_loss: 0.7848, step time: 1.4027
Batch 93/248, train_loss: 0.3132, step time: 1.3726
Batch 94/248, train_loss: 0.9776, step time: 1.3646
Batch 95/248, train_loss: 0.4541, step time: 1.3821
Batch 96/248, train_loss: 0.4331, step time: 1.3676
Batch 97/248, train_loss: 0.9998, step time: 1.3386
Batch 98/248, train_loss: 0.2917, step time: 1.3887
Batch 99/248, train_loss: 0.9441, step time: 1.3888
Batch 100/248, train_loss: 0.9983, step time: 1.3462
Batch 101/248, train_loss: 0.1508, step time: 1.3886
Batch 102/248, train_loss: 0.5429, step time: 1.3674
Batch 103/248, train_loss: 0.9741, step time: 1.3596
Batch 104/248, train_loss: 0.5191, step time: 1.3538
Batch 105/248, train_loss: 0.2294, step time: 1.3674
Batch 106/248, train_loss: 0.6524, step time: 1.3695
Batch 107/248, train_loss: 0.9444, step time: 1.3738
Batch 108/248, train_loss: 0.9554, step time: 1.4037
Batch 109/248, train_loss: 0.9962, step time: 1.3809
Batch 110/248, train_loss: 0.9252, step time: 1.3974
Batch 111/248, train_loss: 0.2595, step time: 1.3684
Batch 112/248, train_loss: 0.2888, step time: 1.3636
Batch 113/248, train_loss: 0.9995, step time: 1.3712
Batch 114/248, train_loss: 0.2881, step time: 1.3924
Batch 115/248, train_loss: 0.5070, step time: 1.3798
Batch 116/248, train_loss: 0.2238, step time: 1.3775
Batch 117/248, train_loss: 0.9912, step time: 1.3750
Batch 118/248, train_loss: 0.9634, step time: 1.3911
Batch 119/248, train_loss: 0.6550, step time: 1.3933
Batch 120/248, train_loss: 0.5616, step time: 1.3632
Batch 121/248, train_loss: 0.8584, step time: 1.3681
Batch 122/248, train_loss: 0.9163, step time: 1.3942
Batch 123/248, train_loss: 0.2865, step time: 1.3971
Batch 124/248, train_loss: 0.9056, step time: 1.3981
Batch 125/248, train_loss: 0.9985, step time: 1.3829
Batch 126/248, train_loss: 0.4866, step time: 1.4062
Batch 127/248, train_loss: 0.4894, step time: 1.3945
Batch 128/248, train_loss: 0.7818, step time: 1.4037
Batch 129/248, train_loss: 0.2675, step time: 1.3883
Batch 130/248, train_loss: 0.2529, step time: 1.3741
Batch 131/248, train_loss: 0.9222, step time: 1.3815
Batch 132/248, train_loss: 0.8672, step time: 1.3710
Batch 133/248, train_loss: 0.2050, step time: 1.3815
Batch 134/248, train_loss: 1.0000, step time: 1.3442
Batch 135/248, train_loss: 0.9429, step time: 1.3966
Batch 136/248, train_loss: 0.6462, step time: 1.3609
Batch 137/248, train_loss: 0.2248, step time: 1.3888
Batch 138/248, train_loss: 0.2078, step time: 1.3719
Batch 139/248, train_loss: 0.4036, step time: 1.3736
Batch 140/248, train_loss: 0.6813, step time: 1.3800
Batch 141/248, train_loss: 0.3882, step time: 1.3844
Batch 142/248, train_loss: 0.9944, step time: 1.3643
Batch 143/248, train_loss: 0.7089, step time: 1.3685
Batch 144/248, train_loss: 0.2430, step time: 1.3805
Batch 145/248, train_loss: 0.1447, step time: 1.3831
Batch 146/248, train_loss: 0.9982, step time: 1.3745
Batch 147/248, train_loss: 0.2027, step time: 1.3987
Batch 148/248, train_loss: 0.9839, step time: 1.3708
Batch 149/248, train_loss: 0.4666, step time: 1.3866
Batch 150/248, train_loss: 0.7407, step time: 1.3718
Batch 151/248, train_loss: 0.9234, step time: 1.3957
Batch 152/248, train_loss: 0.1082, step time: 1.3675
Batch 153/248, train_loss: 0.8332, step time: 1.3831
Batch 154/248, train_loss: 0.9759, step time: 1.3876
Batch 155/248, train_loss: 0.4406, step time: 1.3768
Batch 156/248, train_loss: 0.5824, step time: 1.4068
Batch 157/248, train_loss: 0.4646, step time: 1.3747
Batch 158/248, train_loss: 0.9988, step time: 1.3820
Batch 159/248, train_loss: 0.9958, step time: 1.3720
Batch 160/248, train_loss: 0.2603, step time: 1.3995
Batch 161/248, train_loss: 0.3718, step time: 1.3932
Batch 162/248, train_loss: 0.1958, step time: 1.3760
Batch 163/248, train_loss: 0.8909, step time: 1.4031
```

Batch 164/248, train_loss: 0.4417, step time: 1.4094
Batch 165/248, train_loss: 0.9982, step time: 1.3913
Batch 166/248, train_loss: 0.7361, step time: 1.3853
Batch 167/248, train_loss: 0.5009, step time: 1.4048
Batch 168/248, train_loss: 0.4921, step time: 1.3749
Batch 169/248, train_loss: 0.3077, step time: 1.3885
Batch 170/248, train_loss: 0.9692, step time: 1.3597
Batch 171/248, train_loss: 0.1772, step time: 1.3919
Batch 172/248, train_loss: 0.9957, step time: 1.3732
Batch 173/248, train_loss: 0.2107, step time: 1.3845
Batch 174/248, train_loss: 0.9931, step time: 1.3546
Batch 175/248, train_loss: 0.3160, step time: 1.3768
Batch 176/248, train_loss: 0.6641, step time: 1.3689
Batch 177/248, train_loss: 0.9820, step time: 1.3919
Batch 178/248, train_loss: 0.3956, step time: 1.4105
Batch 179/248, train_loss: 0.1315, step time: 1.3724
Batch 180/248, train_loss: 0.5787, step time: 1.3949
Batch 181/248, train_loss: 0.2202, step time: 1.3621
Batch 182/248, train_loss: 0.9505, step time: 1.4072
Batch 183/248, train_loss: 0.7569, step time: 1.3982
Batch 184/248, train_loss: 0.9254, step time: 1.3958
Batch 185/248, train_loss: 0.5083, step time: 1.3922
Batch 186/248, train_loss: 0.3904, step time: 1.3759
Batch 187/248, train_loss: 0.4055, step time: 1.3689
Batch 188/248, train_loss: 0.4995, step time: 1.3871
Batch 189/248, train_loss: 0.9988, step time: 1.3741
Batch 190/248, train_loss: 0.3460, step time: 1.3952
Batch 191/248, train_loss: 0.9950, step time: 1.3961
Batch 192/248, train_loss: 0.4264, step time: 1.3745
Batch 193/248, train_loss: 0.6435, step time: 1.3731
Batch 194/248, train_loss: 0.5048, step time: 1.3704
Batch 195/248, train_loss: 0.9992, step time: 1.3636
Batch 196/248, train_loss: 0.9998, step time: 1.3413
Batch 197/248, train_loss: 0.6617, step time: 1.4032
Batch 198/248, train_loss: 0.9999, step time: 1.3397
Batch 199/248, train_loss: 0.4892, step time: 1.3868
Batch 200/248, train_loss: 0.4266, step time: 1.3625
Batch 201/248, train_loss: 0.2937, step time: 1.3929
Batch 202/248, train_loss: 0.6851, step time: 1.3983
Batch 203/248, train_loss: 0.9708, step time: 1.3609
Batch 204/248, train_loss: 0.2828, step time: 1.3638
Batch 205/248, train_loss: 0.8176, step time: 1.4063
Batch 206/248, train_loss: 0.9820, step time: 1.3592
Batch 207/248, train_loss: 0.2675, step time: 1.3948
Batch 208/248, train_loss: 0.4968, step time: 1.3686
Batch 209/248, train_loss: 0.3312, step time: 1.3849
Batch 210/248, train_loss: 0.2160, step time: 1.4096
Batch 211/248, train_loss: 0.2127, step time: 1.3830
Batch 212/248, train_loss: 0.6528, step time: 1.3765
Batch 213/248, train_loss: 0.5801, step time: 1.3631
Batch 214/248, train_loss: 0.3013, step time: 1.3966
Batch 215/248, train_loss: 0.7041, step time: 1.3835
Batch 216/248, train_loss: 0.3569, step time: 1.3768
Batch 217/248, train_loss: 0.8322, step time: 1.4079
Batch 218/248, train_loss: 0.9976, step time: 1.3959
Batch 219/248, train_loss: 0.2716, step time: 1.3741
Batch 220/248, train_loss: 0.6913, step time: 1.4015
Batch 221/248, train_loss: 0.6772, step time: 1.3726
Batch 222/248, train_loss: 0.3170, step time: 1.3802
Batch 223/248, train_loss: 0.1436, step time: 1.3971
Batch 224/248, train_loss: 0.2142, step time: 1.3691
Batch 225/248, train_loss: 0.9673, step time: 1.3910
Batch 226/248, train_loss: 0.8886, step time: 1.3898
Batch 227/248, train_loss: 0.3365, step time: 1.3549
Batch 228/248, train_loss: 0.6288, step time: 1.3988
Batch 229/248, train_loss: 0.2737, step time: 1.3630
Batch 230/248, train_loss: 0.2803, step time: 1.3705
Batch 231/248, train_loss: 0.9980, step time: 1.4000
Batch 232/248, train_loss: 0.2518, step time: 1.3771
Batch 233/248, train_loss: 0.9995, step time: 1.3953
Batch 234/248, train_loss: 0.9759, step time: 1.3984
Batch 235/248, train_loss: 0.9636, step time: 1.3790
Batch 236/248, train_loss: 0.9971, step time: 1.3774
Batch 237/248, train_loss: 0.2511, step time: 1.3901
Batch 238/248, train_loss: 0.2551, step time: 1.4017
Batch 239/248, train_loss: 0.2339, step time: 1.4123
Batch 240/248, train_loss: 0.7031, step time: 1.3690
Batch 241/248, train_loss: 0.9984, step time: 1.3595
Batch 242/248, train_loss: 0.7684, step time: 1.3697
Batch 243/248, train_loss: 0.9955, step time: 1.3661
Batch 244/248, train_loss: 0.9252, step time: 1.3910
Batch 245/248, train_loss: 0.2213, step time: 1.3913
Batch 246/248, train_loss: 0.9719, step time: 1.3779
Batch 247/248, train_loss: 0.1306, step time: 1.3727
Batch 248/248, train_loss: 1.0000, step time: 1.3599

Batch 248/248, train_loss: 1.0000, step time: 1.5999



VAL
Batch 1/31, val_loss: 0.8891
Batch 2/31, val_loss: 0.9994
Batch 3/31, val_loss: 0.9886
Batch 4/31, val_loss: 0.9735
Batch 5/31, val_loss: 0.9996
Batch 6/31, val_loss: 0.7228
Batch 7/31, val_loss: 0.8705
Batch 8/31, val_loss: 0.9717
Batch 9/31, val_loss: 0.7223
Batch 10/31, val_loss: 0.9480
Batch 11/31, val_loss: 0.8633
Batch 12/31, val_loss: 0.9851
Batch 13/31, val_loss: 0.9892
Batch 14/31, val_loss: 0.9792
Batch 15/31, val_loss: 0.9990
Batch 16/31, val_loss: 0.9914
Batch 17/31, val_loss: 0.9926
Batch 18/31, val_loss: 0.9609
Batch 19/31, val_loss: 0.7973
Batch 20/31, val_loss: 0.8872
Batch 21/31, val_loss: 0.9091
Batch 22/31, val_loss: 0.9966
Batch 23/31, val_loss: 0.9982
Batch 24/31, val_loss: 0.7657
Batch 25/31, val_loss: 0.8300
Batch 26/31, val_loss: 0.9396
Batch 27/31, val_loss: 0.9961
Batch 28/31, val_loss: 0.7790
Batch 29/31, val_loss: 0.9986
Batch 30/31, val_loss: 0.9904
Batch 31/31, val_loss: 0.9833



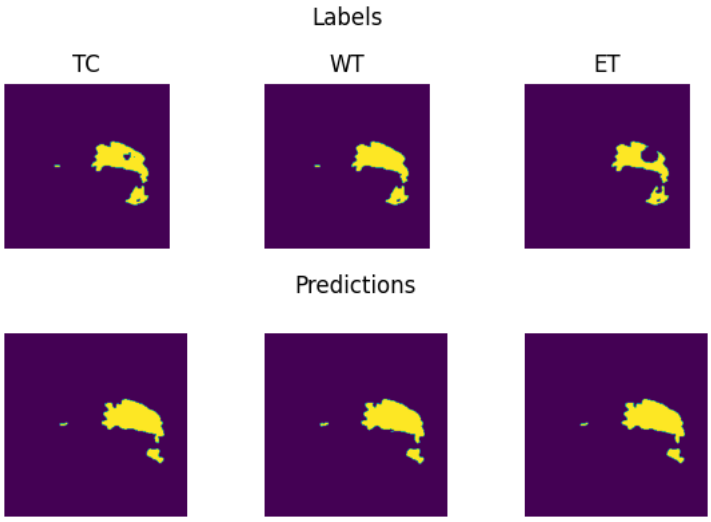
epoch 10
average train loss: 0.6274
average validation loss: 0.9264
saved as best model: True
current mean dice: 0.3411
current TC dice: 0.3550

```
   current WT dice: 0.3627
   current ET dice: 0.3380
Best Mean Metric: 0.3411
time consuming of epoch 10 is: 1690.6789
----------
epoch 11/100
TRAIN
   Batch 1/248, train_loss: 0.1413, step time: 1.4263
   Batch 2/248, train_loss: 0.9924, step time: 1.3821
   Batch 3/248, train_loss: 0.9155, step time: 1.3811
   Batch 4/248, train_loss: 0.9995, step time: 1.3865
   Batch 5/248, train_loss: 0.5864, step time: 1.3751
   Batch 6/248, train_loss: 0.8250, step time: 1.3942
   Batch 7/248, train_loss: 0.1444, step time: 1.3685
   Batch 8/248, train_loss: 0.7608, step time: 1.3994
   Batch 9/248, train_loss: 0.1120, step time: 1.3830
   Batch 10/248, train_loss: 0.7207, step time: 1.4083
   Batch 11/248, train_loss: 0.8692, step time: 1.3955
   Batch 12/248, train_loss: 0.9700, step time: 1.3754
   Batch 13/248, train_loss: 0.8714, step time: 1.4026
   Batch 14/248, train_loss: 0.1094, step time: 1.3766
   Batch 15/248, train_loss: 0.7269, step time: 1.3870
   Batch 16/248, train_loss: 0.4943, step time: 1.3623
   Batch 17/248, train_loss: 0.9861, step time: 1.3900
   Batch 18/248, train_loss: 0.9044, step time: 1.3693
   Batch 19/248, train_loss: 0.2671, step time: 1.3792
   Batch 20/248, train_loss: 0.5983, step time: 1.3815
   Batch 21/248, train_loss: 0.2083, step time: 1.3740
   Batch 22/248, train_loss: 0.9996, step time: 1.3500
   Batch 23/248, train_loss: 0.9988, step time: 1.3673
   Batch 24/248, train_loss: 0.2536, step time: 1.3879
   Batch 25/248, train_loss: 0.1580, step time: 1.3786
   Batch 26/248, train_loss: 0.9193, step time: 1.3974
   Batch 27/248, train_loss: 0.1445, step time: 1.4042
   Batch 28/248, train_loss: 0.4592, step time: 1.4103
   Batch 29/248, train_loss: 0.9654, step time: 1.4052
   Batch 30/248, train_loss: 0.5463, step time: 1.3898
   Batch 31/248, train_loss: 0.7857, step time: 1.3679
   Batch 32/248, train_loss: 0.2467, step time: 1.3942
   Batch 33/248, train_loss: 0.1526, step time: 1.3809
   Batch 34/248, train_loss: 0.1268, step time: 1.3839
   Batch 35/248, train_loss: 0.2178, step time: 1.3797
   Batch 36/248, train_loss: 0.9991, step time: 1.3566
   Batch 37/248, train_loss: 0.3871, step time: 1.3947
   Batch 38/248, train_loss: 0.6924, step time: 1.3632
   Batch 39/248, train_loss: 0.4670, step time: 1.3828
   Batch 40/248, train_loss: 0.9998, step time: 1.3798
   Batch 41/248, train_loss: 0.3016, step time: 1.3741
   Batch 42/248, train_loss: 0.2023, step time: 1.3833
   Batch 43/248, train_loss: 0.1469, step time: 1.3981
   Batch 44/248, train_loss: 0.4251, step time: 1.3584
   Batch 45/248, train_loss: 0.8860, step time: 1.4030
   Batch 46/248, train_loss: 0.4297, step time: 1.3943
   Batch 47/248, train_loss: 0.4131, step time: 1.3892
   Batch 48/248, train_loss: 0.4503, step time: 1.3818
   Batch 49/248, train_loss: 0.8939, step time: 1.3648
   Batch 50/248, train_loss: 0.4910, step time: 1.3853
   Batch 51/248, train_loss: 0.4540, step time: 1.3715
   Batch 52/248, train_loss: 0.3804, step time: 1.3927
   Batch 53/248, train_loss: 0.7599, step time: 1.3919
   Batch 54/248, train_loss: 0.4802, step time: 1.4085
   Batch 55/248, train_loss: 0.7229, step time: 1.3918
   Batch 56/248, train_loss: 0.5994, step time: 1.4132
   Batch 57/248, train_loss: 0.5382, step time: 1.3708
   Batch 58/248, train_loss: 0.2196, step time: 1.3849
   Batch 59/248, train_loss: 0.2510, step time: 1.3674
   Batch 60/248, train_loss: 0.1918, step time: 1.3688
   Batch 61/248, train_loss: 0.2628, step time: 1.3897
   Batch 62/248, train_loss: 0.7165, step time: 1.3742
   Batch 63/248, train_loss: 0.9886, step time: 1.3753
   Batch 64/248, train_loss: 0.9488, step time: 1.3771
   Batch 65/248, train_loss: 0.6262, step time: 1.3936
   Batch 66/248, train_loss: 0.6301, step time: 1.4036
   Batch 67/248, train_loss: 0.1883, step time: 1.3931
   Batch 68/248, train_loss: 0.2009, step time: 1.3726
   Batch 69/248, train_loss: 0.9957, step time: 1.3981
   Batch 70/248, train_loss: 0.2826, step time: 1.3830
   Batch 71/248, train_loss: 0.2543, step time: 1.4007
   Batch 72/248, train_loss: 0.1486, step time: 1.3621
   Batch 73/248, train_loss: 0.2977, step time: 1.3863
   Batch 74/248, train_loss: 0.9997, step time: 1.3593
   Batch 75/248, train_loss: 0.2652, step time: 1.3657
   Batch 76/248, train_loss: 0.9845, step time: 1.3721
   Batch 77/248, train_loss: 0.9994, step time: 1.3649
   Batch 78/248, train_loss: 0.3051, step time: 1.3779
```

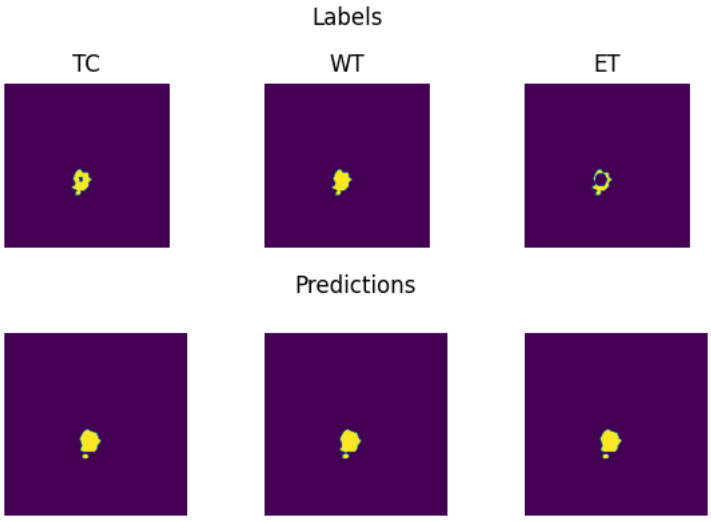
Batch 79/248, train_loss: 0.4557, step time: 1.3860
Batch 80/248, train_loss: 0.6405, step time: 1.3887
Batch 81/248, train_loss: 0.6571, step time: 1.3971
Batch 82/248, train_loss: 0.2272, step time: 1.4104
Batch 83/248, train_loss: 0.9675, step time: 1.3766
Batch 84/248, train_loss: 0.5830, step time: 1.3728
Batch 85/248, train_loss: 0.9621, step time: 1.3607
Batch 86/248, train_loss: 0.3627, step time: 1.3907
Batch 87/248, train_loss: 0.9596, step time: 1.3617
Batch 88/248, train_loss: 0.8749, step time: 1.3693
Batch 89/248, train_loss: 0.2286, step time: 1.3706
Batch 90/248, train_loss: 0.9278, step time: 1.3920
Batch 91/248, train_loss: 0.9363, step time: 1.4015
Batch 92/248, train_loss: 0.8645, step time: 1.4071
Batch 93/248, train_loss: 0.2877, step time: 1.3862
Batch 94/248, train_loss: 0.9550, step time: 1.4072
Batch 95/248, train_loss: 0.3201, step time: 1.3968
Batch 96/248, train_loss: 0.3632, step time: 1.3661
Batch 97/248, train_loss: 0.9997, step time: 1.3706
Batch 98/248, train_loss: 0.2278, step time: 1.3889
Batch 99/248, train_loss: 0.8782, step time: 1.3841
Batch 100/248, train_loss: 0.9732, step time: 1.3644
Batch 101/248, train_loss: 0.0912, step time: 1.3507
Batch 102/248, train_loss: 0.4105, step time: 1.3648
Batch 103/248, train_loss: 0.9744, step time: 1.3607
Batch 104/248, train_loss: 0.4256, step time: 1.3847
Batch 105/248, train_loss: 0.1557, step time: 1.3731
Batch 106/248, train_loss: 0.5465, step time: 1.3888
Batch 107/248, train_loss: 0.9320, step time: 1.3859
Batch 108/248, train_loss: 0.9633, step time: 1.3988
Batch 109/248, train_loss: 0.9932, step time: 1.3673
Batch 110/248, train_loss: 0.8913, step time: 1.4041
Batch 111/248, train_loss: 0.2090, step time: 1.3743
Batch 112/248, train_loss: 0.2106, step time: 1.3990
Batch 113/248, train_loss: 0.9994, step time: 1.3414
Batch 114/248, train_loss: 0.2269, step time: 1.3823
Batch 115/248, train_loss: 0.4560, step time: 1.3763
Batch 116/248, train_loss: 0.1608, step time: 1.3845
Batch 117/248, train_loss: 0.9794, step time: 1.3471
Batch 118/248, train_loss: 0.9576, step time: 1.3899
Batch 119/248, train_loss: 0.5876, step time: 1.3912
Batch 120/248, train_loss: 0.4315, step time: 1.3686
Batch 121/248, train_loss: 0.7407, step time: 1.4082
Batch 122/248, train_loss: 0.8543, step time: 1.3874
Batch 123/248, train_loss: 0.1668, step time: 1.3987
Batch 124/248, train_loss: 0.8458, step time: 1.3956
Batch 125/248, train_loss: 0.9929, step time: 1.3848
Batch 126/248, train_loss: 0.3838, step time: 1.4027
Batch 127/248, train_loss: 0.3509, step time: 1.3742
Batch 128/248, train_loss: 0.6448, step time: 1.3966
Batch 129/248, train_loss: 0.2589, step time: 1.3950
Batch 130/248, train_loss: 0.2994, step time: 1.3686
Batch 131/248, train_loss: 0.8794, step time: 1.3544
Batch 132/248, train_loss: 0.7859, step time: 1.3663
Batch 133/248, train_loss: 0.2638, step time: 1.4009
Batch 134/248, train_loss: 0.9999, step time: 1.3432
Batch 135/248, train_loss: 0.8687, step time: 1.3953
Batch 136/248, train_loss: 0.5053, step time: 1.3969
Batch 137/248, train_loss: 0.1713, step time: 1.3965
Batch 138/248, train_loss: 0.1501, step time: 1.3570
Batch 139/248, train_loss: 0.3662, step time: 1.4003
Batch 140/248, train_loss: 0.5379, step time: 1.3919
Batch 141/248, train_loss: 0.3463, step time: 1.4083
Batch 142/248, train_loss: 0.9925, step time: 1.3978
Batch 143/248, train_loss: 0.5834, step time: 1.3660
Batch 144/248, train_loss: 0.2047, step time: 1.3661
Batch 145/248, train_loss: 0.1117, step time: 1.3786
Batch 146/248, train_loss: 0.9976, step time: 1.3672
Batch 147/248, train_loss: 0.0905, step time: 1.3862
Batch 148/248, train_loss: 0.9765, step time: 1.3812
Batch 149/248, train_loss: 0.3438, step time: 1.4025
Batch 150/248, train_loss: 0.6959, step time: 1.3896
Batch 151/248, train_loss: 0.9386, step time: 1.3663
Batch 152/248, train_loss: 0.0884, step time: 1.3658
Batch 153/248, train_loss: 0.8349, step time: 1.3864
Batch 154/248, train_loss: 0.9531, step time: 1.4042
Batch 155/248, train_loss: 0.3484, step time: 1.3756
Batch 156/248, train_loss: 0.4787, step time: 1.3727
Batch 157/248, train_loss: 0.4427, step time: 1.4053
Batch 158/248, train_loss: 0.9967, step time: 1.3742
Batch 159/248, train_loss: 0.9878, step time: 1.3881
Batch 160/248, train_loss: 0.1716, step time: 1.3639
Batch 161/248, train_loss: 0.2648, step time: 1.3906
Batch 162/248, train_loss: 0.5149, step time: 1.4035

Batch 163/248, train_loss: 0.8681, step time: 1.3815
Batch 164/248, train_loss: 0.3999, step time: 1.3778
Batch 165/248, train_loss: 0.9977, step time: 1.3576
Batch 166/248, train_loss: 0.6871, step time: 1.4024
Batch 167/248, train_loss: 0.5104, step time: 1.3982
Batch 168/248, train_loss: 0.3884, step time: 1.3789
Batch 169/248, train_loss: 0.2975, step time: 1.3791
Batch 170/248, train_loss: 0.9689, step time: 1.3825
Batch 171/248, train_loss: 0.1359, step time: 1.3967
Batch 172/248, train_loss: 0.9989, step time: 1.3563
Batch 173/248, train_loss: 0.2110, step time: 1.3679
Batch 174/248, train_loss: 0.9992, step time: 1.3720
Batch 175/248, train_loss: 0.2337, step time: 1.3776
Batch 176/248, train_loss: 0.6602, step time: 1.3759
Batch 177/248, train_loss: 0.9752, step time: 1.3960
Batch 178/248, train_loss: 0.2912, step time: 1.4003
Batch 179/248, train_loss: 0.1457, step time: 1.3665
Batch 180/248, train_loss: 0.5296, step time: 1.3989
Batch 181/248, train_loss: 0.2092, step time: 1.3645
Batch 182/248, train_loss: 0.9403, step time: 1.3970
Batch 183/248, train_loss: 0.5404, step time: 1.3866
Batch 184/248, train_loss: 0.8372, step time: 1.3976
Batch 185/248, train_loss: 0.3674, step time: 1.4003
Batch 186/248, train_loss: 0.3135, step time: 1.3898
Batch 187/248, train_loss: 0.3235, step time: 1.3859
Batch 188/248, train_loss: 0.4024, step time: 1.3730
Batch 189/248, train_loss: 0.9991, step time: 1.3630
Batch 190/248, train_loss: 0.2699, step time: 1.3652
Batch 191/248, train_loss: 0.9954, step time: 1.3915
Batch 192/248, train_loss: 0.4262, step time: 1.4032
Batch 193/248, train_loss: 0.5755, step time: 1.3991
Batch 194/248, train_loss: 0.4078, step time: 1.3680
Batch 195/248, train_loss: 0.9966, step time: 1.3890
Batch 196/248, train_loss: 0.9998, step time: 1.3678
Batch 197/248, train_loss: 0.5717, step time: 1.3981
Batch 198/248, train_loss: 0.9999, step time: 1.3436
Batch 199/248, train_loss: 0.4580, step time: 1.3657
Batch 200/248, train_loss: 0.3182, step time: 1.3979
Batch 201/248, train_loss: 0.2379, step time: 1.3975
Batch 202/248, train_loss: 0.6207, step time: 1.3893
Batch 203/248, train_loss: 0.9577, step time: 1.3563
Batch 204/248, train_loss: 0.1656, step time: 1.3824
Batch 205/248, train_loss: 0.7472, step time: 1.3881
Batch 206/248, train_loss: 0.9824, step time: 1.3921
Batch 207/248, train_loss: 0.2298, step time: 1.3702
Batch 208/248, train_loss: 0.3609, step time: 1.3842
Batch 209/248, train_loss: 0.2527, step time: 1.3800
Batch 210/248, train_loss: 0.1515, step time: 1.3839
Batch 211/248, train_loss: 0.1634, step time: 1.3682
Batch 212/248, train_loss: 0.8704, step time: 1.4012
Batch 213/248, train_loss: 0.4548, step time: 1.3691
Batch 214/248, train_loss: 0.2163, step time: 1.3819
Batch 215/248, train_loss: 0.6663, step time: 1.4057
Batch 216/248, train_loss: 0.3446, step time: 1.3845
Batch 217/248, train_loss: 0.8165, step time: 1.3912
Batch 218/248, train_loss: 0.9965, step time: 1.3905
Batch 219/248, train_loss: 0.2147, step time: 1.3878
Batch 220/248, train_loss: 0.5521, step time: 1.3842
Batch 221/248, train_loss: 0.5942, step time: 1.3842
Batch 222/248, train_loss: 0.2934, step time: 1.3709
Batch 223/248, train_loss: 0.1036, step time: 1.3595
Batch 224/248, train_loss: 0.2171, step time: 1.3614
Batch 225/248, train_loss: 0.9513, step time: 1.3687
Batch 226/248, train_loss: 0.8160, step time: 1.3822
Batch 227/248, train_loss: 0.2817, step time: 1.3594
Batch 228/248, train_loss: 0.5244, step time: 1.3894
Batch 229/248, train_loss: 0.2155, step time: 1.3894
Batch 230/248, train_loss: 0.2420, step time: 1.3621
Batch 231/248, train_loss: 0.9933, step time: 1.3760
Batch 232/248, train_loss: 0.1924, step time: 1.3847
Batch 233/248, train_loss: 0.9997, step time: 1.3761
Batch 234/248, train_loss: 0.9541, step time: 1.4057
Batch 235/248, train_loss: 0.9397, step time: 1.4031
Batch 236/248, train_loss: 0.9983, step time: 1.3691
Batch 237/248, train_loss: 0.2321, step time: 1.3886
Batch 238/248, train_loss: 0.2013, step time: 1.3703
Batch 239/248, train_loss: 0.1262, step time: 1.3987
Batch 240/248, train_loss: 0.6171, step time: 1.4014
Batch 241/248, train_loss: 0.9972, step time: 1.3928
Batch 242/248, train_loss: 0.6375, step time: 1.3636
Batch 243/248, train_loss: 0.9756, step time: 1.3757
Batch 244/248, train_loss: 0.8741, step time: 1.3862
Batch 245/248, train_loss: 0.1933, step time: 1.3843
Batch 246/248, train_loss: 0.9311, step time: 1.3734
Batch 247/248, train_loss: 0.1345, step time: 1.3914

```
   Batch 248/248, train_loss: 1.0000, step time: 1.3598
```




```
VAL
   Batch 1/31, val_loss: 0.8882
   Batch 2/31, val_loss: 0.9993
   Batch 3/31, val_loss: 0.9836
   Batch 4/31, val_loss: 0.9698
   Batch 5/31, val_loss: 0.9997
   Batch 6/31, val_loss: 0.7163
   Batch 7/31, val_loss: 0.8761
   Batch 8/31, val_loss: 0.9648
   Batch 9/31, val_loss: 0.7170
   Batch 10/31, val_loss: 0.9424
   Batch 11/31, val_loss: 0.8611
   Batch 12/31, val_loss: 0.9786
   Batch 13/31, val_loss: 0.9977
   Batch 14/31, val_loss: 0.9762
   Batch 15/31, val_loss: 0.9941
   Batch 16/31, val_loss: 0.9911
   Batch 17/31, val_loss: 0.9920
   Batch 18/31, val_loss: 0.9589
   Batch 19/31, val_loss: 0.7956
   Batch 20/31, val_loss: 0.9051
   Batch 21/31, val_loss: 0.9073
   Batch 22/31, val_loss: 0.9977
   Batch 23/31, val_loss: 0.9979
   Batch 24/31, val_loss: 0.7609
   Batch 25/31, val_loss: 0.8236
   Batch 26/31, val_loss: 0.9398
   Batch 27/31, val_loss: 0.9932
   Batch 28/31, val_loss: 0.7697
   Batch 29/31, val_loss: 0.9979
   Batch 30/31, val_loss: 0.9871
   Batch 31/31, val_loss: 0.9824
```



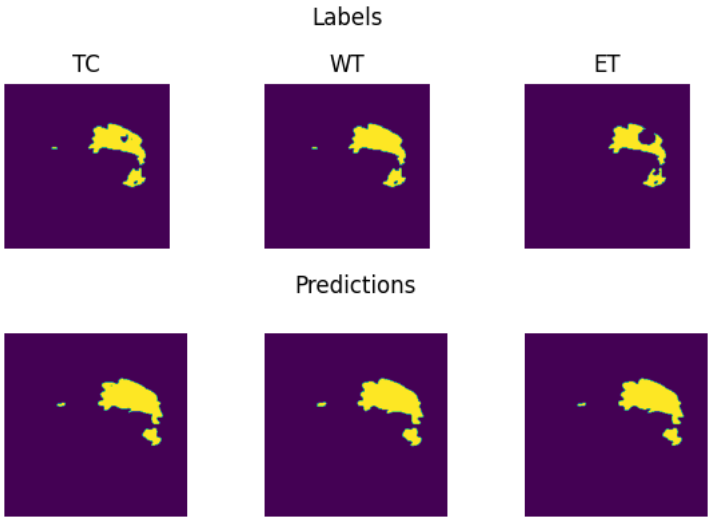

```
epoch 11
   average train loss: 0.5692
   average validation loss: 0.9247
   saved as best model: True
   current mean dice: 0.3667
   current TC dice: 0.3839
```

```
   current TC dice: 0.3659
   current WT dice: 0.3919
   current ET dice: 0.3590
Best Mean Metric: 0.3667
time consuming of epoch 11 is: 1690.9183
----------
epoch 12/100
TRAIN
   Batch 1/248, train_loss: 0.1253, step time: 1.4390
   Batch 2/248, train_loss: 0.9950, step time: 1.3833
   Batch 3/248, train_loss: 0.8112, step time: 1.3728
   Batch 4/248, train_loss: 0.9990, step time: 1.3482
   Batch 5/248, train_loss: 0.5917, step time: 1.3660
   Batch 6/248, train_loss: 0.7592, step time: 1.3677
   Batch 7/248, train_loss: 0.1116, step time: 1.3780
   Batch 8/248, train_loss: 0.7528, step time: 1.3816
   Batch 9/248, train_loss: 0.0906, step time: 1.3651
   Batch 10/248, train_loss: 0.6186, step time: 1.3938
   Batch 11/248, train_loss: 0.5437, step time: 1.4032
   Batch 12/248, train_loss: 0.9568, step time: 1.3853
   Batch 13/248, train_loss: 0.8442, step time: 1.3610
   Batch 14/248, train_loss: 0.0921, step time: 1.3958
   Batch 15/248, train_loss: 0.6435, step time: 1.3671
   Batch 16/248, train_loss: 0.4039, step time: 1.3790
   Batch 17/248, train_loss: 0.9707, step time: 1.3847
   Batch 18/248, train_loss: 0.8746, step time: 1.3767
   Batch 19/248, train_loss: 0.1902, step time: 1.3848
   Batch 20/248, train_loss: 0.4952, step time: 1.3707
   Batch 21/248, train_loss: 0.1625, step time: 1.3693
   Batch 22/248, train_loss: 0.9993, step time: 1.3469
   Batch 23/248, train_loss: 0.9990, step time: 1.3634
   Batch 24/248, train_loss: 0.1936, step time: 1.3682
   Batch 25/248, train_loss: 0.1181, step time: 1.3856
   Batch 26/248, train_loss: 0.9546, step time: 1.3944
   Batch 27/248, train_loss: 0.1062, step time: 1.3960
   Batch 28/248, train_loss: 0.3899, step time: 1.3858
   Batch 29/248, train_loss: 0.9235, step time: 1.3756
   Batch 30/248, train_loss: 0.7781, step time: 1.3769
   Batch 31/248, train_loss: 0.6894, step time: 1.3778
   Batch 32/248, train_loss: 0.1926, step time: 1.3838
   Batch 33/248, train_loss: 0.1329, step time: 1.3867
   Batch 34/248, train_loss: 0.1074, step time: 1.3663
   Batch 35/248, train_loss: 0.1703, step time: 1.3846
   Batch 36/248, train_loss: 0.9990, step time: 1.3559
   Batch 37/248, train_loss: 0.3210, step time: 1.3771
   Batch 38/248, train_loss: 0.5762, step time: 1.3778
   Batch 39/248, train_loss: 0.3921, step time: 1.3938
   Batch 40/248, train_loss: 0.9999, step time: 1.3657
   Batch 41/248, train_loss: 0.3311, step time: 1.3847
   Batch 42/248, train_loss: 0.1427, step time: 1.3652
   Batch 43/248, train_loss: 0.1290, step time: 1.3630
   Batch 44/248, train_loss: 0.3471, step time: 1.3679
   Batch 45/248, train_loss: 0.8073, step time: 1.3783
   Batch 46/248, train_loss: 0.3698, step time: 1.3755
   Batch 47/248, train_loss: 0.3491, step time: 1.3989
   Batch 48/248, train_loss: 0.5621, step time: 1.3942
   Batch 49/248, train_loss: 0.8837, step time: 1.3677
   Batch 50/248, train_loss: 0.4042, step time: 1.3583
   Batch 51/248, train_loss: 0.3960, step time: 1.3776
   Batch 52/248, train_loss: 0.2981, step time: 1.3735
   Batch 53/248, train_loss: 0.7491, step time: 1.3833
   Batch 54/248, train_loss: 0.4040, step time: 1.3985
   Batch 55/248, train_loss: 0.6273, step time: 1.3746
   Batch 56/248, train_loss: 0.5302, step time: 1.3929
   Batch 57/248, train_loss: 0.4790, step time: 1.3879
   Batch 58/248, train_loss: 0.1884, step time: 1.3618
   Batch 59/248, train_loss: 0.2053, step time: 1.3723
   Batch 60/248, train_loss: 0.2055, step time: 1.3915
   Batch 61/248, train_loss: 0.2140, step time: 1.3681
   Batch 62/248, train_loss: 0.6151, step time: 1.3789
   Batch 63/248, train_loss: 0.9771, step time: 1.3970
   Batch 64/248, train_loss: 0.8960, step time: 1.3757
   Batch 65/248, train_loss: 0.6206, step time: 1.3917
   Batch 66/248, train_loss: 0.4375, step time: 1.3860
   Batch 67/248, train_loss: 0.1851, step time: 1.3916
   Batch 68/248, train_loss: 0.1758, step time: 1.3858
   Batch 69/248, train_loss: 0.9964, step time: 1.3677
   Batch 70/248, train_loss: 0.2466, step time: 1.4002
   Batch 71/248, train_loss: 0.2704, step time: 1.3833
   Batch 72/248, train_loss: 0.1306, step time: 1.3574
   Batch 73/248, train_loss: 0.2119, step time: 1.3855
   Batch 74/248, train_loss: 0.9995, step time: 1.3395
   Batch 75/248, train_loss: 0.2810, step time: 1.3924
   Batch 76/248, train_loss: 0.9672, step time: 1.3768
   Batch 77/248, train_loss: 0.9987, step time: 1.3825
   Batch 78/248, train_loss: 0.8738, step time: 1.3844
```

```
Batch 78/248, train_loss: 0.2798, step time: 1.3844
Batch 79/248, train_loss: 0.3079, step time: 1.4101
Batch 80/248, train_loss: 0.4667, step time: 1.4046
Batch 81/248, train_loss: 0.7892, step time: 1.3826
Batch 82/248, train_loss: 0.1813, step time: 1.3984
Batch 83/248, train_loss: 0.9767, step time: 1.3934
Batch 84/248, train_loss: 0.5347, step time: 1.3805
Batch 85/248, train_loss: 0.9700, step time: 1.3551
Batch 86/248, train_loss: 0.5260, step time: 1.3815
Batch 87/248, train_loss: 0.8739, step time: 1.3593
Batch 88/248, train_loss: 0.8646, step time: 1.3615
Batch 89/248, train_loss: 0.2281, step time: 1.3846
Batch 90/248, train_loss: 0.4138, step time: 1.3691
Batch 91/248, train_loss: 0.9324, step time: 1.4058
Batch 92/248, train_loss: 0.7764, step time: 1.4152
Batch 93/248, train_loss: 0.2755, step time: 1.4159
Batch 94/248, train_loss: 0.9250, step time: 1.3733
Batch 95/248, train_loss: 0.2837, step time: 1.3772
Batch 96/248, train_loss: 0.3235, step time: 1.3817
Batch 97/248, train_loss: 0.9997, step time: 1.3717
Batch 98/248, train_loss: 0.2257, step time: 1.3613
Batch 99/248, train_loss: 0.8154, step time: 1.3913
Batch 100/248, train_loss: 0.9599, step time: 1.3973
Batch 101/248, train_loss: 0.1005, step time: 1.3859
Batch 102/248, train_loss: 0.3282, step time: 1.3615
Batch 103/248, train_loss: 0.9600, step time: 1.3713
Batch 104/248, train_loss: 0.4042, step time: 1.4035
Batch 105/248, train_loss: 0.1249, step time: 1.3887
Batch 106/248, train_loss: 0.4224, step time: 1.4097
Batch 107/248, train_loss: 0.9034, step time: 1.3981
Batch 108/248, train_loss: 0.9114, step time: 1.4008
Batch 109/248, train_loss: 0.9920, step time: 1.3642
Batch 110/248, train_loss: 0.7919, step time: 1.4011
Batch 111/248, train_loss: 0.1671, step time: 1.3956
Batch 112/248, train_loss: 0.1991, step time: 1.4017
Batch 113/248, train_loss: 0.9990, step time: 1.3857
Batch 114/248, train_loss: 0.2155, step time: 1.3989
Batch 115/248, train_loss: 0.3703, step time: 1.3918
Batch 116/248, train_loss: 0.1605, step time: 1.3995
Batch 117/248, train_loss: 0.9950, step time: 1.3648
Batch 118/248, train_loss: 0.9881, step time: 1.3861
Batch 119/248, train_loss: 0.5416, step time: 1.3703
Batch 120/248, train_loss: 0.4216, step time: 1.3715
Batch 121/248, train_loss: 0.6426, step time: 1.4105
Batch 122/248, train_loss: 0.8519, step time: 1.3979
Batch 123/248, train_loss: 0.1200, step time: 1.3890
Batch 124/248, train_loss: 0.8228, step time: 1.3862
Batch 125/248, train_loss: 0.9827, step time: 1.3770
Batch 126/248, train_loss: 0.4638, step time: 1.3955
Batch 127/248, train_loss: 0.2904, step time: 1.4028
Batch 128/248, train_loss: 0.6675, step time: 1.4040
Batch 129/248, train_loss: 0.1891, step time: 1.3910
Batch 130/248, train_loss: 0.2775, step time: 1.3713
Batch 131/248, train_loss: 0.8614, step time: 1.3875
Batch 132/248, train_loss: 0.6942, step time: 1.3675
Batch 133/248, train_loss: 0.2608, step time: 1.3986
Batch 134/248, train_loss: 0.9994, step time: 1.3629
Batch 135/248, train_loss: 0.8040, step time: 1.3961
Batch 136/248, train_loss: 0.4389, step time: 1.3959
Batch 137/248, train_loss: 0.1821, step time: 1.3936
Batch 138/248, train_loss: 0.1331, step time: 1.3956
Batch 139/248, train_loss: 0.7307, step time: 1.4040
Batch 140/248, train_loss: 0.3762, step time: 1.3842
Batch 141/248, train_loss: 0.2900, step time: 1.3701
Batch 142/248, train_loss: 0.9742, step time: 1.3982
Batch 143/248, train_loss: 0.5185, step time: 1.3879
Batch 144/248, train_loss: 0.1884, step time: 1.3877
Batch 145/248, train_loss: 0.0873, step time: 1.3562
Batch 146/248, train_loss: 0.9708, step time: 1.3779
Batch 147/248, train_loss: 0.0857, step time: 1.3697
Batch 148/248, train_loss: 0.9734, step time: 1.3697
Batch 149/248, train_loss: 0.3087, step time: 1.3844
Batch 150/248, train_loss: 0.6388, step time: 1.3694
Batch 151/248, train_loss: 0.8848, step time: 1.3897
Batch 152/248, train_loss: 0.0902, step time: 1.3646
Batch 153/248, train_loss: 0.7005, step time: 1.3811
Batch 154/248, train_loss: 0.9572, step time: 1.3822
Batch 155/248, train_loss: 0.3149, step time: 1.3760
Batch 156/248, train_loss: 0.2954, step time: 1.3738
Batch 157/248, train_loss: 0.4166, step time: 1.3814
Batch 158/248, train_loss: 0.9914, step time: 1.3626
Batch 159/248, train_loss: 0.9701, step time: 1.3627
Batch 160/248, train_loss: 0.1508, step time: 1.3694
Batch 161/248, train_loss: 0.2064, step time: 1.4030
Batch 162/248, train_loss: 0.2674, step time: 1.4086
```

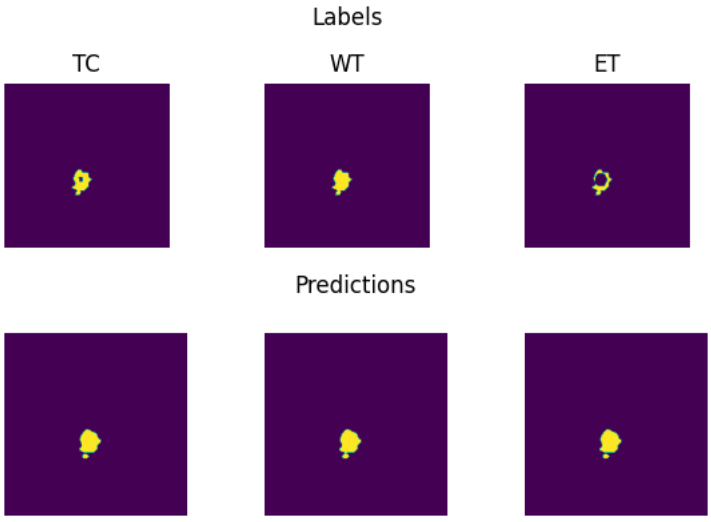
```
Batch 163/248, train_loss: 0.7133, step time: 1.3659
Batch 164/248, train_loss: 0.4051, step time: 1.3888
Batch 165/248, train_loss: 0.9981, step time: 1.3766
Batch 166/248, train_loss: 0.5002, step time: 1.3940
Batch 167/248, train_loss: 0.3376, step time: 1.3701
Batch 168/248, train_loss: 0.3418, step time: 1.3875
Batch 169/248, train_loss: 0.2229, step time: 1.3844
Batch 170/248, train_loss: 0.9492, step time: 1.3797
Batch 171/248, train_loss: 0.1198, step time: 1.3590
Batch 172/248, train_loss: 0.9978, step time: 1.3881
Batch 173/248, train_loss: 0.2028, step time: 1.3813
Batch 174/248, train_loss: 0.9994, step time: 1.3471
Batch 175/248, train_loss: 0.2299, step time: 1.3905
Batch 176/248, train_loss: 0.5451, step time: 1.4013
Batch 177/248, train_loss: 0.9578, step time: 1.3663
Batch 178/248, train_loss: 0.2524, step time: 1.3757
Batch 179/248, train_loss: 0.1178, step time: 1.3629
Batch 180/248, train_loss: 0.4754, step time: 1.3800
Batch 181/248, train_loss: 0.1618, step time: 1.3667
Batch 182/248, train_loss: 0.9301, step time: 1.3653
Batch 183/248, train_loss: 0.5611, step time: 1.3695
Batch 184/248, train_loss: 0.7610, step time: 1.3658
Batch 185/248, train_loss: 0.2562, step time: 1.3705
Batch 186/248, train_loss: 0.1661, step time: 1.3810
Batch 187/248, train_loss: 0.2682, step time: 1.4050
Batch 188/248, train_loss: 0.3361, step time: 1.3929
Batch 189/248, train_loss: 0.9975, step time: 1.3612
Batch 190/248, train_loss: 0.2280, step time: 1.3615
Batch 191/248, train_loss: 0.9857, step time: 1.3768
Batch 192/248, train_loss: 0.3988, step time: 1.3835
Batch 193/248, train_loss: 0.5001, step time: 1.3925
Batch 194/248, train_loss: 0.2941, step time: 1.3677
Batch 195/248, train_loss: 0.9923, step time: 1.3645
Batch 196/248, train_loss: 0.9998, step time: 1.3660
Batch 197/248, train_loss: 0.4458, step time: 1.4049
Batch 198/248, train_loss: 0.9998, step time: 1.3523
Batch 199/248, train_loss: 0.3073, step time: 1.3903
Batch 200/248, train_loss: 0.2511, step time: 1.3925
Batch 201/248, train_loss: 0.1994, step time: 1.3603
Batch 202/248, train_loss: 0.6185, step time: 1.3904
Batch 203/248, train_loss: 0.9317, step time: 1.3844
Batch 204/248, train_loss: 0.1447, step time: 1.3910
Batch 205/248, train_loss: 0.6170, step time: 1.3659
Batch 206/248, train_loss: 0.9576, step time: 1.3958
Batch 207/248, train_loss: 0.2060, step time: 1.3733
Batch 208/248, train_loss: 0.3273, step time: 1.3770
Batch 209/248, train_loss: 0.2489, step time: 1.3788
Batch 210/248, train_loss: 0.1243, step time: 1.3848
Batch 211/248, train_loss: 0.1399, step time: 1.3901
Batch 212/248, train_loss: 0.8948, step time: 1.3960
Batch 213/248, train_loss: 0.4046, step time: 1.3920
Batch 214/248, train_loss: 0.1824, step time: 1.3752
Batch 215/248, train_loss: 0.5918, step time: 1.4044
Batch 216/248, train_loss: 0.3319, step time: 1.4046
Batch 217/248, train_loss: 0.6477, step time: 1.3994
Batch 218/248, train_loss: 0.9914, step time: 1.3947
Batch 219/248, train_loss: 0.1748, step time: 1.3740
Batch 220/248, train_loss: 0.4683, step time: 1.4036
Batch 221/248, train_loss: 0.5069, step time: 1.3782
Batch 222/248, train_loss: 0.2934, step time: 1.3805
Batch 223/248, train_loss: 0.0878, step time: 1.3729
Batch 224/248, train_loss: 0.2041, step time: 1.3838
Batch 225/248, train_loss: 0.9613, step time: 1.3942
Batch 226/248, train_loss: 0.7920, step time: 1.3567
Batch 227/248, train_loss: 0.2507, step time: 1.3888
Batch 228/248, train_loss: 0.4634, step time: 1.3827
Batch 229/248, train_loss: 0.1805, step time: 1.3602
Batch 230/248, train_loss: 0.1795, step time: 1.3602
Batch 231/248, train_loss: 0.9911, step time: 1.3662
Batch 232/248, train_loss: 0.1410, step time: 1.3612
Batch 233/248, train_loss: 0.9996, step time: 1.3691
Batch 234/248, train_loss: 0.9386, step time: 1.3660
Batch 235/248, train_loss: 0.8908, step time: 1.3925
Batch 236/248, train_loss: 0.9974, step time: 1.3851
Batch 237/248, train_loss: 0.2021, step time: 1.3849
Batch 238/248, train_loss: 0.1885, step time: 1.3638
Batch 239/248, train_loss: 0.2420, step time: 1.3733
Batch 240/248, train_loss: 0.6285, step time: 1.3852
Batch 241/248, train_loss: 0.9983, step time: 1.3813
Batch 242/248, train_loss: 0.5857, step time: 1.3652
Batch 243/248, train_loss: 0.9589, step time: 1.3835
Batch 244/248, train_loss: 0.8490, step time: 1.3777
Batch 245/248, train_loss: 0.1739, step time: 1.3683
Batch 246/248, train_loss: 0.9027, step time: 1.3814
Batch 247/248, train_loss: 0.1244, step time: 1.3605
```

Batch 248/248, train_loss: 1.0000, step time: 1.3488



VAL

Batch 1/31, val_loss: 0.8776
Batch 2/31, val_loss: 0.9995
Batch 3/31, val_loss: 0.9859
Batch 4/31, val_loss: 0.9726
Batch 5/31, val_loss: 0.9996
Batch 6/31, val_loss: 0.7109
Batch 7/31, val_loss: 0.8765
Batch 8/31, val_loss: 0.9621
Batch 9/31, val_loss: 0.7109
Batch 10/31, val_loss: 0.9447
Batch 11/31, val_loss: 0.8552
Batch 12/31, val_loss: 0.9785
Batch 13/31, val_loss: 0.9983
Batch 14/31, val_loss: 0.9790
Batch 15/31, val_loss: 0.9980
Batch 16/31, val_loss: 0.9856
Batch 17/31, val_loss: 0.9915
Batch 18/31, val_loss: 0.9578
Batch 19/31, val_loss: 0.7973
Batch 20/31, val_loss: 0.8852
Batch 21/31, val_loss: 0.9030
Batch 22/31, val_loss: 0.9969
Batch 23/31, val_loss: 0.9980
Batch 24/31, val_loss: 0.7540
Batch 25/31, val_loss: 0.8235
Batch 26/31, val_loss: 0.9328
Batch 27/31, val_loss: 0.9958
Batch 28/31, val_loss: 0.7655
Batch 29/31, val_loss: 0.9968
Batch 30/31, val_loss: 0.9874
Batch 31/31, val_loss: 0.9838



epoch 12

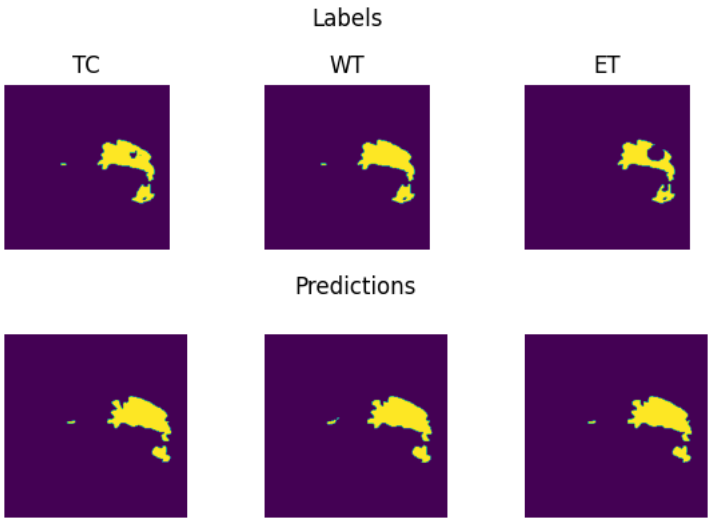
average train loss: 0.5316
average validation loss: 0.9227
saved as best model: False
current mean dice: 0.3638

```
   current TC dice: 0.3800
   current WT dice: 0.3871
   current ET dice: 0.3590
Best Mean Metric: 0.3667
time consuming of epoch 12 is: 1692.6885
----------
epoch 13/100
TRAIN
   Batch 1/248, train_loss: 0.1280, step time: 1.4518
   Batch 2/248, train_loss: 0.9847, step time: 1.3742
   Batch 3/248, train_loss: 0.9062, step time: 1.3935
   Batch 4/248, train_loss: 0.9992, step time: 1.3823
   Batch 5/248, train_loss: 0.5151, step time: 1.3942
   Batch 6/248, train_loss: 0.8065, step time: 1.3627
   Batch 7/248, train_loss: 0.1016, step time: 1.3775
   Batch 8/248, train_loss: 0.7446, step time: 1.3734
   Batch 9/248, train_loss: 0.0796, step time: 1.3634
   Batch 10/248, train_loss: 0.5634, step time: 1.3787
   Batch 11/248, train_loss: 0.4776, step time: 1.4009
   Batch 12/248, train_loss: 0.9605, step time: 1.3757
   Batch 13/248, train_loss: 0.8274, step time: 1.3897
   Batch 14/248, train_loss: 0.0932, step time: 1.3755
   Batch 15/248, train_loss: 0.5788, step time: 1.3889
   Batch 16/248, train_loss: 0.3599, step time: 1.3905
   Batch 17/248, train_loss: 0.9880, step time: 1.3661
   Batch 18/248, train_loss: 0.8536, step time: 1.3794
   Batch 19/248, train_loss: 0.2260, step time: 1.3810
   Batch 20/248, train_loss: 0.4208, step time: 1.3949
   Batch 21/248, train_loss: 0.1159, step time: 1.3938
   Batch 22/248, train_loss: 0.9996, step time: 1.3484
   Batch 23/248, train_loss: 0.9982, step time: 1.3869
   Batch 24/248, train_loss: 0.1649, step time: 1.3962
   Batch 25/248, train_loss: 0.1112, step time: 1.3649
   Batch 26/248, train_loss: 0.8131, step time: 1.3829
   Batch 27/248, train_loss: 0.1181, step time: 1.4136
   Batch 28/248, train_loss: 0.3131, step time: 1.4037
   Batch 29/248, train_loss: 0.8981, step time: 1.3830
   Batch 30/248, train_loss: 0.8140, step time: 1.3847
   Batch 31/248, train_loss: 0.6473, step time: 1.3675
   Batch 32/248, train_loss: 0.1568, step time: 1.3906
   Batch 33/248, train_loss: 0.1271, step time: 1.3703
   Batch 34/248, train_loss: 0.0891, step time: 1.3507
   Batch 35/248, train_loss: 0.1382, step time: 1.3671
   Batch 36/248, train_loss: 0.9971, step time: 1.3817
   Batch 37/248, train_loss: 0.3043, step time: 1.3925
   Batch 38/248, train_loss: 0.5506, step time: 1.3666
   Batch 39/248, train_loss: 0.3883, step time: 1.3777
   Batch 40/248, train_loss: 0.9998, step time: 1.3588
   Batch 41/248, train_loss: 0.2870, step time: 1.4081
   Batch 42/248, train_loss: 0.1146, step time: 1.3970
   Batch 43/248, train_loss: 0.1037, step time: 1.3837
   Batch 44/248, train_loss: 0.5090, step time: 1.3614
   Batch 45/248, train_loss: 0.7610, step time: 1.3931
   Batch 46/248, train_loss: 0.3144, step time: 1.3813
   Batch 47/248, train_loss: 0.2480, step time: 1.3888
   Batch 48/248, train_loss: 0.3250, step time: 1.3707
   Batch 49/248, train_loss: 0.7636, step time: 1.3850
   Batch 50/248, train_loss: 0.3603, step time: 1.3889
   Batch 51/248, train_loss: 0.3932, step time: 1.3992
   Batch 52/248, train_loss: 0.2577, step time: 1.3790
   Batch 53/248, train_loss: 0.6645, step time: 1.4072
   Batch 54/248, train_loss: 0.3630, step time: 1.3750
   Batch 55/248, train_loss: 0.5635, step time: 1.4057
   Batch 56/248, train_loss: 0.4661, step time: 1.4122
   Batch 57/248, train_loss: 0.4305, step time: 1.3605
   Batch 58/248, train_loss: 0.1382, step time: 1.3659
   Batch 59/248, train_loss: 0.1712, step time: 1.3729
   Batch 60/248, train_loss: 0.1371, step time: 1.3619
   Batch 61/248, train_loss: 0.2012, step time: 1.3961
   Batch 62/248, train_loss: 0.5649, step time: 1.3831
   Batch 63/248, train_loss: 0.9573, step time: 1.3836
   Batch 64/248, train_loss: 0.9209, step time: 1.3734
   Batch 65/248, train_loss: 0.4589, step time: 1.3770
   Batch 66/248, train_loss: 0.4593, step time: 1.4050
   Batch 67/248, train_loss: 0.1676, step time: 1.4024
   Batch 68/248, train_loss: 0.1965, step time: 1.4045
   Batch 69/248, train_loss: 0.9879, step time: 1.3980
   Batch 70/248, train_loss: 0.2356, step time: 1.3767
   Batch 71/248, train_loss: 0.2188, step time: 1.4058
   Batch 72/248, train_loss: 0.1002, step time: 1.3663
   Batch 73/248, train_loss: 0.2104, step time: 1.3869
   Batch 74/248, train_loss: 0.9995, step time: 1.3559
   Batch 75/248, train_loss: 0.2203, step time: 1.3784
   Batch 76/248, train_loss: 0.9520, step time: 1.3891
   Batch 77/248, train_loss: 0.9971, step time: 1.3936
```

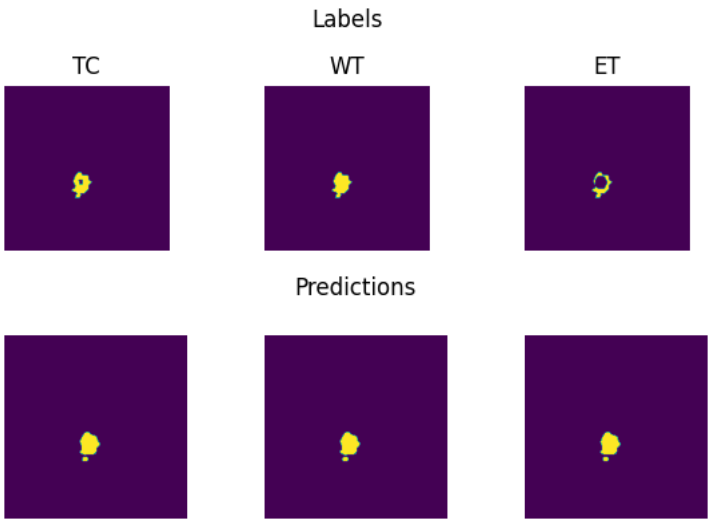
```
Batch 78/248, train_loss: 0.2190, step time: 1.3930
Batch 79/248, train_loss: 0.2745, step time: 1.4185
Batch 80/248, train_loss: 0.4051, step time: 1.4064
Batch 81/248, train_loss: 0.4382, step time: 1.3951
Batch 82/248, train_loss: 0.1679, step time: 1.4041
Batch 83/248, train_loss: 0.9861, step time: 1.3873
Batch 84/248, train_loss: 0.3940, step time: 1.3765
Batch 85/248, train_loss: 0.9759, step time: 1.3781
Batch 86/248, train_loss: 0.5026, step time: 1.3858
Batch 87/248, train_loss: 0.9589, step time: 1.3994
Batch 88/248, train_loss: 0.8461, step time: 1.3912
Batch 89/248, train_loss: 0.1589, step time: 1.3749
Batch 90/248, train_loss: 0.5764, step time: 1.3755
Batch 91/248, train_loss: 0.8780, step time: 1.3819
Batch 92/248, train_loss: 0.8329, step time: 1.3964
Batch 93/248, train_loss: 0.2560, step time: 1.3969
Batch 94/248, train_loss: 0.8969, step time: 1.3952
Batch 95/248, train_loss: 0.2493, step time: 1.3929
Batch 96/248, train_loss: 0.3497, step time: 1.3866
Batch 97/248, train_loss: 0.9996, step time: 1.3623
Batch 98/248, train_loss: 0.2114, step time: 1.3674
Batch 99/248, train_loss: 0.8224, step time: 1.3655
Batch 100/248, train_loss: 0.9254, step time: 1.3722
Batch 101/248, train_loss: 0.0862, step time: 1.3680
Batch 102/248, train_loss: 0.2911, step time: 1.3796
Batch 103/248, train_loss: 0.9272, step time: 1.3653
Batch 104/248, train_loss: 0.5483, step time: 1.3950
Batch 105/248, train_loss: 0.1191, step time: 1.3690
Batch 106/248, train_loss: 0.3638, step time: 1.3904
Batch 107/248, train_loss: 0.9020, step time: 1.3715
Batch 108/248, train_loss: 0.8966, step time: 1.4010
Batch 109/248, train_loss: 0.9909, step time: 1.4024
Batch 110/248, train_loss: 0.7901, step time: 1.3822
Batch 111/248, train_loss: 0.1841, step time: 1.4090
Batch 112/248, train_loss: 0.2360, step time: 1.3745
Batch 113/248, train_loss: 0.9993, step time: 1.3576
Batch 114/248, train_loss: 0.2143, step time: 1.3645
Batch 115/248, train_loss: 0.3814, step time: 1.3690
Batch 116/248, train_loss: 0.5227, step time: 1.3762
Batch 117/248, train_loss: 0.9794, step time: 1.3704
Batch 118/248, train_loss: 0.9915, step time: 1.3717
Batch 119/248, train_loss: 0.5291, step time: 1.3823
Batch 120/248, train_loss: 0.3704, step time: 1.3901
Batch 121/248, train_loss: 0.7939, step time: 1.3842
Batch 122/248, train_loss: 0.8655, step time: 1.3901
Batch 123/248, train_loss: 0.1434, step time: 1.4121
Batch 124/248, train_loss: 0.8544, step time: 1.3991
Batch 125/248, train_loss: 0.9904, step time: 1.3821
Batch 126/248, train_loss: 0.4110, step time: 1.4155
Batch 127/248, train_loss: 0.2780, step time: 1.3758
Batch 128/248, train_loss: 0.7047, step time: 1.3705
Batch 129/248, train_loss: 0.1599, step time: 1.3521
Batch 130/248, train_loss: 0.2704, step time: 1.3943
Batch 131/248, train_loss: 0.8580, step time: 1.3841
Batch 132/248, train_loss: 0.6293, step time: 1.3898
Batch 133/248, train_loss: 0.2616, step time: 1.3830
Batch 134/248, train_loss: 0.9997, step time: 1.3430
Batch 135/248, train_loss: 0.8149, step time: 1.3971
Batch 136/248, train_loss: 0.3798, step time: 1.4071
Batch 137/248, train_loss: 0.1683, step time: 1.3885
Batch 138/248, train_loss: 0.1227, step time: 1.3629
Batch 139/248, train_loss: 0.2622, step time: 1.3808
Batch 140/248, train_loss: 0.3682, step time: 1.3898
Batch 141/248, train_loss: 0.2859, step time: 1.3969
Batch 142/248, train_loss: 0.9908, step time: 1.3957
Batch 143/248, train_loss: 0.4727, step time: 1.3646
Batch 144/248, train_loss: 0.1727, step time: 1.3565
Batch 145/248, train_loss: 0.0853, step time: 1.3492
Batch 146/248, train_loss: 0.9816, step time: 1.3776
Batch 147/248, train_loss: 0.0808, step time: 1.3774
Batch 148/248, train_loss: 0.9820, step time: 1.3964
Batch 149/248, train_loss: 0.2638, step time: 1.3975
Batch 150/248, train_loss: 0.6393, step time: 1.3656
Batch 151/248, train_loss: 0.8973, step time: 1.3802
Batch 152/248, train_loss: 0.0784, step time: 1.3602
Batch 153/248, train_loss: 0.6629, step time: 1.3944
Batch 154/248, train_loss: 0.9266, step time: 1.3780
Batch 155/248, train_loss: 0.2370, step time: 1.3696
Batch 156/248, train_loss: 0.3142, step time: 1.3920
Batch 157/248, train_loss: 0.3999, step time: 1.3713
Batch 158/248, train_loss: 0.9952, step time: 1.3872
Batch 159/248, train_loss: 0.9751, step time: 1.3476
Batch 160/248, train_loss: 0.1402, step time: 1.3786
Batch 161/248, train_loss: 0.1858, step time: 1.3617
Batch 162/248, train_loss: 0.1664, step time: 1.4072
```

Batch 163/248, train_loss: 0.7043, step time: 1.4021
Batch 164/248, train_loss: 0.3014, step time: 1.3926
Batch 165/248, train_loss: 0.9976, step time: 1.3769
Batch 166/248, train_loss: 0.4366, step time: 1.4019
Batch 167/248, train_loss: 0.3096, step time: 1.4009
Batch 168/248, train_loss: 0.2996, step time: 1.4032
Batch 169/248, train_loss: 0.1837, step time: 1.3882
Batch 170/248, train_loss: 0.9429, step time: 1.3802
Batch 171/248, train_loss: 0.1449, step time: 1.3603
Batch 172/248, train_loss: 0.9959, step time: 1.3525
Batch 173/248, train_loss: 0.2057, step time: 1.3672
Batch 174/248, train_loss: 0.9968, step time: 1.3750
Batch 175/248, train_loss: 0.2709, step time: 1.3700
Batch 176/248, train_loss: 0.5107, step time: 1.3744
Batch 177/248, train_loss: 0.9436, step time: 1.3698
Batch 178/248, train_loss: 0.2556, step time: 1.3828
Batch 179/248, train_loss: 0.1165, step time: 1.3687
Batch 180/248, train_loss: 0.4603, step time: 1.3822
Batch 181/248, train_loss: 0.1465, step time: 1.3886
Batch 182/248, train_loss: 0.9303, step time: 1.3768
Batch 183/248, train_loss: 0.5582, step time: 1.3912
Batch 184/248, train_loss: 0.8595, step time: 1.3672
Batch 185/248, train_loss: 0.2400, step time: 1.3987
Batch 186/248, train_loss: 0.1770, step time: 1.3783
Batch 187/248, train_loss: 0.2981, step time: 1.3659
Batch 188/248, train_loss: 0.3076, step time: 1.3821
Batch 189/248, train_loss: 0.9983, step time: 1.3783
Batch 190/248, train_loss: 0.2310, step time: 1.3667
Batch 191/248, train_loss: 0.9966, step time: 1.3560
Batch 192/248, train_loss: 0.3930, step time: 1.3923
Batch 193/248, train_loss: 0.4748, step time: 1.3859
Batch 194/248, train_loss: 0.2525, step time: 1.3975
Batch 195/248, train_loss: 0.9901, step time: 1.3971
Batch 196/248, train_loss: 0.9998, step time: 1.3703
Batch 197/248, train_loss: 0.4476, step time: 1.4115
Batch 198/248, train_loss: 0.9997, step time: 1.3601
Batch 199/248, train_loss: 0.3622, step time: 1.3604
Batch 200/248, train_loss: 0.2411, step time: 1.3571
Batch 201/248, train_loss: 0.1924, step time: 1.3850
Batch 202/248, train_loss: 0.6369, step time: 1.3773
Batch 203/248, train_loss: 0.9210, step time: 1.3640
Batch 204/248, train_loss: 0.1387, step time: 1.3727
Batch 205/248, train_loss: 0.6095, step time: 1.3600
Batch 206/248, train_loss: 0.9482, step time: 1.3925
Batch 207/248, train_loss: 0.1545, step time: 1.3617
Batch 208/248, train_loss: 0.5099, step time: 1.3867
Batch 209/248, train_loss: 0.2146, step time: 1.3637
Batch 210/248, train_loss: 0.1129, step time: 1.3613
Batch 211/248, train_loss: 0.1564, step time: 1.3666
Batch 212/248, train_loss: 0.7055, step time: 1.3599
Batch 213/248, train_loss: 0.3318, step time: 1.3673
Batch 214/248, train_loss: 0.1643, step time: 1.3632
Batch 215/248, train_loss: 0.5119, step time: 1.3752
Batch 216/248, train_loss: 0.2805, step time: 1.3937
Batch 217/248, train_loss: 0.5737, step time: 1.4124
Batch 218/248, train_loss: 0.9910, step time: 1.3758
Batch 219/248, train_loss: 0.1416, step time: 1.3756
Batch 220/248, train_loss: 0.4225, step time: 1.3973
Batch 221/248, train_loss: 0.4742, step time: 1.4047
Batch 222/248, train_loss: 0.2234, step time: 1.3806
Batch 223/248, train_loss: 0.0778, step time: 1.3870
Batch 224/248, train_loss: 0.1437, step time: 1.3633
Batch 225/248, train_loss: 0.9341, step time: 1.3756
Batch 226/248, train_loss: 0.7414, step time: 1.3662
Batch 227/248, train_loss: 0.2103, step time: 1.3620
Batch 228/248, train_loss: 0.3598, step time: 1.3567
Batch 229/248, train_loss: 0.2521, step time: 1.3979
Batch 230/248, train_loss: 0.1652, step time: 1.3733
Batch 231/248, train_loss: 0.9950, step time: 1.3867
Batch 232/248, train_loss: 0.1218, step time: 1.3616
Batch 233/248, train_loss: 0.9997, step time: 1.3434
Batch 234/248, train_loss: 0.8406, step time: 1.3722
Batch 235/248, train_loss: 0.8762, step time: 1.4029
Batch 236/248, train_loss: 0.9977, step time: 1.3882
Batch 237/248, train_loss: 0.1997, step time: 1.3655
Batch 238/248, train_loss: 0.1540, step time: 1.3759
Batch 239/248, train_loss: 0.1480, step time: 1.3754
Batch 240/248, train_loss: 0.5644, step time: 1.3847
Batch 241/248, train_loss: 0.9977, step time: 1.3615
Batch 242/248, train_loss: 0.4905, step time: 1.3844
Batch 243/248, train_loss: 0.9655, step time: 1.3612
Batch 244/248, train_loss: 0.8238, step time: 1.3689
Batch 245/248, train_loss: 0.1518, step time: 1.3663
Batch 246/248, train_loss: 0.8489, step time: 1.3891

Batch 247/248, train_loss: 0.1200, step time: 1.3633
Batch 248/248, train_loss: 1.0000, step time: 1.3477



VAL
Batch 1/31, val_loss: 0.8771
Batch 2/31, val_loss: 0.9995
Batch 3/31, val_loss: 0.9832
Batch 4/31, val_loss: 0.9658
Batch 5/31, val_loss: 0.9996
Batch 6/31, val_loss: 0.7143
Batch 7/31, val_loss: 0.8530
Batch 8/31, val_loss: 0.9555
Batch 9/31, val_loss: 0.7096
Batch 10/31, val_loss: 0.9314
Batch 11/31, val_loss: 0.8468
Batch 12/31, val_loss: 0.9729
Batch 13/31, val_loss: 0.9945
Batch 14/31, val_loss: 0.9655
Batch 15/31, val_loss: 0.9927
Batch 16/31, val_loss: 0.9783
Batch 17/31, val_loss: 0.9864
Batch 18/31, val_loss: 0.9520
Batch 19/31, val_loss: 0.7827
Batch 20/31, val_loss: 0.8728
Batch 21/31, val_loss: 0.9011
Batch 22/31, val_loss: 0.9931
Batch 23/31, val_loss: 0.9972
Batch 24/31, val_loss: 0.7538
Batch 25/31, val_loss: 0.8171
Batch 26/31, val_loss: 0.9312
Batch 27/31, val_loss: 0.9941
Batch 28/31, val_loss: 0.7613
Batch 29/31, val_loss: 0.9935
Batch 30/31, val_loss: 0.9777
Batch 31/31, val_loss: 0.9795



epoch 13
average train loss: 0.5124
average validation loss: 0.9172
saved as best model: True
current mean dice: 0.4055

```
   current TC dice: 0.4231
   current WT dice: 0.4341
   current ET dice: 0.3972
Best Mean Metric: 0.4055
time consuming of epoch 13 is: 1715.3856
----------
epoch 14/100
TRAIN
   Batch 1/248, train_loss: 0.1195, step time: 1.4460
   Batch 2/248, train_loss: 0.9936, step time: 1.4013
   Batch 3/248, train_loss: 0.7134, step time: 1.3743
   Batch 4/248, train_loss: 0.9984, step time: 1.3480
   Batch 5/248, train_loss: 0.3611, step time: 1.3923
   Batch 6/248, train_loss: 0.8229, step time: 1.3896
   Batch 7/248, train_loss: 0.1219, step time: 1.3999
   Batch 8/248, train_loss: 0.7063, step time: 1.3805
   Batch 9/248, train_loss: 0.0837, step time: 1.3917
   Batch 10/248, train_loss: 0.4820, step time: 1.4089
   Batch 11/248, train_loss: 0.4616, step time: 1.3729
   Batch 12/248, train_loss: 0.9119, step time: 1.3946
   Batch 13/248, train_loss: 0.7687, step time: 1.4003
   Batch 14/248, train_loss: 0.1827, step time: 1.3929
   Batch 15/248, train_loss: 0.5289, step time: 1.3922
   Batch 16/248, train_loss: 0.3229, step time: 1.3721
   Batch 17/248, train_loss: 0.9822, step time: 1.3739
   Batch 18/248, train_loss: 0.8612, step time: 1.3864
   Batch 19/248, train_loss: 0.4165, step time: 1.3923
   Batch 20/248, train_loss: 0.5025, step time: 1.3634
   Batch 21/248, train_loss: 0.1009, step time: 1.3647
   Batch 22/248, train_loss: 0.9997, step time: 1.3647
   Batch 23/248, train_loss: 0.9982, step time: 1.3643
   Batch 24/248, train_loss: 0.1818, step time: 1.3710
   Batch 25/248, train_loss: 0.1288, step time: 1.3704
   Batch 26/248, train_loss: 0.9046, step time: 1.3827
   Batch 27/248, train_loss: 0.0997, step time: 1.3970
   Batch 28/248, train_loss: 0.2947, step time: 1.4052
   Batch 29/248, train_loss: 0.9914, step time: 1.3653
   Batch 30/248, train_loss: 0.8292, step time: 1.3730
   Batch 31/248, train_loss: 0.7924, step time: 1.3703
   Batch 32/248, train_loss: 0.1536, step time: 1.3574
   Batch 33/248, train_loss: 0.1207, step time: 1.3956
   Batch 34/248, train_loss: 0.0827, step time: 1.3786
   Batch 35/248, train_loss: 0.1360, step time: 1.3647
   Batch 36/248, train_loss: 0.9991, step time: 1.3809
   Batch 37/248, train_loss: 0.2938, step time: 1.3945
   Batch 38/248, train_loss: 0.4777, step time: 1.3903
   Batch 39/248, train_loss: 0.3256, step time: 1.3732
   Batch 40/248, train_loss: 0.9995, step time: 1.3720
   Batch 41/248, train_loss: 0.3542, step time: 1.3987
   Batch 42/248, train_loss: 0.1125, step time: 1.3754
   Batch 43/248, train_loss: 0.0989, step time: 1.3947
   Batch 44/248, train_loss: 0.4845, step time: 1.3805
   Batch 45/248, train_loss: 0.7715, step time: 1.4017
   Batch 46/248, train_loss: 0.3430, step time: 1.3801
   Batch 47/248, train_loss: 0.1975, step time: 1.3791
   Batch 48/248, train_loss: 0.3092, step time: 1.3880
   Batch 49/248, train_loss: 0.7445, step time: 1.3574
   Batch 50/248, train_loss: 0.3056, step time: 1.3738
   Batch 51/248, train_loss: 0.2599, step time: 1.3887
   Batch 52/248, train_loss: 0.2412, step time: 1.4073
   Batch 53/248, train_loss: 0.6019, step time: 1.3853
   Batch 54/248, train_loss: 0.3191, step time: 1.3981
   Batch 55/248, train_loss: 0.4639, step time: 1.3801
   Batch 56/248, train_loss: 0.4268, step time: 1.3886
   Batch 57/248, train_loss: 0.4897, step time: 1.3700
   Batch 58/248, train_loss: 0.1359, step time: 1.3755
   Batch 59/248, train_loss: 0.1587, step time: 1.3656
   Batch 60/248, train_loss: 0.1350, step time: 1.3996
   Batch 61/248, train_loss: 0.1703, step time: 1.3879
   Batch 62/248, train_loss: 0.4867, step time: 1.4017
   Batch 63/248, train_loss: 0.9299, step time: 1.3695
   Batch 64/248, train_loss: 0.8627, step time: 1.3700
   Batch 65/248, train_loss: 0.4496, step time: 1.4008
   Batch 66/248, train_loss: 0.3254, step time: 1.3844
   Batch 67/248, train_loss: 0.1566, step time: 1.3702
   Batch 68/248, train_loss: 0.1394, step time: 1.3708
   Batch 69/248, train_loss: 0.9964, step time: 1.3810
   Batch 70/248, train_loss: 0.2339, step time: 1.3955
   Batch 71/248, train_loss: 0.2375, step time: 1.3992
   Batch 72/248, train_loss: 0.0912, step time: 1.3809
   Batch 73/248, train_loss: 0.2364, step time: 1.3869
   Batch 74/248, train_loss: 0.9995, step time: 1.3595
   Batch 75/248, train_loss: 0.2043, step time: 1.3605
   Batch 76/248, train_loss: 0.9592, step time: 1.3769
   Batch 77/248, train_loss: 0.9934, step time: 1.3794
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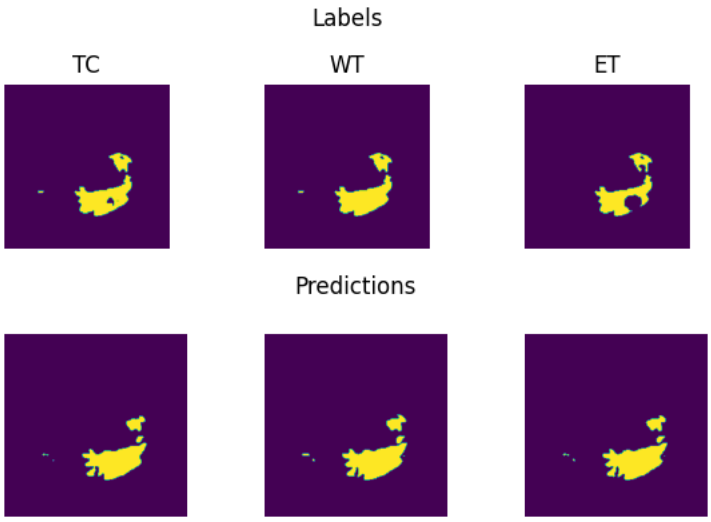
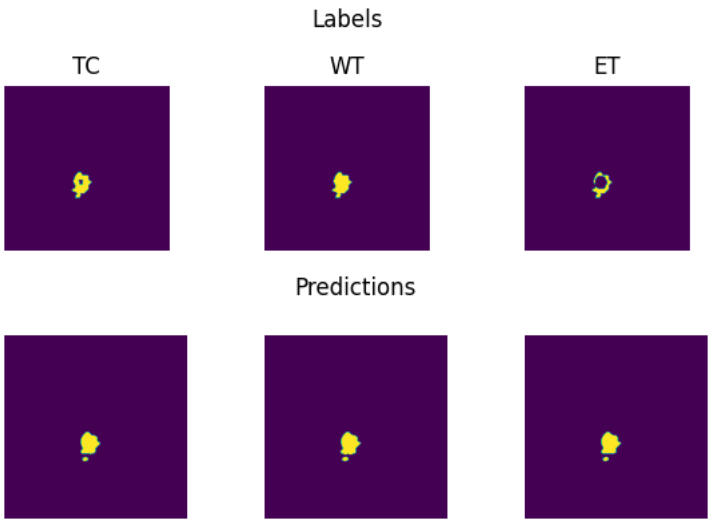
Batch 78/248, train_loss: 0.2444, step time: 1.3900
Batch 79/248, train_loss: 0.2671, step time: 1.4053
Batch 80/248, train_loss: 0.3440, step time: 1.3743
Batch 81/248, train_loss: 0.3883, step time: 1.4083
Batch 82/248, train_loss: 0.1699, step time: 1.4014
Batch 83/248, train_loss: 0.9805, step time: 1.3835
Batch 84/248, train_loss: 0.4545, step time: 1.3957
Batch 85/248, train_loss: 0.9739, step time: 1.3534
Batch 86/248, train_loss: 0.6083, step time: 1.3706
Batch 87/248, train_loss: 0.8357, step time: 1.3689
Batch 88/248, train_loss: 0.7553, step time: 1.3749
Batch 89/248, train_loss: 0.1609, step time: 1.3998
Batch 90/248, train_loss: 0.7855, step time: 1.3987
Batch 91/248, train_loss: 0.8458, step time: 1.3974
Batch 92/248, train_loss: 0.8280, step time: 1.3793
Batch 93/248, train_loss: 0.2105, step time: 1.3808
Batch 94/248, train_loss: 0.8127, step time: 1.3704
Batch 95/248, train_loss: 0.2426, step time: 1.3629
Batch 96/248, train_loss: 0.2851, step time: 1.3758
Batch 97/248, train_loss: 0.9995, step time: 1.3856
Batch 98/248, train_loss: 0.1992, step time: 1.3760
Batch 99/248, train_loss: 0.7288, step time: 1.3789
Batch 100/248, train_loss: 0.8774, step time: 1.3872
Batch 101/248, train_loss: 0.0722, step time: 1.3847
Batch 102/248, train_loss: 0.2292, step time: 1.3814
Batch 103/248, train_loss: 0.8449, step time: 1.3849
Batch 104/248, train_loss: 0.4156, step time: 1.3994
Batch 105/248, train_loss: 0.0986, step time: 1.3825
Batch 106/248, train_loss: 0.2594, step time: 1.3735
Batch 107/248, train_loss: 0.8881, step time: 1.3823
Batch 108/248, train_loss: 0.8504, step time: 1.3829
Batch 109/248, train_loss: 0.9962, step time: 1.3884
Batch 110/248, train_loss: 0.9615, step time: 1.3742
Batch 111/248, train_loss: 0.1489, step time: 1.3867
Batch 112/248, train_loss: 0.1578, step time: 1.3827
Batch 113/248, train_loss: 0.9992, step time: 1.3809
Batch 114/248, train_loss: 0.2420, step time: 1.3737
Batch 115/248, train_loss: 0.3259, step time: 1.3709
Batch 116/248, train_loss: 0.1066, step time: 1.3651
Batch 117/248, train_loss: 0.9681, step time: 1.3888
Batch 118/248, train_loss: 0.8351, step time: 1.3877
Batch 119/248, train_loss: 0.4998, step time: 1.3925
Batch 120/248, train_loss: 0.3012, step time: 1.3965
Batch 121/248, train_loss: 0.6457, step time: 1.3960
Batch 122/248, train_loss: 0.8089, step time: 1.3783
Batch 123/248, train_loss: 0.1065, step time: 1.3994
Batch 124/248, train_loss: 0.6293, step time: 1.3752
Batch 125/248, train_loss: 0.9861, step time: 1.3635
Batch 126/248, train_loss: 0.3246, step time: 1.3650
Batch 127/248, train_loss: 0.2089, step time: 1.3657
Batch 128/248, train_loss: 0.4586, step time: 1.3799
Batch 129/248, train_loss: 0.1616, step time: 1.3811
Batch 130/248, train_loss: 0.3490, step time: 1.3783
Batch 131/248, train_loss: 0.7654, step time: 1.3682
Batch 132/248, train_loss: 0.4872, step time: 1.3706
Batch 133/248, train_loss: 0.2821, step time: 1.3668
Batch 134/248, train_loss: 0.9961, step time: 1.3764
Batch 135/248, train_loss: 0.6613, step time: 1.3951
Batch 136/248, train_loss: 0.2456, step time: 1.3831
Batch 137/248, train_loss: 0.2020, step time: 1.3711
Batch 138/248, train_loss: 0.1392, step time: 1.3658
Batch 139/248, train_loss: 0.2016, step time: 1.3868
Batch 140/248, train_loss: 0.4192, step time: 1.4007
Batch 141/248, train_loss: 0.4903, step time: 1.4041
Batch 142/248, train_loss: 0.9298, step time: 1.3919
Batch 143/248, train_loss: 0.4834, step time: 1.3788
Batch 144/248, train_loss: 0.1744, step time: 1.4018
Batch 145/248, train_loss: 0.0778, step time: 1.3870
Batch 146/248, train_loss: 0.9867, step time: 1.3906
Batch 147/248, train_loss: 0.0643, step time: 1.3729
Batch 148/248, train_loss: 0.9600, step time: 1.3651
Batch 149/248, train_loss: 0.2403, step time: 1.3714
Batch 150/248, train_loss: 0.6836, step time: 1.3798
Batch 151/248, train_loss: 0.9531, step time: 1.3634
Batch 152/248, train_loss: 0.0700, step time: 1.3529
Batch 153/248, train_loss: 0.8851, step time: 1.3787
Batch 154/248, train_loss: 0.9645, step time: 1.3620
Batch 155/248, train_loss: 0.3482, step time: 1.3851
Batch 156/248, train_loss: 0.3099, step time: 1.3954
Batch 157/248, train_loss: 0.4131, step time: 1.3798
Batch 158/248, train_loss: 0.9988, step time: 1.3638
Batch 159/248, train_loss: 0.9820, step time: 1.3852
Batch 160/248, train_loss: 0.1196, step time: 1.3597
Batch 161/248, train_loss: 0.1439, step time: 1.4002

```
Batch 162/248, train_loss: 0.1883, step time: 1.3986
Batch 163/248, train_loss: 0.6487, step time: 1.3986
Batch 164/248, train_loss: 0.2605, step time: 1.3955
Batch 165/248, train_loss: 0.9947, step time: 1.3640
Batch 166/248, train_loss: 0.3517, step time: 1.3684
Batch 167/248, train_loss: 0.2841, step time: 1.3621
Batch 168/248, train_loss: 0.2457, step time: 1.3943
Batch 169/248, train_loss: 0.1782, step time: 1.3557
Batch 170/248, train_loss: 0.9754, step time: 1.3869
Batch 171/248, train_loss: 0.1191, step time: 1.3893
Batch 172/248, train_loss: 0.9895, step time: 1.3753
Batch 173/248, train_loss: 0.1818, step time: 1.3926
Batch 174/248, train_loss: 0.8899, step time: 1.3895
Batch 175/248, train_loss: 0.2946, step time: 1.3908
Batch 176/248, train_loss: 0.4737, step time: 1.3915
Batch 177/248, train_loss: 0.9470, step time: 1.4120
Batch 178/248, train_loss: 0.4141, step time: 1.3942
Batch 179/248, train_loss: 0.1784, step time: 1.3879
Batch 180/248, train_loss: 0.5269, step time: 1.3924
Batch 181/248, train_loss: 0.1657, step time: 1.3721
Batch 182/248, train_loss: 0.9298, step time: 1.3952
Batch 183/248, train_loss: 0.5076, step time: 1.4020
Batch 184/248, train_loss: 0.8203, step time: 1.3985
Batch 185/248, train_loss: 0.2259, step time: 1.3655
Batch 186/248, train_loss: 0.1523, step time: 1.3659
Batch 187/248, train_loss: 0.2702, step time: 1.3965
Batch 188/248, train_loss: 0.2946, step time: 1.3958
Batch 189/248, train_loss: 0.9979, step time: 1.3544
Batch 190/248, train_loss: 0.2227, step time: 1.3902
Batch 191/248, train_loss: 0.9866, step time: 1.3751
Batch 192/248, train_loss: 0.2958, step time: 1.4013
Batch 193/248, train_loss: 0.4564, step time: 1.3669
Batch 194/248, train_loss: 0.2063, step time: 1.3845
Batch 195/248, train_loss: 0.9901, step time: 1.3698
Batch 196/248, train_loss: 0.9996, step time: 1.3844
Batch 197/248, train_loss: 0.3782, step time: 1.3939
Batch 198/248, train_loss: 0.9998, step time: 1.3445
Batch 199/248, train_loss: 0.3226, step time: 1.3886
Batch 200/248, train_loss: 0.2180, step time: 1.3664
Batch 201/248, train_loss: 0.2016, step time: 1.3664
Batch 202/248, train_loss: 0.4948, step time: 1.3771
Batch 203/248, train_loss: 0.8936, step time: 1.3711
Batch 204/248, train_loss: 0.1439, step time: 1.3574
Batch 205/248, train_loss: 0.5332, step time: 1.3638
Batch 206/248, train_loss: 0.9427, step time: 1.3648
Batch 207/248, train_loss: 0.1614, step time: 1.3648
Batch 208/248, train_loss: 0.2483, step time: 1.3977
Batch 209/248, train_loss: 0.1751, step time: 1.3742
Batch 210/248, train_loss: 0.0984, step time: 1.3884
Batch 211/248, train_loss: 0.2366, step time: 1.3886
Batch 212/248, train_loss: 0.5811, step time: 1.3625
Batch 213/248, train_loss: 0.3043, step time: 1.3964
Batch 214/248, train_loss: 0.1448, step time: 1.3790
Batch 215/248, train_loss: 0.4616, step time: 1.3768
Batch 216/248, train_loss: 0.2486, step time: 1.3721
Batch 217/248, train_loss: 0.5516, step time: 1.3905
Batch 218/248, train_loss: 0.9841, step time: 1.3986
Batch 219/248, train_loss: 0.1316, step time: 1.3727
Batch 220/248, train_loss: 0.3826, step time: 1.3840
Batch 221/248, train_loss: 0.4536, step time: 1.3742
Batch 222/248, train_loss: 0.2510, step time: 1.3732
Batch 223/248, train_loss: 0.0805, step time: 1.3589
Batch 224/248, train_loss: 0.1403, step time: 1.3834
Batch 225/248, train_loss: 0.9438, step time: 1.3856
Batch 226/248, train_loss: 0.6123, step time: 1.3622
Batch 227/248, train_loss: 0.2008, step time: 1.3821
Batch 228/248, train_loss: 0.4220, step time: 1.3908
Batch 229/248, train_loss: 0.2785, step time: 1.3859
Batch 230/248, train_loss: 0.1717, step time: 1.3863
Batch 231/248, train_loss: 0.9967, step time: 1.3518
Batch 232/248, train_loss: 0.1133, step time: 1.3961
Batch 233/248, train_loss: 0.9994, step time: 1.3640
Batch 234/248, train_loss: 0.8857, step time: 1.3996
Batch 235/248, train_loss: 0.7763, step time: 1.3860
Batch 236/248, train_loss: 0.9980, step time: 1.3454
Batch 237/248, train_loss: 0.1994, step time: 1.4030
Batch 238/248, train_loss: 0.1418, step time: 1.3744
Batch 239/248, train_loss: 0.0964, step time: 1.3573
Batch 240/248, train_loss: 0.5116, step time: 1.3857
Batch 241/248, train_loss: 0.9912, step time: 1.3832
Batch 242/248, train_loss: 0.4328, step time: 1.3906
Batch 243/248, train_loss: 0.9112, step time: 1.3855
Batch 244/248, train_loss: 0.7787, step time: 1.4001
Batch 245/248, train_loss: 0.1244, step time: 1.3610
Batch 246/248, train_loss: 0.8822, step time: 1.3823
```

```
   Batch 247/248, train_loss: 0.1125, step time: 1.3928
   Batch 248/248, train_loss: 1.0000, step time: 1.3246
```




```
VAL
   Batch 1/31, val_loss: 0.8561
   Batch 2/31, val_loss: 0.9993
   Batch 3/31, val_loss: 0.9820
   Batch 4/31, val_loss: 0.9651
   Batch 5/31, val_loss: 0.9992
   Batch 6/31, val_loss: 0.7144
   Batch 7/31, val_loss: 0.8510
   Batch 8/31, val_loss: 0.9574
   Batch 9/31, val_loss: 0.7250
   Batch 10/31, val_loss: 0.9263
   Batch 11/31, val_loss: 0.8448
   Batch 12/31, val_loss: 0.9723
   Batch 13/31, val_loss: 0.9846
   Batch 14/31, val_loss: 0.9604
   Batch 15/31, val_loss: 0.9896
   Batch 16/31, val_loss: 0.9817
   Batch 17/31, val_loss: 0.9883
   Batch 18/31, val_loss: 0.9534
   Batch 19/31, val_loss: 0.7826
   Batch 20/31, val_loss: 0.8739
   Batch 21/31, val_loss: 0.8993
   Batch 22/31, val_loss: 0.9965
   Batch 23/31, val_loss: 0.9978
   Batch 24/31, val_loss: 0.7706
   Batch 25/31, val_loss: 0.8157
   Batch 26/31, val_loss: 0.9370
   Batch 27/31, val_loss: 0.9945
   Batch 28/31, val_loss: 0.7639
   Batch 29/31, val_loss: 0.9952
   Batch 30/31, val_loss: 0.9771
   Batch 31/31, val_loss: 0.9784
```



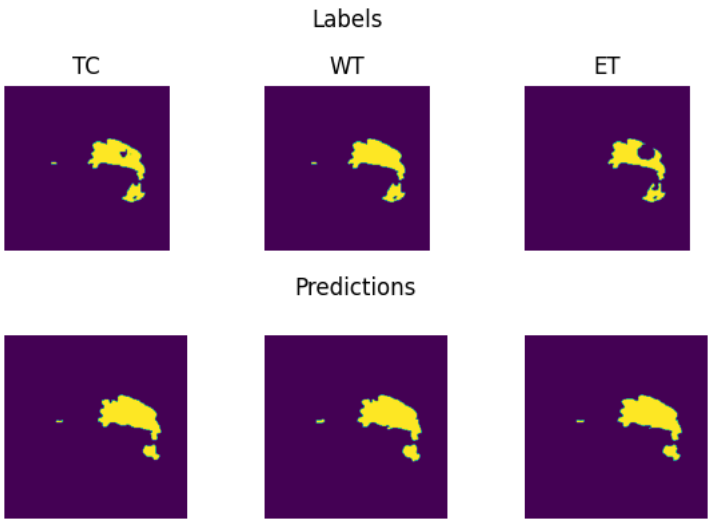

```
epoch 14
   average train loss: 0.4929
   average validation loss: 0.9172
   saved as best model: True
   current mean dice: 0.4136
```

```
   current mean dice: 0.4136
   current TC dice: 0.4337
   current WT dice: 0.4414
   current ET dice: 0.4045
Best Mean Metric: 0.4136
time consuming of epoch 14 is: 1810.1882
----------
epoch 15/100
TRAIN
   Batch 1/248, train_loss: 0.1087, step time: 1.4352
   Batch 2/248, train_loss: 0.9709, step time: 1.4010
   Batch 3/248, train_loss: 0.6687, step time: 1.3626
   Batch 4/248, train_loss: 0.9966, step time: 1.3846
   Batch 5/248, train_loss: 0.3325, step time: 1.3811
   Batch 6/248, train_loss: 0.6942, step time: 1.3926
   Batch 7/248, train_loss: 0.1267, step time: 1.3569
   Batch 8/248, train_loss: 0.7255, step time: 1.3701
   Batch 9/248, train_loss: 0.0695, step time: 1.3598
   Batch 10/248, train_loss: 0.4272, step time: 1.3915
   Batch 11/248, train_loss: 0.4104, step time: 1.3944
   Batch 12/248, train_loss: 0.8547, step time: 1.3621
   Batch 13/248, train_loss: 0.6788, step time: 1.3876
   Batch 14/248, train_loss: 0.0779, step time: 1.3682
   Batch 15/248, train_loss: 0.4989, step time: 1.3627
   Batch 16/248, train_loss: 0.2573, step time: 1.3842
   Batch 17/248, train_loss: 0.9488, step time: 1.3841
   Batch 18/248, train_loss: 0.7091, step time: 1.3931
   Batch 19/248, train_loss: 0.2524, step time: 1.3826
   Batch 20/248, train_loss: 0.2626, step time: 1.3777
   Batch 21/248, train_loss: 0.1106, step time: 1.3639
   Batch 22/248, train_loss: 0.9973, step time: 1.3858
   Batch 23/248, train_loss: 0.9925, step time: 1.3589
   Batch 24/248, train_loss: 0.1476, step time: 1.3805
   Batch 25/248, train_loss: 0.0975, step time: 1.3771
   Batch 26/248, train_loss: 0.8063, step time: 1.3944
   Batch 27/248, train_loss: 0.0834, step time: 1.3877
   Batch 28/248, train_loss: 0.2599, step time: 1.3976
   Batch 29/248, train_loss: 0.7971, step time: 1.3767
   Batch 30/248, train_loss: 0.3616, step time: 1.3703
   Batch 31/248, train_loss: 0.5661, step time: 1.3880
   Batch 32/248, train_loss: 0.1357, step time: 1.3684
   Batch 33/248, train_loss: 0.1255, step time: 1.3678
   Batch 34/248, train_loss: 0.0684, step time: 1.3918
   Batch 35/248, train_loss: 0.1028, step time: 1.3817
   Batch 36/248, train_loss: 0.9989, step time: 1.3782
   Batch 37/248, train_loss: 0.2545, step time: 1.3625
   Batch 38/248, train_loss: 0.4492, step time: 1.3686
   Batch 39/248, train_loss: 0.3069, step time: 1.3912
   Batch 40/248, train_loss: 0.9995, step time: 1.3770
   Batch 41/248, train_loss: 0.2135, step time: 1.3859
   Batch 42/248, train_loss: 0.1037, step time: 1.3619
   Batch 43/248, train_loss: 0.0944, step time: 1.3920
   Batch 44/248, train_loss: 0.4724, step time: 1.3948
   Batch 45/248, train_loss: 0.7481, step time: 1.3667
   Batch 46/248, train_loss: 0.2943, step time: 1.3760
   Batch 47/248, train_loss: 0.1748, step time: 1.3721
   Batch 48/248, train_loss: 0.3017, step time: 1.3737
   Batch 49/248, train_loss: 0.6662, step time: 1.3710
   Batch 50/248, train_loss: 0.2706, step time: 1.3625
   Batch 51/248, train_loss: 0.3077, step time: 1.3643
   Batch 52/248, train_loss: 0.2194, step time: 1.4090
   Batch 53/248, train_loss: 0.5501, step time: 1.4092
   Batch 54/248, train_loss: 0.3227, step time: 1.3993
   Batch 55/248, train_loss: 0.4405, step time: 1.3842
   Batch 56/248, train_loss: 0.3825, step time: 1.4004
   Batch 57/248, train_loss: 0.3738, step time: 1.3601
   Batch 58/248, train_loss: 0.1183, step time: 1.3501
   Batch 59/248, train_loss: 0.1461, step time: 1.3530
   Batch 60/248, train_loss: 0.1113, step time: 1.3589
   Batch 61/248, train_loss: 0.1524, step time: 1.3606
   Batch 62/248, train_loss: 0.4224, step time: 1.3755
   Batch 63/248, train_loss: 0.8950, step time: 1.3603
   Batch 64/248, train_loss: 0.8439, step time: 1.3904
   Batch 65/248, train_loss: 0.6178, step time: 1.3933
   Batch 66/248, train_loss: 0.2694, step time: 1.3874
   Batch 67/248, train_loss: 0.1350, step time: 1.3656
   Batch 68/248, train_loss: 0.1473, step time: 1.4094
   Batch 69/248, train_loss: 0.9978, step time: 1.4001
   Batch 70/248, train_loss: 0.2257, step time: 1.3899
   Batch 71/248, train_loss: 0.1474, step time: 1.3723
   Batch 72/248, train_loss: 0.0750, step time: 1.3730
   Batch 73/248, train_loss: 0.1944, step time: 1.3712
   Batch 74/248, train_loss: 0.9968, step time: 1.3867
   Batch 75/248, train_loss: 0.2070, step time: 1.3643
   Batch 76/248, train_loss: 0.8840, step time: 1.3880
```

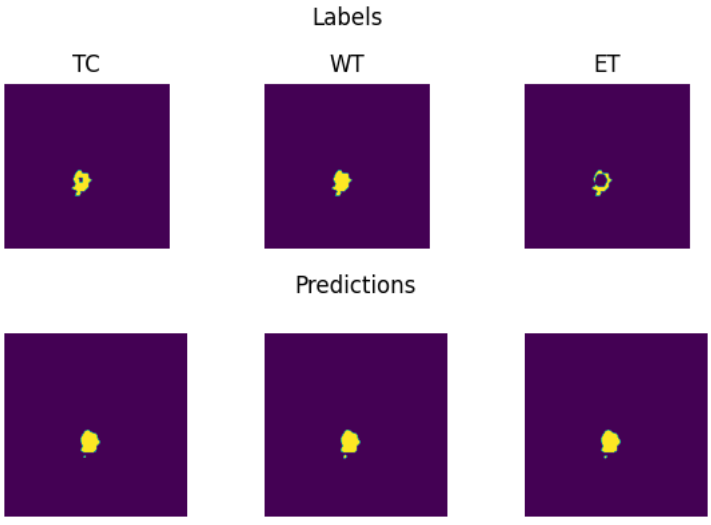
```
Batch 77/248, train_loss: 0.9938, step time: 1.3571
Batch 78/248, train_loss: 0.1573, step time: 1.3990
Batch 79/248, train_loss: 0.2183, step time: 1.3830
Batch 80/248, train_loss: 0.2978, step time: 1.3786
Batch 81/248, train_loss: 0.3445, step time: 1.3896
Batch 82/248, train_loss: 0.1472, step time: 1.3858
Batch 83/248, train_loss: 0.9456, step time: 1.4005
Batch 84/248, train_loss: 0.3897, step time: 1.3752
Batch 85/248, train_loss: 0.9205, step time: 1.3610
Batch 86/248, train_loss: 0.3202, step time: 1.3479
Batch 87/248, train_loss: 0.8911, step time: 1.3999
Batch 88/248, train_loss: 0.7123, step time: 1.3966
Batch 89/248, train_loss: 0.1382, step time: 1.3888
Batch 90/248, train_loss: 0.4606, step time: 1.4134
Batch 91/248, train_loss: 0.8332, step time: 1.3949
Batch 92/248, train_loss: 0.6959, step time: 1.4110
Batch 93/248, train_loss: 0.2253, step time: 1.4128
Batch 94/248, train_loss: 0.7819, step time: 1.3711
Batch 95/248, train_loss: 0.2308, step time: 1.3635
Batch 96/248, train_loss: 0.2982, step time: 1.3939
Batch 97/248, train_loss: 0.9995, step time: 1.3449
Batch 98/248, train_loss: 0.2296, step time: 1.3806
Batch 99/248, train_loss: 0.6169, step time: 1.3700
Batch 100/248, train_loss: 0.8840, step time: 1.3909
Batch 101/248, train_loss: 0.0907, step time: 1.3609
Batch 102/248, train_loss: 0.2164, step time: 1.3868
Batch 103/248, train_loss: 0.9183, step time: 1.3660
Batch 104/248, train_loss: 0.3629, step time: 1.3835
Batch 105/248, train_loss: 0.1075, step time: 1.3653
Batch 106/248, train_loss: 0.2762, step time: 1.3827
Batch 107/248, train_loss: 0.8806, step time: 1.3685
Batch 108/248, train_loss: 0.8725, step time: 1.3733
Batch 109/248, train_loss: 0.9926, step time: 1.3883
Batch 110/248, train_loss: 0.7506, step time: 1.3740
Batch 111/248, train_loss: 0.1375, step time: 1.4015
Batch 112/248, train_loss: 0.1959, step time: 1.3941
Batch 113/248, train_loss: 0.9985, step time: 1.3607
Batch 114/248, train_loss: 0.1831, step time: 1.3551
Batch 115/248, train_loss: 0.3219, step time: 1.3893
Batch 116/248, train_loss: 0.1226, step time: 1.3601
Batch 117/248, train_loss: 0.9398, step time: 1.3818
Batch 118/248, train_loss: 0.9494, step time: 1.3712
Batch 119/248, train_loss: 0.4627, step time: 1.3942
Batch 120/248, train_loss: 0.3317, step time: 1.3916
Batch 121/248, train_loss: 0.5117, step time: 1.3963
Batch 122/248, train_loss: 0.6253, step time: 1.4031
Batch 123/248, train_loss: 0.0830, step time: 1.3912
Batch 124/248, train_loss: 0.5647, step time: 1.3805
Batch 125/248, train_loss: 0.9473, step time: 1.3786
Batch 126/248, train_loss: 0.3485, step time: 1.3983
Batch 127/248, train_loss: 0.1967, step time: 1.3624
Batch 128/248, train_loss: 0.4009, step time: 1.3978
Batch 129/248, train_loss: 0.1631, step time: 1.3931
Batch 130/248, train_loss: 0.2080, step time: 1.3538
Batch 131/248, train_loss: 0.7929, step time: 1.3589
Batch 132/248, train_loss: 0.4855, step time: 1.3825
Batch 133/248, train_loss: 0.5557, step time: 1.3635
Batch 134/248, train_loss: 0.9993, step time: 1.3773
Batch 135/248, train_loss: 0.5560, step time: 1.3935
Batch 136/248, train_loss: 0.2849, step time: 1.3804
Batch 137/248, train_loss: 0.1567, step time: 1.3670
Batch 138/248, train_loss: 0.1129, step time: 1.3657
Batch 139/248, train_loss: 0.2339, step time: 1.3803
Batch 140/248, train_loss: 0.4081, step time: 1.3785
Batch 141/248, train_loss: 0.2231, step time: 1.3679
Batch 142/248, train_loss: 0.8843, step time: 1.3919
Batch 143/248, train_loss: 0.3910, step time: 1.4006
Batch 144/248, train_loss: 0.1339, step time: 1.3910
Batch 145/248, train_loss: 0.0801, step time: 1.3511
Batch 146/248, train_loss: 0.8950, step time: 1.3619
Batch 147/248, train_loss: 0.0648, step time: 1.3668
Batch 148/248, train_loss: 0.9647, step time: 1.3880
Batch 149/248, train_loss: 0.2110, step time: 1.3951
Batch 150/248, train_loss: 0.6723, step time: 1.3926
Batch 151/248, train_loss: 0.8704, step time: 1.3788
Batch 152/248, train_loss: 0.0593, step time: 1.3944
Batch 153/248, train_loss: 0.4921, step time: 1.4086
Batch 154/248, train_loss: 0.8903, step time: 1.3894
Batch 155/248, train_loss: 0.1547, step time: 1.3790
Batch 156/248, train_loss: 0.3314, step time: 1.3926
Batch 157/248, train_loss: 0.3711, step time: 1.3947
Batch 158/248, train_loss: 0.9817, step time: 1.3632
Batch 159/248, train_loss: 0.8508, step time: 1.3710
Batch 160/248, train_loss: 0.1400, step time: 1.3917
Batch 161/248, train_loss: 0.1373, step time: 1.4004
```

```
Batch 162/248, train_loss: 0.1530, step time: 1.4064
Batch 163/248, train_loss: 0.4715, step time: 1.3709
Batch 164/248, train_loss: 0.3789, step time: 1.3905
Batch 165/248, train_loss: 0.9935, step time: 1.3854
Batch 166/248, train_loss: 0.4948, step time: 1.4006
Batch 167/248, train_loss: 0.2644, step time: 1.3833
Batch 168/248, train_loss: 0.2513, step time: 1.3848
Batch 169/248, train_loss: 0.1651, step time: 1.3865
Batch 170/248, train_loss: 0.9154, step time: 1.3923
Batch 171/248, train_loss: 0.1075, step time: 1.3689
Batch 172/248, train_loss: 0.9990, step time: 1.3607
Batch 173/248, train_loss: 0.1987, step time: 1.3894
Batch 174/248, train_loss: 0.9338, step time: 1.3667
Batch 175/248, train_loss: 0.3317, step time: 1.3855
Batch 176/248, train_loss: 0.4697, step time: 1.3663
Batch 177/248, train_loss: 0.9250, step time: 1.4007
Batch 178/248, train_loss: 0.2813, step time: 1.3917
Batch 179/248, train_loss: 0.1622, step time: 1.3884
Batch 180/248, train_loss: 0.4528, step time: 1.3702
Batch 181/248, train_loss: 0.1432, step time: 1.3888
Batch 182/248, train_loss: 0.9248, step time: 1.3546
Batch 183/248, train_loss: 0.5210, step time: 1.3694
Batch 184/248, train_loss: 0.8014, step time: 1.3861
Batch 185/248, train_loss: 0.2062, step time: 1.3834
Batch 186/248, train_loss: 0.1698, step time: 1.3657
Batch 187/248, train_loss: 0.2875, step time: 1.3575
Batch 188/248, train_loss: 0.2849, step time: 1.3548
Batch 189/248, train_loss: 0.9989, step time: 1.3545
Batch 190/248, train_loss: 0.2007, step time: 1.3860
Batch 191/248, train_loss: 0.9968, step time: 1.3795
Batch 192/248, train_loss: 0.3347, step time: 1.3959
Batch 193/248, train_loss: 0.4104, step time: 1.3536
Batch 194/248, train_loss: 0.1867, step time: 1.3928
Batch 195/248, train_loss: 0.9965, step time: 1.3700
Batch 196/248, train_loss: 0.9998, step time: 1.3525
Batch 197/248, train_loss: 0.3368, step time: 1.3618
Batch 198/248, train_loss: 0.9998, step time: 1.3436
Batch 199/248, train_loss: 0.3609, step time: 1.4032
Batch 200/248, train_loss: 0.1967, step time: 1.3533
Batch 201/248, train_loss: 0.1930, step time: 1.3533
Batch 202/248, train_loss: 0.6317, step time: 1.3843
Batch 203/248, train_loss: 0.9067, step time: 1.3842
Batch 204/248, train_loss: 0.1360, step time: 1.3723
Batch 205/248, train_loss: 0.6454, step time: 1.3958
Batch 206/248, train_loss: 0.9002, step time: 1.3849
Batch 207/248, train_loss: 0.1664, step time: 1.3820
Batch 208/248, train_loss: 0.2370, step time: 1.3582
Batch 209/248, train_loss: 0.1806, step time: 1.3806
Batch 210/248, train_loss: 0.1000, step time: 1.3759
Batch 211/248, train_loss: 0.1215, step time: 1.3636
Batch 212/248, train_loss: 0.8776, step time: 1.3836
Batch 213/248, train_loss: 0.2693, step time: 1.3665
Batch 214/248, train_loss: 0.1460, step time: 1.3655
Batch 215/248, train_loss: 0.5018, step time: 1.3735
Batch 216/248, train_loss: 0.3225, step time: 1.4049
Batch 217/248, train_loss: 0.5194, step time: 1.3783
Batch 218/248, train_loss: 0.9931, step time: 1.4021
Batch 219/248, train_loss: 0.1686, step time: 1.3734
Batch 220/248, train_loss: 0.3348, step time: 1.3700
Batch 221/248, train_loss: 0.4717, step time: 1.3800
Batch 222/248, train_loss: 0.3208, step time: 1.4029
Batch 223/248, train_loss: 0.0697, step time: 1.3860
Batch 224/248, train_loss: 0.1357, step time: 1.3512
Batch 225/248, train_loss: 0.9472, step time: 1.3829
Batch 226/248, train_loss: 0.5778, step time: 1.3594
Batch 227/248, train_loss: 0.1884, step time: 1.3627
Batch 228/248, train_loss: 0.3890, step time: 1.3562
Batch 229/248, train_loss: 0.1554, step time: 1.3791
Batch 230/248, train_loss: 0.1365, step time: 1.3891
Batch 231/248, train_loss: 0.9949, step time: 1.3691
Batch 232/248, train_loss: 0.1443, step time: 1.3782
Batch 233/248, train_loss: 0.9995, step time: 1.3720
Batch 234/248, train_loss: 0.9341, step time: 1.3742
Batch 235/248, train_loss: 0.7507, step time: 1.3899
Batch 236/248, train_loss: 0.9949, step time: 1.3856
Batch 237/248, train_loss: 0.2141, step time: 1.3710
Batch 238/248, train_loss: 0.1267, step time: 1.3684
Batch 239/248, train_loss: 0.1539, step time: 1.3747
Batch 240/248, train_loss: 0.6289, step time: 1.3940
Batch 241/248, train_loss: 0.9963, step time: 1.3465
Batch 242/248, train_loss: 0.3561, step time: 1.3541
Batch 243/248, train_loss: 0.9424, step time: 1.3640
Batch 244/248, train_loss: 0.7045, step time: 1.3736
Batch 245/248, train_loss: 0.1403, step time: 1.3854
Batch 246/248, train_loss: 0.8685, step time: 1.3590
```

```
   Batch 247/248, train_loss: 0.1119, step time: 1.3615
   Batch 248/248, train_loss: 1.0000, step time: 1.3495
```




```
VAL
   Batch 1/31, val_loss: 0.8857
   Batch 2/31, val_loss: 0.9990
   Batch 3/31, val_loss: 0.9830
   Batch 4/31, val_loss: 0.9633
   Batch 5/31, val_loss: 0.9997
   Batch 6/31, val_loss: 0.7217
   Batch 7/31, val_loss: 0.8577
   Batch 8/31, val_loss: 0.9528
   Batch 9/31, val_loss: 0.7166
   Batch 10/31, val_loss: 0.9282
   Batch 11/31, val_loss: 0.8404
   Batch 12/31, val_loss: 0.9735
   Batch 13/31, val_loss: 0.9887
   Batch 14/31, val_loss: 0.9690
   Batch 15/31, val_loss: 0.9894
   Batch 16/31, val_loss: 0.9837
   Batch 17/31, val_loss: 0.9890
   Batch 18/31, val_loss: 0.9499
   Batch 19/31, val_loss: 0.7794
   Batch 20/31, val_loss: 0.8960
   Batch 21/31, val_loss: 0.9108
   Batch 22/31, val_loss: 0.9961
   Batch 23/31, val_loss: 0.9964
   Batch 24/31, val_loss: 0.7558
   Batch 25/31, val_loss: 0.8163
   Batch 26/31, val_loss: 0.9306
   Batch 27/31, val_loss: 0.9946
   Batch 28/31, val_loss: 0.7609
   Batch 29/31, val_loss: 0.9940
   Batch 30/31, val_loss: 0.9747
   Batch 31/31, val_loss: 0.9788
```



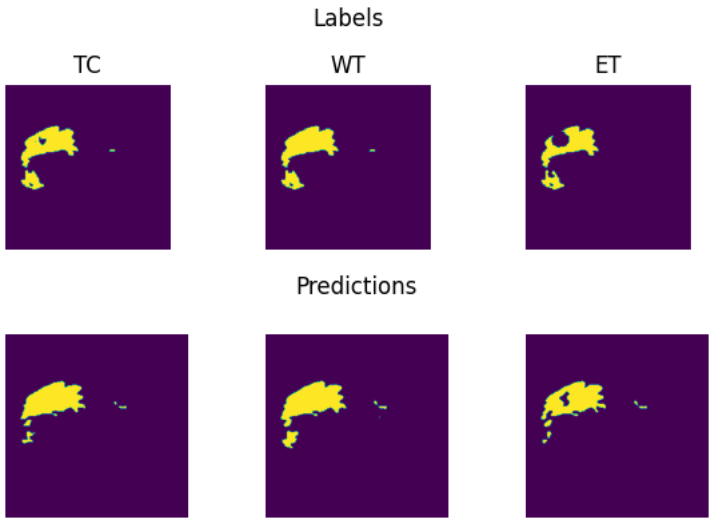

```
epoch 15
   average train loss: 0.4663
   average validation loss: 0.9186
   saved as best model: False
```

```
   current mean dice: 0.4014
   current TC dice: 0.4214
   current WT dice: 0.4289
   current ET dice: 0.3913
Best Mean Metric: 0.4136
time consuming of epoch 15 is: 1726.3703
----------
epoch 16/100
TRAIN
   Batch 1/248, train_loss: 0.0982, step time: 1.4568
   Batch 2/248, train_loss: 0.9876, step time: 1.3916
   Batch 3/248, train_loss: 0.6534, step time: 1.3893
   Batch 4/248, train_loss: 0.9970, step time: 1.3744
   Batch 5/248, train_loss: 0.4491, step time: 1.3821
   Batch 6/248, train_loss: 0.6770, step time: 1.3913
   Batch 7/248, train_loss: 0.1215, step time: 1.3937
   Batch 8/248, train_loss: 0.7235, step time: 1.3942
   Batch 9/248, train_loss: 0.0646, step time: 1.3994
   Batch 10/248, train_loss: 0.4059, step time: 1.4093
   Batch 11/248, train_loss: 0.3509, step time: 1.3833
   Batch 12/248, train_loss: 0.8417, step time: 1.4114
   Batch 13/248, train_loss: 0.5374, step time: 1.3763
   Batch 14/248, train_loss: 0.0710, step time: 1.3859
   Batch 15/248, train_loss: 0.4609, step time: 1.3537
   Batch 16/248, train_loss: 0.2611, step time: 1.3914
   Batch 17/248, train_loss: 0.8741, step time: 1.3637
   Batch 18/248, train_loss: 0.6650, step time: 1.3812
   Batch 19/248, train_loss: 0.3581, step time: 1.3786
   Batch 20/248, train_loss: 0.3702, step time: 1.3789
   Batch 21/248, train_loss: 0.1247, step time: 1.3872
   Batch 22/248, train_loss: 0.9966, step time: 1.3547
   Batch 23/248, train_loss: 0.9875, step time: 1.3771
   Batch 24/248, train_loss: 0.1337, step time: 1.3740
   Batch 25/248, train_loss: 0.1096, step time: 1.3979
   Batch 26/248, train_loss: 0.7957, step time: 1.4059
   Batch 27/248, train_loss: 0.0887, step time: 1.3615
   Batch 28/248, train_loss: 0.2343, step time: 1.3763
   Batch 29/248, train_loss: 0.7767, step time: 1.4026
   Batch 30/248, train_loss: 0.3314, step time: 1.3670
   Batch 31/248, train_loss: 0.5257, step time: 1.3865
   Batch 32/248, train_loss: 0.1193, step time: 1.3832
   Batch 33/248, train_loss: 0.1092, step time: 1.3511
   Batch 34/248, train_loss: 0.0597, step time: 1.3645
   Batch 35/248, train_loss: 0.1041, step time: 1.3563
   Batch 36/248, train_loss: 0.9983, step time: 1.3865
   Batch 37/248, train_loss: 0.2570, step time: 1.3616
   Batch 38/248, train_loss: 0.4809, step time: 1.3801
   Batch 39/248, train_loss: 0.3139, step time: 1.3702
   Batch 40/248, train_loss: 0.9996, step time: 1.3482
   Batch 41/248, train_loss: 0.2477, step time: 1.3793
   Batch 42/248, train_loss: 0.1149, step time: 1.3709
   Batch 43/248, train_loss: 0.0893, step time: 1.3621
   Batch 44/248, train_loss: 0.4706, step time: 1.3919
   Batch 45/248, train_loss: 0.7917, step time: 1.3749
   Batch 46/248, train_loss: 0.2848, step time: 1.3672
   Batch 47/248, train_loss: 0.1346, step time: 1.3992
   Batch 48/248, train_loss: 0.3635, step time: 1.3729
   Batch 49/248, train_loss: 0.6412, step time: 1.3592
   Batch 50/248, train_loss: 0.2702, step time: 1.3750
   Batch 51/248, train_loss: 0.2571, step time: 1.3893
   Batch 52/248, train_loss: 0.2159, step time: 1.3687
   Batch 53/248, train_loss: 0.5562, step time: 1.3791
   Batch 54/248, train_loss: 0.2909, step time: 1.3686
   Batch 55/248, train_loss: 0.3950, step time: 1.3875
   Batch 56/248, train_loss: 0.3391, step time: 1.3737
   Batch 57/248, train_loss: 0.3647, step time: 1.3687
   Batch 58/248, train_loss: 0.1207, step time: 1.3561
   Batch 59/248, train_loss: 0.1438, step time: 1.3528
   Batch 60/248, train_loss: 0.1055, step time: 1.3920
   Batch 61/248, train_loss: 0.1619, step time: 1.3712
   Batch 62/248, train_loss: 0.3929, step time: 1.3891
   Batch 63/248, train_loss: 0.8729, step time: 1.3515
   Batch 64/248, train_loss: 0.7948, step time: 1.3914
   Batch 65/248, train_loss: 0.4578, step time: 1.3887
   Batch 66/248, train_loss: 0.2377, step time: 1.3993
   Batch 67/248, train_loss: 0.1379, step time: 1.3790
   Batch 68/248, train_loss: 0.1427, step time: 1.3886
   Batch 69/248, train_loss: 0.9873, step time: 1.3861
   Batch 70/248, train_loss: 0.2114, step time: 1.3688
   Batch 71/248, train_loss: 0.2252, step time: 1.3722
   Batch 72/248, train_loss: 0.0799, step time: 1.3782
   Batch 73/248, train_loss: 0.1996, step time: 1.3805
   Batch 74/248, train_loss: 0.9982, step time: 1.3481
   Batch 75/248, train_loss: 0.1832, step time: 1.3759
   Batch 76/248, train_loss: 0.9772, step time: 1.3708
```

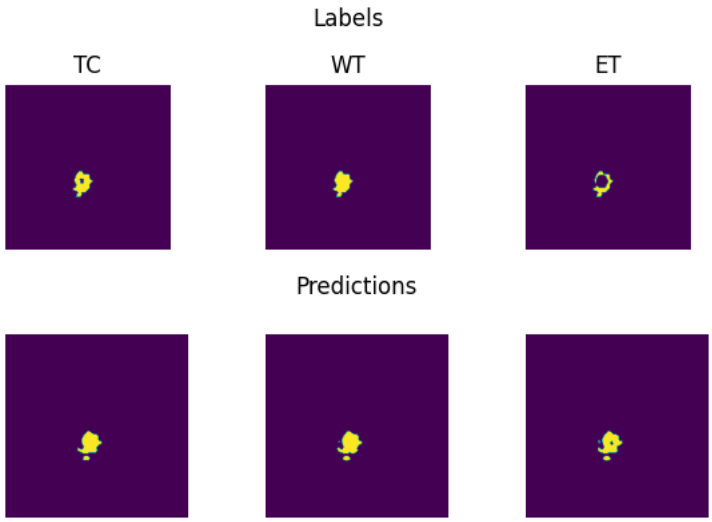
```
Batch 77/248, train_loss: 0.9911, step time: 1.3662
Batch 78/248, train_loss: 0.1878, step time: 1.4013
Batch 79/248, train_loss: 0.1849, step time: 1.3846
Batch 80/248, train_loss: 0.2966, step time: 1.3997
Batch 81/248, train_loss: 0.3003, step time: 1.3928
Batch 82/248, train_loss: 0.1476, step time: 1.3999
Batch 83/248, train_loss: 0.9552, step time: 1.3784
Batch 84/248, train_loss: 0.3343, step time: 1.3840
Batch 85/248, train_loss: 0.9611, step time: 1.3743
Batch 86/248, train_loss: 0.5322, step time: 1.3864
Batch 87/248, train_loss: 0.9646, step time: 1.3867
Batch 88/248, train_loss: 0.6362, step time: 1.3736
Batch 89/248, train_loss: 0.1158, step time: 1.3560
Batch 90/248, train_loss: 0.6190, step time: 1.3697
Batch 91/248, train_loss: 0.6840, step time: 1.3959
Batch 92/248, train_loss: 0.8304, step time: 1.3890
Batch 93/248, train_loss: 0.2660, step time: 1.3936
Batch 94/248, train_loss: 0.7075, step time: 1.3967
Batch 95/248, train_loss: 0.2713, step time: 1.4008
Batch 96/248, train_loss: 0.5155, step time: 1.3843
Batch 97/248, train_loss: 0.9916, step time: 1.3730
Batch 98/248, train_loss: 0.2931, step time: 1.3777
Batch 99/248, train_loss: 0.5330, step time: 1.3979
Batch 100/248, train_loss: 0.7906, step time: 1.3994
Batch 101/248, train_loss: 0.0836, step time: 1.3859
Batch 102/248, train_loss: 0.2295, step time: 1.3634
Batch 103/248, train_loss: 0.9368, step time: 1.3828
Batch 104/248, train_loss: 0.3574, step time: 1.3754
Batch 105/248, train_loss: 0.1123, step time: 1.3921
Batch 106/248, train_loss: 0.2337, step time: 1.3810
Batch 107/248, train_loss: 0.8647, step time: 1.4108
Batch 108/248, train_loss: 0.8041, step time: 1.3912
Batch 109/248, train_loss: 0.9947, step time: 1.3838
Batch 110/248, train_loss: 0.5996, step time: 1.4045
Batch 111/248, train_loss: 0.1539, step time: 1.3851
Batch 112/248, train_loss: 0.1698, step time: 1.3682
Batch 113/248, train_loss: 0.9990, step time: 1.3472
Batch 114/248, train_loss: 0.2044, step time: 1.3729
Batch 115/248, train_loss: 0.2467, step time: 1.3827
Batch 116/248, train_loss: 0.1071, step time: 1.3579
Batch 117/248, train_loss: 0.9417, step time: 1.3925
Batch 118/248, train_loss: 0.9948, step time: 1.3595
Batch 119/248, train_loss: 0.3808, step time: 1.3778
Batch 120/248, train_loss: 0.3577, step time: 1.3958
Batch 121/248, train_loss: 0.4107, step time: 1.3918
Batch 122/248, train_loss: 0.6716, step time: 1.3788
Batch 123/248, train_loss: 0.0988, step time: 1.3636
Batch 124/248, train_loss: 0.8288, step time: 1.3724
Batch 125/248, train_loss: 0.9787, step time: 1.3804
Batch 126/248, train_loss: 0.3043, step time: 1.3824
Batch 127/248, train_loss: 0.2011, step time: 1.3860
Batch 128/248, train_loss: 0.5430, step time: 1.3768
Batch 129/248, train_loss: 0.1747, step time: 1.3612
Batch 130/248, train_loss: 0.1822, step time: 1.3586
Batch 131/248, train_loss: 0.8458, step time: 1.3825
Batch 132/248, train_loss: 0.5275, step time: 1.3649
Batch 133/248, train_loss: 0.3059, step time: 1.3811
Batch 134/248, train_loss: 0.9992, step time: 1.3510
Batch 135/248, train_loss: 0.6094, step time: 1.4061
Batch 136/248, train_loss: 0.3100, step time: 1.3955
Batch 137/248, train_loss: 0.2274, step time: 1.3824
Batch 138/248, train_loss: 0.1032, step time: 1.3925
Batch 139/248, train_loss: 0.2706, step time: 1.3885
Batch 140/248, train_loss: 0.3082, step time: 1.3842
Batch 141/248, train_loss: 0.3040, step time: 1.3994
Batch 142/248, train_loss: 0.9856, step time: 1.3837
Batch 143/248, train_loss: 0.3719, step time: 1.3744
Batch 144/248, train_loss: 0.1359, step time: 1.3774
Batch 145/248, train_loss: 0.0859, step time: 1.3840
Batch 146/248, train_loss: 0.9804, step time: 1.3894
Batch 147/248, train_loss: 0.0781, step time: 1.3894
Batch 148/248, train_loss: 0.9574, step time: 1.3619
Batch 149/248, train_loss: 0.2493, step time: 1.3877
Batch 150/248, train_loss: 0.6810, step time: 1.4009
Batch 151/248, train_loss: 0.9366, step time: 1.3687
Batch 152/248, train_loss: 0.0683, step time: 1.3854
Batch 153/248, train_loss: 0.6005, step time: 1.3732
Batch 154/248, train_loss: 0.9187, step time: 1.3734
Batch 155/248, train_loss: 0.1715, step time: 1.4012
Batch 156/248, train_loss: 0.2659, step time: 1.3910
Batch 157/248, train_loss: 0.3869, step time: 1.3629
Batch 158/248, train_loss: 0.9932, step time: 1.3591
Batch 159/248, train_loss: 0.9281, step time: 1.3588
Batch 160/248, train_loss: 0.1275, step time: 1.4005
Batch 161/248, train_loss: 0.1169, step time: 1.3612
```

Batch 162/248, train_loss: 0.1103, step time: 1.3672
Batch 163/248, train_loss: 0.3937, step time: 1.4048
Batch 164/248, train_loss: 0.2503, step time: 1.3728
Batch 165/248, train_loss: 0.9953, step time: 1.3973
Batch 166/248, train_loss: 0.2467, step time: 1.3745
Batch 167/248, train_loss: 0.2640, step time: 1.3989
Batch 168/248, train_loss: 0.2733, step time: 1.3948
Batch 169/248, train_loss: 0.1475, step time: 1.3893
Batch 170/248, train_loss: 0.8842, step time: 1.3658
Batch 171/248, train_loss: 0.1367, step time: 1.3495
Batch 172/248, train_loss: 0.9506, step time: 1.3800
Batch 173/248, train_loss: 0.1790, step time: 1.3967
Batch 174/248, train_loss: 0.8699, step time: 1.3811
Batch 175/248, train_loss: 0.2161, step time: 1.3598
Batch 176/248, train_loss: 0.4655, step time: 1.3744
Batch 177/248, train_loss: 0.8742, step time: 1.3788
Batch 178/248, train_loss: 0.2795, step time: 1.3829
Batch 179/248, train_loss: 0.1357, step time: 1.3953
Batch 180/248, train_loss: 0.4659, step time: 1.3723
Batch 181/248, train_loss: 0.1499, step time: 1.3567
Batch 182/248, train_loss: 0.9217, step time: 1.3686
Batch 183/248, train_loss: 0.3753, step time: 1.3938
Batch 184/248, train_loss: 0.5676, step time: 1.3862
Batch 185/248, train_loss: 0.1668, step time: 1.3660
Batch 186/248, train_loss: 0.1567, step time: 1.3957
Batch 187/248, train_loss: 0.2395, step time: 1.3671
Batch 188/248, train_loss: 0.2451, step time: 1.3623
Batch 189/248, train_loss: 0.9313, step time: 1.3980
Batch 190/248, train_loss: 0.1853, step time: 1.3940
Batch 191/248, train_loss: 0.8763, step time: 1.3823
Batch 192/248, train_loss: 0.3960, step time: 1.3800
Batch 193/248, train_loss: 0.4234, step time: 1.3809
Batch 194/248, train_loss: 0.1498, step time: 1.3929
Batch 195/248, train_loss: 0.8814, step time: 1.3562
Batch 196/248, train_loss: 0.9995, step time: 1.3425
Batch 197/248, train_loss: 0.3085, step time: 1.3713
Batch 198/248, train_loss: 0.9997, step time: 1.3676
Batch 199/248, train_loss: 0.1999, step time: 1.3942
Batch 200/248, train_loss: 0.1875, step time: 1.3675
Batch 201/248, train_loss: 0.1568, step time: 1.3689
Batch 202/248, train_loss: 0.5855, step time: 1.3877
Batch 203/248, train_loss: 0.8416, step time: 1.3601
Batch 204/248, train_loss: 0.1061, step time: 1.3755
Batch 205/248, train_loss: 0.4065, step time: 1.3825
Batch 206/248, train_loss: 0.8939, step time: 1.3705
Batch 207/248, train_loss: 0.1666, step time: 1.4032
Batch 208/248, train_loss: 0.3165, step time: 1.4015
Batch 209/248, train_loss: 0.2077, step time: 1.3754
Batch 210/248, train_loss: 0.0928, step time: 1.3596
Batch 211/248, train_loss: 0.1127, step time: 1.3959
Batch 212/248, train_loss: 0.5928, step time: 1.3945
Batch 213/248, train_loss: 0.2568, step time: 1.3912
Batch 214/248, train_loss: 0.1293, step time: 1.3540
Batch 215/248, train_loss: 0.4792, step time: 1.3619
Batch 216/248, train_loss: 0.3022, step time: 1.3959
Batch 217/248, train_loss: 0.4592, step time: 1.3691
Batch 218/248, train_loss: 0.9832, step time: 1.3780
Batch 219/248, train_loss: 0.1231, step time: 1.4001
Batch 220/248, train_loss: 0.3033, step time: 1.4080
Batch 221/248, train_loss: 0.3931, step time: 1.3926
Batch 222/248, train_loss: 0.2179, step time: 1.3777
Batch 223/248, train_loss: 0.0675, step time: 1.3791
Batch 224/248, train_loss: 0.1421, step time: 1.3848
Batch 225/248, train_loss: 0.9415, step time: 1.3932
Batch 226/248, train_loss: 0.5980, step time: 1.3706
Batch 227/248, train_loss: 0.2090, step time: 1.3828
Batch 228/248, train_loss: 0.2680, step time: 1.3648
Batch 229/248, train_loss: 0.2415, step time: 1.3884
Batch 230/248, train_loss: 0.1600, step time: 1.3875
Batch 231/248, train_loss: 0.9830, step time: 1.3966
Batch 232/248, train_loss: 0.1167, step time: 1.3790
Batch 233/248, train_loss: 0.9994, step time: 1.3536
Batch 234/248, train_loss: 0.7769, step time: 1.3692
Batch 235/248, train_loss: 0.6490, step time: 1.3774
Batch 236/248, train_loss: 0.9982, step time: 1.3576
Batch 237/248, train_loss: 0.1931, step time: 1.3719
Batch 238/248, train_loss: 0.1341, step time: 1.3965
Batch 239/248, train_loss: 0.1569, step time: 1.3988
Batch 240/248, train_loss: 0.5503, step time: 1.3890
Batch 241/248, train_loss: 0.9674, step time: 1.3894
Batch 242/248, train_loss: 0.3148, step time: 1.3841
Batch 243/248, train_loss: 0.8053, step time: 1.3825
Batch 244/248, train_loss: 0.6030, step time: 1.3521
Batch 245/248, train_loss: 0.1150, step time: 1.3639

```
Batch 246/248, train_loss: 0.8217, step time: 1.3841
Batch 247/248, train_loss: 0.1249, step time: 1.3693
Batch 248/248, train_loss: 0.9999, step time: 1.3458
```




```
VAL
   Batch 1/31, val_loss: 0.8667
   Batch 2/31, val_loss: 0.9988
   Batch 3/31, val_loss: 0.9770
   Batch 4/31, val_loss: 0.9565
   Batch 5/31, val_loss: 0.9993
   Batch 6/31, val_loss: 0.7106
   Batch 7/31, val_loss: 0.8510
   Batch 8/31, val_loss: 0.9594
   Batch 9/31, val_loss: 0.7084
   Batch 10/31, val_loss: 0.9227
   Batch 11/31, val_loss: 0.8356
   Batch 12/31, val_loss: 0.9736
   Batch 13/31, val_loss: 0.9977
   Batch 14/31, val_loss: 0.9591
   Batch 15/31, val_loss: 0.9885
   Batch 16/31, val_loss: 0.9758
   Batch 17/31, val_loss: 0.9794
   Batch 18/31, val_loss: 0.9485
   Batch 19/31, val_loss: 0.7789
   Batch 20/31, val_loss: 0.8636
   Batch 21/31, val_loss: 0.8943
   Batch 22/31, val_loss: 0.9962
   Batch 23/31, val_loss: 0.9949
   Batch 24/31, val_loss: 0.7501
   Batch 25/31, val_loss: 0.8131
   Batch 26/31, val_loss: 0.9344
   Batch 27/31, val_loss: 0.9850
   Batch 28/31, val_loss: 0.7640
   Batch 29/31, val_loss: 0.9879
   Batch 30/31, val_loss: 0.9712
   Batch 31/31, val_loss: 0.9763
```



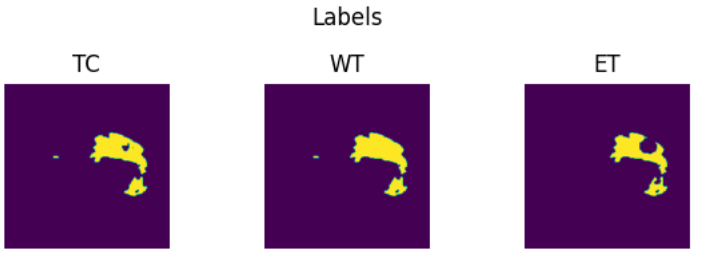

```
epoch 16
   average train loss: 0.4535
   average validation loss: 0.9135
   saved as best model: True
```

```
   current mean dice: 0.4573
   current TC dice: 0.4774
   current WT dice: 0.4831
   current ET dice: 0.4528
Best Mean Metric: 0.4573
time consuming of epoch 16 is: 1726.0355
----------
epoch 17/100
TRAIN
   Batch 1/248, train_loss: 0.0982, step time: 1.4594
   Batch 2/248, train_loss: 0.9872, step time: 1.3776
   Batch 3/248, train_loss: 0.6050, step time: 1.3964
   Batch 4/248, train_loss: 0.9961, step time: 1.3823
   Batch 5/248, train_loss: 0.3761, step time: 1.3823
   Batch 6/248, train_loss: 0.6926, step time: 1.3827
   Batch 7/248, train_loss: 0.1190, step time: 1.3811
   Batch 8/248, train_loss: 0.7386, step time: 1.3930
   Batch 9/248, train_loss: 0.0551, step time: 1.3913
   Batch 10/248, train_loss: 0.4050, step time: 1.3803
   Batch 11/248, train_loss: 0.3661, step time: 1.3753
   Batch 12/248, train_loss: 0.7636, step time: 1.3935
   Batch 13/248, train_loss: 0.6977, step time: 1.4106
   Batch 14/248, train_loss: 0.0732, step time: 1.3718
   Batch 15/248, train_loss: 0.4156, step time: 1.3913
   Batch 16/248, train_loss: 0.2301, step time: 1.3740
   Batch 17/248, train_loss: 0.7474, step time: 1.3617
   Batch 18/248, train_loss: 0.6062, step time: 1.3771
   Batch 19/248, train_loss: 0.1442, step time: 1.3580
   Batch 20/248, train_loss: 0.2672, step time: 1.3679
   Batch 21/248, train_loss: 0.1042, step time: 1.3744
   Batch 22/248, train_loss: 0.9893, step time: 1.3720
   Batch 23/248, train_loss: 0.9862, step time: 1.3845
   Batch 24/248, train_loss: 0.1601, step time: 1.3685
   Batch 25/248, train_loss: 0.2146, step time: 1.3754
   Batch 26/248, train_loss: 0.7532, step time: 1.4132
   Batch 27/248, train_loss: 0.0891, step time: 1.3685
   Batch 28/248, train_loss: 0.2381, step time: 1.3844
   Batch 29/248, train_loss: 0.6969, step time: 1.3811
   Batch 30/248, train_loss: 0.6820, step time: 1.3939
   Batch 31/248, train_loss: 0.5845, step time: 1.3685
   Batch 32/248, train_loss: 0.1386, step time: 1.3661
   Batch 33/248, train_loss: 0.1127, step time: 1.3633
   Batch 34/248, train_loss: 0.0761, step time: 1.3487
   Batch 35/248, train_loss: 0.1120, step time: 1.3824
   Batch 36/248, train_loss: 0.9939, step time: 1.3811
   Batch 37/248, train_loss: 0.2229, step time: 1.3897
   Batch 38/248, train_loss: 0.3876, step time: 1.3577
   Batch 39/248, train_loss: 0.3089, step time: 1.3894
   Batch 40/248, train_loss: 0.9996, step time: 1.3585
   Batch 41/248, train_loss: 0.2363, step time: 1.3690
   Batch 42/248, train_loss: 0.0755, step time: 1.3934
   Batch 43/248, train_loss: 0.1257, step time: 1.3861
   Batch 44/248, train_loss: 0.4827, step time: 1.3602
   Batch 45/248, train_loss: 0.7211, step time: 1.3763
   Batch 46/248, train_loss: 0.2864, step time: 1.3851
   Batch 47/248, train_loss: 0.1401, step time: 1.3636
   Batch 48/248, train_loss: 0.2450, step time: 1.3935
   Batch 49/248, train_loss: 0.6447, step time: 1.3999
   Batch 50/248, train_loss: 0.2240, step time: 1.3781
   Batch 51/248, train_loss: 0.2567, step time: 1.3809
   Batch 52/248, train_loss: 0.1979, step time: 1.3779
   Batch 53/248, train_loss: 0.5328, step time: 1.4022
   Batch 54/248, train_loss: 0.2932, step time: 1.4018
   Batch 55/248, train_loss: 0.3651, step time: 1.3830
   Batch 56/248, train_loss: 0.3501, step time: 1.3680
   Batch 57/248, train_loss: 0.3007, step time: 1.3736
   Batch 58/248, train_loss: 0.1152, step time: 1.3507
   Batch 59/248, train_loss: 0.1270, step time: 1.3550
   Batch 60/248, train_loss: 0.1117, step time: 1.3735
   Batch 61/248, train_loss: 0.1396, step time: 1.3827
   Batch 62/248, train_loss: 0.3815, step time: 1.3984
   Batch 63/248, train_loss: 0.8445, step time: 1.3741
   Batch 64/248, train_loss: 0.7640, step time: 1.3579
   Batch 65/248, train_loss: 0.4703, step time: 1.3800
   Batch 66/248, train_loss: 0.3211, step time: 1.3868
   Batch 67/248, train_loss: 0.1300, step time: 1.3674
   Batch 68/248, train_loss: 0.1265, step time: 1.3986
   Batch 69/248, train_loss: 0.9696, step time: 1.3692
   Batch 70/248, train_loss: 0.2170, step time: 1.3884
   Batch 71/248, train_loss: 0.1631, step time: 1.4030
   Batch 72/248, train_loss: 0.0728, step time: 1.3667
   Batch 73/248, train_loss: 0.1820, step time: 1.3701
   Batch 74/248, train_loss: 0.9984, step time: 1.3522
   Batch 75/248, train_loss: 0.1872, step time: 1.3630
   Batch 76/248, train_loss: 0.8955, step time: 1.4048
```

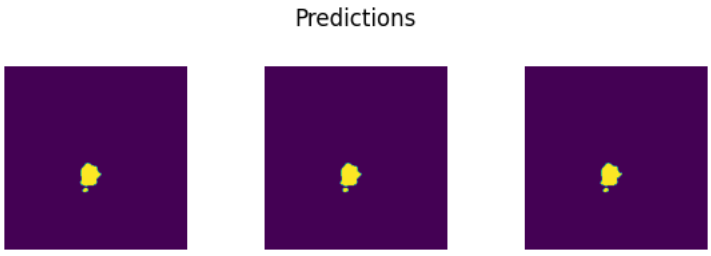
Batch 76/248, train_loss: 0.8955, step time: 1.4048
Batch 77/248, train_loss: 0.9987, step time: 1.3623
Batch 78/248, train_loss: 0.1737, step time: 1.3869
Batch 79/248, train_loss: 0.1617, step time: 1.3655
Batch 80/248, train_loss: 0.2737, step time: 1.3877
Batch 81/248, train_loss: 0.3501, step time: 1.3757
Batch 82/248, train_loss: 0.1382, step time: 1.3892
Batch 83/248, train_loss: 0.8757, step time: 1.3742
Batch 84/248, train_loss: 0.3839, step time: 1.3849
Batch 85/248, train_loss: 0.9076, step time: 1.3651
Batch 86/248, train_loss: 0.4510, step time: 1.3603
Batch 87/248, train_loss: 0.9408, step time: 1.3924
Batch 88/248, train_loss: 0.5846, step time: 1.3837
Batch 89/248, train_loss: 0.1284, step time: 1.3643
Batch 90/248, train_loss: 0.4851, step time: 1.4015
Batch 91/248, train_loss: 0.7543, step time: 1.3889
Batch 92/248, train_loss: 0.8356, step time: 1.3964
Batch 93/248, train_loss: 0.2608, step time: 1.4018
Batch 94/248, train_loss: 0.6955, step time: 1.4089
Batch 95/248, train_loss: 0.2129, step time: 1.3760
Batch 96/248, train_loss: 0.4151, step time: 1.3679
Batch 97/248, train_loss: 0.9992, step time: 1.3784
Batch 98/248, train_loss: 0.3004, step time: 1.3882
Batch 99/248, train_loss: 0.5629, step time: 1.3579
Batch 100/248, train_loss: 0.9654, step time: 1.3947
Batch 101/248, train_loss: 0.0598, step time: 1.3756
Batch 102/248, train_loss: 0.2958, step time: 1.3812
Batch 103/248, train_loss: 0.8983, step time: 1.3959
Batch 104/248, train_loss: 0.3437, step time: 1.3757
Batch 105/248, train_loss: 0.0955, step time: 1.3590
Batch 106/248, train_loss: 0.2364, step time: 1.3854
Batch 107/248, train_loss: 0.8501, step time: 1.4110
Batch 108/248, train_loss: 0.8524, step time: 1.3797
Batch 109/248, train_loss: 0.9944, step time: 1.4001
Batch 110/248, train_loss: 0.8719, step time: 1.3758
Batch 111/248, train_loss: 0.1470, step time: 1.3661
Batch 112/248, train_loss: 0.1487, step time: 1.3858
Batch 113/248, train_loss: 0.9982, step time: 1.3475
Batch 114/248, train_loss: 0.1652, step time: 1.3741
Batch 115/248, train_loss: 0.2211, step time: 1.3874
Batch 116/248, train_loss: 0.1013, step time: 1.3639
Batch 117/248, train_loss: 0.9461, step time: 1.3630
Batch 118/248, train_loss: 0.9634, step time: 1.3737
Batch 119/248, train_loss: 0.5164, step time: 1.3683
Batch 120/248, train_loss: 0.2887, step time: 1.3692
Batch 121/248, train_loss: 0.4478, step time: 1.3956
Batch 122/248, train_loss: 0.5291, step time: 1.4090
Batch 123/248, train_loss: 0.0756, step time: 1.3839
Batch 124/248, train_loss: 0.5002, step time: 1.3754
Batch 125/248, train_loss: 0.9094, step time: 1.3823
Batch 126/248, train_loss: 0.2591, step time: 1.3701
Batch 127/248, train_loss: 0.1695, step time: 1.3929
Batch 128/248, train_loss: 0.3212, step time: 1.3898
Batch 129/248, train_loss: 0.1396, step time: 1.3836
Batch 130/248, train_loss: 0.2260, step time: 1.3635
Batch 131/248, train_loss: 0.7798, step time: 1.3698
Batch 132/248, train_loss: 0.3645, step time: 1.3628
Batch 133/248, train_loss: 0.3837, step time: 1.3592
Batch 134/248, train_loss: 0.9963, step time: 1.3568
Batch 135/248, train_loss: 0.4459, step time: 1.3766
Batch 136/248, train_loss: 0.2189, step time: 1.3959
Batch 137/248, train_loss: 0.2177, step time: 1.3853
Batch 138/248, train_loss: 0.1157, step time: 1.3971
Batch 139/248, train_loss: 0.2182, step time: 1.3754
Batch 140/248, train_loss: 0.3002, step time: 1.3959
Batch 141/248, train_loss: 0.2091, step time: 1.3830
Batch 142/248, train_loss: 0.8733, step time: 1.4065
Batch 143/248, train_loss: 0.3520, step time: 1.3883
Batch 144/248, train_loss: 0.1387, step time: 1.3581
Batch 145/248, train_loss: 0.0749, step time: 1.3550
Batch 146/248, train_loss: 0.9183, step time: 1.3702
Batch 147/248, train_loss: 0.0570, step time: 1.3705
Batch 148/248, train_loss: 0.9673, step time: 1.3832
Batch 149/248, train_loss: 0.2085, step time: 1.4061
Batch 150/248, train_loss: 0.6653, step time: 1.3800
Batch 151/248, train_loss: 0.8676, step time: 1.3822
Batch 152/248, train_loss: 0.0692, step time: 1.3554
Batch 153/248, train_loss: 0.5035, step time: 1.3882
Batch 154/248, train_loss: 0.9012, step time: 1.4000
Batch 155/248, train_loss: 0.1547, step time: 1.3937
Batch 156/248, train_loss: 0.2203, step time: 1.3789
Batch 157/248, train_loss: 0.3857, step time: 1.3755
Batch 158/248, train_loss: 0.9894, step time: 1.3917
Batch 159/248, train_loss: 0.8842, step time: 1.3915
Batch 160/248, train_loss: 0.1223, step time: 1.3591

```
Batch 161/248, train_loss: 0.1422, step time: 1.3658
Batch 162/248, train_loss: 0.1326, step time: 1.3498
Batch 163/248, train_loss: 0.3716, step time: 1.3470
Batch 164/248, train_loss: 0.3400, step time: 1.3528
Batch 165/248, train_loss: 0.9679, step time: 1.3628
Batch 166/248, train_loss: 0.2774, step time: 1.3740
Batch 167/248, train_loss: 0.3112, step time: 1.3913
Batch 168/248, train_loss: 0.2188, step time: 1.3590
Batch 169/248, train_loss: 0.1492, step time: 1.3797
Batch 170/248, train_loss: 0.9323, step time: 1.3736
Batch 171/248, train_loss: 0.1123, step time: 1.3696
Batch 172/248, train_loss: 0.9194, step time: 1.3894
Batch 173/248, train_loss: 0.1400, step time: 1.3572
Batch 174/248, train_loss: 0.9637, step time: 1.3764
Batch 175/248, train_loss: 0.3179, step time: 1.3851
Batch 176/248, train_loss: 0.4657, step time: 1.3848
Batch 177/248, train_loss: 0.8361, step time: 1.3994
Batch 178/248, train_loss: 0.2745, step time: 1.3813
Batch 179/248, train_loss: 0.0997, step time: 1.4060
Batch 180/248, train_loss: 0.4464, step time: 1.3768
Batch 181/248, train_loss: 0.1271, step time: 1.3866
Batch 182/248, train_loss: 0.8865, step time: 1.3799
Batch 183/248, train_loss: 0.4749, step time: 1.3652
Batch 184/248, train_loss: 0.5443, step time: 1.3734
Batch 185/248, train_loss: 0.1681, step time: 1.3803
Batch 186/248, train_loss: 0.1794, step time: 1.3886
Batch 187/248, train_loss: 0.2852, step time: 1.3551
Batch 188/248, train_loss: 0.2416, step time: 1.3867
Batch 189/248, train_loss: 0.9875, step time: 1.3896
Batch 190/248, train_loss: 0.1925, step time: 1.3747
Batch 191/248, train_loss: 0.8902, step time: 1.3691
Batch 192/248, train_loss: 0.3874, step time: 1.4018
Batch 193/248, train_loss: 0.3836, step time: 1.3860
Batch 194/248, train_loss: 0.1401, step time: 1.3703
Batch 195/248, train_loss: 0.8579, step time: 1.3781
Batch 196/248, train_loss: 0.9997, step time: 1.3578
Batch 197/248, train_loss: 0.2734, step time: 1.3838
Batch 198/248, train_loss: 0.9998, step time: 1.3641
Batch 199/248, train_loss: 0.2096, step time: 1.3716
Batch 200/248, train_loss: 0.1698, step time: 1.3572
Batch 201/248, train_loss: 0.1566, step time: 1.3605
Batch 202/248, train_loss: 0.5808, step time: 1.3687
Batch 203/248, train_loss: 0.7095, step time: 1.3653
Batch 204/248, train_loss: 0.1121, step time: 1.3782
Batch 205/248, train_loss: 0.3863, step time: 1.3656
Batch 206/248, train_loss: 0.8650, step time: 1.3726
Batch 207/248, train_loss: 0.1136, step time: 1.3762
Batch 208/248, train_loss: 0.1765, step time: 1.3963
Batch 209/248, train_loss: 0.1561, step time: 1.3908
Batch 210/248, train_loss: 0.0786, step time: 1.3794
Batch 211/248, train_loss: 0.1008, step time: 1.3717
Batch 212/248, train_loss: 0.3245, step time: 1.3786
Batch 213/248, train_loss: 0.2527, step time: 1.3668
Batch 214/248, train_loss: 0.1246, step time: 1.3724
Batch 215/248, train_loss: 0.4344, step time: 1.3951
Batch 216/248, train_loss: 0.2422, step time: 1.3714
Batch 217/248, train_loss: 0.3737, step time: 1.3746
Batch 218/248, train_loss: 0.9711, step time: 1.3790
Batch 219/248, train_loss: 0.1005, step time: 1.3980
Batch 220/248, train_loss: 0.2994, step time: 1.3787
Batch 221/248, train_loss: 0.3450, step time: 1.3874
Batch 222/248, train_loss: 0.2240, step time: 1.3604
Batch 223/248, train_loss: 0.0663, step time: 1.3890
Batch 224/248, train_loss: 0.1359, step time: 1.3847
Batch 225/248, train_loss: 0.7211, step time: 1.3881
Batch 226/248, train_loss: 0.2994, step time: 1.3735
Batch 227/248, train_loss: 0.1830, step time: 1.3671
Batch 228/248, train_loss: 0.4439, step time: 1.3846
Batch 229/248, train_loss: 0.1971, step time: 1.3990
Batch 230/248, train_loss: 0.1237, step time: 1.3664
Batch 231/248, train_loss: 0.9697, step time: 1.3646
Batch 232/248, train_loss: 0.0917, step time: 1.3823
Batch 233/248, train_loss: 0.9918, step time: 1.3756
Batch 234/248, train_loss: 0.5995, step time: 1.3715
Batch 235/248, train_loss: 0.6212, step time: 1.3919
Batch 236/248, train_loss: 0.9351, step time: 1.3650
Batch 237/248, train_loss: 0.1713, step time: 1.3861
Batch 238/248, train_loss: 0.1126, step time: 1.3856
Batch 239/248, train_loss: 0.1255, step time: 1.3748
Batch 240/248, train_loss: 0.4865, step time: 1.3678
Batch 241/248, train_loss: 0.9933, step time: 1.3636
Batch 242/248, train_loss: 0.2840, step time: 1.3902
Batch 243/248, train_loss: 0.7597, step time: 1.3994
Batch 244/248, train_loss: 0.6021, step time: 1.3864
Batch 245/248, train_loss: 0.0993, step time: 1.3979
```

```
   Batch 246/248, train_loss: 0.7474, step time: 1.3874
   Batch 247/248, train_loss: 0.1207, step time: 1.3877
   Batch 248/248, train_loss: 0.9998, step time: 1.3564
```




```
VAL
   Batch 1/31, val_loss: 0.8502
   Batch 2/31, val_loss: 0.9996
   Batch 3/31, val_loss: 0.9773
   Batch 4/31, val_loss: 0.9588
   Batch 5/31, val_loss: 0.9989
   Batch 6/31, val_loss: 0.7066
   Batch 7/31, val_loss: 0.8490
   Batch 8/31, val_loss: 0.9574
   Batch 9/31, val_loss: 0.7105
   Batch 10/31, val_loss: 0.9265
   Batch 11/31, val_loss: 0.8274
   Batch 12/31, val_loss: 0.9711
   Batch 13/31, val_loss: 0.9838
   Batch 14/31, val_loss: 0.9609
   Batch 15/31, val_loss: 0.9875
   Batch 16/31, val_loss: 0.9771
   Batch 17/31, val_loss: 0.9844
   Batch 18/31, val_loss: 0.9489
   Batch 19/31, val_loss: 0.7628
   Batch 20/31, val_loss: 0.8902
   Batch 21/31, val_loss: 0.9015
   Batch 22/31, val_loss: 0.9938
   Batch 23/31, val_loss: 0.9931
   Batch 24/31, val_loss: 0.7645
   Batch 25/31, val_loss: 0.8135
   Batch 26/31, val_loss: 0.9284
   Batch 27/31, val_loss: 0.9925
   Batch 28/31, val_loss: 0.7560
   Batch 29/31, val_loss: 0.9924
   Batch 30/31, val_loss: 0.9730
   Batch 31/31, val_loss: 0.9777
```



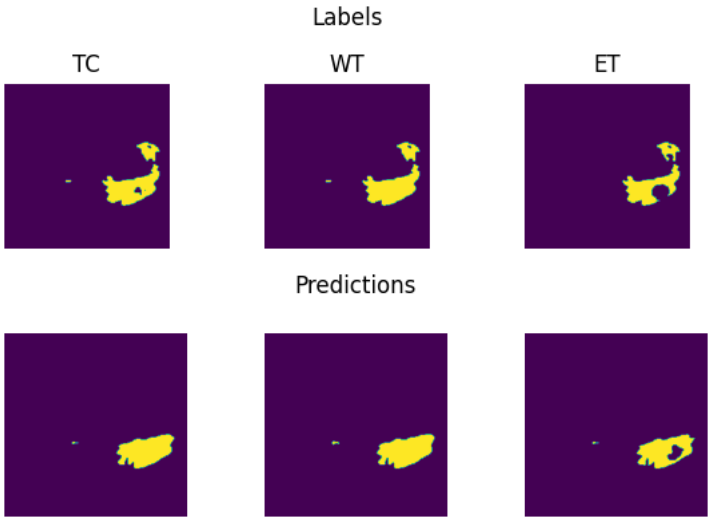

```
epoch 17
   average train loss: 0.4346
   average validation loss: 0.9134
   saved as best model: False
```

```
   saved as best model: False
   current mean dice: 0.4489
   current TC dice: 0.4684
   current WT dice: 0.4793
   current ET dice: 0.4407
Best Mean Metric: 0.4573
time consuming of epoch 17 is: 1725.5553
----------
epoch 18/100
TRAIN
   Batch 1/248, train_loss: 0.0956, step time: 1.4159
   Batch 2/248, train_loss: 0.9100, step time: 1.4110
   Batch 3/248, train_loss: 0.6152, step time: 1.3766
   Batch 4/248, train_loss: 0.9929, step time: 1.3786
   Batch 5/248, train_loss: 0.2783, step time: 1.3714
   Batch 6/248, train_loss: 0.6146, step time: 1.3832
   Batch 7/248, train_loss: 0.1242, step time: 1.4091
   Batch 8/248, train_loss: 0.7286, step time: 1.3716
   Batch 9/248, train_loss: 0.0508, step time: 1.3808
   Batch 10/248, train_loss: 0.3998, step time: 1.3633
   Batch 11/248, train_loss: 0.3777, step time: 1.4071
   Batch 12/248, train_loss: 0.7057, step time: 1.4044
   Batch 13/248, train_loss: 0.5208, step time: 1.3937
   Batch 14/248, train_loss: 0.0798, step time: 1.3613
   Batch 15/248, train_loss: 0.4310, step time: 1.3693
   Batch 16/248, train_loss: 0.2458, step time: 1.3994
   Batch 17/248, train_loss: 0.6804, step time: 1.3671
   Batch 18/248, train_loss: 0.5691, step time: 1.3648
   Batch 19/248, train_loss: 0.3003, step time: 1.3670
   Batch 20/248, train_loss: 0.6896, step time: 1.4057
   Batch 21/248, train_loss: 0.0881, step time: 1.4025
   Batch 22/248, train_loss: 0.9986, step time: 1.3735
   Batch 23/248, train_loss: 0.9994, step time: 1.3756
   Batch 24/248, train_loss: 0.1747, step time: 1.3749
   Batch 25/248, train_loss: 0.0952, step time: 1.3922
   Batch 26/248, train_loss: 0.9670, step time: 1.3871
   Batch 27/248, train_loss: 0.1233, step time: 1.3841
   Batch 28/248, train_loss: 0.7368, step time: 1.3943
   Batch 29/248, train_loss: 0.9951, step time: 1.3931
   Batch 30/248, train_loss: 0.9819, step time: 1.3991
   Batch 31/248, train_loss: 0.9208, step time: 1.3700
   Batch 32/248, train_loss: 0.2883, step time: 1.3780
   Batch 33/248, train_loss: 0.1674, step time: 1.3823
   Batch 34/248, train_loss: 0.0720, step time: 1.3844
   Batch 35/248, train_loss: 0.1862, step time: 1.3587
   Batch 36/248, train_loss: 0.9998, step time: 1.3448
   Batch 37/248, train_loss: 0.2674, step time: 1.3804
   Batch 38/248, train_loss: 0.8840, step time: 1.3766
   Batch 39/248, train_loss: 0.4683, step time: 1.3810
   Batch 40/248, train_loss: 0.9982, step time: 1.3584
   Batch 41/248, train_loss: 0.2536, step time: 1.3993
   Batch 42/248, train_loss: 0.0783, step time: 1.3957
   Batch 43/248, train_loss: 0.0793, step time: 1.3947
   Batch 44/248, train_loss: 0.2639, step time: 1.4028
   Batch 45/248, train_loss: 0.6882, step time: 1.3800
   Batch 46/248, train_loss: 0.3746, step time: 1.3789
   Batch 47/248, train_loss: 0.1639, step time: 1.3698
   Batch 48/248, train_loss: 0.6048, step time: 1.3851
   Batch 49/248, train_loss: 0.6597, step time: 1.3817
   Batch 50/248, train_loss: 0.2562, step time: 1.3823
   Batch 51/248, train_loss: 0.3575, step time: 1.3726
   Batch 52/248, train_loss: 0.2197, step time: 1.3924
   Batch 53/248, train_loss: 0.7322, step time: 1.3999
   Batch 54/248, train_loss: 0.3320, step time: 1.4032
   Batch 55/248, train_loss: 0.4241, step time: 1.3754
   Batch 56/248, train_loss: 0.3083, step time: 1.3865
   Batch 57/248, train_loss: 0.3039, step time: 1.3741
   Batch 58/248, train_loss: 0.1235, step time: 1.3595
   Batch 59/248, train_loss: 0.1498, step time: 1.3684
   Batch 60/248, train_loss: 0.1123, step time: 1.3618
   Batch 61/248, train_loss: 0.1580, step time: 1.3776
   Batch 62/248, train_loss: 0.3812, step time: 1.3866
   Batch 63/248, train_loss: 0.9433, step time: 1.3753
   Batch 64/248, train_loss: 0.8283, step time: 1.3862
   Batch 65/248, train_loss: 0.4284, step time: 1.3884
   Batch 66/248, train_loss: 0.2149, step time: 1.3958
   Batch 67/248, train_loss: 0.1552, step time: 1.3672
   Batch 68/248, train_loss: 0.1570, step time: 1.3641
   Batch 69/248, train_loss: 0.9881, step time: 1.3781
   Batch 70/248, train_loss: 0.2148, step time: 1.3993
   Batch 71/248, train_loss: 0.1986, step time: 1.3842
   Batch 72/248, train_loss: 0.0898, step time: 1.3711
   Batch 73/248, train_loss: 0.2412, step time: 1.3503
   Batch 74/248, train_loss: 0.9943, step time: 1.3568
   Batch 75/248, train_loss: 0.1743, step time: 1.3581
```

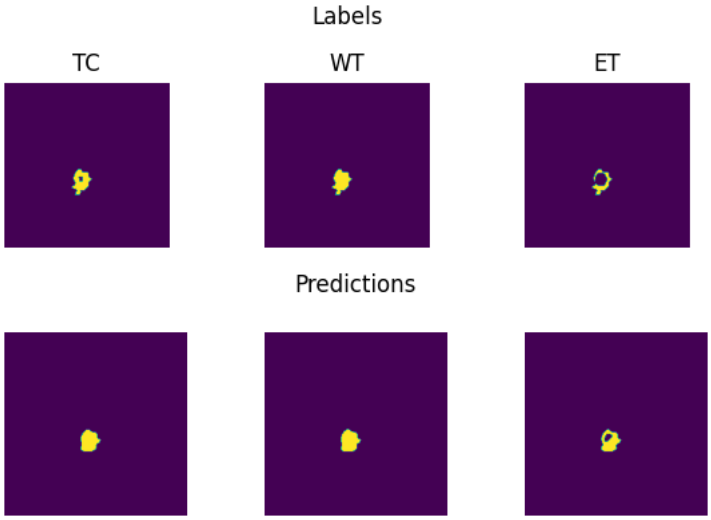
```
Batch 76/248, train_loss: 0.8674, step time: 1.3706
Batch 77/248, train_loss: 0.9968, step time: 1.3874
Batch 78/248, train_loss: 0.1452, step time: 1.3964
Batch 79/248, train_loss: 0.1871, step time: 1.3693
Batch 80/248, train_loss: 0.2602, step time: 1.3970
Batch 81/248, train_loss: 0.2668, step time: 1.3759
Batch 82/248, train_loss: 0.1293, step time: 1.3757
Batch 83/248, train_loss: 0.8674, step time: 1.3996
Batch 84/248, train_loss: 0.3748, step time: 1.3620
Batch 85/248, train_loss: 0.9749, step time: 1.3678
Batch 86/248, train_loss: 0.3624, step time: 1.3608
Batch 87/248, train_loss: 0.9307, step time: 1.3913
Batch 88/248, train_loss: 0.7874, step time: 1.3698
Batch 89/248, train_loss: 0.3291, step time: 1.3666
Batch 90/248, train_loss: 0.3724, step time: 1.3977
Batch 91/248, train_loss: 0.7420, step time: 1.4034
Batch 92/248, train_loss: 0.7096, step time: 1.3852
Batch 93/248, train_loss: 0.1882, step time: 1.3776
Batch 94/248, train_loss: 0.7818, step time: 1.3698
Batch 95/248, train_loss: 0.2077, step time: 1.3829
Batch 96/248, train_loss: 0.3093, step time: 1.3941
Batch 97/248, train_loss: 0.9998, step time: 1.3602
Batch 98/248, train_loss: 0.1906, step time: 1.3739
Batch 99/248, train_loss: 0.8915, step time: 1.4030
Batch 100/248, train_loss: 0.8657, step time: 1.4022
Batch 101/248, train_loss: 0.0667, step time: 1.3741
Batch 102/248, train_loss: 0.2283, step time: 1.3723
Batch 103/248, train_loss: 0.9353, step time: 1.3753
Batch 104/248, train_loss: 0.3772, step time: 1.3882
Batch 105/248, train_loss: 0.0960, step time: 1.3876
Batch 106/248, train_loss: 0.2919, step time: 1.3810
Batch 107/248, train_loss: 0.8626, step time: 1.3832
Batch 108/248, train_loss: 0.8267, step time: 1.3891
Batch 109/248, train_loss: 0.9951, step time: 1.3915
Batch 110/248, train_loss: 0.9365, step time: 1.3830
Batch 111/248, train_loss: 0.1847, step time: 1.3934
Batch 112/248, train_loss: 0.2239, step time: 1.3864
Batch 113/248, train_loss: 0.9987, step time: 1.3473
Batch 114/248, train_loss: 0.2212, step time: 1.3757
Batch 115/248, train_loss: 0.2416, step time: 1.3641
Batch 116/248, train_loss: 0.1259, step time: 1.3868
Batch 117/248, train_loss: 0.9694, step time: 1.3965
Batch 118/248, train_loss: 0.9090, step time: 1.3835
Batch 119/248, train_loss: 0.4327, step time: 1.3602
Batch 120/248, train_loss: 0.2787, step time: 1.3894
Batch 121/248, train_loss: 0.5874, step time: 1.3915
Batch 122/248, train_loss: 0.7546, step time: 1.3807
Batch 123/248, train_loss: 0.0973, step time: 1.3678
Batch 124/248, train_loss: 0.5356, step time: 1.3750
Batch 125/248, train_loss: 0.9812, step time: 1.3729
Batch 126/248, train_loss: 0.3845, step time: 1.3703
Batch 127/248, train_loss: 0.1673, step time: 1.3943
Batch 128/248, train_loss: 0.3484, step time: 1.3619
Batch 129/248, train_loss: 0.1903, step time: 1.3819
Batch 130/248, train_loss: 0.2427, step time: 1.3877
Batch 131/248, train_loss: 0.7203, step time: 1.3528
Batch 132/248, train_loss: 0.3904, step time: 1.3872
Batch 133/248, train_loss: 0.2673, step time: 1.3910
Batch 134/248, train_loss: 0.9998, step time: 1.3764
Batch 135/248, train_loss: 0.4820, step time: 1.3708
Batch 136/248, train_loss: 0.1894, step time: 1.3903
Batch 137/248, train_loss: 0.2228, step time: 1.3569
Batch 138/248, train_loss: 0.1139, step time: 1.3601
Batch 139/248, train_loss: 0.3540, step time: 1.3707
Batch 140/248, train_loss: 0.2654, step time: 1.3640
Batch 141/248, train_loss: 0.3280, step time: 1.3972
Batch 142/248, train_loss: 0.8363, step time: 1.3660
Batch 143/248, train_loss: 0.3985, step time: 1.3853
Batch 144/248, train_loss: 0.1580, step time: 1.3646
Batch 145/248, train_loss: 0.0864, step time: 1.3807
Batch 146/248, train_loss: 0.6678, step time: 1.3967
Batch 147/248, train_loss: 0.0684, step time: 1.3434
Batch 148/248, train_loss: 0.9612, step time: 1.3528
Batch 149/248, train_loss: 0.2481, step time: 1.3748
Batch 150/248, train_loss: 0.6773, step time: 1.3895
Batch 151/248, train_loss: 0.9528, step time: 1.3788
Batch 152/248, train_loss: 0.0631, step time: 1.3927
Batch 153/248, train_loss: 0.9515, step time: 1.3692
Batch 154/248, train_loss: 0.9510, step time: 1.3904
Batch 155/248, train_loss: 0.2174, step time: 1.3712
Batch 156/248, train_loss: 0.2086, step time: 1.3821
Batch 157/248, train_loss: 0.3761, step time: 1.3582
Batch 158/248, train_loss: 0.9969, step time: 1.3752
Batch 159/248, train_loss: 0.9325, step time: 1.3575
Batch 160/248, train_loss: 0.1052, step time: 1.3736
```

```
Batch 161/248, train_loss: 0.1081, step time: 1.3982
Batch 162/248, train_loss: 0.1817, step time: 1.3657
Batch 163/248, train_loss: 0.6081, step time: 1.3830
Batch 164/248, train_loss: 0.2234, step time: 1.3825
Batch 165/248, train_loss: 0.9958, step time: 1.3586
Batch 166/248, train_loss: 0.2813, step time: 1.3699
Batch 167/248, train_loss: 0.2335, step time: 1.4001
Batch 168/248, train_loss: 0.2201, step time: 1.3589
Batch 169/248, train_loss: 0.1388, step time: 1.3721
Batch 170/248, train_loss: 0.8181, step time: 1.3866
Batch 171/248, train_loss: 0.1338, step time: 1.3828
Batch 172/248, train_loss: 0.9182, step time: 1.3781
Batch 173/248, train_loss: 0.1452, step time: 1.3635
Batch 174/248, train_loss: 0.9950, step time: 1.3600
Batch 175/248, train_loss: 0.2668, step time: 1.3791
Batch 176/248, train_loss: 0.4571, step time: 1.3651
Batch 177/248, train_loss: 0.8793, step time: 1.3665
Batch 178/248, train_loss: 0.3044, step time: 1.4001
Batch 179/248, train_loss: 0.1626, step time: 1.3658
Batch 180/248, train_loss: 0.4351, step time: 1.3713
Batch 181/248, train_loss: 0.1447, step time: 1.3642
Batch 182/248, train_loss: 0.8951, step time: 1.3830
Batch 183/248, train_loss: 0.5024, step time: 1.3946
Batch 184/248, train_loss: 0.6406, step time: 1.3727
Batch 185/248, train_loss: 0.1427, step time: 1.3559
Batch 186/248, train_loss: 0.1366, step time: 1.3603
Batch 187/248, train_loss: 0.2820, step time: 1.3683
Batch 188/248, train_loss: 0.2275, step time: 1.3920
Batch 189/248, train_loss: 0.9573, step time: 1.3596
Batch 190/248, train_loss: 0.1726, step time: 1.3900
Batch 191/248, train_loss: 0.9304, step time: 1.3940
Batch 192/248, train_loss: 0.3226, step time: 1.3897
Batch 193/248, train_loss: 0.3195, step time: 1.3853
Batch 194/248, train_loss: 0.1360, step time: 1.3526
Batch 195/248, train_loss: 0.8930, step time: 1.3692
Batch 196/248, train_loss: 0.9996, step time: 1.3564
Batch 197/248, train_loss: 0.2895, step time: 1.3606
Batch 198/248, train_loss: 0.9994, step time: 1.3430
Batch 199/248, train_loss: 0.2336, step time: 1.3700
Batch 200/248, train_loss: 0.1851, step time: 1.3739
Batch 201/248, train_loss: 0.1642, step time: 1.3783
Batch 202/248, train_loss: 0.5357, step time: 1.4002
Batch 203/248, train_loss: 0.8038, step time: 1.3584
Batch 204/248, train_loss: 0.1005, step time: 1.3547
Batch 205/248, train_loss: 0.3685, step time: 1.3817
Batch 206/248, train_loss: 0.8582, step time: 1.4000
Batch 207/248, train_loss: 0.1020, step time: 1.3742
Batch 208/248, train_loss: 0.3321, step time: 1.3706
Batch 209/248, train_loss: 0.1519, step time: 1.3904
Batch 210/248, train_loss: 0.0903, step time: 1.3749
Batch 211/248, train_loss: 0.1076, step time: 1.4000
Batch 212/248, train_loss: 0.3401, step time: 1.3574
Batch 213/248, train_loss: 0.2414, step time: 1.3812
Batch 214/248, train_loss: 0.1401, step time: 1.4032
Batch 215/248, train_loss: 0.4785, step time: 1.3768
Batch 216/248, train_loss: 0.2348, step time: 1.3901
Batch 217/248, train_loss: 0.4961, step time: 1.4098
Batch 218/248, train_loss: 0.9593, step time: 1.3975
Batch 219/248, train_loss: 0.0865, step time: 1.3852
Batch 220/248, train_loss: 0.2805, step time: 1.3970
Batch 221/248, train_loss: 0.3386, step time: 1.3949
Batch 222/248, train_loss: 0.2297, step time: 1.3823
Batch 223/248, train_loss: 0.0624, step time: 1.3459
Batch 224/248, train_loss: 0.1424, step time: 1.3729
Batch 225/248, train_loss: 0.9007, step time: 1.3592
Batch 226/248, train_loss: 0.5330, step time: 1.3798
Batch 227/248, train_loss: 0.1672, step time: 1.3609
Batch 228/248, train_loss: 0.2619, step time: 1.3865
Batch 229/248, train_loss: 0.2012, step time: 1.3713
Batch 230/248, train_loss: 0.1162, step time: 1.3800
Batch 231/248, train_loss: 0.9925, step time: 1.3862
Batch 232/248, train_loss: 0.0926, step time: 1.3638
Batch 233/248, train_loss: 0.9994, step time: 1.3609
Batch 234/248, train_loss: 0.7724, step time: 1.3799
Batch 235/248, train_loss: 0.5399, step time: 1.3751
Batch 236/248, train_loss: 0.9474, step time: 1.3840
Batch 237/248, train_loss: 0.1577, step time: 1.3578
Batch 238/248, train_loss: 0.1220, step time: 1.3604
Batch 239/248, train_loss: 0.1106, step time: 1.3821
Batch 240/248, train_loss: 0.4643, step time: 1.3838
Batch 241/248, train_loss: 0.9888, step time: 1.3805
Batch 242/248, train_loss: 0.2765, step time: 1.3733
Batch 243/248, train_loss: 0.6911, step time: 1.3687
Batch 244/248, train_loss: 0.5987, step time: 1.3874
Batch 245/248, train_loss: 0.1207, step time: 1.3685
```

Batch 246/248, train_loss: 0.7551, step time: 1.3961
Batch 247/248, train_loss: 0.2049, step time: 1.3910
Batch 248/248, train_loss: 1.0000, step time: 1.3424



VAL
Batch 1/31, val_loss: 0.8644
Batch 2/31, val_loss: 0.9997
Batch 3/31, val_loss: 0.9792
Batch 4/31, val_loss: 0.9588
Batch 5/31, val_loss: 0.9996
Batch 6/31, val_loss: 0.7613
Batch 7/31, val_loss: 0.8845
Batch 8/31, val_loss: 0.9632
Batch 9/31, val_loss: 0.7475
Batch 10/31, val_loss: 0.9306
Batch 11/31, val_loss: 0.8420
Batch 12/31, val_loss: 0.9794
Batch 13/31, val_loss: 0.9966
Batch 14/31, val_loss: 0.9737
Batch 15/31, val_loss: 0.9883
Batch 16/31, val_loss: 0.9737
Batch 17/31, val_loss: 0.9881
Batch 18/31, val_loss: 0.9506
Batch 19/31, val_loss: 0.8236
Batch 20/31, val_loss: 0.8966
Batch 21/31, val_loss: 0.9004
Batch 22/31, val_loss: 0.9949
Batch 23/31, val_loss: 0.9987
Batch 24/31, val_loss: 0.7791
Batch 25/31, val_loss: 0.8178
Batch 26/31, val_loss: 0.9303
Batch 27/31, val_loss: 0.9946
Batch 28/31, val_loss: 0.7787
Batch 29/31, val_loss: 0.9909
Batch 30/31, val_loss: 0.9789
Batch 31/31, val_loss: 0.9761



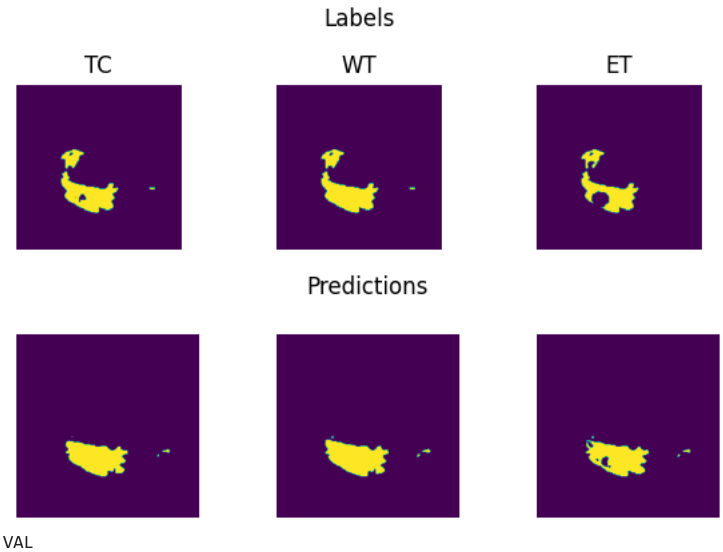
epoch 18
average train loss: 0.4576
average validation loss: 0.9239

```
   saved as best model: False
   current mean dice: 0.4388
   current TC dice: 0.4565
   current WT dice: 0.4716
   current ET dice: 0.4284
Best Mean Metric: 0.4573
time consuming of epoch 18 is: 1727.2263
----------
epoch 19/100
TRAIN
   Batch 1/248, train_loss: 0.1164, step time: 1.4461
   Batch 2/248, train_loss: 0.8794, step time: 1.3783
   Batch 3/248, train_loss: 0.5397, step time: 1.3747
   Batch 4/248, train_loss: 0.9968, step time: 1.3638
   Batch 5/248, train_loss: 0.3368, step time: 1.3601
   Batch 6/248, train_loss: 0.6302, step time: 1.3728
   Batch 7/248, train_loss: 0.0947, step time: 1.3721
   Batch 8/248, train_loss: 0.7150, step time: 1.3904
   Batch 9/248, train_loss: 0.0805, step time: 1.3577
   Batch 10/248, train_loss: 0.3197, step time: 1.3929
   Batch 11/248, train_loss: 0.4244, step time: 1.3671
   Batch 12/248, train_loss: 0.6696, step time: 1.3794
   Batch 13/248, train_loss: 0.4679, step time: 1.3813
   Batch 14/248, train_loss: 0.0736, step time: 1.3719
   Batch 15/248, train_loss: 0.4068, step time: 1.3971
   Batch 16/248, train_loss: 0.2223, step time: 1.3675
   Batch 17/248, train_loss: 0.7543, step time: 1.3630
   Batch 18/248, train_loss: 0.6405, step time: 1.3661
   Batch 19/248, train_loss: 0.2259, step time: 1.3750
   Batch 20/248, train_loss: 0.2451, step time: 1.3592
   Batch 21/248, train_loss: 0.0649, step time: 1.3886
   Batch 22/248, train_loss: 0.9988, step time: 1.3551
   Batch 23/248, train_loss: 0.9938, step time: 1.3764
   Batch 24/248, train_loss: 0.1174, step time: 1.3871
   Batch 25/248, train_loss: 0.0946, step time: 1.4006
   Batch 26/248, train_loss: 0.5695, step time: 1.4119
   Batch 27/248, train_loss: 0.0768, step time: 1.3697
   Batch 28/248, train_loss: 0.2063, step time: 1.3732
   Batch 29/248, train_loss: 0.6787, step time: 1.3762
   Batch 30/248, train_loss: 0.4496, step time: 1.3860
   Batch 31/248, train_loss: 0.4032, step time: 1.3886
   Batch 32/248, train_loss: 0.1063, step time: 1.3865
   Batch 33/248, train_loss: 0.1071, step time: 1.3804
   Batch 34/248, train_loss: 0.0600, step time: 1.3581
   Batch 35/248, train_loss: 0.0885, step time: 1.3534
   Batch 36/248, train_loss: 0.9981, step time: 1.3643
   Batch 37/248, train_loss: 0.2408, step time: 1.3890
   Batch 38/248, train_loss: 0.3960, step time: 1.3936
   Batch 39/248, train_loss: 0.2760, step time: 1.3968
   Batch 40/248, train_loss: 0.9994, step time: 1.3587
   Batch 41/248, train_loss: 0.2207, step time: 1.3605
   Batch 42/248, train_loss: 0.0861, step time: 1.3595
   Batch 43/248, train_loss: 0.0842, step time: 1.3731
   Batch 44/248, train_loss: 0.3274, step time: 1.4086
   Batch 45/248, train_loss: 0.6860, step time: 1.3811
   Batch 46/248, train_loss: 0.2223, step time: 1.3572
   Batch 47/248, train_loss: 0.1278, step time: 1.3645
   Batch 48/248, train_loss: 0.3679, step time: 1.3584
   Batch 49/248, train_loss: 0.5632, step time: 1.3626
   Batch 50/248, train_loss: 0.2119, step time: 1.3667
   Batch 51/248, train_loss: 0.3458, step time: 1.3990
   Batch 52/248, train_loss: 0.2217, step time: 1.3693
   Batch 53/248, train_loss: 0.4760, step time: 1.3932
   Batch 54/248, train_loss: 0.3101, step time: 1.3951
   Batch 55/248, train_loss: 0.3339, step time: 1.3945
   Batch 56/248, train_loss: 0.3032, step time: 1.3785
   Batch 57/248, train_loss: 0.3127, step time: 1.3627
   Batch 58/248, train_loss: 0.0930, step time: 1.3499
   Batch 59/248, train_loss: 0.1498, step time: 1.3808
   Batch 60/248, train_loss: 0.1320, step time: 1.3671
   Batch 61/248, train_loss: 0.1380, step time: 1.3943
   Batch 62/248, train_loss: 0.3712, step time: 1.3869
   Batch 63/248, train_loss: 0.7479, step time: 1.3702
   Batch 64/248, train_loss: 0.6491, step time: 1.3810
   Batch 65/248, train_loss: 0.3488, step time: 1.3655
   Batch 66/248, train_loss: 0.2092, step time: 1.3957
   Batch 67/248, train_loss: 0.1224, step time: 1.3938
   Batch 68/248, train_loss: 0.1309, step time: 1.3944
   Batch 69/248, train_loss: 0.9759, step time: 1.3995
   Batch 70/248, train_loss: 0.1738, step time: 1.3694
   Batch 71/248, train_loss: 0.2762, step time: 1.3949
   Batch 72/248, train_loss: 0.0945, step time: 1.3523
   Batch 73/248, train_loss: 0.5331, step time: 1.3825
   Batch 74/248, train_loss: 0.9994, step time: 1.3345
   Batch 75/248, train_loss: 0.1773, step time: 1.3950
```

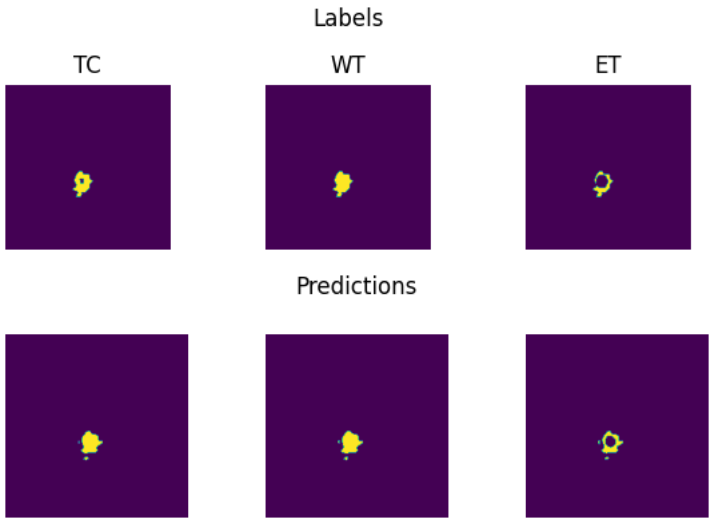
Batch 76/248, train_loss: 0.8309, step time: 1.3913
Batch 77/248, train_loss: 0.9997, step time: 1.3463
Batch 78/248, train_loss: 0.4007, step time: 1.3957
Batch 79/248, train_loss: 0.6565, step time: 1.4017
Batch 80/248, train_loss: 0.8853, step time: 1.3783
Batch 81/248, train_loss: 0.6688, step time: 1.3954
Batch 82/248, train_loss: 0.1404, step time: 1.3933
Batch 83/248, train_loss: 0.9800, step time: 1.3893
Batch 84/248, train_loss: 0.4217, step time: 1.3628
Batch 85/248, train_loss: 0.9158, step time: 1.3520
Batch 86/248, train_loss: 0.6079, step time: 1.3720
Batch 87/248, train_loss: 0.9673, step time: 1.3519
Batch 88/248, train_loss: 0.6459, step time: 1.3660
Batch 89/248, train_loss: 0.2645, step time: 1.3578
Batch 90/248, train_loss: 0.3827, step time: 1.3839
Batch 91/248, train_loss: 0.6260, step time: 1.3751
Batch 92/248, train_loss: 0.8640, step time: 1.3774
Batch 93/248, train_loss: 0.2398, step time: 1.3918
Batch 94/248, train_loss: 0.5872, step time: 1.3734
Batch 95/248, train_loss: 0.2116, step time: 1.3688
Batch 96/248, train_loss: 0.3924, step time: 1.3961
Batch 97/248, train_loss: 0.9530, step time: 1.3790
Batch 98/248, train_loss: 0.2284, step time: 1.3715
Batch 99/248, train_loss: 0.5256, step time: 1.3683
Batch 100/248, train_loss: 0.6470, step time: 1.3961
Batch 101/248, train_loss: 0.1378, step time: 1.3549
Batch 102/248, train_loss: 0.1772, step time: 1.3781
Batch 103/248, train_loss: 0.8298, step time: 1.3911
Batch 104/248, train_loss: 0.4976, step time: 1.3970
Batch 105/248, train_loss: 0.0974, step time: 1.3871
Batch 106/248, train_loss: 0.2188, step time: 1.3695
Batch 107/248, train_loss: 0.8805, step time: 1.3644
Batch 108/248, train_loss: 0.9825, step time: 1.3857
Batch 109/248, train_loss: 0.9944, step time: 1.3858
Batch 110/248, train_loss: 0.5467, step time: 1.4000
Batch 111/248, train_loss: 0.1418, step time: 1.3739
Batch 112/248, train_loss: 0.1708, step time: 1.3797
Batch 113/248, train_loss: 0.9976, step time: 1.3548
Batch 114/248, train_loss: 0.2321, step time: 1.3766
Batch 115/248, train_loss: 0.3233, step time: 1.3666
Batch 116/248, train_loss: 0.1215, step time: 1.3842
Batch 117/248, train_loss: 0.9719, step time: 1.3869
Batch 118/248, train_loss: 0.9867, step time: 1.3759
Batch 119/248, train_loss: 0.4424, step time: 1.3871
Batch 120/248, train_loss: 0.3384, step time: 1.3598
Batch 121/248, train_loss: 0.5676, step time: 1.3803
Batch 122/248, train_loss: 0.6002, step time: 1.3709
Batch 123/248, train_loss: 0.1100, step time: 1.3647
Batch 124/248, train_loss: 0.8310, step time: 1.3751
Batch 125/248, train_loss: 0.6896, step time: 1.3747
Batch 126/248, train_loss: 0.2745, step time: 1.3971
Batch 127/248, train_loss: 0.2567, step time: 1.3813
Batch 128/248, train_loss: 0.4151, step time: 1.3886
Batch 129/248, train_loss: 0.2894, step time: 1.3654
Batch 130/248, train_loss: 0.1856, step time: 1.3590
Batch 131/248, train_loss: 0.8062, step time: 1.3918
Batch 132/248, train_loss: 0.3133, step time: 1.3579
Batch 133/248, train_loss: 0.2589, step time: 1.3636
Batch 134/248, train_loss: 0.9882, step time: 1.3572
Batch 135/248, train_loss: 0.4104, step time: 1.3910
Batch 136/248, train_loss: 0.1852, step time: 1.3724
Batch 137/248, train_loss: 0.1755, step time: 1.3874
Batch 138/248, train_loss: 0.1560, step time: 1.3930
Batch 139/248, train_loss: 0.3937, step time: 1.3750
Batch 140/248, train_loss: 0.1965, step time: 1.3634
Batch 141/248, train_loss: 0.2595, step time: 1.4066
Batch 142/248, train_loss: 0.8343, step time: 1.3634
Batch 143/248, train_loss: 0.3513, step time: 1.3756
Batch 144/248, train_loss: 0.1481, step time: 1.3624
Batch 145/248, train_loss: 0.0739, step time: 1.3676
Batch 146/248, train_loss: 0.8554, step time: 1.3757
Batch 147/248, train_loss: 0.0624, step time: 1.3752
Batch 148/248, train_loss: 0.9563, step time: 1.3634
Batch 149/248, train_loss: 0.1986, step time: 1.3587
Batch 150/248, train_loss: 0.7092, step time: 1.3854
Batch 151/248, train_loss: 0.4135, step time: 1.3820
Batch 152/248, train_loss: 0.0495, step time: 1.3700
Batch 153/248, train_loss: 0.5562, step time: 1.3997
Batch 154/248, train_loss: 0.8710, step time: 1.3667
Batch 155/248, train_loss: 0.1806, step time: 1.3929
Batch 156/248, train_loss: 0.1953, step time: 1.3971
Batch 157/248, train_loss: 0.4029, step time: 1.3805
Batch 158/248, train_loss: 0.9624, step time: 1.3961
Batch 159/248, train_loss: 0.8331, step time: 1.3725
Batch 160/248, train_loss: 0.1372, step time: 1.3698

Batch 160/248, train_loss: 0.1572, step time: 1.3698
Batch 161/248, train_loss: 0.1015, step time: 1.3738
Batch 162/248, train_loss: 0.1158, step time: 1.3665
Batch 163/248, train_loss: 0.2708, step time: 1.3665
Batch 164/248, train_loss: 0.3687, step time: 1.3904
Batch 165/248, train_loss: 0.9848, step time: 1.3814
Batch 166/248, train_loss: 0.1592, step time: 1.4027
Batch 167/248, train_loss: 0.2663, step time: 1.3686
Batch 168/248, train_loss: 0.1941, step time: 1.3613
Batch 169/248, train_loss: 0.1378, step time: 1.3655
Batch 170/248, train_loss: 0.7903, step time: 1.3814
Batch 171/248, train_loss: 0.1059, step time: 1.3711
Batch 172/248, train_loss: 0.9714, step time: 1.3836
Batch 173/248, train_loss: 0.1152, step time: 1.3780
Batch 174/248, train_loss: 0.7147, step time: 1.3725
Batch 175/248, train_loss: 0.2945, step time: 1.3693
Batch 176/248, train_loss: 0.4354, step time: 1.3575
Batch 177/248, train_loss: 0.7745, step time: 1.3623
Batch 178/248, train_loss: 0.3263, step time: 1.3979
Batch 179/248, train_loss: 0.1016, step time: 1.3690
Batch 180/248, train_loss: 0.4110, step time: 1.3801
Batch 181/248, train_loss: 0.1357, step time: 1.3634
Batch 182/248, train_loss: 0.8935, step time: 1.3630
Batch 183/248, train_loss: 0.3696, step time: 1.3865
Batch 184/248, train_loss: 0.6271, step time: 1.3917
Batch 185/248, train_loss: 0.1433, step time: 1.3848
Batch 186/248, train_loss: 0.1274, step time: 1.3844
Batch 187/248, train_loss: 0.2718, step time: 1.3831
Batch 188/248, train_loss: 0.2512, step time: 1.3824
Batch 189/248, train_loss: 0.9651, step time: 1.3673
Batch 190/248, train_loss: 0.1908, step time: 1.3772
Batch 191/248, train_loss: 0.8207, step time: 1.3846
Batch 192/248, train_loss: 0.3061, step time: 1.3699
Batch 193/248, train_loss: 0.3408, step time: 1.3582
Batch 194/248, train_loss: 0.1343, step time: 1.3950
Batch 195/248, train_loss: 0.8251, step time: 1.3912
Batch 196/248, train_loss: 0.9991, step time: 1.3627
Batch 197/248, train_loss: 0.2642, step time: 1.3905
Batch 198/248, train_loss: 0.9997, step time: 1.3496
Batch 199/248, train_loss: 0.1840, step time: 1.3653
Batch 200/248, train_loss: 0.1516, step time: 1.3552
Batch 201/248, train_loss: 0.1576, step time: 1.3519
Batch 202/248, train_loss: 0.5292, step time: 1.3825
Batch 203/248, train_loss: 0.6988, step time: 1.3839
Batch 204/248, train_loss: 0.1125, step time: 1.3910
Batch 205/248, train_loss: 0.3760, step time: 1.3867
Batch 206/248, train_loss: 0.8757, step time: 1.3676
Batch 207/248, train_loss: 0.1367, step time: 1.3938
Batch 208/248, train_loss: 0.2962, step time: 1.4007
Batch 209/248, train_loss: 0.1476, step time: 1.3739
Batch 210/248, train_loss: 0.0888, step time: 1.3935
Batch 211/248, train_loss: 0.0902, step time: 1.3589
Batch 212/248, train_loss: 0.4900, step time: 1.3662
Batch 213/248, train_loss: 0.2487, step time: 1.3843
Batch 214/248, train_loss: 0.1130, step time: 1.3892
Batch 215/248, train_loss: 0.4423, step time: 1.3903
Batch 216/248, train_loss: 0.2477, step time: 1.3752
Batch 217/248, train_loss: 0.3189, step time: 1.4015
Batch 218/248, train_loss: 0.9225, step time: 1.4073
Batch 219/248, train_loss: 0.1186, step time: 1.3715
Batch 220/248, train_loss: 0.2612, step time: 1.3769
Batch 221/248, train_loss: 0.3513, step time: 1.3589
Batch 222/248, train_loss: 0.2078, step time: 1.3577
Batch 223/248, train_loss: 0.0732, step time: 1.3538
Batch 224/248, train_loss: 0.1226, step time: 1.3593
Batch 225/248, train_loss: 0.8965, step time: 1.3773
Batch 226/248, train_loss: 0.3798, step time: 1.3716
Batch 227/248, train_loss: 0.1598, step time: 1.3695
Batch 228/248, train_loss: 0.2670, step time: 1.3945
Batch 229/248, train_loss: 0.1332, step time: 1.3595
Batch 230/248, train_loss: 0.1423, step time: 1.3665
Batch 231/248, train_loss: 0.9901, step time: 1.3860
Batch 232/248, train_loss: 0.0876, step time: 1.3890
Batch 233/248, train_loss: 0.9987, step time: 1.3462
Batch 234/248, train_loss: 0.5549, step time: 1.3612
Batch 235/248, train_loss: 0.4508, step time: 1.3829
Batch 236/248, train_loss: 0.9255, step time: 1.3699
Batch 237/248, train_loss: 0.2099, step time: 1.3790
Batch 238/248, train_loss: 0.1298, step time: 1.3727
Batch 239/248, train_loss: 0.1115, step time: 1.3777
Batch 240/248, train_loss: 0.4249, step time: 1.3766
Batch 241/248, train_loss: 0.9927, step time: 1.3805
Batch 242/248, train_loss: 0.2623, step time: 1.3826
Batch 243/248, train_loss: 0.6289, step time: 1.3743
Batch 244/248, train_loss: 0.5616, step time: 1.3871

```
Batch 245/248, train_loss: 0.1372, step time: 1.3880
Batch 246/248, train_loss: 0.7770, step time: 1.3690
Batch 247/248, train_loss: 0.1396, step time: 1.3785
Batch 248/248, train_loss: 0.9996, step time: 1.3433
```




```
VAL
   Batch 1/31, val_loss: 0.8887
   Batch 2/31, val_loss: 0.9991
   Batch 3/31, val_loss: 0.9766
   Batch 4/31, val_loss: 0.9536
   Batch 5/31, val_loss: 0.9952
   Batch 6/31, val_loss: 0.7669
   Batch 7/31, val_loss: 0.8830
   Batch 8/31, val_loss: 0.9676
   Batch 9/31, val_loss: 0.7391
   Batch 10/31, val_loss: 0.9248
   Batch 11/31, val_loss: 0.8433
   Batch 12/31, val_loss: 0.9759
   Batch 13/31, val_loss: 0.9989
   Batch 14/31, val_loss: 0.9650
   Batch 15/31, val_loss: 0.9885
   Batch 16/31, val_loss: 0.9735
   Batch 17/31, val_loss: 0.9785
   Batch 18/31, val_loss: 0.9555
   Batch 19/31, val_loss: 0.8064
   Batch 20/31, val_loss: 0.9039
   Batch 21/31, val_loss: 0.8951
   Batch 22/31, val_loss: 0.9935
   Batch 23/31, val_loss: 0.9846
   Batch 24/31, val_loss: 0.7650
   Batch 25/31, val_loss: 0.8176
   Batch 26/31, val_loss: 0.9315
   Batch 27/31, val_loss: 0.9824
   Batch 28/31, val_loss: 0.7868
   Batch 29/31, val_loss: 0.9869
   Batch 30/31, val_loss: 0.9699
   Batch 31/31, val_loss: 0.9879
```



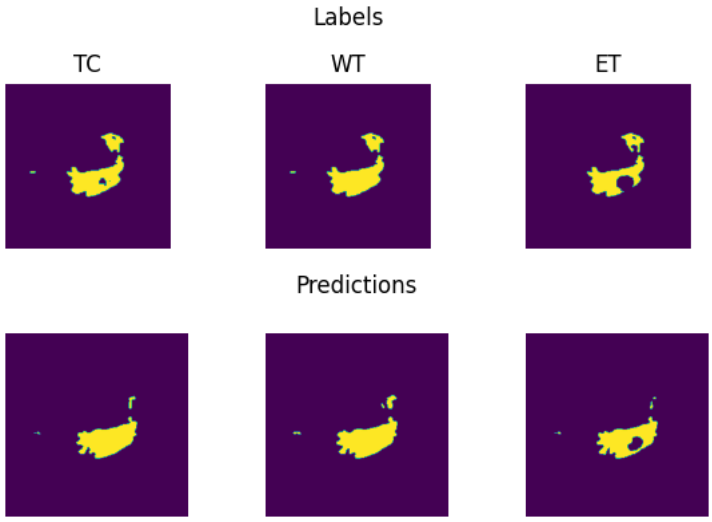

```
epoch 19
   average train loss: 0.4274
   average validation loss: 0.9221
```

```
   saved as best model: True
   current mean dice: 0.4699
   current TC dice: 0.4961
   current WT dice: 0.5148
   current ET dice: 0.4339
Best Mean Metric: 0.4699
time consuming of epoch 19 is: 1703.9426
----------
epoch 20/100
TRAIN
   Batch 1/248, train_loss: 0.0995, step time: 1.4370
   Batch 2/248, train_loss: 0.9490, step time: 1.3825
   Batch 3/248, train_loss: 0.6008, step time: 1.3819
   Batch 4/248, train_loss: 0.9914, step time: 1.3540
   Batch 5/248, train_loss: 0.3243, step time: 1.3730
   Batch 6/248, train_loss: 0.5875, step time: 1.3852
   Batch 7/248, train_loss: 0.1428, step time: 1.3880
   Batch 8/248, train_loss: 0.7449, step time: 1.3778
   Batch 9/248, train_loss: 0.0501, step time: 1.3536
   Batch 10/248, train_loss: 0.3143, step time: 1.3882
   Batch 11/248, train_loss: 0.3083, step time: 1.4063
   Batch 12/248, train_loss: 0.6535, step time: 1.3734
   Batch 13/248, train_loss: 0.4592, step time: 1.3715
   Batch 14/248, train_loss: 0.0644, step time: 1.3497
   Batch 15/248, train_loss: 0.3798, step time: 1.3608
   Batch 16/248, train_loss: 0.2081, step time: 1.3516
   Batch 17/248, train_loss: 0.6564, step time: 1.3794
   Batch 18/248, train_loss: 0.5647, step time: 1.3753
   Batch 19/248, train_loss: 0.1253, step time: 1.3794
   Batch 20/248, train_loss: 0.3718, step time: 1.3971
   Batch 21/248, train_loss: 0.0819, step time: 1.3957
   Batch 22/248, train_loss: 0.9655, step time: 1.3843
   Batch 23/248, train_loss: 0.9951, step time: 1.3580
   Batch 24/248, train_loss: 0.3462, step time: 1.4040
   Batch 25/248, train_loss: 0.1032, step time: 1.3833
   Batch 26/248, train_loss: 0.6625, step time: 1.3752
   Batch 27/248, train_loss: 0.0797, step time: 1.3839
   Batch 28/248, train_loss: 0.2397, step time: 1.3960
   Batch 29/248, train_loss: 0.6004, step time: 1.4008
   Batch 30/248, train_loss: 0.3280, step time: 1.3723
   Batch 31/248, train_loss: 0.8715, step time: 1.3985
   Batch 32/248, train_loss: 0.1141, step time: 1.3615
   Batch 33/248, train_loss: 0.1420, step time: 1.3846
   Batch 34/248, train_loss: 0.0639, step time: 1.3466
   Batch 35/248, train_loss: 0.0994, step time: 1.3722
   Batch 36/248, train_loss: 0.9762, step time: 1.3523
   Batch 37/248, train_loss: 0.2551, step time: 1.3859
   Batch 38/248, train_loss: 0.3778, step time: 1.3501
   Batch 39/248, train_loss: 0.2842, step time: 1.3651
   Batch 40/248, train_loss: 0.9987, step time: 1.3641
   Batch 41/248, train_loss: 0.2033, step time: 1.3897
   Batch 42/248, train_loss: 0.0882, step time: 1.3585
   Batch 43/248, train_loss: 0.0954, step time: 1.3921
   Batch 44/248, train_loss: 0.4057, step time: 1.3634
   Batch 45/248, train_loss: 0.8099, step time: 1.3930
   Batch 46/248, train_loss: 0.2413, step time: 1.3708
   Batch 47/248, train_loss: 0.1264, step time: 1.3738
   Batch 48/248, train_loss: 0.2647, step time: 1.3790
   Batch 49/248, train_loss: 0.5379, step time: 1.3794
   Batch 50/248, train_loss: 0.2549, step time: 1.3711
   Batch 51/248, train_loss: 0.2345, step time: 1.4018
   Batch 52/248, train_loss: 0.2230, step time: 1.3708
   Batch 53/248, train_loss: 0.4940, step time: 1.3650
   Batch 54/248, train_loss: 0.2909, step time: 1.3867
   Batch 55/248, train_loss: 0.3111, step time: 1.3966
   Batch 56/248, train_loss: 0.3037, step time: 1.3984
   Batch 57/248, train_loss: 0.3169, step time: 1.4002
   Batch 58/248, train_loss: 0.0936, step time: 1.3675
   Batch 59/248, train_loss: 0.1214, step time: 1.3756
   Batch 60/248, train_loss: 0.0958, step time: 1.3866
   Batch 61/248, train_loss: 0.1176, step time: 1.3593
   Batch 62/248, train_loss: 0.3430, step time: 1.3799
   Batch 63/248, train_loss: 0.6281, step time: 1.3775
   Batch 64/248, train_loss: 0.6362, step time: 1.3773
   Batch 65/248, train_loss: 0.5649, step time: 1.3948
   Batch 66/248, train_loss: 0.2514, step time: 1.3626
   Batch 67/248, train_loss: 0.1241, step time: 1.3686
   Batch 68/248, train_loss: 0.1204, step time: 1.3784
   Batch 69/248, train_loss: 0.8475, step time: 1.3962
   Batch 70/248, train_loss: 0.1923, step time: 1.3610
   Batch 71/248, train_loss: 0.1585, step time: 1.3823
   Batch 72/248, train_loss: 0.0720, step time: 1.3571
   Batch 73/248, train_loss: 0.1913, step time: 1.3635
   Batch 74/248, train_loss: 0.9966, step time: 1.3837
   Batch 75/248, train_loss: 0.1624, step time: 1.3762
```

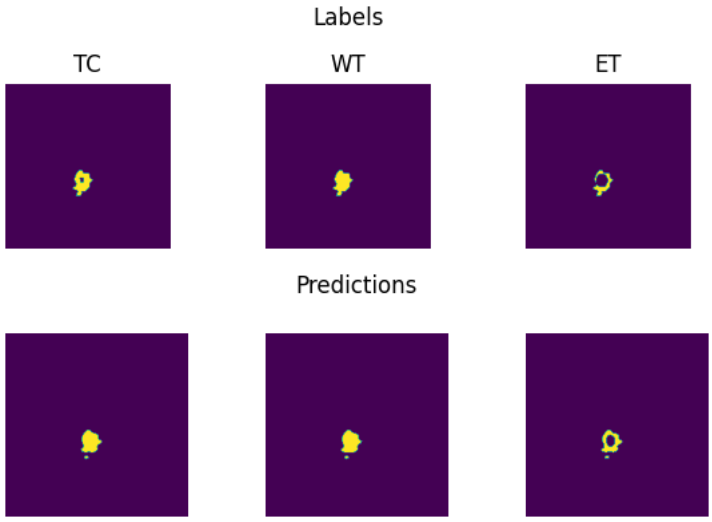
Batch 75/248, train_loss: 0.1654, step time: 1.3762
Batch 76/248, train_loss: 0.7588, step time: 1.3922
Batch 77/248, train_loss: 0.9299, step time: 1.3838
Batch 78/248, train_loss: 0.1379, step time: 1.3642
Batch 79/248, train_loss: 0.1584, step time: 1.3829
Batch 80/248, train_loss: 0.2776, step time: 1.3982
Batch 81/248, train_loss: 0.2382, step time: 1.3786
Batch 82/248, train_loss: 0.1309, step time: 1.3785
Batch 83/248, train_loss: 0.7097, step time: 1.3617
Batch 84/248, train_loss: 0.2927, step time: 1.3874
Batch 85/248, train_loss: 0.6481, step time: 1.3469
Batch 86/248, train_loss: 0.3165, step time: 1.3757
Batch 87/248, train_loss: 0.8827, step time: 1.3572
Batch 88/248, train_loss: 0.7059, step time: 1.3985
Batch 89/248, train_loss: 0.1098, step time: 1.3948
Batch 90/248, train_loss: 0.2836, step time: 1.3626
Batch 91/248, train_loss: 0.5653, step time: 1.3982
Batch 92/248, train_loss: 0.7077, step time: 1.3882
Batch 93/248, train_loss: 0.1808, step time: 1.3838
Batch 94/248, train_loss: 0.5721, step time: 1.4104
Batch 95/248, train_loss: 0.2100, step time: 1.3770
Batch 96/248, train_loss: 0.2534, step time: 1.3884
Batch 97/248, train_loss: 0.9969, step time: 1.3739
Batch 98/248, train_loss: 0.1363, step time: 1.3570
Batch 99/248, train_loss: 0.5287, step time: 1.3600
Batch 100/248, train_loss: 0.6380, step time: 1.4007
Batch 101/248, train_loss: 0.0699, step time: 1.3809
Batch 102/248, train_loss: 0.1697, step time: 1.3662
Batch 103/248, train_loss: 0.9125, step time: 1.3735
Batch 104/248, train_loss: 0.3411, step time: 1.3787
Batch 105/248, train_loss: 0.0939, step time: 1.3949
Batch 106/248, train_loss: 0.2075, step time: 1.3835
Batch 107/248, train_loss: 0.8331, step time: 1.3714
Batch 108/248, train_loss: 0.7675, step time: 1.3879
Batch 109/248, train_loss: 0.9866, step time: 1.3695
Batch 110/248, train_loss: 0.9377, step time: 1.3966
Batch 111/248, train_loss: 0.1279, step time: 1.3928
Batch 112/248, train_loss: 0.1513, step time: 1.3839
Batch 113/248, train_loss: 0.9938, step time: 1.3756
Batch 114/248, train_loss: 0.1608, step time: 1.3796
Batch 115/248, train_loss: 0.2381, step time: 1.3795
Batch 116/248, train_loss: 0.1078, step time: 1.3625
Batch 117/248, train_loss: 0.8978, step time: 1.3957
Batch 118/248, train_loss: 0.9058, step time: 1.3662
Batch 119/248, train_loss: 0.3738, step time: 1.3912
Batch 120/248, train_loss: 0.2929, step time: 1.4009
Batch 121/248, train_loss: 0.3631, step time: 1.4003
Batch 122/248, train_loss: 0.5824, step time: 1.3723
Batch 123/248, train_loss: 0.0983, step time: 1.3720
Batch 124/248, train_loss: 0.3748, step time: 1.4106
Batch 125/248, train_loss: 0.8312, step time: 1.4099
Batch 126/248, train_loss: 0.3361, step time: 1.3870
Batch 127/248, train_loss: 0.1573, step time: 1.3642
Batch 128/248, train_loss: 0.3100, step time: 1.3665
Batch 129/248, train_loss: 0.1396, step time: 1.3644
Batch 130/248, train_loss: 0.1991, step time: 1.3853
Batch 131/248, train_loss: 0.6489, step time: 1.3778
Batch 132/248, train_loss: 0.4077, step time: 1.3844
Batch 133/248, train_loss: 0.3268, step time: 1.3606
Batch 134/248, train_loss: 0.9946, step time: 1.3664
Batch 135/248, train_loss: 0.3774, step time: 1.3919
Batch 136/248, train_loss: 0.1643, step time: 1.3587
Batch 137/248, train_loss: 0.2372, step time: 1.3856
Batch 138/248, train_loss: 0.1280, step time: 1.3661
Batch 139/248, train_loss: 0.1927, step time: 1.3668
Batch 140/248, train_loss: 0.2222, step time: 1.3839
Batch 141/248, train_loss: 0.4247, step time: 1.4098
Batch 142/248, train_loss: 0.7605, step time: 1.3738
Batch 143/248, train_loss: 0.3162, step time: 1.3518
Batch 144/248, train_loss: 0.1300, step time: 1.3584
Batch 145/248, train_loss: 0.0881, step time: 1.3675
Batch 146/248, train_loss: 0.7425, step time: 1.3941
Batch 147/248, train_loss: 0.0619, step time: 1.3848
Batch 148/248, train_loss: 0.9455, step time: 1.3600
Batch 149/248, train_loss: 0.2434, step time: 1.3660
Batch 150/248, train_loss: 0.6341, step time: 1.3676
Batch 151/248, train_loss: 0.9203, step time: 1.3764
Batch 152/248, train_loss: 0.0729, step time: 1.3994
Batch 153/248, train_loss: 0.5199, step time: 1.3868
Batch 154/248, train_loss: 0.9217, step time: 1.3738
Batch 155/248, train_loss: 0.2403, step time: 1.3711
Batch 156/248, train_loss: 0.1987, step time: 1.3938
Batch 157/248, train_loss: 0.4041, step time: 1.3628
Batch 158/248, train_loss: 0.9985, step time: 1.3551
Batch 159/248, train_loss: 0.9284, step time: 1.3751

```
Batch 160/248, train_loss: 0.1808, step time: 1.3931
Batch 161/248, train_loss: 0.1276, step time: 1.3873
Batch 162/248, train_loss: 0.0988, step time: 1.3767
Batch 163/248, train_loss: 0.4842, step time: 1.3944
Batch 164/248, train_loss: 0.2995, step time: 1.3976
Batch 165/248, train_loss: 0.9968, step time: 1.3721
Batch 166/248, train_loss: 0.2029, step time: 1.3617
Batch 167/248, train_loss: 0.2233, step time: 1.3926
Batch 168/248, train_loss: 0.1920, step time: 1.3695
Batch 169/248, train_loss: 0.1260, step time: 1.3949
Batch 170/248, train_loss: 0.7204, step time: 1.3638
Batch 171/248, train_loss: 0.1380, step time: 1.3917
Batch 172/248, train_loss: 0.9308, step time: 1.3644
Batch 173/248, train_loss: 0.1330, step time: 1.3642
Batch 174/248, train_loss: 0.7214, step time: 1.3726
Batch 175/248, train_loss: 0.3475, step time: 1.3644
Batch 176/248, train_loss: 0.4402, step time: 1.3590
Batch 177/248, train_loss: 0.6528, step time: 1.3829
Batch 178/248, train_loss: 0.5801, step time: 1.3790
Batch 179/248, train_loss: 0.1534, step time: 1.3923
Batch 180/248, train_loss: 0.3891, step time: 1.3980
Batch 181/248, train_loss: 0.1359, step time: 1.3922
Batch 182/248, train_loss: 0.9523, step time: 1.3705
Batch 183/248, train_loss: 0.1974, step time: 1.3848
Batch 184/248, train_loss: 0.5595, step time: 1.4048
Batch 185/248, train_loss: 0.1664, step time: 1.3887
Batch 186/248, train_loss: 0.1477, step time: 1.3969
Batch 187/248, train_loss: 0.3145, step time: 1.3916
Batch 188/248, train_loss: 0.2343, step time: 1.3785
Batch 189/248, train_loss: 0.9992, step time: 1.3690
Batch 190/248, train_loss: 0.1873, step time: 1.3793
Batch 191/248, train_loss: 0.9927, step time: 1.3940
Batch 192/248, train_loss: 0.3109, step time: 1.3651
Batch 193/248, train_loss: 0.3085, step time: 1.3970
Batch 194/248, train_loss: 0.1218, step time: 1.3701
Batch 195/248, train_loss: 0.9958, step time: 1.3754
Batch 196/248, train_loss: 0.9999, step time: 1.3737
Batch 197/248, train_loss: 0.3262, step time: 1.3673
Batch 198/248, train_loss: 0.9995, step time: 1.3783
Batch 199/248, train_loss: 0.2299, step time: 1.3780
Batch 200/248, train_loss: 0.1931, step time: 1.3673
Batch 201/248, train_loss: 0.1616, step time: 1.3897
Batch 202/248, train_loss: 0.6993, step time: 1.3914
Batch 203/248, train_loss: 0.6112, step time: 1.3617
Batch 204/248, train_loss: 0.2052, step time: 1.3670
Batch 205/248, train_loss: 0.3872, step time: 1.3917
Batch 206/248, train_loss: 0.7667, step time: 1.3816
Batch 207/248, train_loss: 0.1678, step time: 1.3898
Batch 208/248, train_loss: 0.2369, step time: 1.3965
Batch 209/248, train_loss: 0.1659, step time: 1.3935
Batch 210/248, train_loss: 0.0965, step time: 1.3492
Batch 211/248, train_loss: 0.1047, step time: 1.3664
Batch 212/248, train_loss: 0.3032, step time: 1.3764
Batch 213/248, train_loss: 0.2343, step time: 1.3926
Batch 214/248, train_loss: 0.1136, step time: 1.3496
Batch 215/248, train_loss: 0.4118, step time: 1.3655
Batch 216/248, train_loss: 0.3058, step time: 1.3956
Batch 217/248, train_loss: 0.3053, step time: 1.3870
Batch 218/248, train_loss: 0.9400, step time: 1.4078
Batch 219/248, train_loss: 0.0919, step time: 1.3632
Batch 220/248, train_loss: 0.2669, step time: 1.3940
Batch 221/248, train_loss: 0.3652, step time: 1.4007
Batch 222/248, train_loss: 0.3360, step time: 1.3654
Batch 223/248, train_loss: 0.0707, step time: 1.3659
Batch 224/248, train_loss: 0.1401, step time: 1.3540
Batch 225/248, train_loss: 0.8652, step time: 1.3967
Batch 226/248, train_loss: 0.5840, step time: 1.3552
Batch 227/248, train_loss: 0.1549, step time: 1.3748
Batch 228/248, train_loss: 0.3446, step time: 1.3645
Batch 229/248, train_loss: 0.1482, step time: 1.3866
Batch 230/248, train_loss: 0.1172, step time: 1.3741
Batch 231/248, train_loss: 0.9877, step time: 1.3605
Batch 232/248, train_loss: 0.0943, step time: 1.3661
Batch 233/248, train_loss: 0.9982, step time: 1.3508
Batch 234/248, train_loss: 0.5209, step time: 1.3678
Batch 235/248, train_loss: 0.4241, step time: 1.3906
Batch 236/248, train_loss: 0.8479, step time: 1.3715
Batch 237/248, train_loss: 0.1764, step time: 1.4002
Batch 238/248, train_loss: 0.1212, step time: 1.3594
Batch 239/248, train_loss: 0.2995, step time: 1.3856
Batch 240/248, train_loss: 0.5385, step time: 1.3691
Batch 241/248, train_loss: 0.9288, step time: 1.3736
Batch 242/248, train_loss: 0.2330, step time: 1.3876
Batch 243/248, train_loss: 0.5448, step time: 1.3722
Batch 244/248, train_loss: 0.5500, step time: 1.3601
```

```
   Batch 245/248, train_loss: 0.0879, step time: 1.3812
   Batch 246/248, train_loss: 0.7233, step time: 1.3770
   Batch 247/248, train_loss: 0.1299, step time: 1.3846
   Batch 248/248, train_loss: 0.9997, step time: 1.3749
```




```
VAL
   Batch 1/31, val_loss: 0.8507
   Batch 2/31, val_loss: 0.9992
   Batch 3/31, val_loss: 0.9772
   Batch 4/31, val_loss: 0.9570
   Batch 5/31, val_loss: 0.9994
   Batch 6/31, val_loss: 0.7190
   Batch 7/31, val_loss: 0.8482
   Batch 8/31, val_loss: 0.9641
   Batch 9/31, val_loss: 0.7142
   Batch 10/31, val_loss: 0.9236
   Batch 11/31, val_loss: 0.8290
   Batch 12/31, val_loss: 0.9729
   Batch 13/31, val_loss: 0.9961
   Batch 14/31, val_loss: 0.9639
   Batch 15/31, val_loss: 0.9877
   Batch 16/31, val_loss: 0.9737
   Batch 17/31, val_loss: 0.9790
   Batch 18/31, val_loss: 0.9485
   Batch 19/31, val_loss: 0.7777
   Batch 20/31, val_loss: 0.8681
   Batch 21/31, val_loss: 0.8975
   Batch 22/31, val_loss: 0.9923
   Batch 23/31, val_loss: 0.9904
   Batch 24/31, val_loss: 0.7569
   Batch 25/31, val_loss: 0.8128
   Batch 26/31, val_loss: 0.9270
   Batch 27/31, val_loss: 0.9852
   Batch 28/31, val_loss: 0.7544
   Batch 29/31, val_loss: 0.9875
   Batch 30/31, val_loss: 0.9720
   Batch 31/31, val_loss: 0.9753
```



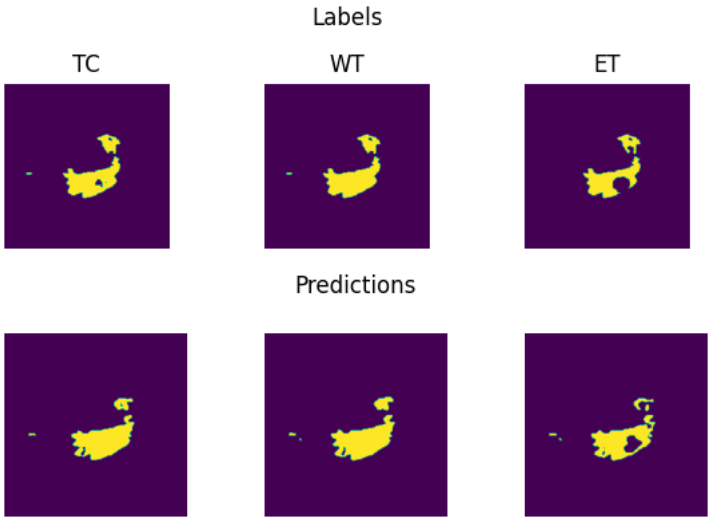

```
epoch 20
   average train loss: 0.4117
```

```
   average validation loss: 0.9129
   saved as best model: True
   current mean dice: 0.4876
   current TC dice: 0.5114
   current WT dice: 0.5163
   current ET dice: 0.4790
Best Mean Metric: 0.4876
time consuming of epoch 20 is: 1706.9156
----------
epoch 21/100
TRAIN
   Batch 1/248, train_loss: 0.0871, step time: 1.4339
   Batch 2/248, train_loss: 0.9561, step time: 1.3932
   Batch 3/248, train_loss: 0.4984, step time: 1.3863
   Batch 4/248, train_loss: 0.9965, step time: 1.3841
   Batch 5/248, train_loss: 0.2830, step time: 1.3709
   Batch 6/248, train_loss: 0.6343, step time: 1.3870
   Batch 7/248, train_loss: 0.1148, step time: 1.3684
   Batch 8/248, train_loss: 0.7019, step time: 1.3996
   Batch 9/248, train_loss: 0.0490, step time: 1.3565
   Batch 10/248, train_loss: 0.3103, step time: 1.3677
   Batch 11/248, train_loss: 0.9476, step time: 1.4057
   Batch 12/248, train_loss: 0.6237, step time: 1.3938
   Batch 13/248, train_loss: 0.4564, step time: 1.3904
   Batch 14/248, train_loss: 0.0608, step time: 1.3851
   Batch 15/248, train_loss: 0.3804, step time: 1.3638
   Batch 16/248, train_loss: 0.2066, step time: 1.3890
   Batch 17/248, train_loss: 0.5913, step time: 1.3950
   Batch 18/248, train_loss: 0.4454, step time: 1.3992
   Batch 19/248, train_loss: 0.1382, step time: 1.3871
   Batch 20/248, train_loss: 0.3177, step time: 1.3686
   Batch 21/248, train_loss: 0.0858, step time: 1.3980
   Batch 22/248, train_loss: 0.9784, step time: 1.3563
   Batch 23/248, train_loss: 0.9885, step time: 1.3615
   Batch 24/248, train_loss: 0.1302, step time: 1.4043
   Batch 25/248, train_loss: 0.1349, step time: 1.3953
   Batch 26/248, train_loss: 0.5730, step time: 1.4064
   Batch 27/248, train_loss: 0.0744, step time: 1.3686
   Batch 28/248, train_loss: 0.5242, step time: 1.4117
   Batch 29/248, train_loss: 0.5647, step time: 1.3997
   Batch 30/248, train_loss: 0.3517, step time: 1.3821
   Batch 31/248, train_loss: 0.4977, step time: 1.3590
   Batch 32/248, train_loss: 0.1274, step time: 1.3821
   Batch 33/248, train_loss: 0.1263, step time: 1.3727
   Batch 34/248, train_loss: 0.0633, step time: 1.3552
   Batch 35/248, train_loss: 0.1126, step time: 1.3531
   Batch 36/248, train_loss: 0.9992, step time: 1.3519
   Batch 37/248, train_loss: 0.1968, step time: 1.3805
   Batch 38/248, train_loss: 0.3980, step time: 1.3990
   Batch 39/248, train_loss: 0.2115, step time: 1.3998
   Batch 40/248, train_loss: 0.9969, step time: 1.3637
   Batch 41/248, train_loss: 0.1837, step time: 1.3508
   Batch 42/248, train_loss: 0.0702, step time: 1.3734
   Batch 43/248, train_loss: 0.1437, step time: 1.3845
   Batch 44/248, train_loss: 0.3420, step time: 1.3527
   Batch 45/248, train_loss: 0.8682, step time: 1.3689
   Batch 46/248, train_loss: 0.2881, step time: 1.3640
   Batch 47/248, train_loss: 0.1013, step time: 1.3738
   Batch 48/248, train_loss: 0.3146, step time: 1.3884
   Batch 49/248, train_loss: 0.5188, step time: 1.3938
   Batch 50/248, train_loss: 0.2325, step time: 1.3585
   Batch 51/248, train_loss: 0.1814, step time: 1.3622
   Batch 52/248, train_loss: 0.1956, step time: 1.3637
   Batch 53/248, train_loss: 0.5168, step time: 1.3904
   Batch 54/248, train_loss: 0.2586, step time: 1.3763
   Batch 55/248, train_loss: 0.3123, step time: 1.3666
   Batch 56/248, train_loss: 0.2944, step time: 1.3732
   Batch 57/248, train_loss: 0.3174, step time: 1.3867
   Batch 58/248, train_loss: 0.0912, step time: 1.3694
   Batch 59/248, train_loss: 0.1138, step time: 1.3841
   Batch 60/248, train_loss: 0.1077, step time: 1.3901
   Batch 61/248, train_loss: 0.1431, step time: 1.3785
   Batch 62/248, train_loss: 0.3174, step time: 1.3788
   Batch 63/248, train_loss: 0.7361, step time: 1.3843
   Batch 64/248, train_loss: 0.5758, step time: 1.3688
   Batch 65/248, train_loss: 0.5144, step time: 1.3664
   Batch 66/248, train_loss: 0.1884, step time: 1.3746
   Batch 67/248, train_loss: 0.1124, step time: 1.3880
   Batch 68/248, train_loss: 0.1095, step time: 1.3913
   Batch 69/248, train_loss: 0.9373, step time: 1.4104
   Batch 70/248, train_loss: 0.1728, step time: 1.3688
   Batch 71/248, train_loss: 0.1651, step time: 1.3820
   Batch 72/248, train_loss: 0.0806, step time: 1.3646
   Batch 73/248, train_loss: 0.1568, step time: 1.3882
   Batch 74/248, train_loss: 0.9950, step time: 1.3686
```

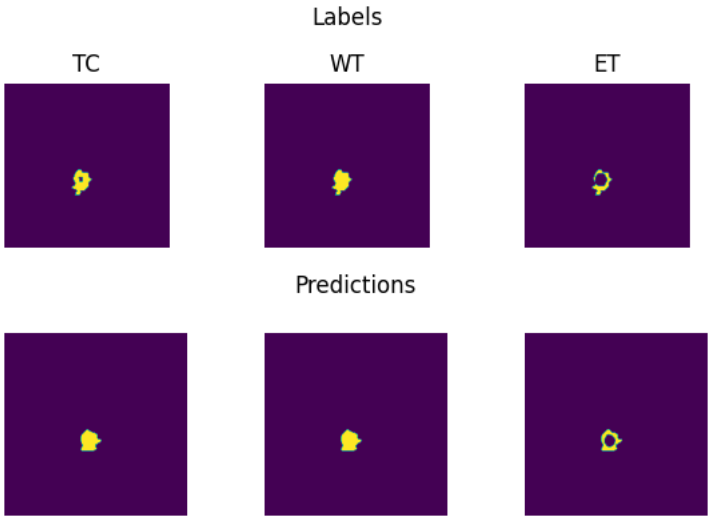
```
Batch 75/248, train_loss: 0.2027, step time: 1.3597
Batch 76/248, train_loss: 0.7966, step time: 1.3744
Batch 77/248, train_loss: 0.9731, step time: 1.3616
Batch 78/248, train_loss: 0.1634, step time: 1.4008
Batch 79/248, train_loss: 0.1547, step time: 1.4055
Batch 80/248, train_loss: 0.2420, step time: 1.4003
Batch 81/248, train_loss: 0.2007, step time: 1.3934
Batch 82/248, train_loss: 0.1211, step time: 1.3798
Batch 83/248, train_loss: 0.8285, step time: 1.3632
Batch 84/248, train_loss: 0.2989, step time: 1.3790
Batch 85/248, train_loss: 0.8556, step time: 1.3772
Batch 86/248, train_loss: 0.2992, step time: 1.3956
Batch 87/248, train_loss: 0.9079, step time: 1.3640
Batch 88/248, train_loss: 0.5286, step time: 1.3513
Batch 89/248, train_loss: 0.0979, step time: 1.3700
Batch 90/248, train_loss: 0.4154, step time: 1.4078
Batch 91/248, train_loss: 0.5164, step time: 1.3712
Batch 92/248, train_loss: 0.8576, step time: 1.3985
Batch 93/248, train_loss: 0.2032, step time: 1.3707
Batch 94/248, train_loss: 0.4863, step time: 1.3790
Batch 95/248, train_loss: 0.1942, step time: 1.3640
Batch 96/248, train_loss: 0.4703, step time: 1.3868
Batch 97/248, train_loss: 0.9778, step time: 1.3942
Batch 98/248, train_loss: 0.1801, step time: 1.3833
Batch 99/248, train_loss: 0.4532, step time: 1.3806
Batch 100/248, train_loss: 0.6023, step time: 1.3862
Batch 101/248, train_loss: 0.0644, step time: 1.3772
Batch 102/248, train_loss: 0.1470, step time: 1.3787
Batch 103/248, train_loss: 0.8030, step time: 1.3878
Batch 104/248, train_loss: 0.3646, step time: 1.3613
Batch 105/248, train_loss: 0.1197, step time: 1.3647
Batch 106/248, train_loss: 0.2485, step time: 1.3724
Batch 107/248, train_loss: 0.7695, step time: 1.4017
Batch 108/248, train_loss: 0.7099, step time: 1.3741
Batch 109/248, train_loss: 0.9966, step time: 1.3826
Batch 110/248, train_loss: 0.8733, step time: 1.3878
Batch 111/248, train_loss: 0.1298, step time: 1.3855
Batch 112/248, train_loss: 0.1951, step time: 1.3553
Batch 113/248, train_loss: 0.9808, step time: 1.3864
Batch 114/248, train_loss: 0.1727, step time: 1.3537
Batch 115/248, train_loss: 0.1679, step time: 1.3720
Batch 116/248, train_loss: 0.1001, step time: 1.3638
Batch 117/248, train_loss: 0.9329, step time: 1.3758
Batch 118/248, train_loss: 0.9528, step time: 1.3609
Batch 119/248, train_loss: 0.4095, step time: 1.3974
Batch 120/248, train_loss: 0.3079, step time: 1.3761
Batch 121/248, train_loss: 0.3708, step time: 1.3958
Batch 122/248, train_loss: 0.5543, step time: 1.3847
Batch 123/248, train_loss: 0.1067, step time: 1.3621
Batch 124/248, train_loss: 0.5012, step time: 1.3925
Batch 125/248, train_loss: 0.7549, step time: 1.4042
Batch 126/248, train_loss: 0.2072, step time: 1.3769
Batch 127/248, train_loss: 0.1577, step time: 1.3538
Batch 128/248, train_loss: 0.2053, step time: 1.3827
Batch 129/248, train_loss: 0.1331, step time: 1.3690
Batch 130/248, train_loss: 0.1384, step time: 1.3524
Batch 131/248, train_loss: 0.7945, step time: 1.3920
Batch 132/248, train_loss: 0.3444, step time: 1.3601
Batch 133/248, train_loss: 0.1908, step time: 1.3652
Batch 134/248, train_loss: 0.9660, step time: 1.3878
Batch 135/248, train_loss: 0.3055, step time: 1.3976
Batch 136/248, train_loss: 0.2069, step time: 1.3910
Batch 137/248, train_loss: 0.1637, step time: 1.3979
Batch 138/248, train_loss: 0.0950, step time: 1.3855
Batch 139/248, train_loss: 0.1823, step time: 1.3718
Batch 140/248, train_loss: 0.1838, step time: 1.3847
Batch 141/248, train_loss: 0.2245, step time: 1.3880
Batch 142/248, train_loss: 0.6522, step time: 1.3905
Batch 143/248, train_loss: 0.2932, step time: 1.4017
Batch 144/248, train_loss: 0.1463, step time: 1.3581
Batch 145/248, train_loss: 0.0689, step time: 1.3804
Batch 146/248, train_loss: 0.7349, step time: 1.3707
Batch 147/248, train_loss: 0.0649, step time: 1.3748
Batch 148/248, train_loss: 0.9380, step time: 1.3776
Batch 149/248, train_loss: 0.1713, step time: 1.3765
Batch 150/248, train_loss: 0.6586, step time: 1.3663
Batch 151/248, train_loss: 0.7028, step time: 1.3721
Batch 152/248, train_loss: 0.0552, step time: 1.3758
Batch 153/248, train_loss: 0.4639, step time: 1.4014
Batch 154/248, train_loss: 0.6911, step time: 1.3839
Batch 155/248, train_loss: 0.1217, step time: 1.3626
Batch 156/248, train_loss: 0.2651, step time: 1.4004
Batch 157/248, train_loss: 0.3797, step time: 1.3662
Batch 158/248, train_loss: 0.9402, step time: 1.3864
Batch 159/248, train_loss: 0.7562, step time: 1.3820
```

Batch 160/248, train_loss: 0.1266, step time: 1.3883
Batch 161/248, train_loss: 0.1257, step time: 1.3814
Batch 162/248, train_loss: 0.1678, step time: 1.3732
Batch 163/248, train_loss: 0.2223, step time: 1.3691
Batch 164/248, train_loss: 0.3496, step time: 1.4008
Batch 165/248, train_loss: 0.9659, step time: 1.3719
Batch 166/248, train_loss: 0.1863, step time: 1.4029
Batch 167/248, train_loss: 0.2860, step time: 1.3812
Batch 168/248, train_loss: 0.1936, step time: 1.3619
Batch 169/248, train_loss: 0.1376, step time: 1.3876
Batch 170/248, train_loss: 0.7017, step time: 1.3659
Batch 171/248, train_loss: 0.1163, step time: 1.3568
Batch 172/248, train_loss: 0.9317, step time: 1.4015
Batch 173/248, train_loss: 0.1147, step time: 1.3633
Batch 174/248, train_loss: 0.5407, step time: 1.3705
Batch 175/248, train_loss: 0.3266, step time: 1.3774
Batch 176/248, train_loss: 0.4329, step time: 1.3815
Batch 177/248, train_loss: 0.7160, step time: 1.3925
Batch 178/248, train_loss: 0.6910, step time: 1.3816
Batch 179/248, train_loss: 0.1168, step time: 1.3939
Batch 180/248, train_loss: 0.5001, step time: 1.3893
Batch 181/248, train_loss: 0.1209, step time: 1.3729
Batch 182/248, train_loss: 0.8940, step time: 1.3560
Batch 183/248, train_loss: 0.3738, step time: 1.3815
Batch 184/248, train_loss: 0.4939, step time: 1.3887
Batch 185/248, train_loss: 0.1376, step time: 1.3585
Batch 186/248, train_loss: 0.1178, step time: 1.3609
Batch 187/248, train_loss: 0.2359, step time: 1.3855
Batch 188/248, train_loss: 0.2181, step time: 1.3656
Batch 189/248, train_loss: 0.9619, step time: 1.3895
Batch 190/248, train_loss: 0.1978, step time: 1.3915
Batch 191/248, train_loss: 0.7926, step time: 1.3752
Batch 192/248, train_loss: 0.3014, step time: 1.3947
Batch 193/248, train_loss: 0.2951, step time: 1.3892
Batch 194/248, train_loss: 0.1198, step time: 1.3631
Batch 195/248, train_loss: 0.7739, step time: 1.3831
Batch 196/248, train_loss: 0.9997, step time: 1.3727
Batch 197/248, train_loss: 0.2304, step time: 1.3726
Batch 198/248, train_loss: 0.9992, step time: 1.3664
Batch 199/248, train_loss: 0.1855, step time: 1.3776
Batch 200/248, train_loss: 0.1781, step time: 1.3654
Batch 201/248, train_loss: 0.1604, step time: 1.3553
Batch 202/248, train_loss: 0.5202, step time: 1.3902
Batch 203/248, train_loss: 0.6327, step time: 1.3829
Batch 204/248, train_loss: 0.0986, step time: 1.3644
Batch 205/248, train_loss: 0.3765, step time: 1.3630
Batch 206/248, train_loss: 0.8689, step time: 1.3709
Batch 207/248, train_loss: 0.1038, step time: 1.3529
Batch 208/248, train_loss: 0.2284, step time: 1.3613
Batch 209/248, train_loss: 0.1365, step time: 1.3680
Batch 210/248, train_loss: 0.0756, step time: 1.3664
Batch 211/248, train_loss: 0.1041, step time: 1.3837
Batch 212/248, train_loss: 0.2887, step time: 1.3902
Batch 213/248, train_loss: 0.2589, step time: 1.3665
Batch 214/248, train_loss: 0.1008, step time: 1.3640
Batch 215/248, train_loss: 0.4050, step time: 1.3762
Batch 216/248, train_loss: 0.2089, step time: 1.3719
Batch 217/248, train_loss: 0.3092, step time: 1.3732
Batch 218/248, train_loss: 0.8325, step time: 1.3730
Batch 219/248, train_loss: 0.0924, step time: 1.3895
Batch 220/248, train_loss: 0.2722, step time: 1.3984
Batch 221/248, train_loss: 0.3299, step time: 1.3948
Batch 222/248, train_loss: 0.1985, step time: 1.3869
Batch 223/248, train_loss: 0.0586, step time: 1.3892
Batch 224/248, train_loss: 0.1145, step time: 1.3722
Batch 225/248, train_loss: 0.7613, step time: 1.3788
Batch 226/248, train_loss: 0.3267, step time: 1.3684
Batch 227/248, train_loss: 0.1503, step time: 1.3604
Batch 228/248, train_loss: 0.2491, step time: 1.3865
Batch 229/248, train_loss: 0.1631, step time: 1.3914
Batch 230/248, train_loss: 0.1070, step time: 1.3873
Batch 231/248, train_loss: 0.8845, step time: 1.3863
Batch 232/248, train_loss: 0.0836, step time: 1.3678
Batch 233/248, train_loss: 0.9939, step time: 1.3577
Batch 234/248, train_loss: 0.5219, step time: 1.3644
Batch 235/248, train_loss: 0.4274, step time: 1.3730
Batch 236/248, train_loss: 0.8422, step time: 1.3618
Batch 237/248, train_loss: 0.1645, step time: 1.3745
Batch 238/248, train_loss: 0.1275, step time: 1.3710
Batch 239/248, train_loss: 0.0990, step time: 1.3796
Batch 240/248, train_loss: 0.5546, step time: 1.3564
Batch 241/248, train_loss: 0.9770, step time: 1.3816
Batch 242/248, train_loss: 0.1993, step time: 1.3670
Batch 243/248, train_loss: 0.5404, step time: 1.3702
Batch 244/248, train_loss: 0.5277, step time: 1.3650

Batch 245/248, train_loss: 0.0961, step time: 1.3939
Batch 246/248, train_loss: 0.7422, step time: 1.3813
Batch 247/248, train_loss: 0.1055, step time: 1.3724
Batch 248/248, train_loss: 0.9997, step time: 1.3836



VAL
Batch 1/31, val_loss: 0.8604
Batch 2/31, val_loss: 0.9995
Batch 3/31, val_loss: 0.9769
Batch 4/31, val_loss: 0.9565
Batch 5/31, val_loss: 0.9991
Batch 6/31, val_loss: 0.7700
Batch 7/31, val_loss: 0.8833
Batch 8/31, val_loss: 0.9681
Batch 9/31, val_loss: 0.7249
Batch 10/31, val_loss: 0.9236
Batch 11/31, val_loss: 0.8464
Batch 12/31, val_loss: 0.9727
Batch 13/31, val_loss: 0.9966
Batch 14/31, val_loss: 0.9510
Batch 15/31, val_loss: 0.9876
Batch 16/31, val_loss: 0.9742
Batch 17/31, val_loss: 0.9774
Batch 18/31, val_loss: 0.9548
Batch 19/31, val_loss: 0.7684
Batch 20/31, val_loss: 0.9087
Batch 21/31, val_loss: 0.9211
Batch 22/31, val_loss: 0.9914
Batch 23/31, val_loss: 0.9765
Batch 24/31, val_loss: 0.7752
Batch 25/31, val_loss: 0.8192
Batch 26/31, val_loss: 0.9293
Batch 27/31, val_loss: 0.9899
Batch 28/31, val_loss: 0.7586
Batch 29/31, val_loss: 0.9854
Batch 30/31, val_loss: 0.9710
Batch 31/31, val_loss: 0.9766



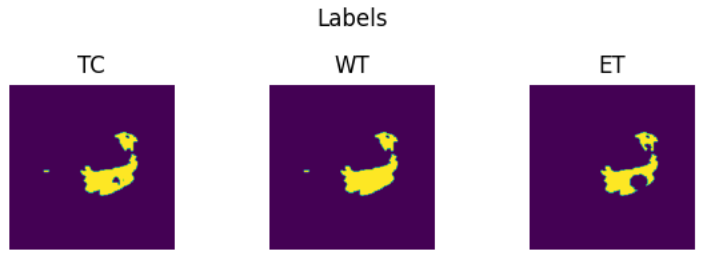
epoch 21
average train loss: 0.3950

```
   average validation loss: 0.9192
   saved as best model: True
   current mean dice: 0.5148
   current TC dice: 0.5467
   current WT dice: 0.5625
   current ET dice: 0.4747
Best Mean Metric: 0.5148
time consuming of epoch 21 is: 1732.8103
----------
epoch 22/100
TRAIN
   Batch 1/248, train_loss: 0.1182, step time: 1.4291
   Batch 2/248, train_loss: 0.9362, step time: 1.3925
   Batch 3/248, train_loss: 0.3941, step time: 1.3694
   Batch 4/248, train_loss: 0.9952, step time: 1.3666
   Batch 5/248, train_loss: 0.3034, step time: 1.3776
   Batch 6/248, train_loss: 0.4847, step time: 1.3938
   Batch 7/248, train_loss: 0.0864, step time: 1.3780
   Batch 8/248, train_loss: 0.7275, step time: 1.3795
   Batch 9/248, train_loss: 0.0523, step time: 1.3933
   Batch 10/248, train_loss: 0.3165, step time: 1.3711
   Batch 11/248, train_loss: 0.3001, step time: 1.3631
   Batch 12/248, train_loss: 0.6107, step time: 1.3628
   Batch 13/248, train_loss: 0.4386, step time: 1.3717
   Batch 14/248, train_loss: 0.0623, step time: 1.3419
   Batch 15/248, train_loss: 0.4013, step time: 1.3622
   Batch 16/248, train_loss: 0.2519, step time: 1.3788
   Batch 17/248, train_loss: 0.5279, step time: 1.4041
   Batch 18/248, train_loss: 0.3957, step time: 1.3578
   Batch 19/248, train_loss: 0.1170, step time: 1.3880
   Batch 20/248, train_loss: 0.1941, step time: 1.3669
   Batch 21/248, train_loss: 0.0779, step time: 1.3633
   Batch 22/248, train_loss: 0.9987, step time: 1.3553
   Batch 23/248, train_loss: 0.9942, step time: 1.3564
   Batch 24/248, train_loss: 0.1248, step time: 1.3634
   Batch 25/248, train_loss: 0.0904, step time: 1.3933
   Batch 26/248, train_loss: 0.5161, step time: 1.3963
   Batch 27/248, train_loss: 0.0772, step time: 1.3700
   Batch 28/248, train_loss: 0.2092, step time: 1.3787
   Batch 29/248, train_loss: 0.5854, step time: 1.3714
   Batch 30/248, train_loss: 0.3006, step time: 1.3646
   Batch 31/248, train_loss: 0.7465, step time: 1.3900
   Batch 32/248, train_loss: 0.1041, step time: 1.3583
   Batch 33/248, train_loss: 0.1671, step time: 1.3795
   Batch 34/248, train_loss: 0.0563, step time: 1.3619
   Batch 35/248, train_loss: 0.0916, step time: 1.3668
   Batch 36/248, train_loss: 0.9423, step time: 1.3631
   Batch 37/248, train_loss: 0.1791, step time: 1.3985
   Batch 38/248, train_loss: 0.3555, step time: 1.3630
   Batch 39/248, train_loss: 0.2135, step time: 1.3679
   Batch 40/248, train_loss: 0.9954, step time: 1.3778
   Batch 41/248, train_loss: 0.2380, step time: 1.3676
   Batch 42/248, train_loss: 0.0958, step time: 1.3577
   Batch 43/248, train_loss: 0.0846, step time: 1.3655
   Batch 44/248, train_loss: 0.1681, step time: 1.3811
   Batch 45/248, train_loss: 0.7402, step time: 1.3742
   Batch 46/248, train_loss: 0.2340, step time: 1.3834
   Batch 47/248, train_loss: 0.1095, step time: 1.3812
   Batch 48/248, train_loss: 0.2910, step time: 1.3948
   Batch 49/248, train_loss: 0.5149, step time: 1.3751
   Batch 50/248, train_loss: 0.2126, step time: 1.3607
   Batch 51/248, train_loss: 0.2423, step time: 1.3912
   Batch 52/248, train_loss: 0.2085, step time: 1.3930
   Batch 53/248, train_loss: 0.4841, step time: 1.3896
   Batch 54/248, train_loss: 0.2812, step time: 1.4047
   Batch 55/248, train_loss: 0.3021, step time: 1.3829
   Batch 56/248, train_loss: 0.2619, step time: 1.3911
   Batch 57/248, train_loss: 0.3157, step time: 1.3570
   Batch 58/248, train_loss: 0.0917, step time: 1.3447
   Batch 59/248, train_loss: 0.1213, step time: 1.3686
   Batch 60/248, train_loss: 0.1013, step time: 1.3510
   Batch 61/248, train_loss: 0.1217, step time: 1.3927
   Batch 62/248, train_loss: 0.3395, step time: 1.3797
   Batch 63/248, train_loss: 0.6187, step time: 1.3751
   Batch 64/248, train_loss: 0.6359, step time: 1.3656
   Batch 65/248, train_loss: 0.6719, step time: 1.3943
   Batch 66/248, train_loss: 0.1890, step time: 1.3641
   Batch 67/248, train_loss: 0.0972, step time: 1.3511
   Batch 68/248, train_loss: 0.1206, step time: 1.3658
   Batch 69/248, train_loss: 0.8796, step time: 1.3623
   Batch 70/248, train_loss: 0.1504, step time: 1.3577
   Batch 71/248, train_loss: 0.1881, step time: 1.3765
   Batch 72/248, train_loss: 0.0895, step time: 1.3422
   Batch 73/248, train_loss: 0.5523, step time: 1.3574
   Batch 74/248, train_loss: 0.9988, step time: 1.3674
```

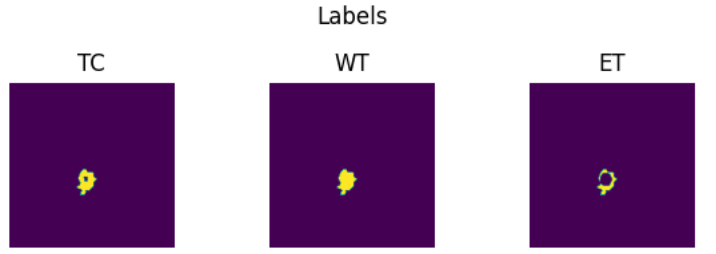
Batch 75/248, train_loss: 0.1485, step time: 1.3520
Batch 76/248, train_loss: 0.7141, step time: 1.3641
Batch 77/248, train_loss: 0.9972, step time: 1.3750
Batch 78/248, train_loss: 0.1916, step time: 1.3703
Batch 79/248, train_loss: 0.3620, step time: 1.3811
Batch 80/248, train_loss: 0.3461, step time: 1.3770
Batch 81/248, train_loss: 0.6142, step time: 1.3986
Batch 82/248, train_loss: 0.1273, step time: 1.3666
Batch 83/248, train_loss: 0.8928, step time: 1.3698
Batch 84/248, train_loss: 0.3929, step time: 1.3812
Batch 85/248, train_loss: 0.7106, step time: 1.3673
Batch 86/248, train_loss: 0.3922, step time: 1.3874
Batch 87/248, train_loss: 0.9075, step time: 1.3590
Batch 88/248, train_loss: 0.5143, step time: 1.3901
Batch 89/248, train_loss: 0.2009, step time: 1.3618
Batch 90/248, train_loss: 0.5482, step time: 1.3668
Batch 91/248, train_loss: 0.6212, step time: 1.3713
Batch 92/248, train_loss: 0.8559, step time: 1.3863
Batch 93/248, train_loss: 0.3065, step time: 1.3931
Batch 94/248, train_loss: 0.4546, step time: 1.3826
Batch 95/248, train_loss: 0.4934, step time: 1.3654
Batch 96/248, train_loss: 0.3449, step time: 1.3681
Batch 97/248, train_loss: 0.9058, step time: 1.3824
Batch 98/248, train_loss: 0.3876, step time: 1.3947
Batch 99/248, train_loss: 0.4326, step time: 1.3832
Batch 100/248, train_loss: 0.6122, step time: 1.3960
Batch 101/248, train_loss: 0.0942, step time: 1.3573
Batch 102/248, train_loss: 0.1958, step time: 1.3825
Batch 103/248, train_loss: 0.8558, step time: 1.3952
Batch 104/248, train_loss: 0.5841, step time: 1.3713
Batch 105/248, train_loss: 0.1283, step time: 1.3934
Batch 106/248, train_loss: 0.2309, step time: 1.3857
Batch 107/248, train_loss: 0.3502, step time: 1.4075
Batch 108/248, train_loss: 0.7867, step time: 1.4108
Batch 109/248, train_loss: 0.9930, step time: 1.3969
Batch 110/248, train_loss: 0.4386, step time: 1.3773
Batch 111/248, train_loss: 0.1096, step time: 1.3880
Batch 112/248, train_loss: 0.2238, step time: 1.3969
Batch 113/248, train_loss: 0.8260, step time: 1.3954
Batch 114/248, train_loss: 0.1824, step time: 1.3788
Batch 115/248, train_loss: 0.1691, step time: 1.4033
Batch 116/248, train_loss: 0.0901, step time: 1.3795
Batch 117/248, train_loss: 0.8918, step time: 1.3927
Batch 118/248, train_loss: 0.6702, step time: 1.3770
Batch 119/248, train_loss: 0.4470, step time: 1.3948
Batch 120/248, train_loss: 0.2565, step time: 1.3951
Batch 121/248, train_loss: 0.3591, step time: 1.3973
Batch 122/248, train_loss: 0.5108, step time: 1.3983
Batch 123/248, train_loss: 0.0812, step time: 1.3841
Batch 124/248, train_loss: 0.4694, step time: 1.3786
Batch 125/248, train_loss: 0.8761, step time: 1.3506
Batch 126/248, train_loss: 0.3462, step time: 1.3892
Batch 127/248, train_loss: 0.1558, step time: 1.3768
Batch 128/248, train_loss: 0.2683, step time: 1.3569
Batch 129/248, train_loss: 0.1231, step time: 1.3408
Batch 130/248, train_loss: 0.2041, step time: 1.3653
Batch 131/248, train_loss: 0.5764, step time: 1.3747
Batch 132/248, train_loss: 0.2708, step time: 1.3611
Batch 133/248, train_loss: 0.2812, step time: 1.3707
Batch 134/248, train_loss: 0.9766, step time: 1.3716
Batch 135/248, train_loss: 0.3216, step time: 1.3463
Batch 136/248, train_loss: 0.1831, step time: 1.3824
Batch 137/248, train_loss: 0.3270, step time: 1.3548
Batch 138/248, train_loss: 0.1043, step time: 1.3485
Batch 139/248, train_loss: 0.3211, step time: 1.3622
Batch 140/248, train_loss: 0.1951, step time: 1.3389
Batch 141/248, train_loss: 0.2124, step time: 1.3405
Batch 142/248, train_loss: 0.8367, step time: 1.3644
Batch 143/248, train_loss: 0.3325, step time: 1.3398
Batch 144/248, train_loss: 0.1628, step time: 1.3489
Batch 145/248, train_loss: 0.0792, step time: 1.3740
Batch 146/248, train_loss: 0.7844, step time: 1.3486
Batch 147/248, train_loss: 0.0613, step time: 1.3375
Batch 148/248, train_loss: 0.9791, step time: 1.3364
Batch 149/248, train_loss: 0.1997, step time: 1.3563
Batch 150/248, train_loss: 0.6484, step time: 1.3516
Batch 151/248, train_loss: 0.9378, step time: 1.3462
Batch 152/248, train_loss: 0.0613, step time: 1.3491
Batch 153/248, train_loss: 0.4609, step time: 1.3281
Batch 154/248, train_loss: 0.8518, step time: 1.3359
Batch 155/248, train_loss: 0.1376, step time: 1.3611
Batch 156/248, train_loss: 0.1792, step time: 1.3420
Batch 157/248, train_loss: 0.3663, step time: 1.3290
Batch 158/248, train_loss: 0.9986, step time: 1.3140

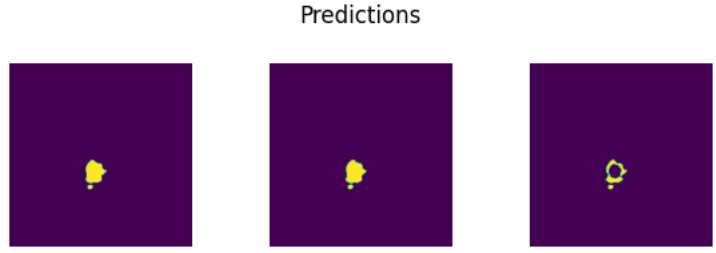
Batch 159/248, train_loss: 0.8199, step time: 1.3401
Batch 160/248, train_loss: 0.0952, step time: 1.3227
Batch 161/248, train_loss: 0.1110, step time: 1.3371
Batch 162/248, train_loss: 0.1032, step time: 1.3239
Batch 163/248, train_loss: 0.2643, step time: 1.3473
Batch 164/248, train_loss: 0.2975, step time: 1.3508
Batch 165/248, train_loss: 0.9942, step time: 1.3387
Batch 166/248, train_loss: 0.1472, step time: 1.3575
Batch 167/248, train_loss: 0.2359, step time: 1.3190
Batch 168/248, train_loss: 0.2160, step time: 1.3242
Batch 169/248, train_loss: 0.1170, step time: 1.3415
Batch 170/248, train_loss: 0.6780, step time: 1.3552
Batch 171/248, train_loss: 0.1411, step time: 1.3482
Batch 172/248, train_loss: 0.9738, step time: 1.3318
Batch 173/248, train_loss: 0.1404, step time: 1.3591
Batch 174/248, train_loss: 0.5787, step time: 1.3217
Batch 175/248, train_loss: 0.1548, step time: 1.3500
Batch 176/248, train_loss: 0.4249, step time: 1.3186
Batch 177/248, train_loss: 0.6347, step time: 1.3327
Batch 178/248, train_loss: 0.3628, step time: 1.3550
Batch 179/248, train_loss: 0.0927, step time: 1.3275
Batch 180/248, train_loss: 0.4047, step time: 1.3361
Batch 181/248, train_loss: 0.1133, step time: 1.3393
Batch 182/248, train_loss: 0.9182, step time: 1.3321
Batch 183/248, train_loss: 0.2383, step time: 1.3634
Batch 184/248, train_loss: 0.3637, step time: 1.3369
Batch 185/248, train_loss: 0.1370, step time: 1.3374
Batch 186/248, train_loss: 0.1163, step time: 1.3542
Batch 187/248, train_loss: 0.2445, step time: 1.3189
Batch 188/248, train_loss: 0.2215, step time: 1.3423
Batch 189/248, train_loss: 0.9490, step time: 1.3536
Batch 190/248, train_loss: 0.2125, step time: 1.3431
Batch 191/248, train_loss: 0.7545, step time: 1.3238
Batch 192/248, train_loss: 0.2856, step time: 1.3534
Batch 193/248, train_loss: 0.3395, step time: 1.3532
Batch 194/248, train_loss: 0.1068, step time: 1.3509
Batch 195/248, train_loss: 0.7161, step time: 1.3610
Batch 196/248, train_loss: 0.9992, step time: 1.3299
Batch 197/248, train_loss: 0.2702, step time: 1.3566
Batch 198/248, train_loss: 0.9992, step time: 1.3429
Batch 199/248, train_loss: 0.1961, step time: 1.3244
Batch 200/248, train_loss: 0.1604, step time: 1.3452
Batch 201/248, train_loss: 0.1428, step time: 1.3492
Batch 202/248, train_loss: 0.5954, step time: 1.3292
Batch 203/248, train_loss: 0.6924, step time: 1.3447
Batch 204/248, train_loss: 0.0922, step time: 1.3370
Batch 205/248, train_loss: 0.3387, step time: 1.3287
Batch 206/248, train_loss: 0.8069, step time: 1.3460
Batch 207/248, train_loss: 0.1375, step time: 1.3412
Batch 208/248, train_loss: 0.1725, step time: 1.3554
Batch 209/248, train_loss: 0.1443, step time: 1.3193
Batch 210/248, train_loss: 0.0734, step time: 1.3181
Batch 211/248, train_loss: 0.0867, step time: 1.3373
Batch 212/248, train_loss: 0.3801, step time: 1.3495
Batch 213/248, train_loss: 0.2239, step time: 1.3308
Batch 214/248, train_loss: 0.1103, step time: 1.3175
Batch 215/248, train_loss: 0.4112, step time: 1.3413
Batch 216/248, train_loss: 0.3118, step time: 1.3397
Batch 217/248, train_loss: 0.3591, step time: 1.3255
Batch 218/248, train_loss: 0.8523, step time: 1.3642
Batch 219/248, train_loss: 0.1199, step time: 1.3278
Batch 220/248, train_loss: 0.2635, step time: 1.3259
Batch 221/248, train_loss: 0.3359, step time: 1.3397
Batch 222/248, train_loss: 0.2119, step time: 1.3471
Batch 223/248, train_loss: 0.0596, step time: 1.3268
Batch 224/248, train_loss: 0.1528, step time: 1.3354
Batch 225/248, train_loss: 0.8757, step time: 1.3547
Batch 226/248, train_loss: 0.2315, step time: 1.3247
Batch 227/248, train_loss: 0.1493, step time: 1.3404
Batch 228/248, train_loss: 0.1997, step time: 1.3480
Batch 229/248, train_loss: 0.1646, step time: 1.3291
Batch 230/248, train_loss: 0.1091, step time: 1.3504
Batch 231/248, train_loss: 0.9059, step time: 1.3458
Batch 232/248, train_loss: 0.0764, step time: 1.3334
Batch 233/248, train_loss: 0.9988, step time: 1.3511
Batch 234/248, train_loss: 0.5188, step time: 1.3403
Batch 235/248, train_loss: 0.3562, step time: 1.3389
Batch 236/248, train_loss: 0.8411, step time: 1.3417
Batch 237/248, train_loss: 0.1722, step time: 1.3267
Batch 238/248, train_loss: 0.1332, step time: 1.3159
Batch 239/248, train_loss: 0.1095, step time: 1.3388
Batch 240/248, train_loss: 0.4872, step time: 1.3241
Batch 241/248, train_loss: 0.9969, step time: 1.3326
Batch 242/248, train_loss: 0.2336, step time: 1.3530
Batch 243/248, train_loss: 0.5806, step time: 1.3191

```
   Batch 244/248, train_loss: 0.4927, step time: 1.3519
   Batch 245/248, train_loss: 0.0951, step time: 1.3491
   Batch 246/248, train_loss: 0.7656, step time: 1.3556
   Batch 247/248, train_loss: 0.1467, step time: 1.3497
   Batch 248/248, train_loss: 0.9998, step time: 1.3035
```




```
VAL
   Batch 1/31, val_loss: 0.8424
   Batch 2/31, val_loss: 0.9992
   Batch 3/31, val_loss: 0.9784
   Batch 4/31, val_loss: 0.9592
   Batch 5/31, val_loss: 0.9929
   Batch 6/31, val_loss: 0.7187
   Batch 7/31, val_loss: 0.8677
   Batch 8/31, val_loss: 0.9661
   Batch 9/31, val_loss: 0.7141
   Batch 10/31, val_loss: 0.9256
   Batch 11/31, val_loss: 0.8271
   Batch 12/31, val_loss: 0.9722
   Batch 13/31, val_loss: 0.9959
   Batch 14/31, val_loss: 0.9633
   Batch 15/31, val_loss: 0.9896
   Batch 16/31, val_loss: 0.9745
   Batch 17/31, val_loss: 0.9726
   Batch 18/31, val_loss: 0.9596
   Batch 19/31, val_loss: 0.7789
   Batch 20/31, val_loss: 0.8745
   Batch 21/31, val_loss: 0.8893
   Batch 22/31, val_loss: 0.9855
   Batch 23/31, val_loss: 0.9787
   Batch 24/31, val_loss: 0.7630
   Batch 25/31, val_loss: 0.8152
   Batch 26/31, val_loss: 0.9272
   Batch 27/31, val_loss: 0.9866
   Batch 28/31, val_loss: 0.7554
   Batch 29/31, val_loss: 0.9863
   Batch 30/31, val_loss: 0.9726
   Batch 31/31, val_loss: 0.9764
```





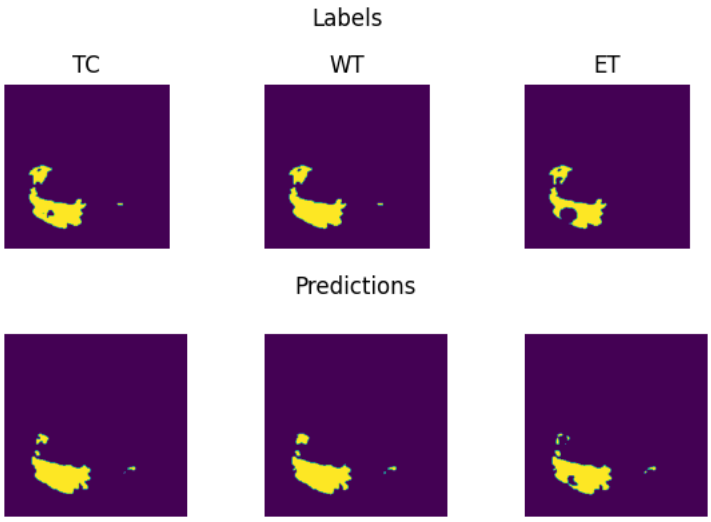

```
epoch 22
   average train loss: 0.3935
```

```
   average train loss: 0.5999
   average validation loss: 0.9132
   saved as best model: False
   current mean dice: 0.4858
   current TC dice: 0.5078
   current WT dice: 0.5177
   current ET dice: 0.4705
Best Mean Metric: 0.5148
time consuming of epoch 22 is: 1726.7277
----------
epoch 23/100
TRAIN
   Batch 1/248, train_loss: 0.1004, step time: 1.3777
   Batch 2/248, train_loss: 0.8690, step time: 1.3391
   Batch 3/248, train_loss: 0.5133, step time: 1.3501
   Batch 4/248, train_loss: 0.9716, step time: 1.3236
   Batch 5/248, train_loss: 0.3452, step time: 1.3533
   Batch 6/248, train_loss: 0.6429, step time: 1.3408
   Batch 7/248, train_loss: 0.0751, step time: 1.3488
   Batch 8/248, train_loss: 0.7451, step time: 1.3441
   Batch 9/248, train_loss: 0.0498, step time: 1.3448
   Batch 10/248, train_loss: 0.2442, step time: 1.3248
   Batch 11/248, train_loss: 0.2559, step time: 1.3552
   Batch 12/248, train_loss: 0.5616, step time: 1.3345
   Batch 13/248, train_loss: 0.6577, step time: 1.3505
   Batch 14/248, train_loss: 0.0645, step time: 1.3183
   Batch 15/248, train_loss: 0.4559, step time: 1.3422
   Batch 16/248, train_loss: 0.2195, step time: 1.3271
   Batch 17/248, train_loss: 0.4187, step time: 1.3537
   Batch 18/248, train_loss: 0.4342, step time: 1.3543
   Batch 19/248, train_loss: 0.1056, step time: 1.3186
   Batch 20/248, train_loss: 0.3746, step time: 1.3332
   Batch 21/248, train_loss: 0.0582, step time: 1.3303
   Batch 22/248, train_loss: 0.9962, step time: 1.3256
   Batch 23/248, train_loss: 0.9779, step time: 1.3394
   Batch 24/248, train_loss: 0.1027, step time: 1.3142
   Batch 25/248, train_loss: 0.1002, step time: 1.3312
   Batch 26/248, train_loss: 0.5321, step time: 1.3317
   Batch 27/248, train_loss: 0.0801, step time: 1.3179
   Batch 28/248, train_loss: 0.1976, step time: 1.3180
   Batch 29/248, train_loss: 0.6270, step time: 1.3426
   Batch 30/248, train_loss: 0.6180, step time: 1.3423
   Batch 31/248, train_loss: 0.4941, step time: 1.3449
   Batch 32/248, train_loss: 0.0976, step time: 1.3314
   Batch 33/248, train_loss: 0.1262, step time: 1.3471
   Batch 34/248, train_loss: 0.0551, step time: 1.3269
   Batch 35/248, train_loss: 0.0742, step time: 1.3485
   Batch 36/248, train_loss: 0.9914, step time: 1.3490
   Batch 37/248, train_loss: 0.1710, step time: 1.3483
   Batch 38/248, train_loss: 0.3430, step time: 1.3312
   Batch 39/248, train_loss: 0.2073, step time: 1.3171
   Batch 40/248, train_loss: 0.9976, step time: 1.3294
   Batch 41/248, train_loss: 0.4082, step time: 1.3430
   Batch 42/248, train_loss: 0.1014, step time: 1.3162
   Batch 43/248, train_loss: 0.0652, step time: 1.3252
   Batch 44/248, train_loss: 0.2569, step time: 1.3400
   Batch 45/248, train_loss: 0.6498, step time: 1.3508
   Batch 46/248, train_loss: 0.2108, step time: 1.3592
   Batch 47/248, train_loss: 0.1347, step time: 1.3467
   Batch 48/248, train_loss: 0.4328, step time: 1.3351
   Batch 49/248, train_loss: 0.4664, step time: 1.3185
   Batch 50/248, train_loss: 0.2156, step time: 1.3169
   Batch 51/248, train_loss: 0.1976, step time: 1.3371
   Batch 52/248, train_loss: 0.1867, step time: 1.3141
   Batch 53/248, train_loss: 0.4707, step time: 1.3352
   Batch 54/248, train_loss: 0.2781, step time: 1.3480
   Batch 55/248, train_loss: 0.2813, step time: 1.3374
   Batch 56/248, train_loss: 0.2335, step time: 1.3620
   Batch 57/248, train_loss: 0.3031, step time: 1.3609
   Batch 58/248, train_loss: 0.0936, step time: 1.3377
   Batch 59/248, train_loss: 0.0997, step time: 1.3274
   Batch 60/248, train_loss: 0.0842, step time: 1.3498
   Batch 61/248, train_loss: 0.1162, step time: 1.3384
   Batch 62/248, train_loss: 0.3489, step time: 1.3462
   Batch 63/248, train_loss: 0.6292, step time: 1.3353
   Batch 64/248, train_loss: 0.5981, step time: 1.3219
   Batch 65/248, train_loss: 0.4806, step time: 1.3398
   Batch 66/248, train_loss: 0.1815, step time: 1.3419
   Batch 67/248, train_loss: 0.1085, step time: 1.3254
   Batch 68/248, train_loss: 0.1230, step time: 1.3333
   Batch 69/248, train_loss: 0.9498, step time: 1.3349
   Batch 70/248, train_loss: 0.1583, step time: 1.3404
   Batch 71/248, train_loss: 0.1588, step time: 1.3496
   Batch 72/248, train_loss: 0.0793, step time: 1.3102
   Batch 73/248, train_loss: 0.1626, step time: 1.3410
   Batch 74/248, train_loss: 0.0827, step time: 1.3268
```

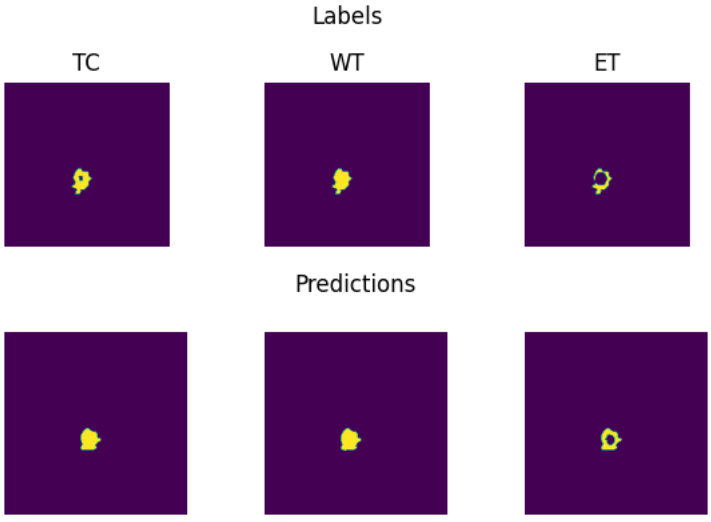
```
Batch 74/248, train_loss: 0.9937, step time: 1.3062
Batch 75/248, train_loss: 0.1421, step time: 1.3277
Batch 76/248, train_loss: 0.7716, step time: 1.3380
Batch 77/248, train_loss: 0.9038, step time: 1.3293
Batch 78/248, train_loss: 0.1349, step time: 1.3068
Batch 79/248, train_loss: 0.1362, step time: 1.3215
Batch 80/248, train_loss: 0.2418, step time: 1.3107
Batch 81/248, train_loss: 0.1742, step time: 1.3147
Batch 82/248, train_loss: 0.1195, step time: 1.3326
Batch 83/248, train_loss: 0.7474, step time: 1.3358
Batch 84/248, train_loss: 0.2055, step time: 1.3153
Batch 85/248, train_loss: 0.5545, step time: 1.3304
Batch 86/248, train_loss: 0.3098, step time: 1.3372
Batch 87/248, train_loss: 0.8222, step time: 1.3443
Batch 88/248, train_loss: 0.5153, step time: 1.3227
Batch 89/248, train_loss: 0.1004, step time: 1.3172
Batch 90/248, train_loss: 0.4325, step time: 1.3235
Batch 91/248, train_loss: 0.4263, step time: 1.3479
Batch 92/248, train_loss: 0.9069, step time: 1.3360
Batch 93/248, train_loss: 0.1860, step time: 1.3328
Batch 94/248, train_loss: 0.4401, step time: 1.3437
Batch 95/248, train_loss: 0.1871, step time: 1.3393
Batch 96/248, train_loss: 0.2127, step time: 1.3255
Batch 97/248, train_loss: 0.9365, step time: 1.3187
Batch 98/248, train_loss: 0.2074, step time: 1.3215
Batch 99/248, train_loss: 0.3733, step time: 1.3575
Batch 100/248, train_loss: 0.5411, step time: 1.3182
Batch 101/248, train_loss: 0.0614, step time: 1.3313
Batch 102/248, train_loss: 0.1495, step time: 1.3456
Batch 103/248, train_loss: 0.5017, step time: 1.3410
Batch 104/248, train_loss: 0.3726, step time: 1.3429
Batch 105/248, train_loss: 0.1012, step time: 1.3283
Batch 106/248, train_loss: 0.1697, step time: 1.3153
Batch 107/248, train_loss: 0.8021, step time: 1.3200
Batch 108/248, train_loss: 0.6239, step time: 1.3387
Batch 109/248, train_loss: 0.9906, step time: 1.3217
Batch 110/248, train_loss: 0.9741, step time: 1.3281
Batch 111/248, train_loss: 0.1148, step time: 1.3206
Batch 112/248, train_loss: 0.1315, step time: 1.3431
Batch 113/248, train_loss: 0.9718, step time: 1.3390
Batch 114/248, train_loss: 0.1957, step time: 1.3526
Batch 115/248, train_loss: 0.2038, step time: 1.3385
Batch 116/248, train_loss: 0.0831, step time: 1.3540
Batch 117/248, train_loss: 0.8213, step time: 1.3502
Batch 118/248, train_loss: 0.6689, step time: 1.3584
Batch 119/248, train_loss: 0.4509, step time: 1.3513
Batch 120/248, train_loss: 0.3215, step time: 1.3537
Batch 121/248, train_loss: 0.2905, step time: 1.3380
Batch 122/248, train_loss: 0.4976, step time: 1.3078
Batch 123/248, train_loss: 0.1034, step time: 1.3187
Batch 124/248, train_loss: 0.3467, step time: 1.3269
Batch 125/248, train_loss: 0.6759, step time: 1.3419
Batch 126/248, train_loss: 0.2992, step time: 1.3449
Batch 127/248, train_loss: 0.1585, step time: 1.3113
Batch 128/248, train_loss: 0.1965, step time: 1.3458
Batch 129/248, train_loss: 0.1740, step time: 1.3318
Batch 130/248, train_loss: 0.1230, step time: 1.3077
Batch 131/248, train_loss: 0.6806, step time: 1.3220
Batch 132/248, train_loss: 0.2265, step time: 1.3399
Batch 133/248, train_loss: 0.3935, step time: 1.3418
Batch 134/248, train_loss: 0.9765, step time: 1.3472
Batch 135/248, train_loss: 0.3124, step time: 1.3126
Batch 136/248, train_loss: 0.2259, step time: 1.3333
Batch 137/248, train_loss: 0.1626, step time: 1.3291
Batch 138/248, train_loss: 0.0919, step time: 1.3493
Batch 139/248, train_loss: 0.3121, step time: 1.3411
Batch 140/248, train_loss: 0.1842, step time: 1.3195
Batch 141/248, train_loss: 0.1940, step time: 1.3535
Batch 142/248, train_loss: 0.7265, step time: 1.3526
Batch 143/248, train_loss: 0.3170, step time: 1.3162
Batch 144/248, train_loss: 0.1564, step time: 1.3416
Batch 145/248, train_loss: 0.0703, step time: 1.3134
Batch 146/248, train_loss: 0.5170, step time: 1.3296
Batch 147/248, train_loss: 0.0597, step time: 1.3423
Batch 148/248, train_loss: 0.9500, step time: 1.3266
Batch 149/248, train_loss: 0.1871, step time: 1.3415
Batch 150/248, train_loss: 0.6534, step time: 1.3620
Batch 151/248, train_loss: 0.5808, step time: 1.3248
Batch 152/248, train_loss: 0.0553, step time: 1.3388
Batch 153/248, train_loss: 0.3571, step time: 1.3236
Batch 154/248, train_loss: 0.6035, step time: 1.3169
Batch 155/248, train_loss: 0.0972, step time: 1.3123
Batch 156/248, train_loss: 0.3106, step time: 1.3447
Batch 157/248, train_loss: 0.3726, step time: 1.3273
Batch 158/248, train_loss: 0.9954, step time: 1.3234
```

```
Batch 159/248, train_loss: 0.6990, step time: 1.3450
Batch 160/248, train_loss: 0.1162, step time: 1.3500
Batch 161/248, train_loss: 0.0886, step time: 1.3211
Batch 162/248, train_loss: 0.5587, step time: 1.3265
Batch 163/248, train_loss: 0.1879, step time: 1.3541
Batch 164/248, train_loss: 0.3278, step time: 1.3422
Batch 165/248, train_loss: 0.9814, step time: 1.3276
Batch 166/248, train_loss: 0.2381, step time: 1.3571
Batch 167/248, train_loss: 0.2710, step time: 1.3466
Batch 168/248, train_loss: 0.1939, step time: 1.3370
Batch 169/248, train_loss: 0.1433, step time: 1.3185
Batch 170/248, train_loss: 0.6937, step time: 1.3442
Batch 171/248, train_loss: 0.1117, step time: 1.3249
Batch 172/248, train_loss: 0.8490, step time: 1.3457
Batch 173/248, train_loss: 0.1279, step time: 1.3526
Batch 174/248, train_loss: 0.9622, step time: 1.3315
Batch 175/248, train_loss: 0.2364, step time: 1.3244
Batch 176/248, train_loss: 0.4334, step time: 1.3334
Batch 177/248, train_loss: 0.5651, step time: 1.3239
Batch 178/248, train_loss: 0.4287, step time: 1.3603
Batch 179/248, train_loss: 0.0807, step time: 1.3246
Batch 180/248, train_loss: 0.4410, step time: 1.3470
Batch 181/248, train_loss: 0.1379, step time: 1.3604
Batch 182/248, train_loss: 0.9369, step time: 1.3261
Batch 183/248, train_loss: 0.4606, step time: 1.3278
Batch 184/248, train_loss: 0.3556, step time: 1.3503
Batch 185/248, train_loss: 0.1857, step time: 1.3255
Batch 186/248, train_loss: 0.1224, step time: 1.3533
Batch 187/248, train_loss: 0.3012, step time: 1.3248
Batch 188/248, train_loss: 0.2374, step time: 1.3192
Batch 189/248, train_loss: 0.9921, step time: 1.3415
Batch 190/248, train_loss: 0.1770, step time: 1.3223
Batch 191/248, train_loss: 0.9296, step time: 1.3498
Batch 192/248, train_loss: 0.2911, step time: 1.3585
Batch 193/248, train_loss: 0.4022, step time: 1.3519
Batch 194/248, train_loss: 0.1259, step time: 1.3469
Batch 195/248, train_loss: 0.8210, step time: 1.3290
Batch 196/248, train_loss: 0.9998, step time: 1.3176
Batch 197/248, train_loss: 0.2182, step time: 1.3371
Batch 198/248, train_loss: 0.9992, step time: 1.3132
Batch 199/248, train_loss: 0.2396, step time: 1.3470
Batch 200/248, train_loss: 0.1745, step time: 1.3169
Batch 201/248, train_loss: 0.1506, step time: 1.3175
Batch 202/248, train_loss: 0.4628, step time: 1.3300
Batch 203/248, train_loss: 0.6915, step time: 1.3225
Batch 204/248, train_loss: 0.1669, step time: 1.3301
Batch 205/248, train_loss: 0.3632, step time: 1.3517
Batch 206/248, train_loss: 0.8816, step time: 1.3292
Batch 207/248, train_loss: 0.1874, step time: 1.3189
Batch 208/248, train_loss: 0.1869, step time: 1.3213
Batch 209/248, train_loss: 0.1809, step time: 1.3434
Batch 210/248, train_loss: 0.0828, step time: 1.3520
Batch 211/248, train_loss: 0.0964, step time: 1.3274
Batch 212/248, train_loss: 0.3617, step time: 1.3221
Batch 213/248, train_loss: 0.2292, step time: 1.3498
Batch 214/248, train_loss: 0.1110, step time: 1.3362
Batch 215/248, train_loss: 0.4359, step time: 1.3302
Batch 216/248, train_loss: 0.2821, step time: 1.3303
Batch 217/248, train_loss: 0.3399, step time: 1.3364
Batch 218/248, train_loss: 0.9219, step time: 1.3272
Batch 219/248, train_loss: 0.0993, step time: 1.3298
Batch 220/248, train_loss: 0.2784, step time: 1.3569
Batch 221/248, train_loss: 0.3296, step time: 1.3193
Batch 222/248, train_loss: 0.1904, step time: 1.3199
Batch 223/248, train_loss: 0.0606, step time: 1.3231
Batch 224/248, train_loss: 0.1091, step time: 1.3233
Batch 225/248, train_loss: 0.8971, step time: 1.3532
Batch 226/248, train_loss: 0.3294, step time: 1.3505
Batch 227/248, train_loss: 0.1389, step time: 1.3469
Batch 228/248, train_loss: 0.1936, step time: 1.3353
Batch 229/248, train_loss: 0.1569, step time: 1.3498
Batch 230/248, train_loss: 0.0787, step time: 1.3454
Batch 231/248, train_loss: 0.9224, step time: 1.3549
Batch 232/248, train_loss: 0.0833, step time: 1.3242
Batch 233/248, train_loss: 0.9941, step time: 1.3406
Batch 234/248, train_loss: 0.5470, step time: 1.3598
Batch 235/248, train_loss: 0.3904, step time: 1.3565
Batch 236/248, train_loss: 0.8129, step time: 1.3229
Batch 237/248, train_loss: 0.1817, step time: 1.3565
Batch 238/248, train_loss: 0.1276, step time: 1.3310
Batch 239/248, train_loss: 0.1404, step time: 1.3247
Batch 240/248, train_loss: 0.4933, step time: 1.3503
Batch 241/248, train_loss: 0.9931, step time: 1.3469
Batch 242/248, train_loss: 0.2136, step time: 1.3367
Batch 243/248, train_loss: 0.5720, step time: 1.3252
```

```
Batch 244/248, train_loss: 0.5441, step time: 1.3465
Batch 245/248, train_loss: 0.0936, step time: 1.3404
Batch 246/248, train_loss: 0.7314, step time: 1.3327
Batch 247/248, train_loss: 0.1266, step time: 1.3455
Batch 248/248, train_loss: 0.9999, step time: 1.3090
```




```
VAL
   Batch 1/31, val_loss: 0.8529
   Batch 2/31, val_loss: 0.9988
   Batch 3/31, val_loss: 0.9755
   Batch 4/31, val_loss: 0.9588
   Batch 5/31, val_loss: 0.9970
   Batch 6/31, val_loss: 0.7656
   Batch 7/31, val_loss: 0.8780
   Batch 8/31, val_loss: 0.9637
   Batch 9/31, val_loss: 0.7228
   Batch 10/31, val_loss: 0.9249
   Batch 11/31, val_loss: 0.8283
   Batch 12/31, val_loss: 0.9712
   Batch 13/31, val_loss: 0.9952
   Batch 14/31, val_loss: 0.9590
   Batch 15/31, val_loss: 0.9885
   Batch 16/31, val_loss: 0.9745
   Batch 17/31, val_loss: 0.9683
   Batch 18/31, val_loss: 0.9414
   Batch 19/31, val_loss: 0.7871
   Batch 20/31, val_loss: 0.9051
   Batch 21/31, val_loss: 0.8964
   Batch 22/31, val_loss: 0.9855
   Batch 23/31, val_loss: 0.9785
   Batch 24/31, val_loss: 0.7496
   Batch 25/31, val_loss: 0.8126
   Batch 26/31, val_loss: 0.9273
   Batch 27/31, val_loss: 0.9861
   Batch 28/31, val_loss: 0.7578
   Batch 29/31, val_loss: 0.9852
   Batch 30/31, val_loss: 0.9746
   Batch 31/31, val_loss: 0.9741
```



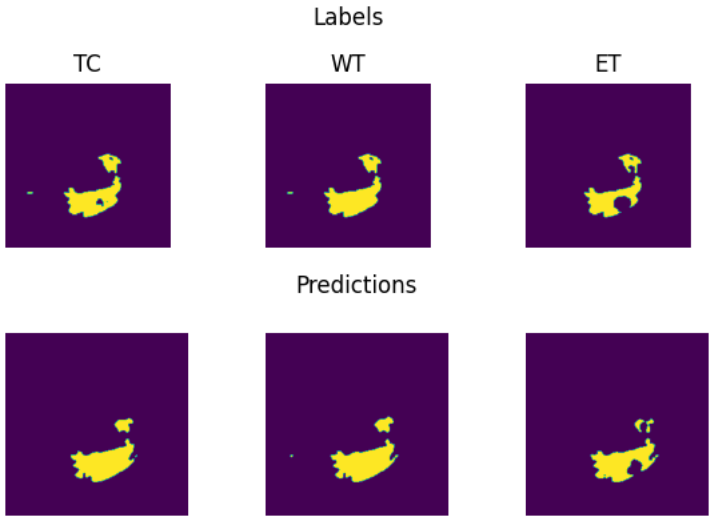

```
epoch 23
```

```
   average train loss: 0.3834
   average validation loss: 0.9156
   saved as best model: True
   current mean dice: 0.5259
   current TC dice: 0.5532
   current WT dice: 0.5638
   current ET dice: 0.5024
Best Mean Metric: 0.5259
time consuming of epoch 23 is: 1720.0922
----------
epoch 24/100
TRAIN
   Batch 1/248, train_loss: 0.1124, step time: 1.3957
   Batch 2/248, train_loss: 0.8997, step time: 1.3394
   Batch 3/248, train_loss: 0.4436, step time: 1.3402
   Batch 4/248, train_loss: 0.9896, step time: 1.3223
   Batch 5/248, train_loss: 0.3126, step time: 1.3319
   Batch 6/248, train_loss: 0.9532, step time: 1.3641
   Batch 7/248, train_loss: 0.1164, step time: 1.3353
   Batch 8/248, train_loss: 0.7384, step time: 1.3394
   Batch 9/248, train_loss: 0.0532, step time: 1.3353
   Batch 10/248, train_loss: 0.2388, step time: 1.3470
   Batch 11/248, train_loss: 0.3077, step time: 1.3502
   Batch 12/248, train_loss: 0.6218, step time: 1.3449
   Batch 13/248, train_loss: 0.3625, step time: 1.3323
   Batch 14/248, train_loss: 0.0548, step time: 1.3448
   Batch 15/248, train_loss: 0.3366, step time: 1.3445
   Batch 16/248, train_loss: 0.1764, step time: 1.3559
   Batch 17/248, train_loss: 0.4336, step time: 1.3415
   Batch 18/248, train_loss: 0.5116, step time: 1.3271
   Batch 19/248, train_loss: 0.6230, step time: 1.3521
   Batch 20/248, train_loss: 0.4010, step time: 1.3709
   Batch 21/248, train_loss: 0.0636, step time: 1.3211
   Batch 22/248, train_loss: 0.9992, step time: 1.3092
   Batch 23/248, train_loss: 0.9809, step time: 1.3451
   Batch 24/248, train_loss: 0.1192, step time: 1.3196
   Batch 25/248, train_loss: 0.0841, step time: 1.3389
   Batch 26/248, train_loss: 0.4538, step time: 1.3395
   Batch 27/248, train_loss: 0.0730, step time: 1.3374
   Batch 28/248, train_loss: 0.1600, step time: 1.3282
   Batch 29/248, train_loss: 0.5803, step time: 1.3341
   Batch 30/248, train_loss: 0.2904, step time: 1.3472
   Batch 31/248, train_loss: 0.4672, step time: 1.3359
   Batch 32/248, train_loss: 0.1045, step time: 1.3614
   Batch 33/248, train_loss: 0.1854, step time: 1.3590
   Batch 34/248, train_loss: 0.0509, step time: 1.3485
   Batch 35/248, train_loss: 0.0613, step time: 1.3363
   Batch 36/248, train_loss: 0.9959, step time: 1.3465
   Batch 37/248, train_loss: 0.1574, step time: 1.3286
   Batch 38/248, train_loss: 0.3254, step time: 1.3579
   Batch 39/248, train_loss: 0.2158, step time: 1.3335
   Batch 40/248, train_loss: 0.9667, step time: 1.3302
   Batch 41/248, train_loss: 0.1979, step time: 1.3402
   Batch 42/248, train_loss: 0.0845, step time: 1.3515
   Batch 43/248, train_loss: 0.0759, step time: 1.3385
   Batch 44/248, train_loss: 0.2479, step time: 1.3194
   Batch 45/248, train_loss: 0.6688, step time: 1.3432
   Batch 46/248, train_loss: 0.2198, step time: 1.3206
   Batch 47/248, train_loss: 0.0892, step time: 1.3376
   Batch 48/248, train_loss: 0.4705, step time: 1.3558
   Batch 49/248, train_loss: 0.4942, step time: 1.3332
   Batch 50/248, train_loss: 0.1868, step time: 1.3397
   Batch 51/248, train_loss: 0.1597, step time: 1.3312
   Batch 52/248, train_loss: 0.1559, step time: 1.3584
   Batch 53/248, train_loss: 0.4402, step time: 1.3321
   Batch 54/248, train_loss: 0.2681, step time: 1.3587
   Batch 55/248, train_loss: 0.2811, step time: 1.3323
   Batch 56/248, train_loss: 0.2107, step time: 1.3288
   Batch 57/248, train_loss: 0.3144, step time: 1.3562
   Batch 58/248, train_loss: 0.0959, step time: 1.3398
   Batch 59/248, train_loss: 0.1018, step time: 1.3314
   Batch 60/248, train_loss: 0.0641, step time: 1.3487
   Batch 61/248, train_loss: 0.1062, step time: 1.3113
   Batch 62/248, train_loss: 0.3868, step time: 1.3510
   Batch 63/248, train_loss: 0.5480, step time: 1.3266
   Batch 64/248, train_loss: 0.4774, step time: 1.3467
   Batch 65/248, train_loss: 0.5466, step time: 1.3388
   Batch 66/248, train_loss: 0.1507, step time: 1.3475
   Batch 67/248, train_loss: 0.0944, step time: 1.3172
   Batch 68/248, train_loss: 0.1478, step time: 1.3326
   Batch 69/248, train_loss: 0.9457, step time: 1.3468
   Batch 70/248, train_loss: 0.1586, step time: 1.3410
   Batch 71/248, train_loss: 0.1624, step time: 1.3474
   Batch 72/248, train_loss: 0.0701, step time: 1.3161
   Batch 73/248, train_loss: 0.3954, step time: 1.3252
```

```
Batch 74/248, train_loss: 0.9967, step time: 1.3206
Batch 75/248, train_loss: 0.1425, step time: 1.3347
Batch 76/248, train_loss: 0.6602, step time: 1.3446
Batch 77/248, train_loss: 0.9306, step time: 1.3291
Batch 78/248, train_loss: 0.1488, step time: 1.3225
Batch 79/248, train_loss: 0.1869, step time: 1.3222
Batch 80/248, train_loss: 0.2765, step time: 1.3550
Batch 81/248, train_loss: 0.1722, step time: 1.3468
Batch 82/248, train_loss: 0.1379, step time: 1.3430
Batch 83/248, train_loss: 0.9486, step time: 1.3263
Batch 84/248, train_loss: 0.3160, step time: 1.3447
Batch 85/248, train_loss: 0.9775, step time: 1.3171
Batch 86/248, train_loss: 0.6659, step time: 1.3278
Batch 87/248, train_loss: 0.9872, step time: 1.3332
Batch 88/248, train_loss: 0.5609, step time: 1.3305
Batch 89/248, train_loss: 0.1410, step time: 1.3265
Batch 90/248, train_loss: 0.2463, step time: 1.3191
Batch 91/248, train_loss: 0.5338, step time: 1.3490
Batch 92/248, train_loss: 0.8634, step time: 1.3627
Batch 93/248, train_loss: 0.1724, step time: 1.3167
Batch 94/248, train_loss: 0.4897, step time: 1.3261
Batch 95/248, train_loss: 0.1989, step time: 1.3107
Batch 96/248, train_loss: 0.1636, step time: 1.3294
Batch 97/248, train_loss: 0.9942, step time: 1.3424
Batch 98/248, train_loss: 0.1533, step time: 1.3417
Batch 99/248, train_loss: 0.5407, step time: 1.3242
Batch 100/248, train_loss: 0.4572, step time: 1.3445
Batch 101/248, train_loss: 0.0619, step time: 1.3395
Batch 102/248, train_loss: 0.1286, step time: 1.3449
Batch 103/248, train_loss: 0.6584, step time: 1.3238
Batch 104/248, train_loss: 0.4180, step time: 1.3485
Batch 105/248, train_loss: 0.0873, step time: 1.3119
Batch 106/248, train_loss: 0.2329, step time: 1.3367
Batch 107/248, train_loss: 0.6985, step time: 1.3219
Batch 108/248, train_loss: 0.9441, step time: 1.3551
Batch 109/248, train_loss: 0.9587, step time: 1.3237
Batch 110/248, train_loss: 0.9727, step time: 1.3194
Batch 111/248, train_loss: 0.2448, step time: 1.3153
Batch 112/248, train_loss: 0.4015, step time: 1.3226
Batch 113/248, train_loss: 0.9506, step time: 1.3317
Batch 114/248, train_loss: 0.4865, step time: 1.3452
Batch 115/248, train_loss: 0.3898, step time: 1.3517
Batch 116/248, train_loss: 0.1041, step time: 1.3320
Batch 117/248, train_loss: 0.8494, step time: 1.3384
Batch 118/248, train_loss: 0.6211, step time: 1.3333
Batch 119/248, train_loss: 0.5285, step time: 1.3470
Batch 120/248, train_loss: 0.2505, step time: 1.3402
Batch 121/248, train_loss: 0.3567, step time: 1.3232
Batch 122/248, train_loss: 0.4775, step time: 1.3133
Batch 123/248, train_loss: 0.0994, step time: 1.3393
Batch 124/248, train_loss: 0.4511, step time: 1.3343
Batch 125/248, train_loss: 0.8873, step time: 1.3375
Batch 126/248, train_loss: 0.3692, step time: 1.3369
Batch 127/248, train_loss: 0.1587, step time: 1.3301
Batch 128/248, train_loss: 0.2741, step time: 1.3413
Batch 129/248, train_loss: 0.1341, step time: 1.3253
Batch 130/248, train_loss: 0.1112, step time: 1.3217
Batch 131/248, train_loss: 0.5644, step time: 1.3280
Batch 132/248, train_loss: 0.2326, step time: 1.3488
Batch 133/248, train_loss: 0.1164, step time: 1.3195
Batch 134/248, train_loss: 0.9799, step time: 1.3381
Batch 135/248, train_loss: 0.2796, step time: 1.3196
Batch 136/248, train_loss: 0.2196, step time: 1.3542
Batch 137/248, train_loss: 0.1427, step time: 1.3197
Batch 138/248, train_loss: 0.1097, step time: 1.3476
Batch 139/248, train_loss: 0.1697, step time: 1.3246
Batch 140/248, train_loss: 0.1840, step time: 1.3456
Batch 141/248, train_loss: 0.1911, step time: 1.3417
Batch 142/248, train_loss: 0.7771, step time: 1.3587
Batch 143/248, train_loss: 0.3154, step time: 1.3349
Batch 144/248, train_loss: 0.1130, step time: 1.3457
Batch 145/248, train_loss: 0.0687, step time: 1.3540
Batch 146/248, train_loss: 0.4415, step time: 1.3316
Batch 147/248, train_loss: 0.0587, step time: 1.3218
Batch 148/248, train_loss: 0.9141, step time: 1.3343
Batch 149/248, train_loss: 0.1776, step time: 1.3278
Batch 150/248, train_loss: 0.7616, step time: 1.3359
Batch 151/248, train_loss: 0.3488, step time: 1.3287
Batch 152/248, train_loss: 0.0517, step time: 1.3437
Batch 153/248, train_loss: 0.4080, step time: 1.3451
Batch 154/248, train_loss: 0.5659, step time: 1.3568
Batch 155/248, train_loss: 0.1185, step time: 1.3296
Batch 156/248, train_loss: 0.2015, step time: 1.3481
Batch 157/248, train_loss: 0.4083, step time: 1.3183
Batch 158/248, train_loss: 0.9686, step time: 1.3438
```

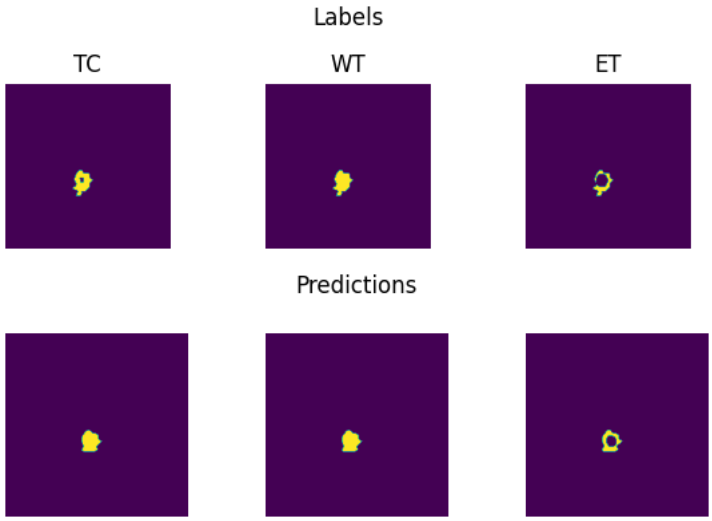
Batch 159/248, train_loss: 0.7772, step time: 1.3188
Batch 160/248, train_loss: 0.1012, step time: 1.3329
Batch 161/248, train_loss: 0.0878, step time: 1.3161
Batch 162/248, train_loss: 0.0853, step time: 1.3280
Batch 163/248, train_loss: 0.1845, step time: 1.3367
Batch 164/248, train_loss: 0.3231, step time: 1.3331
Batch 165/248, train_loss: 0.8908, step time: 1.3212
Batch 166/248, train_loss: 0.1137, step time: 1.3500
Batch 167/248, train_loss: 0.2427, step time: 1.3429
Batch 168/248, train_loss: 0.1995, step time: 1.3271
Batch 169/248, train_loss: 0.1132, step time: 1.3427
Batch 170/248, train_loss: 0.7262, step time: 1.3200
Batch 171/248, train_loss: 0.1222, step time: 1.3056
Batch 172/248, train_loss: 0.7097, step time: 1.3266
Batch 173/248, train_loss: 0.1324, step time: 1.3516
Batch 174/248, train_loss: 0.9780, step time: 1.3532
Batch 175/248, train_loss: 0.1760, step time: 1.3343
Batch 176/248, train_loss: 0.4300, step time: 1.3386
Batch 177/248, train_loss: 0.4911, step time: 1.3628
Batch 178/248, train_loss: 0.8317, step time: 1.3474
Batch 179/248, train_loss: 0.1035, step time: 1.3344
Batch 180/248, train_loss: 0.4328, step time: 1.3438
Batch 181/248, train_loss: 0.1254, step time: 1.3191
Batch 182/248, train_loss: 0.9399, step time: 1.3376
Batch 183/248, train_loss: 0.1790, step time: 1.3469
Batch 184/248, train_loss: 0.3036, step time: 1.3558
Batch 185/248, train_loss: 0.1373, step time: 1.3545
Batch 186/248, train_loss: 0.1535, step time: 1.3242
Batch 187/248, train_loss: 0.1856, step time: 1.3522
Batch 188/248, train_loss: 0.3371, step time: 1.3315
Batch 189/248, train_loss: 0.7876, step time: 1.3360
Batch 190/248, train_loss: 0.1848, step time: 1.3468
Batch 191/248, train_loss: 0.7687, step time: 1.3338
Batch 192/248, train_loss: 0.3005, step time: 1.3259
Batch 193/248, train_loss: 0.2606, step time: 1.3327
Batch 194/248, train_loss: 0.1063, step time: 1.3156
Batch 195/248, train_loss: 0.7719, step time: 1.3688
Batch 196/248, train_loss: 0.9999, step time: 1.3040
Batch 197/248, train_loss: 0.2576, step time: 1.3232
Batch 198/248, train_loss: 0.9996, step time: 1.3110
Batch 199/248, train_loss: 0.1874, step time: 1.3320
Batch 200/248, train_loss: 0.1568, step time: 1.3152
Batch 201/248, train_loss: 0.1456, step time: 1.3329
Batch 202/248, train_loss: 0.5318, step time: 1.3264
Batch 203/248, train_loss: 0.5994, step time: 1.3280
Batch 204/248, train_loss: 0.0924, step time: 1.3212
Batch 205/248, train_loss: 0.3459, step time: 1.3259
Batch 206/248, train_loss: 0.7074, step time: 1.3505
Batch 207/248, train_loss: 0.1144, step time: 1.3221
Batch 208/248, train_loss: 0.3080, step time: 1.3278
Batch 209/248, train_loss: 0.1795, step time: 1.3558
Batch 210/248, train_loss: 0.0740, step time: 1.3550
Batch 211/248, train_loss: 0.0883, step time: 1.3298
Batch 212/248, train_loss: 0.3053, step time: 1.3180
Batch 213/248, train_loss: 0.2541, step time: 1.3167
Batch 214/248, train_loss: 0.1000, step time: 1.3440
Batch 215/248, train_loss: 0.4107, step time: 1.3544
Batch 216/248, train_loss: 0.2746, step time: 1.3337
Batch 217/248, train_loss: 0.3247, step time: 1.3421
Batch 218/248, train_loss: 0.8116, step time: 1.3410
Batch 219/248, train_loss: 0.0904, step time: 1.3452
Batch 220/248, train_loss: 0.2698, step time: 1.3437
Batch 221/248, train_loss: 0.3442, step time: 1.3486
Batch 222/248, train_loss: 0.2016, step time: 1.3354
Batch 223/248, train_loss: 0.0541, step time: 1.3140
Batch 224/248, train_loss: 0.1030, step time: 1.3211
Batch 225/248, train_loss: 0.8624, step time: 1.3528
Batch 226/248, train_loss: 0.2232, step time: 1.3452
Batch 227/248, train_loss: 0.1273, step time: 1.3416
Batch 228/248, train_loss: 0.1955, step time: 1.3494
Batch 229/248, train_loss: 0.1312, step time: 1.3520
Batch 230/248, train_loss: 0.1175, step time: 1.3440
Batch 231/248, train_loss: 0.9880, step time: 1.3479
Batch 232/248, train_loss: 0.0740, step time: 1.3190
Batch 233/248, train_loss: 0.9972, step time: 1.3465
Batch 234/248, train_loss: 0.5191, step time: 1.3633
Batch 235/248, train_loss: 0.4289, step time: 1.3379
Batch 236/248, train_loss: 0.8146, step time: 1.3439
Batch 237/248, train_loss: 0.1332, step time: 1.3454
Batch 238/248, train_loss: 0.1225, step time: 1.3193
Batch 239/248, train_loss: 0.0841, step time: 1.3187
Batch 240/248, train_loss: 0.4916, step time: 1.3387
Batch 241/248, train_loss: 0.9947, step time: 1.3186
Batch 242/248, train_loss: 0.2278, step time: 1.3303

```
Batch 243/248, train_loss: 0.4979, step time: 1.3332
Batch 244/248, train_loss: 0.5100, step time: 1.3525
Batch 245/248, train_loss: 0.1067, step time: 1.3243
Batch 246/248, train_loss: 0.6887, step time: 1.3263
Batch 247/248, train_loss: 0.1005, step time: 1.3194
Batch 248/248, train_loss: 0.9996, step time: 1.3381
```



VAL

```
Batch 1/31, val_loss: 0.8569
Batch 2/31, val_loss: 0.9990
Batch 3/31, val_loss: 0.9755
Batch 4/31, val_loss: 0.9547
Batch 5/31, val_loss: 0.9965
Batch 6/31, val_loss: 0.7534
Batch 7/31, val_loss: 0.8892
Batch 8/31, val_loss: 0.9690
Batch 9/31, val_loss: 0.7218
Batch 10/31, val_loss: 0.9255
Batch 11/31, val_loss: 0.8347
Batch 12/31, val_loss: 0.9737
Batch 13/31, val_loss: 0.9966
Batch 14/31, val_loss: 0.9563
Batch 15/31, val_loss: 0.9871
Batch 16/31, val_loss: 0.9726
Batch 17/31, val_loss: 0.9719
Batch 18/31, val_loss: 0.9515
Batch 19/31, val_loss: 0.7852
Batch 20/31, val_loss: 0.9148
Batch 21/31, val_loss: 0.9026
Batch 22/31, val_loss: 0.9843
Batch 23/31, val_loss: 0.9808
Batch 24/31, val_loss: 0.7671
Batch 25/31, val_loss: 0.8109
Batch 26/31, val_loss: 0.9296
Batch 27/31, val_loss: 0.9844
Batch 28/31, val_loss: 0.7612
Batch 29/31, val_loss: 0.9844
Batch 30/31, val_loss: 0.9708
Batch 31/31, val_loss: 0.9767
```



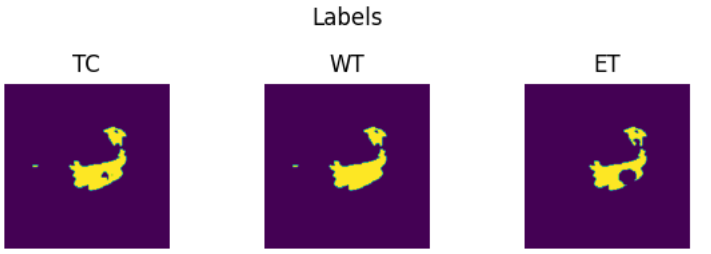
epoch 24

```
   average train loss: 0.3825
   average validation loss: 0.9174
   saved as best model: True
   current mean dice: 0.5311
   current TC dice: 0.5641
   current WT dice: 0.5767
   current ET dice: 0.4938
Best Mean Metric: 0.5311
time consuming of epoch 24 is: 1729.9792
----------
epoch 25/100
TRAIN
   Batch 1/248, train_loss: 0.0901, step time: 1.4114
   Batch 2/248, train_loss: 0.8314, step time: 1.3417
   Batch 3/248, train_loss: 0.3616, step time: 1.3498
   Batch 4/248, train_loss: 0.9883, step time: 1.3546
   Batch 5/248, train_loss: 0.3446, step time: 1.3277
   Batch 6/248, train_loss: 0.5829, step time: 1.3592
   Batch 7/248, train_loss: 0.1328, step time: 1.3323
   Batch 8/248, train_loss: 0.7406, step time: 1.3385
   Batch 9/248, train_loss: 0.0584, step time: 1.3591
   Batch 10/248, train_loss: 0.2633, step time: 1.3214
   Batch 11/248, train_loss: 0.2854, step time: 1.3450
   Batch 12/248, train_loss: 0.5211, step time: 1.3475
   Batch 13/248, train_loss: 0.4005, step time: 1.3474
   Batch 14/248, train_loss: 0.0607, step time: 1.3300
   Batch 15/248, train_loss: 0.3515, step time: 1.3164
   Batch 16/248, train_loss: 0.1844, step time: 1.3518
   Batch 17/248, train_loss: 0.7515, step time: 1.3557
   Batch 18/248, train_loss: 0.3973, step time: 1.3516
   Batch 19/248, train_loss: 0.1298, step time: 1.3453
   Batch 20/248, train_loss: 0.3109, step time: 1.3499
   Batch 21/248, train_loss: 0.0670, step time: 1.3231
   Batch 22/248, train_loss: 0.9735, step time: 1.3276
   Batch 23/248, train_loss: 0.9977, step time: 1.3423
   Batch 24/248, train_loss: 0.1996, step time: 1.3545
   Batch 25/248, train_loss: 0.0762, step time: 1.3308
   Batch 26/248, train_loss: 0.4589, step time: 1.3253
   Batch 27/248, train_loss: 0.0743, step time: 1.3406
   Batch 28/248, train_loss: 0.1803, step time: 1.3382
   Batch 29/248, train_loss: 0.5867, step time: 1.3222
   Batch 30/248, train_loss: 0.2546, step time: 1.3491
   Batch 31/248, train_loss: 0.4799, step time: 1.3515
   Batch 32/248, train_loss: 0.1029, step time: 1.3440
   Batch 33/248, train_loss: 0.1301, step time: 1.3575
   Batch 34/248, train_loss: 0.0516, step time: 1.3404
   Batch 35/248, train_loss: 0.0745, step time: 1.3334
   Batch 36/248, train_loss: 0.7604, step time: 1.3535
   Batch 37/248, train_loss: 0.1636, step time: 1.3334
   Batch 38/248, train_loss: 0.3455, step time: 1.3601
   Batch 39/248, train_loss: 0.2239, step time: 1.3272
   Batch 40/248, train_loss: 0.9876, step time: 1.3208
   Batch 41/248, train_loss: 0.2892, step time: 1.3532
   Batch 42/248, train_loss: 0.0853, step time: 1.3353
   Batch 43/248, train_loss: 0.0728, step time: 1.3525
   Batch 44/248, train_loss: 0.2804, step time: 1.3644
   Batch 45/248, train_loss: 0.7257, step time: 1.3459
   Batch 46/248, train_loss: 0.1816, step time: 1.3244
   Batch 47/248, train_loss: 0.1025, step time: 1.3374
   Batch 48/248, train_loss: 0.2192, step time: 1.3485
   Batch 49/248, train_loss: 0.5260, step time: 1.3427
   Batch 50/248, train_loss: 0.1773, step time: 1.3453
   Batch 51/248, train_loss: 0.1748, step time: 1.3108
   Batch 52/248, train_loss: 0.3161, step time: 1.3451
   Batch 53/248, train_loss: 0.4797, step time: 1.3487
   Batch 54/248, train_loss: 0.2836, step time: 1.3359
   Batch 55/248, train_loss: 0.3286, step time: 1.3320
   Batch 56/248, train_loss: 0.2591, step time: 1.3249
   Batch 57/248, train_loss: 0.3364, step time: 1.3301
   Batch 58/248, train_loss: 0.0886, step time: 1.3402
   Batch 59/248, train_loss: 0.0935, step time: 1.3439
   Batch 60/248, train_loss: 0.0791, step time: 1.3400
   Batch 61/248, train_loss: 0.1017, step time: 1.3222
   Batch 62/248, train_loss: 0.3388, step time: 1.3587
   Batch 63/248, train_loss: 0.5445, step time: 1.3499
   Batch 64/248, train_loss: 0.5410, step time: 1.3284
   Batch 65/248, train_loss: 0.2848, step time: 1.3190
   Batch 66/248, train_loss: 0.1616, step time: 1.3160
   Batch 67/248, train_loss: 0.0897, step time: 1.3242
   Batch 68/248, train_loss: 0.1927, step time: 1.3372
   Batch 69/248, train_loss: 0.8389, step time: 1.3217
   Batch 70/248, train_loss: 0.1595, step time: 1.3402
   Batch 71/248, train_loss: 0.1745, step time: 1.3420
   Batch 72/248, train_loss: 0.0891, step time: 1.3347
   Batch 73/248, train_loss: 0.1091, step time: 1.3192
```

Batch 74/248, train_loss: 0.9984, step time: 1.3328
Batch 75/248, train_loss: 0.1355, step time: 1.3421
Batch 76/248, train_loss: 0.7055, step time: 1.3445
Batch 77/248, train_loss: 0.8741, step time: 1.3393
Batch 78/248, train_loss: 0.1238, step time: 1.3103
Batch 79/248, train_loss: 0.1394, step time: 1.3511
Batch 80/248, train_loss: 0.2213, step time: 1.3316
Batch 81/248, train_loss: 0.1529, step time: 1.3427
Batch 82/248, train_loss: 0.1118, step time: 1.3213
Batch 83/248, train_loss: 0.6164, step time: 1.3447
Batch 84/248, train_loss: 0.2342, step time: 1.3331
Batch 85/248, train_loss: 0.5157, step time: 1.3519
Batch 86/248, train_loss: 0.3782, step time: 1.3537
Batch 87/248, train_loss: 0.7810, step time: 1.3354
Batch 88/248, train_loss: 0.5001, step time: 1.3267
Batch 89/248, train_loss: 0.0810, step time: 1.3156
Batch 90/248, train_loss: 0.3038, step time: 1.3427
Batch 91/248, train_loss: 0.4147, step time: 1.3327
Batch 92/248, train_loss: 0.8938, step time: 1.3592
Batch 93/248, train_loss: 0.1796, step time: 1.3385
Batch 94/248, train_loss: 0.4086, step time: 1.3564
Batch 95/248, train_loss: 0.1954, step time: 1.3365
Batch 96/248, train_loss: 0.1838, step time: 1.3122
Batch 97/248, train_loss: 0.8939, step time: 1.3407
Batch 98/248, train_loss: 0.1187, step time: 1.3430
Batch 99/248, train_loss: 0.4413, step time: 1.3465
Batch 100/248, train_loss: 0.3920, step time: 1.3533
Batch 101/248, train_loss: 0.0533, step time: 1.3467
Batch 102/248, train_loss: 0.1396, step time: 1.3248
Batch 103/248, train_loss: 0.4967, step time: 1.3498
Batch 104/248, train_loss: 0.3805, step time: 1.3235
Batch 105/248, train_loss: 0.1083, step time: 1.3348
Batch 106/248, train_loss: 0.1492, step time: 1.3313
Batch 107/248, train_loss: 0.6927, step time: 1.3229
Batch 108/248, train_loss: 0.6867, step time: 1.3510
Batch 109/248, train_loss: 0.9821, step time: 1.3339
Batch 110/248, train_loss: 0.5703, step time: 1.3381
Batch 111/248, train_loss: 0.1099, step time: 1.3482
Batch 112/248, train_loss: 0.2339, step time: 1.3414
Batch 113/248, train_loss: 0.9602, step time: 1.3273
Batch 114/248, train_loss: 0.2090, step time: 1.3263
Batch 115/248, train_loss: 0.2988, step time: 1.3379
Batch 116/248, train_loss: 0.1196, step time: 1.3421
Batch 117/248, train_loss: 0.8994, step time: 1.3401
Batch 118/248, train_loss: 0.6298, step time: 1.3502
Batch 119/248, train_loss: 0.3820, step time: 1.3313
Batch 120/248, train_loss: 0.2207, step time: 1.3173
Batch 121/248, train_loss: 0.3348, step time: 1.3321
Batch 122/248, train_loss: 0.4801, step time: 1.3250
Batch 123/248, train_loss: 0.1177, step time: 1.3342
Batch 124/248, train_loss: 0.3763, step time: 1.3247
Batch 125/248, train_loss: 0.6464, step time: 1.3463
Batch 126/248, train_loss: 0.3678, step time: 1.3303
Batch 127/248, train_loss: 0.1464, step time: 1.3541
Batch 128/248, train_loss: 0.1890, step time: 1.3244
Batch 129/248, train_loss: 0.1174, step time: 1.3281
Batch 130/248, train_loss: 0.1143, step time: 1.3435
Batch 131/248, train_loss: 0.6005, step time: 1.3317
Batch 132/248, train_loss: 0.2217, step time: 1.3465
Batch 133/248, train_loss: 0.1825, step time: 1.3488
Batch 134/248, train_loss: 0.9675, step time: 1.3338
Batch 135/248, train_loss: 0.2988, step time: 1.3294
Batch 136/248, train_loss: 0.2317, step time: 1.3256
Batch 137/248, train_loss: 0.1343, step time: 1.3443
Batch 138/248, train_loss: 0.1134, step time: 1.3534
Batch 139/248, train_loss: 0.1803, step time: 1.3416
Batch 140/248, train_loss: 0.2628, step time: 1.3459
Batch 141/248, train_loss: 0.2912, step time: 1.3558
Batch 142/248, train_loss: 0.8238, step time: 1.3365
Batch 143/248, train_loss: 0.2939, step time: 1.3516
Batch 144/248, train_loss: 0.1486, step time: 1.3467
Batch 145/248, train_loss: 0.0538, step time: 1.3345
Batch 146/248, train_loss: 0.5743, step time: 1.3282
Batch 147/248, train_loss: 0.0520, step time: 1.3560
Batch 148/248, train_loss: 0.9596, step time: 1.3290
Batch 149/248, train_loss: 0.1658, step time: 1.3526
Batch 150/248, train_loss: 0.6443, step time: 1.3231
Batch 151/248, train_loss: 0.9204, step time: 1.3231
Batch 152/248, train_loss: 0.0544, step time: 1.3212
Batch 153/248, train_loss: 0.2804, step time: 1.3216
Batch 154/248, train_loss: 0.7454, step time: 1.3395
Batch 155/248, train_loss: 0.1165, step time: 1.3249
Batch 156/248, train_loss: 0.1812, step time: 1.3604
Batch 157/248, train_loss: 0.3785, step time: 1.3368

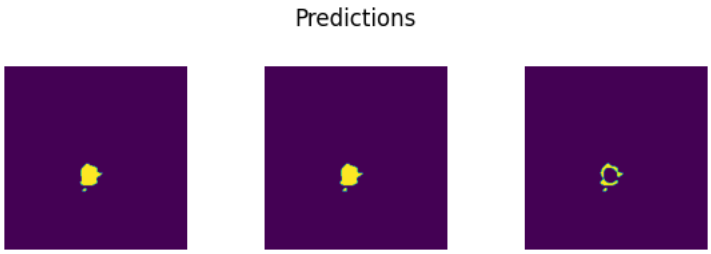
```
Batch 158/248, train_loss: 0.9973, step time: 1.3498
Batch 159/248, train_loss: 0.8495, step time: 1.3513
Batch 160/248, train_loss: 0.1000, step time: 1.3464
Batch 161/248, train_loss: 0.0809, step time: 1.3340
Batch 162/248, train_loss: 0.0791, step time: 1.3435
Batch 163/248, train_loss: 0.1582, step time: 1.3544
Batch 164/248, train_loss: 0.3294, step time: 1.3344
Batch 165/248, train_loss: 0.8978, step time: 1.3238
Batch 166/248, train_loss: 0.1406, step time: 1.3320
Batch 167/248, train_loss: 0.2547, step time: 1.3421
Batch 168/248, train_loss: 0.2319, step time: 1.3455
Batch 169/248, train_loss: 0.1300, step time: 1.3364
Batch 170/248, train_loss: 0.7334, step time: 1.3424
Batch 171/248, train_loss: 0.1112, step time: 1.3301
Batch 172/248, train_loss: 0.8856, step time: 1.3601
Batch 173/248, train_loss: 0.1125, step time: 1.3509
Batch 174/248, train_loss: 0.6056, step time: 1.3670
Batch 175/248, train_loss: 0.2047, step time: 1.3514
Batch 176/248, train_loss: 0.4336, step time: 1.3495
Batch 177/248, train_loss: 0.5482, step time: 1.3778
Batch 178/248, train_loss: 0.4551, step time: 1.3573
Batch 179/248, train_loss: 0.0839, step time: 1.3302
Batch 180/248, train_loss: 0.4129, step time: 1.3531
Batch 181/248, train_loss: 0.1106, step time: 1.3328
Batch 182/248, train_loss: 0.9311, step time: 1.3256
Batch 183/248, train_loss: 0.2087, step time: 1.3336
Batch 184/248, train_loss: 0.2859, step time: 1.3363
Batch 185/248, train_loss: 0.1207, step time: 1.3146
Batch 186/248, train_loss: 0.1316, step time: 1.3245
Batch 187/248, train_loss: 0.2059, step time: 1.3397
Batch 188/248, train_loss: 0.2542, step time: 1.3330
Batch 189/248, train_loss: 0.6764, step time: 1.3722
Batch 190/248, train_loss: 0.1692, step time: 1.3275
Batch 191/248, train_loss: 0.7245, step time: 1.3381
Batch 192/248, train_loss: 0.2770, step time: 1.3625
Batch 193/248, train_loss: 0.2684, step time: 1.3400
Batch 194/248, train_loss: 0.1178, step time: 1.3348
Batch 195/248, train_loss: 0.7027, step time: 1.3234
Batch 196/248, train_loss: 0.9920, step time: 1.3239
Batch 197/248, train_loss: 0.2511, step time: 1.3259
Batch 198/248, train_loss: 0.9982, step time: 1.3198
Batch 199/248, train_loss: 0.1809, step time: 1.3455
Batch 200/248, train_loss: 0.1494, step time: 1.3414
Batch 201/248, train_loss: 0.1406, step time: 1.3253
Batch 202/248, train_loss: 0.5879, step time: 1.3359
Batch 203/248, train_loss: 0.5538, step time: 1.3579
Batch 204/248, train_loss: 0.0883, step time: 1.3505
Batch 205/248, train_loss: 0.3252, step time: 1.3616
Batch 206/248, train_loss: 0.8250, step time: 1.3563
Batch 207/248, train_loss: 0.1459, step time: 1.3508
Batch 208/248, train_loss: 0.2056, step time: 1.3445
Batch 209/248, train_loss: 0.1380, step time: 1.3486
Batch 210/248, train_loss: 0.0870, step time: 1.3318
Batch 211/248, train_loss: 0.0860, step time: 1.3307
Batch 212/248, train_loss: 0.3127, step time: 1.3204
Batch 213/248, train_loss: 0.2289, step time: 1.3190
Batch 214/248, train_loss: 0.1017, step time: 1.3370
Batch 215/248, train_loss: 0.4147, step time: 1.3249
Batch 216/248, train_loss: 0.3327, step time: 1.3515
Batch 217/248, train_loss: 0.2967, step time: 1.3392
Batch 218/248, train_loss: 0.7839, step time: 1.3214
Batch 219/248, train_loss: 0.0802, step time: 1.3417
Batch 220/248, train_loss: 0.2388, step time: 1.3161
Batch 221/248, train_loss: 0.3029, step time: 1.3225
Batch 222/248, train_loss: 0.3433, step time: 1.3248
Batch 223/248, train_loss: 0.0561, step time: 1.3182
Batch 224/248, train_loss: 0.1227, step time: 1.3157
Batch 225/248, train_loss: 0.6972, step time: 1.3654
Batch 226/248, train_loss: 0.1651, step time: 1.3206
Batch 227/248, train_loss: 0.1056, step time: 1.3296
Batch 228/248, train_loss: 0.4608, step time: 1.3528
Batch 229/248, train_loss: 0.1625, step time: 1.3408
Batch 230/248, train_loss: 0.0833, step time: 1.3355
Batch 231/248, train_loss: 0.8689, step time: 1.3243
Batch 232/248, train_loss: 0.0785, step time: 1.3186
Batch 233/248, train_loss: 0.9921, step time: 1.3414
Batch 234/248, train_loss: 0.4976, step time: 1.3356
Batch 235/248, train_loss: 0.3331, step time: 1.3469
Batch 236/248, train_loss: 0.8087, step time: 1.3326
Batch 237/248, train_loss: 0.1452, step time: 1.3343
Batch 238/248, train_loss: 0.1207, step time: 1.3476
Batch 239/248, train_loss: 0.2444, step time: 1.3491
Batch 240/248, train_loss: 0.6334, step time: 1.3725
Batch 241/248, train_loss: 0.9705, step time: 1.3273
Batch 242/248, train_loss: 0.1820, step time: 1.3300
```

```
   Batch 243/248, train_loss: 0.5055, step time: 1.3426
   Batch 244/248, train_loss: 0.4527, step time: 1.3606
   Batch 245/248, train_loss: 0.2796, step time: 1.3675
   Batch 246/248, train_loss: 0.7360, step time: 1.3342
   Batch 247/248, train_loss: 0.1012, step time: 1.3361
   Batch 248/248, train_loss: 0.9999, step time: 1.3101
```



VAL

```
   Batch 1/31, val_loss: 0.8536
   Batch 2/31, val_loss: 0.9980
   Batch 3/31, val_loss: 0.9768
   Batch 4/31, val_loss: 0.9542
   Batch 5/31, val_loss: 0.9927
   Batch 6/31, val_loss: 0.7061
   Batch 7/31, val_loss: 0.8626
   Batch 8/31, val_loss: 0.9627
   Batch 9/31, val_loss: 0.7048
   Batch 10/31, val_loss: 0.9235
   Batch 11/31, val_loss: 0.8249
   Batch 12/31, val_loss: 0.9698
   Batch 13/31, val_loss: 0.9944
   Batch 14/31, val_loss: 0.9429
   Batch 15/31, val_loss: 0.9892
   Batch 16/31, val_loss: 0.9756
   Batch 17/31, val_loss: 0.9712
   Batch 18/31, val_loss: 0.9421
   Batch 19/31, val_loss: 0.7591
   Batch 20/31, val_loss: 0.8884
   Batch 21/31, val_loss: 0.8914
   Batch 22/31, val_loss: 0.9810
   Batch 23/31, val_loss: 0.9755
   Batch 24/31, val_loss: 0.7483
   Batch 25/31, val_loss: 0.8105
   Batch 26/31, val_loss: 0.9328
   Batch 27/31, val_loss: 0.9866
   Batch 28/31, val_loss: 0.7579
   Batch 29/31, val_loss: 0.9871
   Batch 30/31, val_loss: 0.9645
   Batch 31/31, val_loss: 0.9752
```



epoch 25

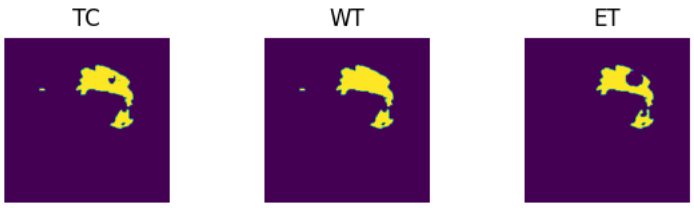
epoch 25
   average train loss: 0.3621
   average validation loss: 0.9098
   saved as best model: True
   current mean dice: 0.5341
   current TC dice: 0.5615
   current WT dice: 0.5745
   current ET dice: 0.5074
Best Mean Metric: 0.5341
time consuming of epoch 25 is: 1710.3755
----
epoch 26/100
TRAIN
   Batch 1/248, train_loss: 0.1049, step time: 1.3777
   Batch 2/248, train_loss: 0.9620, step time: 1.3566
   Batch 3/248, train_loss: 0.5441, step time: 1.3292
   Batch 4/248, train_loss: 0.9905, step time: 1.3298
   Batch 5/248, train_loss: 0.2626, step time: 1.3367
   Batch 6/248, train_loss: 0.6618, step time: 1.3297
   Batch 7/248, train_loss: 0.0642, step time: 1.3322
   Batch 8/248, train_loss: 0.7167, step time: 1.3578
   Batch 9/248, train_loss: 0.0576, step time: 1.3319
   Batch 10/248, train_loss: 0.2942, step time: 1.3534
   Batch 11/248, train_loss: 0.2530, step time: 1.3697
   Batch 12/248, train_loss: 0.4947, step time: 1.3602
   Batch 13/248, train_loss: 0.4927, step time: 1.3757
   Batch 14/248, train_loss: 0.0649, step time: 1.3622
   Batch 15/248, train_loss: 0.3430, step time: 1.3347
   Batch 16/248, train_loss: 0.1826, step time: 1.3706
   Batch 17/248, train_loss: 0.3889, step time: 1.3392
   Batch 18/248, train_loss: 0.4375, step time: 1.3392
   Batch 19/248, train_loss: 0.1387, step time: 1.3429
   Batch 20/248, train_loss: 0.4270, step time: 1.3778
   Batch 21/248, train_loss: 0.0574, step time: 1.3543
   Batch 22/248, train_loss: 0.9984, step time: 1.3195
   Batch 23/248, train_loss: 0.9579, step time: 1.3306
   Batch 24/248, train_loss: 0.1038, step time: 1.3545
   Batch 25/248, train_loss: 0.0774, step time: 1.3518
   Batch 26/248, train_loss: 0.5022, step time: 1.3553
   Batch 27/248, train_loss: 0.0697, step time: 1.3503
   Batch 28/248, train_loss: 0.1648, step time: 1.3175
   Batch 29/248, train_loss: 0.5719, step time: 1.3626
   Batch 30/248, train_loss: 0.2912, step time: 1.3566
   Batch 31/248, train_loss: 0.4172, step time: 1.3303
   Batch 32/248, train_loss: 0.0901, step time: 1.3254
   Batch 33/248, train_loss: 0.1324, step time: 1.3621
   Batch 34/248, train_loss: 0.0465, step time: 1.3371
   Batch 35/248, train_loss: 0.0570, step time: 1.3193
   Batch 36/248, train_loss: 0.8471, step time: 1.3501
   Batch 37/248, train_loss: 0.1652, step time: 1.3469
   Batch 38/248, train_loss: 0.3165, step time: 1.3325
   Batch 39/248, train_loss: 0.1989, step time: 1.3444
   Batch 40/248, train_loss: 0.9984, step time: 1.3136
   Batch 41/248, train_loss: 0.2272, step time: 1.3485
   Batch 42/248, train_loss: 0.0775, step time: 1.3330
   Batch 43/248, train_loss: 0.0688, step time: 1.3333
   Batch 44/248, train_loss: 0.3109, step time: 1.3422
   Batch 45/248, train_loss: 0.7428, step time: 1.3418
   Batch 46/248, train_loss: 0.2053, step time: 1.3575
   Batch 47/248, train_loss: 0.0987, step time: 1.3339
   Batch 48/248, train_loss: 0.2371, step time: 1.3320
   Batch 49/248, train_loss: 0.4881, step time: 1.3749
   Batch 50/248, train_loss: 0.1794, step time: 1.3494
   Batch 51/248, train_loss: 0.1812, step time: 1.3278
   Batch 52/248, train_loss: 0.1766, step time: 1.3560
   Batch 53/248, train_loss: 0.4219, step time: 1.3385
   Batch 54/248, train_loss: 0.2878, step time: 1.3562
   Batch 55/248, train_loss: 0.2876, step time: 1.3437
   Batch 56/248, train_loss: 0.2583, step time: 1.3524
   Batch 57/248, train_loss: 0.3364, step time: 1.3458
   Batch 58/248, train_loss: 0.0848, step time: 1.3536
   Batch 59/248, train_loss: 0.0964, step time: 1.3353
   Batch 60/248, train_loss: 0.0659, step time: 1.3435
   Batch 61/248, train_loss: 0.1158, step time: 1.3563
   Batch 62/248, train_loss: 0.2735, step time: 1.3384
   Batch 63/248, train_loss: 0.6043, step time: 1.3588
   Batch 64/248, train_loss: 0.5367, step time: 1.3406
   Batch 65/248, train_loss: 0.3099, step time: 1.3455
   Batch 66/248, train_loss: 0.1471, step time: 1.3378
   Batch 67/248, train_loss: 0.0848, step time: 1.3141
   Batch 68/248, train_loss: 0.1536, step time: 1.3533
   Batch 69/248, train_loss: 0.8558, step time: 1.3662
   Batch 70/248, train_loss: 0.1612, step time: 1.3535
   Batch 71/248, train_loss: 0.1597, step time: 1.3551
   Batch 72/248, train_loss: 0.0922, step time: 1.3350

Batch 73/248, train_loss: 0.1102, step time: 1.3569
Batch 74/248, train_loss: 0.9986, step time: 1.3288
Batch 75/248, train_loss: 0.1208, step time: 1.3237
Batch 76/248, train_loss: 0.6701, step time: 1.3207
Batch 77/248, train_loss: 0.8474, step time: 1.3418
Batch 78/248, train_loss: 0.1335, step time: 1.3367
Batch 79/248, train_loss: 0.2089, step time: 1.3442
Batch 80/248, train_loss: 0.2424, step time: 1.3355
Batch 81/248, train_loss: 0.1558, step time: 1.3194
Batch 82/248, train_loss: 0.1297, step time: 1.3521
Batch 83/248, train_loss: 0.6112, step time: 1.3403
Batch 84/248, train_loss: 0.3310, step time: 1.3294
Batch 85/248, train_loss: 0.5021, step time: 1.3510
Batch 86/248, train_loss: 0.2808, step time: 1.3538
Batch 87/248, train_loss: 0.9773, step time: 1.3502
Batch 88/248, train_loss: 0.4604, step time: 1.3528
Batch 89/248, train_loss: 0.1026, step time: 1.3232
Batch 90/248, train_loss: 0.2496, step time: 1.3208
Batch 91/248, train_loss: 0.4182, step time: 1.3437
Batch 92/248, train_loss: 0.7658, step time: 1.3327
Batch 93/248, train_loss: 0.1609, step time: 1.3306
Batch 94/248, train_loss: 0.3943, step time: 1.3385
Batch 95/248, train_loss: 0.2034, step time: 1.3369
Batch 96/248, train_loss: 0.1698, step time: 1.3433
Batch 97/248, train_loss: 0.9477, step time: 1.3210
Batch 98/248, train_loss: 0.1071, step time: 1.3295
Batch 99/248, train_loss: 0.3855, step time: 1.3321
Batch 100/248, train_loss: 0.3581, step time: 1.3410
Batch 101/248, train_loss: 0.0578, step time: 1.3247
Batch 102/248, train_loss: 0.1339, step time: 1.3118
Batch 103/248, train_loss: 0.4183, step time: 1.3273
Batch 104/248, train_loss: 0.3238, step time: 1.3292
Batch 105/248, train_loss: 0.0897, step time: 1.3604
Batch 106/248, train_loss: 0.1389, step time: 1.3265
Batch 107/248, train_loss: 0.6383, step time: 1.3577
Batch 108/248, train_loss: 0.7139, step time: 1.3221
Batch 109/248, train_loss: 0.9854, step time: 1.3562
Batch 110/248, train_loss: 0.9577, step time: 1.3459
Batch 111/248, train_loss: 0.1187, step time: 1.3508
Batch 112/248, train_loss: 0.2147, step time: 1.3342
Batch 113/248, train_loss: 0.9628, step time: 1.3477
Batch 114/248, train_loss: 0.1804, step time: 1.3464
Batch 115/248, train_loss: 0.2642, step time: 1.3228
Batch 116/248, train_loss: 0.0967, step time: 1.3474
Batch 117/248, train_loss: 0.7427, step time: 1.3380
Batch 118/248, train_loss: 0.4453, step time: 1.3367
Batch 119/248, train_loss: 0.5138, step time: 1.3538
Batch 120/248, train_loss: 0.2652, step time: 1.3614
Batch 121/248, train_loss: 0.3256, step time: 1.3420
Batch 122/248, train_loss: 0.4919, step time: 1.3389
Batch 123/248, train_loss: 0.0965, step time: 1.3635
Batch 124/248, train_loss: 0.3283, step time: 1.3603
Batch 125/248, train_loss: 0.6622, step time: 1.3481
Batch 126/248, train_loss: 0.5168, step time: 1.3381
Batch 127/248, train_loss: 0.1352, step time: 1.3452
Batch 128/248, train_loss: 0.2014, step time: 1.3211
Batch 129/248, train_loss: 0.1279, step time: 1.3284
Batch 130/248, train_loss: 0.1122, step time: 1.3232
Batch 131/248, train_loss: 0.4983, step time: 1.3495
Batch 132/248, train_loss: 0.2237, step time: 1.3226
Batch 133/248, train_loss: 0.2308, step time: 1.3496
Batch 134/248, train_loss: 0.9569, step time: 1.3439
Batch 135/248, train_loss: 0.2811, step time: 1.3375
Batch 136/248, train_loss: 0.1698, step time: 1.3669
Batch 137/248, train_loss: 0.1331, step time: 1.3559
Batch 138/248, train_loss: 0.1055, step time: 1.3614
Batch 139/248, train_loss: 0.2310, step time: 1.3323
Batch 140/248, train_loss: 0.2725, step time: 1.3551
Batch 141/248, train_loss: 0.1764, step time: 1.3540
Batch 142/248, train_loss: 0.6571, step time: 1.3747
Batch 143/248, train_loss: 0.2985, step time: 1.3567
Batch 144/248, train_loss: 0.1427, step time: 1.3486
Batch 145/248, train_loss: 0.0701, step time: 1.3574
Batch 146/248, train_loss: 0.5593, step time: 1.3712
Batch 147/248, train_loss: 0.0646, step time: 1.3410
Batch 148/248, train_loss: 0.9629, step time: 1.3611
Batch 149/248, train_loss: 0.1421, step time: 1.3662
Batch 150/248, train_loss: 0.6755, step time: 1.3535
Batch 151/248, train_loss: 0.2943, step time: 1.3367
Batch 152/248, train_loss: 0.0425, step time: 1.3438
Batch 153/248, train_loss: 0.2379, step time: 1.3354
Batch 154/248, train_loss: 0.5676, step time: 1.3720
Batch 155/248, train_loss: 0.1156, step time: 1.3532
Batch 156/248, train_loss: 0.2184, step time: 1.3353
Batch 157/248, train_loss: 0.3184, step time: 1.3718

```
Batch 158/248, train_loss: 0.9868, step time: 1.3388
Batch 159/248, train_loss: 0.5869, step time: 1.3280
Batch 160/248, train_loss: 0.0907, step time: 1.3594
Batch 161/248, train_loss: 0.0771, step time: 1.3475
Batch 162/248, train_loss: 0.0722, step time: 1.3555
Batch 163/248, train_loss: 0.2146, step time: 1.3497
Batch 164/248, train_loss: 0.3315, step time: 1.3365
Batch 165/248, train_loss: 0.9953, step time: 1.3383
Batch 166/248, train_loss: 0.1131, step time: 1.3590
Batch 167/248, train_loss: 0.2752, step time: 1.3547
Batch 168/248, train_loss: 0.1820, step time: 1.3542
Batch 169/248, train_loss: 0.1361, step time: 1.3733
Batch 170/248, train_loss: 0.6886, step time: 1.3722
Batch 171/248, train_loss: 0.0905, step time: 1.3560
Batch 172/248, train_loss: 0.8569, step time: 1.3524
Batch 173/248, train_loss: 0.1056, step time: 1.3706
Batch 174/248, train_loss: 0.5270, step time: 1.3722
Batch 175/248, train_loss: 0.1805, step time: 1.3569
Batch 176/248, train_loss: 0.4109, step time: 1.3557
Batch 177/248, train_loss: 0.8294, step time: 1.3637
Batch 178/248, train_loss: 0.3995, step time: 1.3682
Batch 179/248, train_loss: 0.0783, step time: 1.3783
Batch 180/248, train_loss: 0.4856, step time: 1.3431
Batch 181/248, train_loss: 0.0973, step time: 1.3641
Batch 182/248, train_loss: 0.9628, step time: 1.3855
Batch 183/248, train_loss: 0.1645, step time: 1.3794
Batch 184/248, train_loss: 0.4250, step time: 1.3697
Batch 185/248, train_loss: 0.1338, step time: 1.3458
Batch 186/248, train_loss: 0.1076, step time: 1.3692
Batch 187/248, train_loss: 0.1881, step time: 1.3595
Batch 188/248, train_loss: 0.5691, step time: 1.3790
Batch 189/248, train_loss: 0.7676, step time: 1.3678
Batch 190/248, train_loss: 0.1959, step time: 1.3631
Batch 191/248, train_loss: 0.7551, step time: 1.3558
Batch 192/248, train_loss: 0.2020, step time: 1.3525
Batch 193/248, train_loss: 0.4739, step time: 1.3707
Batch 194/248, train_loss: 0.1767, step time: 1.3862
Batch 195/248, train_loss: 0.9695, step time: 1.3520
Batch 196/248, train_loss: 0.9999, step time: 1.3619
Batch 197/248, train_loss: 0.4511, step time: 1.3693
Batch 198/248, train_loss: 0.9989, step time: 1.3469
Batch 199/248, train_loss: 0.3198, step time: 1.3878
Batch 200/248, train_loss: 0.1883, step time: 1.3632
Batch 201/248, train_loss: 0.1489, step time: 1.3462
Batch 202/248, train_loss: 0.5150, step time: 1.3803
Batch 203/248, train_loss: 0.8126, step time: 1.3839
Batch 204/248, train_loss: 0.1176, step time: 1.3779
Batch 205/248, train_loss: 0.3919, step time: 1.3919
Batch 206/248, train_loss: 0.7342, step time: 1.3656
Batch 207/248, train_loss: 0.1911, step time: 1.3789
Batch 208/248, train_loss: 0.1902, step time: 1.3792
Batch 209/248, train_loss: 0.1665, step time: 1.3598
Batch 210/248, train_loss: 0.0994, step time: 1.3587
Batch 211/248, train_loss: 0.1163, step time: 1.3705
Batch 212/248, train_loss: 0.3462, step time: 1.3576
Batch 213/248, train_loss: 0.2172, step time: 1.3466
Batch 214/248, train_loss: 0.1164, step time: 1.3776
Batch 215/248, train_loss: 0.4700, step time: 1.3724
Batch 216/248, train_loss: 0.2866, step time: 1.3884
Batch 217/248, train_loss: 0.3477, step time: 1.3586
Batch 218/248, train_loss: 0.8967, step time: 1.3697
Batch 219/248, train_loss: 0.0866, step time: 1.3438
Batch 220/248, train_loss: 0.2382, step time: 1.3753
Batch 221/248, train_loss: 0.3731, step time: 1.3919
Batch 222/248, train_loss: 0.2236, step time: 1.3920
Batch 223/248, train_loss: 0.0701, step time: 1.3648
Batch 224/248, train_loss: 0.1151, step time: 1.3509
Batch 225/248, train_loss: 0.4042, step time: 1.3883
Batch 226/248, train_loss: 0.2519, step time: 1.3871
Batch 227/248, train_loss: 0.1444, step time: 1.3738
Batch 228/248, train_loss: 0.2582, step time: 1.3628
Batch 229/248, train_loss: 0.1442, step time: 1.3711
Batch 230/248, train_loss: 0.0868, step time: 1.3619
Batch 231/248, train_loss: 0.8453, step time: 1.3787
Batch 232/248, train_loss: 0.0729, step time: 1.3708
Batch 233/248, train_loss: 0.9985, step time: 1.3740
Batch 234/248, train_loss: 0.4963, step time: 1.3735
Batch 235/248, train_loss: 0.3832, step time: 1.3656
Batch 236/248, train_loss: 0.7994, step time: 1.3850
Batch 237/248, train_loss: 0.1376, step time: 1.3867
Batch 238/248, train_loss: 0.1332, step time: 1.3599
Batch 239/248, train_loss: 0.2055, step time: 1.3951
Batch 240/248, train_loss: 0.3715, step time: 1.3810
Batch 241/248, train_loss: 0.9289, step time: 1.3590
Batch 242/248, train_loss: 0.2197, step time: 1.3546
```

```
Batch 243/248, train_loss: 0.4731, step time: 1.3928
Batch 244/248, train_loss: 0.4849, step time: 1.3848
Batch 245/248, train_loss: 0.0863, step time: 1.3900
Batch 246/248, train_loss: 0.6819, step time: 1.3953
Batch 247/248, train_loss: 0.1064, step time: 1.3740
Batch 248/248, train_loss: 0.9999, step time: 1.3434
```

Labels

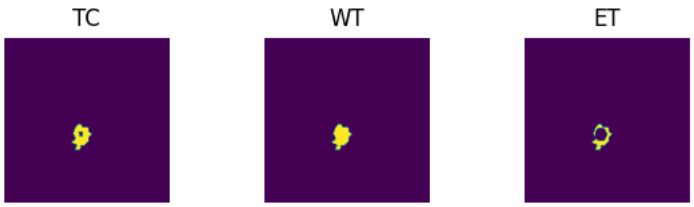


Predictions

VAL

```
Batch 1/31, val_loss: 0.8405
Batch 2/31, val_loss: 0.9984
Batch 3/31, val_loss: 0.9773
Batch 4/31, val_loss: 0.9533
Batch 5/31, val_loss: 0.9966
Batch 6/31, val_loss: 0.7108
Batch 7/31, val_loss: 0.8416
Batch 8/31, val_loss: 0.9704
Batch 9/31, val_loss: 0.7134
Batch 10/31, val_loss: 0.9299
Batch 11/31, val_loss: 0.8244
Batch 12/31, val_loss: 0.9756
Batch 13/31, val_loss: 0.9984
Batch 14/31, val_loss: 0.9653
Batch 15/31, val_loss: 0.9879
Batch 16/31, val_loss: 0.9719
Batch 17/31, val_loss: 0.9716
Batch 18/31, val_loss: 0.9569
Batch 19/31, val_loss: 0.7652
Batch 20/31, val_loss: 0.8881
Batch 21/31, val_loss: 0.8887
Batch 22/31, val_loss: 0.9803
Batch 23/31, val_loss: 0.9830
Batch 24/31, val_loss: 0.7687
Batch 25/31, val_loss: 0.8151
Batch 26/31, val_loss: 0.9255
Batch 27/31, val_loss: 0.9817
Batch 28/31, val_loss: 0.7586
Batch 29/31, val_loss: 0.9838
Batch 30/31, val_loss: 0.9661
Batch 31/31, val_loss: 0.9765
```

Labels



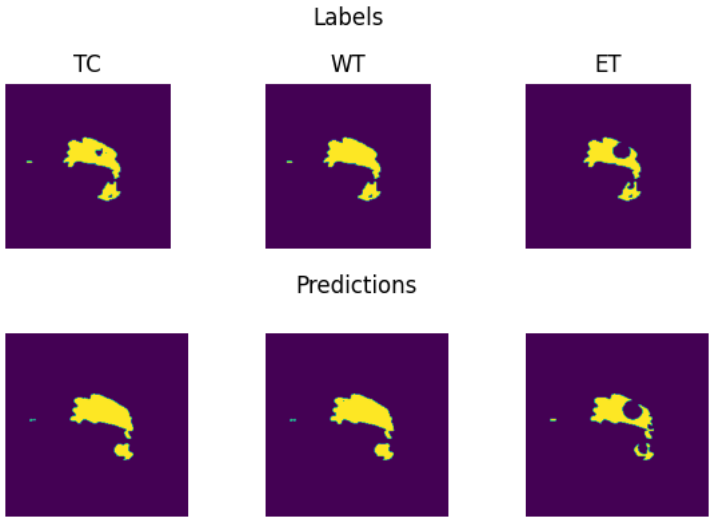
Predictions

```
epoch 26
   average train loss: 0.3591
   average validation loss: 0.9118
   saved as best model: False
   current mean dice: 0.5158
   current TC dice: 0.5359
   current WT dice: 0.5528
   current ET dice: 0.5003
Best Mean Metric: 0.5341
time consuming of epoch 26 is: 1713.4668
----------
epoch 27/100
TRAIN
   Batch 1/248, train_loss: 0.0874, step time: 1.4417
   Batch 2/248, train_loss: 0.8334, step time: 1.3941
   Batch 3/248, train_loss: 0.3510, step time: 1.3914
   Batch 4/248, train_loss: 0.9859, step time: 1.3981
   Batch 5/248, train_loss: 0.2703, step time: 1.3610
   Batch 6/248, train_loss: 0.5971, step time: 1.3892
   Batch 7/248, train_loss: 0.1243, step time: 1.3960
   Batch 8/248, train_loss: 0.7577, step time: 1.3777
   Batch 9/248, train_loss: 0.0627, step time: 1.3703
   Batch 10/248, train_loss: 0.2395, step time: 1.3946
   Batch 11/248, train_loss: 0.3076, step time: 1.3691
   Batch 12/248, train_loss: 0.4560, step time: 1.4101
   Batch 13/248, train_loss: 0.5116, step time: 1.3895
   Batch 14/248, train_loss: 0.0561, step time: 1.3558
   Batch 15/248, train_loss: 0.3545, step time: 1.3659
   Batch 16/248, train_loss: 0.1699, step time: 1.3788
   Batch 17/248, train_loss: 0.3585, step time: 1.3821
   Batch 18/248, train_loss: 0.3733, step time: 1.3727
   Batch 19/248, train_loss: 0.1161, step time: 1.3700
   Batch 20/248, train_loss: 0.3353, step time: 1.3828
   Batch 21/248, train_loss: 0.0787, step time: 1.3904
   Batch 22/248, train_loss: 0.9982, step time: 1.3525
   Batch 23/248, train_loss: 0.9644, step time: 1.3990
   Batch 24/248, train_loss: 0.0978, step time: 1.3677
   Batch 25/248, train_loss: 0.0765, step time: 1.3636
   Batch 26/248, train_loss: 0.4021, step time: 1.4110
   Batch 27/248, train_loss: 0.0713, step time: 1.3720
   Batch 28/248, train_loss: 0.1794, step time: 1.4056
   Batch 29/248, train_loss: 0.5288, step time: 1.3831
   Batch 30/248, train_loss: 0.2318, step time: 1.3609
   Batch 31/248, train_loss: 0.3877, step time: 1.3908
   Batch 32/248, train_loss: 0.0904, step time: 1.3782
   Batch 33/248, train_loss: 0.1637, step time: 1.3599
   Batch 34/248, train_loss: 0.0664, step time: 1.3813
   Batch 35/248, train_loss: 0.0717, step time: 1.3600
   Batch 36/248, train_loss: 0.9182, step time: 1.3752
   Batch 37/248, train_loss: 0.1819, step time: 1.3909
   Batch 38/248, train_loss: 0.3530, step time: 1.3920
   Batch 39/248, train_loss: 0.2319, step time: 1.3701
   Batch 40/248, train_loss: 0.9959, step time: 1.3934
   Batch 41/248, train_loss: 0.2887, step time: 1.3594
   Batch 42/248, train_loss: 0.0900, step time: 1.3813
   Batch 43/248, train_loss: 0.0737, step time: 1.3779
   Batch 44/248, train_loss: 0.1539, step time: 1.3884
   Batch 45/248, train_loss: 0.6488, step time: 1.3874
   Batch 46/248, train_loss: 0.1864, step time: 1.3903
   Batch 47/248, train_loss: 0.0933, step time: 1.3772
   Batch 48/248, train_loss: 0.2490, step time: 1.3744
   Batch 49/248, train_loss: 0.4194, step time: 1.3655
   Batch 50/248, train_loss: 0.1722, step time: 1.3709
   Batch 51/248, train_loss: 0.1608, step time: 1.3742
   Batch 52/248, train_loss: 0.1922, step time: 1.3787
   Batch 53/248, train_loss: 0.4413, step time: 1.3783
   Batch 54/248, train_loss: 0.2824, step time: 1.3622
   Batch 55/248, train_loss: 0.2954, step time: 1.3604
   Batch 56/248, train_loss: 0.2227, step time: 1.3580
   Batch 57/248, train_loss: 0.2872, step time: 1.3749
   Batch 58/248, train_loss: 0.0985, step time: 1.3459
   Batch 59/248, train_loss: 0.0999, step time: 1.3467
   Batch 60/248, train_loss: 0.0832, step time: 1.3828
   Batch 61/248, train_loss: 0.1046, step time: 1.3549
   Batch 62/248, train_loss: 0.2578, step time: 1.3826
   Batch 63/248, train_loss: 0.6220, step time: 1.3962
   Batch 64/248, train_loss: 0.5316, step time: 1.3635
   Batch 65/248, train_loss: 0.2892, step time: 1.3506
   Batch 66/248, train_loss: 0.1888, step time: 1.3482
   Batch 67/248, train_loss: 0.0921, step time: 1.3591
   Batch 68/248, train_loss: 0.1072, step time: 1.3619
   Batch 69/248, train_loss: 0.8385, step time: 1.3484
   Batch 70/248, train_loss: 0.1698, step time: 1.3633
   Batch 71/248, train_loss: 0.1545, step time: 1.3447
   Batch 72/248, train_loss: 0.0671, step time: 1.3429
```

```
Batch 73/248, train_loss: 0.1380, step time: 1.3646
Batch 74/248, train_loss: 0.9935, step time: 1.3581
Batch 75/248, train_loss: 0.1250, step time: 1.3579
Batch 76/248, train_loss: 0.6063, step time: 1.3639
Batch 77/248, train_loss: 0.8681, step time: 1.3475
Batch 78/248, train_loss: 0.1297, step time: 1.3582
Batch 79/248, train_loss: 0.1431, step time: 1.3590
Batch 80/248, train_loss: 0.2460, step time: 1.3605
Batch 81/248, train_loss: 0.1528, step time: 1.3584
Batch 82/248, train_loss: 0.0999, step time: 1.3310
Batch 83/248, train_loss: 0.6045, step time: 1.3819
Batch 84/248, train_loss: 0.2466, step time: 1.3641
Batch 85/248, train_loss: 0.6737, step time: 1.3577
Batch 86/248, train_loss: 0.5161, step time: 1.3832
Batch 87/248, train_loss: 0.9618, step time: 1.3790
Batch 88/248, train_loss: 0.4891, step time: 1.3569
Batch 89/248, train_loss: 0.0884, step time: 1.3628
Batch 90/248, train_loss: 0.2740, step time: 1.3327
Batch 91/248, train_loss: 0.3927, step time: 1.3503
Batch 92/248, train_loss: 0.9247, step time: 1.3456
Batch 93/248, train_loss: 0.1793, step time: 1.3734
Batch 94/248, train_loss: 0.3335, step time: 1.3786
Batch 95/248, train_loss: 0.1966, step time: 1.3513
Batch 96/248, train_loss: 0.2472, step time: 1.3449
Batch 97/248, train_loss: 0.7673, step time: 1.3624
Batch 98/248, train_loss: 0.1512, step time: 1.3400
Batch 99/248, train_loss: 0.4068, step time: 1.3573
Batch 100/248, train_loss: 0.3622, step time: 1.3578
Batch 101/248, train_loss: 0.0575, step time: 1.3351
Batch 102/248, train_loss: 0.1229, step time: 1.3467
Batch 103/248, train_loss: 0.4623, step time: 1.3687
Batch 104/248, train_loss: 0.3674, step time: 1.3472
Batch 105/248, train_loss: 0.1042, step time: 1.3687
Batch 106/248, train_loss: 0.2084, step time: 1.3580
Batch 107/248, train_loss: 0.2603, step time: 1.3711
Batch 108/248, train_loss: 0.4738, step time: 1.3670
Batch 109/248, train_loss: 0.9943, step time: 1.3648
Batch 110/248, train_loss: 0.9749, step time: 1.3455
Batch 111/248, train_loss: 0.1093, step time: 1.3363
Batch 112/248, train_loss: 0.2322, step time: 1.3677
Batch 113/248, train_loss: 0.9740, step time: 1.3542
Batch 114/248, train_loss: 0.1705, step time: 1.3445
Batch 115/248, train_loss: 0.1999, step time: 1.3770
Batch 116/248, train_loss: 0.0790, step time: 1.3418
Batch 117/248, train_loss: 0.7488, step time: 1.3813
Batch 118/248, train_loss: 0.4286, step time: 1.3413
Batch 119/248, train_loss: 0.5550, step time: 1.3471
Batch 120/248, train_loss: 0.2704, step time: 1.3446
Batch 121/248, train_loss: 0.3129, step time: 1.3531
Batch 122/248, train_loss: 0.4524, step time: 1.3790
Batch 123/248, train_loss: 0.1050, step time: 1.3454
Batch 124/248, train_loss: 0.3338, step time: 1.3521
Batch 125/248, train_loss: 0.6139, step time: 1.3588
Batch 126/248, train_loss: 0.3015, step time: 1.3481
Batch 127/248, train_loss: 0.1297, step time: 1.3720
Batch 128/248, train_loss: 0.1894, step time: 1.3810
Batch 129/248, train_loss: 0.0923, step time: 1.3496
Batch 130/248, train_loss: 0.1629, step time: 1.3606
Batch 131/248, train_loss: 0.5189, step time: 1.3904
Batch 132/248, train_loss: 0.2199, step time: 1.3689
Batch 133/248, train_loss: 0.1485, step time: 1.3734
Batch 134/248, train_loss: 0.9613, step time: 1.3793
Batch 135/248, train_loss: 0.2802, step time: 1.3800
Batch 136/248, train_loss: 0.2372, step time: 1.3727
Batch 137/248, train_loss: 0.1327, step time: 1.3854
Batch 138/248, train_loss: 0.1114, step time: 1.3637
Batch 139/248, train_loss: 0.1719, step time: 1.3660
Batch 140/248, train_loss: 0.2025, step time: 1.3722
Batch 141/248, train_loss: 0.1964, step time: 1.3670
Batch 142/248, train_loss: 0.8635, step time: 1.3669
Batch 143/248, train_loss: 0.2853, step time: 1.3567
Batch 144/248, train_loss: 0.1369, step time: 1.3565
Batch 145/248, train_loss: 0.0686, step time: 1.3666
Batch 146/248, train_loss: 0.6810, step time: 1.3669
Batch 147/248, train_loss: 0.0665, step time: 1.3698
Batch 148/248, train_loss: 0.9366, step time: 1.3749
Batch 149/248, train_loss: 0.1514, step time: 1.3732
Batch 150/248, train_loss: 0.6615, step time: 1.3942
Batch 151/248, train_loss: 0.7670, step time: 1.3767
Batch 152/248, train_loss: 0.0506, step time: 1.3503
Batch 153/248, train_loss: 0.3804, step time: 1.3885
Batch 154/248, train_loss: 0.6489, step time: 1.3641
Batch 155/248, train_loss: 0.1057, step time: 1.3610
Batch 156/248, train_loss: 0.2281, step time: 1.3666
Batch 157/248, train_loss: 0.3379, step time: 1.3514
```

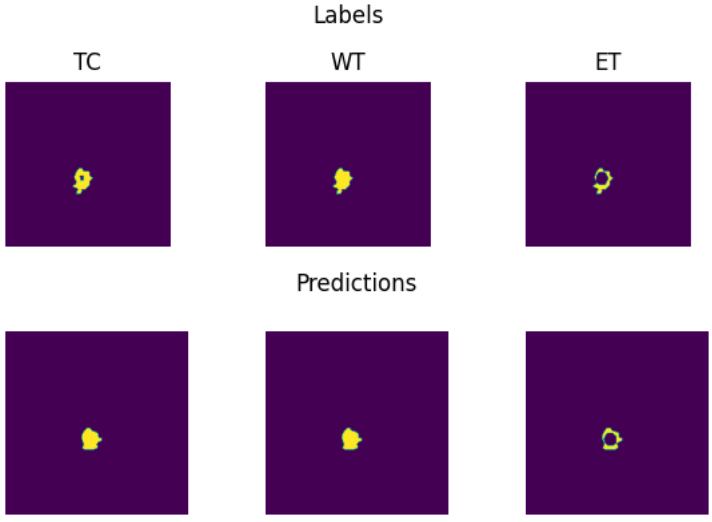
Batch 158/248, train_loss: 0.9766, step time: 1.3643
Batch 159/248, train_loss: 0.5519, step time: 1.3721
Batch 160/248, train_loss: 0.1012, step time: 1.3780
Batch 161/248, train_loss: 0.0649, step time: 1.3488
Batch 162/248, train_loss: 0.0884, step time: 1.3911
Batch 163/248, train_loss: 0.2447, step time: 1.3985
Batch 164/248, train_loss: 0.3557, step time: 1.3629
Batch 165/248, train_loss: 0.9229, step time: 1.3599
Batch 166/248, train_loss: 0.1178, step time: 1.3959
Batch 167/248, train_loss: 0.2050, step time: 1.3965
Batch 168/248, train_loss: 0.2018, step time: 1.3660
Batch 169/248, train_loss: 0.1414, step time: 1.3859
Batch 170/248, train_loss: 0.5748, step time: 1.3589
Batch 171/248, train_loss: 0.1025, step time: 1.3576
Batch 172/248, train_loss: 0.9569, step time: 1.3758
Batch 173/248, train_loss: 0.0960, step time: 1.3646
Batch 174/248, train_loss: 0.4982, step time: 1.3877
Batch 175/248, train_loss: 0.3011, step time: 1.3773
Batch 176/248, train_loss: 0.4596, step time: 1.4099
Batch 177/248, train_loss: 0.5013, step time: 1.3825
Batch 178/248, train_loss: 0.6357, step time: 1.4107
Batch 179/248, train_loss: 0.1138, step time: 1.3725
Batch 180/248, train_loss: 0.4246, step time: 1.3832
Batch 181/248, train_loss: 0.1074, step time: 1.3760
Batch 182/248, train_loss: 0.9223, step time: 1.3666
Batch 183/248, train_loss: 0.2744, step time: 1.3940
Batch 184/248, train_loss: 0.5059, step time: 1.3779
Batch 185/248, train_loss: 0.1102, step time: 1.3855
Batch 186/248, train_loss: 0.0969, step time: 1.3503
Batch 187/248, train_loss: 0.2543, step time: 1.3537
Batch 188/248, train_loss: 0.2252, step time: 1.3649
Batch 189/248, train_loss: 0.8495, step time: 1.3940
Batch 190/248, train_loss: 0.1802, step time: 1.3891
Batch 191/248, train_loss: 0.7262, step time: 1.3931
Batch 192/248, train_loss: 0.2796, step time: 1.3655
Batch 193/248, train_loss: 0.2768, step time: 1.3804
Batch 194/248, train_loss: 0.1043, step time: 1.3863
Batch 195/248, train_loss: 0.7147, step time: 1.3866
Batch 196/248, train_loss: 0.9980, step time: 1.3774
Batch 197/248, train_loss: 0.2903, step time: 1.4119
Batch 198/248, train_loss: 0.9936, step time: 1.3806
Batch 199/248, train_loss: 0.1913, step time: 1.3648
Batch 200/248, train_loss: 0.1565, step time: 1.3873
Batch 201/248, train_loss: 0.1405, step time: 1.3732
Batch 202/248, train_loss: 0.5020, step time: 1.3669
Batch 203/248, train_loss: 0.4891, step time: 1.3809
Batch 204/248, train_loss: 0.1165, step time: 1.3702
Batch 205/248, train_loss: 0.3073, step time: 1.3615
Batch 206/248, train_loss: 0.7715, step time: 1.3720
Batch 207/248, train_loss: 0.1362, step time: 1.3882
Batch 208/248, train_loss: 0.1656, step time: 1.3680
Batch 209/248, train_loss: 0.1503, step time: 1.3694
Batch 210/248, train_loss: 0.0721, step time: 1.3869
Batch 211/248, train_loss: 0.0925, step time: 1.3684
Batch 212/248, train_loss: 0.2520, step time: 1.3706
Batch 213/248, train_loss: 0.2357, step time: 1.3676
Batch 214/248, train_loss: 0.0978, step time: 1.3700
Batch 215/248, train_loss: 0.3915, step time: 1.3731
Batch 216/248, train_loss: 0.2574, step time: 1.3777
Batch 217/248, train_loss: 0.3720, step time: 1.3802
Batch 218/248, train_loss: 0.8468, step time: 1.3759
Batch 219/248, train_loss: 0.0862, step time: 1.3996
Batch 220/248, train_loss: 0.2321, step time: 1.3951
Batch 221/248, train_loss: 0.2858, step time: 1.3712
Batch 222/248, train_loss: 0.2896, step time: 1.4090
Batch 223/248, train_loss: 0.0607, step time: 1.3704
Batch 224/248, train_loss: 0.1118, step time: 1.3893
Batch 225/248, train_loss: 0.6209, step time: 1.3988
Batch 226/248, train_loss: 0.2040, step time: 1.3699
Batch 227/248, train_loss: 0.1241, step time: 1.3822
Batch 228/248, train_loss: 0.3374, step time: 1.3648
Batch 229/248, train_loss: 0.1370, step time: 1.3711
Batch 230/248, train_loss: 0.0900, step time: 1.3733
Batch 231/248, train_loss: 0.9470, step time: 1.3889
Batch 232/248, train_loss: 0.0821, step time: 1.3660
Batch 233/248, train_loss: 0.9972, step time: 1.3662
Batch 234/248, train_loss: 0.4454, step time: 1.3850
Batch 235/248, train_loss: 0.3562, step time: 1.4018
Batch 236/248, train_loss: 0.7884, step time: 1.3634
Batch 237/248, train_loss: 0.1511, step time: 1.3728
Batch 238/248, train_loss: 0.1052, step time: 1.3933
Batch 239/248, train_loss: 0.1288, step time: 1.3855
Batch 240/248, train_loss: 0.5754, step time: 1.3831
Batch 241/248, train_loss: 0.9909, step time: 1.3655

```
Batch 242/248, train_loss: 0.2041, step time: 1.3841
Batch 243/248, train_loss: 0.5976, step time: 1.3624
Batch 244/248, train_loss: 0.5002, step time: 1.3775
Batch 245/248, train_loss: 0.1050, step time: 1.3598
Batch 246/248, train_loss: 0.6919, step time: 1.3841
Batch 247/248, train_loss: 0.1076, step time: 1.3943
Batch 248/248, train_loss: 0.9998, step time: 1.3697
```



VAL

```
Batch 1/31, val_loss: 0.8442
Batch 2/31, val_loss: 0.9997
Batch 3/31, val_loss: 0.9771
Batch 4/31, val_loss: 0.9545
Batch 5/31, val_loss: 0.9961
Batch 6/31, val_loss: 0.7707
Batch 7/31, val_loss: 0.8943
Batch 8/31, val_loss: 0.9644
Batch 9/31, val_loss: 0.7122
Batch 10/31, val_loss: 0.9225
Batch 11/31, val_loss: 0.8256
Batch 12/31, val_loss: 0.9730
Batch 13/31, val_loss: 0.9921
Batch 14/31, val_loss: 0.9514
Batch 15/31, val_loss: 0.9864
Batch 16/31, val_loss: 0.9737
Batch 17/31, val_loss: 0.9733
Batch 18/31, val_loss: 0.9482
Batch 19/31, val_loss: 0.7629
Batch 20/31, val_loss: 0.9117
Batch 21/31, val_loss: 0.9041
Batch 22/31, val_loss: 0.9782
Batch 23/31, val_loss: 0.9779
Batch 24/31, val_loss: 0.7526
Batch 25/31, val_loss: 0.8121
Batch 26/31, val_loss: 0.9263
Batch 27/31, val_loss: 0.9844
Batch 28/31, val_loss: 0.7580
Batch 29/31, val_loss: 0.9831
Batch 30/31, val_loss: 0.9688
Batch 31/31, val_loss: 0.9734
```

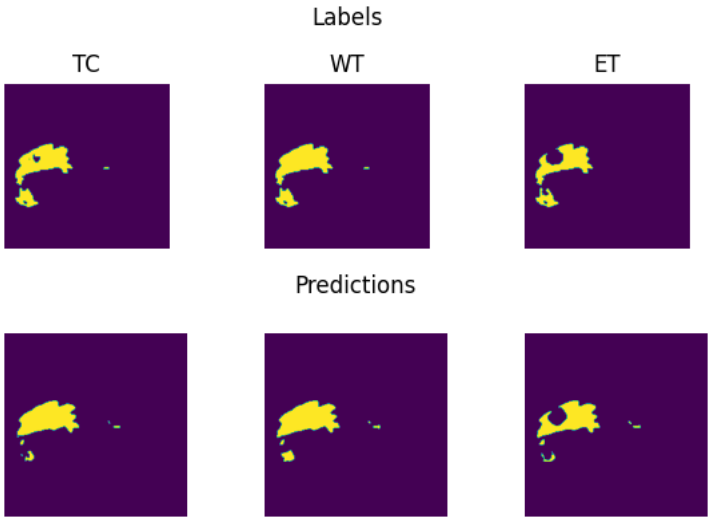


```
epoch 27
   average train loss: 0.3524
   average validation loss: 0.9146
   saved as best model: True
   current mean dice: 0.5420
   current TC dice: 0.5743
   current WT dice: 0.5850
   current ET dice: 0.5098
Best Mean Metric: 0.5420
time consuming of epoch 27 is: 1743.2622
----------
epoch 28/100
TRAIN
   Batch 1/248, train_loss: 0.1104, step time: 1.4613
   Batch 2/248, train_loss: 0.7958, step time: 1.3724
   Batch 3/248, train_loss: 0.3985, step time: 1.3593
   Batch 4/248, train_loss: 0.9979, step time: 1.3720
   Batch 5/248, train_loss: 0.2655, step time: 1.3597
   Batch 6/248, train_loss: 0.9816, step time: 1.4017
   Batch 7/248, train_loss: 0.0941, step time: 1.3663
   Batch 8/248, train_loss: 0.6504, step time: 1.3963
   Batch 9/248, train_loss: 0.0582, step time: 1.3731
   Batch 10/248, train_loss: 0.2753, step time: 1.3603
   Batch 11/248, train_loss: 0.2825, step time: 1.3747
   Batch 12/248, train_loss: 0.4817, step time: 1.3898
   Batch 13/248, train_loss: 0.4757, step time: 1.3792
   Batch 14/248, train_loss: 0.0591, step time: 1.3862
   Batch 15/248, train_loss: 0.3175, step time: 1.3835
   Batch 16/248, train_loss: 0.1946, step time: 1.3590
   Batch 17/248, train_loss: 0.3677, step time: 1.3733
   Batch 18/248, train_loss: 0.4357, step time: 1.3770
   Batch 19/248, train_loss: 0.1268, step time: 1.3953
   Batch 20/248, train_loss: 0.2205, step time: 1.3642
   Batch 21/248, train_loss: 0.0674, step time: 1.3653
   Batch 22/248, train_loss: 0.9918, step time: 1.3838
   Batch 23/248, train_loss: 0.9792, step time: 1.3792
   Batch 24/248, train_loss: 0.1554, step time: 1.4059
   Batch 25/248, train_loss: 0.1583, step time: 1.4099
   Batch 26/248, train_loss: 0.5620, step time: 1.3813
   Batch 27/248, train_loss: 0.0674, step time: 1.3748
   Batch 28/248, train_loss: 0.1788, step time: 1.3997
   Batch 29/248, train_loss: 0.5298, step time: 1.4120
   Batch 30/248, train_loss: 0.2516, step time: 1.3728
   Batch 31/248, train_loss: 0.3434, step time: 1.3977
   Batch 32/248, train_loss: 0.0873, step time: 1.3881
   Batch 33/248, train_loss: 0.0983, step time: 1.3535
   Batch 34/248, train_loss: 0.0555, step time: 1.3824
   Batch 35/248, train_loss: 0.0743, step time: 1.3863
   Batch 36/248, train_loss: 0.9725, step time: 1.3627
   Batch 37/248, train_loss: 0.2104, step time: 1.3967
   Batch 38/248, train_loss: 0.3040, step time: 1.3708
   Batch 39/248, train_loss: 0.2193, step time: 1.4026
   Batch 40/248, train_loss: 0.9694, step time: 1.3642
   Batch 41/248, train_loss: 0.2498, step time: 1.3949
   Batch 42/248, train_loss: 0.0860, step time: 1.3621
   Batch 43/248, train_loss: 0.0822, step time: 1.4017
   Batch 44/248, train_loss: 0.1743, step time: 1.3701
   Batch 45/248, train_loss: 0.6415, step time: 1.3799
   Batch 46/248, train_loss: 0.1795, step time: 1.3623
   Batch 47/248, train_loss: 0.0917, step time: 1.3918
   Batch 48/248, train_loss: 0.2512, step time: 1.3816
   Batch 49/248, train_loss: 0.4522, step time: 1.3930
   Batch 50/248, train_loss: 0.1568, step time: 1.3839
   Batch 51/248, train_loss: 0.1586, step time: 1.3721
   Batch 52/248, train_loss: 0.1580, step time: 1.3742
   Batch 53/248, train_loss: 0.4787, step time: 1.3800
   Batch 54/248, train_loss: 0.2463, step time: 1.3808
   Batch 55/248, train_loss: 0.2680, step time: 1.4032
   Batch 56/248, train_loss: 0.1987, step time: 1.4121
   Batch 57/248, train_loss: 0.3234, step time: 1.3845
   Batch 58/248, train_loss: 0.0858, step time: 1.3816
   Batch 59/248, train_loss: 0.0972, step time: 1.3931
   Batch 60/248, train_loss: 0.0775, step time: 1.3862
   Batch 61/248, train_loss: 0.0985, step time: 1.3686
   Batch 62/248, train_loss: 0.3604, step time: 1.3786
   Batch 63/248, train_loss: 0.4791, step time: 1.3886
   Batch 64/248, train_loss: 0.4810, step time: 1.3928
   Batch 65/248, train_loss: 0.3961, step time: 1.3774
   Batch 66/248, train_loss: 0.1879, step time: 1.3740
   Batch 67/248, train_loss: 0.0833, step time: 1.3801
   Batch 68/248, train_loss: 0.1124, step time: 1.3830
   Batch 69/248, train_loss: 0.8210, step time: 1.4040
   Batch 70/248, train_loss: 0.1508, step time: 1.3934
   Batch 71/248, train_loss: 0.1988, step time: 1.4085
   Batch 72/248, train_loss: 0.0672, step time: 1.3619
```

Batch 72/248, train_loss: 0.6072, step time: 1.3819
Batch 73/248, train_loss: 0.1388, step time: 1.3791
Batch 74/248, train_loss: 0.9983, step time: 1.3859
Batch 75/248, train_loss: 0.1235, step time: 1.3789
Batch 76/248, train_loss: 0.6991, step time: 1.3939
Batch 77/248, train_loss: 0.9858, step time: 1.4017
Batch 78/248, train_loss: 0.1355, step time: 1.3980
Batch 79/248, train_loss: 0.1319, step time: 1.3902
Batch 80/248, train_loss: 0.2162, step time: 1.3930
Batch 81/248, train_loss: 0.1533, step time: 1.3909
Batch 82/248, train_loss: 0.1035, step time: 1.3677
Batch 83/248, train_loss: 0.5885, step time: 1.3963
Batch 84/248, train_loss: 0.2943, step time: 1.4027
Batch 85/248, train_loss: 0.6163, step time: 1.3734
Batch 86/248, train_loss: 0.2764, step time: 1.3569
Batch 87/248, train_loss: 0.9284, step time: 1.3815
Batch 88/248, train_loss: 0.5104, step time: 1.3902
Batch 89/248, train_loss: 0.0957, step time: 1.4004
Batch 90/248, train_loss: 0.2962, step time: 1.3868
Batch 91/248, train_loss: 0.4019, step time: 1.3805
Batch 92/248, train_loss: 0.9394, step time: 1.4042
Batch 93/248, train_loss: 0.1657, step time: 1.3628
Batch 94/248, train_loss: 0.3327, step time: 1.4138
Batch 95/248, train_loss: 0.1874, step time: 1.3939
Batch 96/248, train_loss: 0.1860, step time: 1.3978
Batch 97/248, train_loss: 0.9403, step time: 1.4059
Batch 98/248, train_loss: 0.1122, step time: 1.3595
Batch 99/248, train_loss: 0.4274, step time: 1.4084
Batch 100/248, train_loss: 0.3571, step time: 1.3705
Batch 101/248, train_loss: 0.0618, step time: 1.3788
Batch 102/248, train_loss: 0.1657, step time: 1.3509
Batch 103/248, train_loss: 0.4296, step time: 1.3587
Batch 104/248, train_loss: 0.3205, step time: 1.3924
Batch 105/248, train_loss: 0.0930, step time: 1.3609
Batch 106/248, train_loss: 0.1485, step time: 1.3636
Batch 107/248, train_loss: 0.8207, step time: 1.3980
Batch 108/248, train_loss: 0.6398, step time: 1.3813
Batch 109/248, train_loss: 0.9553, step time: 1.3762
Batch 110/248, train_loss: 0.8393, step time: 1.3852
Batch 111/248, train_loss: 0.1109, step time: 1.3890
Batch 112/248, train_loss: 0.1282, step time: 1.3891
Batch 113/248, train_loss: 0.9285, step time: 1.3609
Batch 114/248, train_loss: 0.1282, step time: 1.3859
Batch 115/248, train_loss: 0.1454, step time: 1.3702
Batch 116/248, train_loss: 0.0748, step time: 1.3521
Batch 117/248, train_loss: 0.9137, step time: 1.3626
Batch 118/248, train_loss: 0.4077, step time: 1.3665
Batch 119/248, train_loss: 0.3107, step time: 1.3693
Batch 120/248, train_loss: 0.2943, step time: 1.3798
Batch 121/248, train_loss: 0.3026, step time: 1.4106
Batch 122/248, train_loss: 0.4834, step time: 1.3899
Batch 123/248, train_loss: 0.0669, step time: 1.3712
Batch 124/248, train_loss: 0.3653, step time: 1.3871
Batch 125/248, train_loss: 0.6295, step time: 1.3881
Batch 126/248, train_loss: 0.2562, step time: 1.3725
Batch 127/248, train_loss: 0.1188, step time: 1.3941
Batch 128/248, train_loss: 0.1687, step time: 1.3643
Batch 129/248, train_loss: 0.1192, step time: 1.3880
Batch 130/248, train_loss: 0.1305, step time: 1.3892
Batch 131/248, train_loss: 0.6610, step time: 1.3753
Batch 132/248, train_loss: 0.2978, step time: 1.4036
Batch 133/248, train_loss: 0.2793, step time: 1.3886
Batch 134/248, train_loss: 0.9546, step time: 1.3677
Batch 135/248, train_loss: 0.2634, step time: 1.3972
Batch 136/248, train_loss: 0.1395, step time: 1.3829
Batch 137/248, train_loss: 0.1438, step time: 1.3739
Batch 138/248, train_loss: 0.0678, step time: 1.3785
Batch 139/248, train_loss: 0.2322, step time: 1.4033
Batch 140/248, train_loss: 0.1816, step time: 1.3707
Batch 141/248, train_loss: 0.2502, step time: 1.3902
Batch 142/248, train_loss: 0.7708, step time: 1.3805
Batch 143/248, train_loss: 0.2945, step time: 1.3829
Batch 144/248, train_loss: 0.1507, step time: 1.3849
Batch 145/248, train_loss: 0.2846, step time: 1.3661
Batch 146/248, train_loss: 0.4070, step time: 1.3684
Batch 147/248, train_loss: 0.0533, step time: 1.3517
Batch 148/248, train_loss: 0.9407, step time: 1.3847
Batch 149/248, train_loss: 0.1780, step time: 1.3865
Batch 150/248, train_loss: 0.6275, step time: 1.3693
Batch 151/248, train_loss: 0.6601, step time: 1.3712
Batch 152/248, train_loss: 0.0660, step time: 1.3789
Batch 153/248, train_loss: 0.4948, step time: 1.3998
Batch 154/248, train_loss: 0.7536, step time: 1.4080
Batch 155/248, train_loss: 0.1437, step time: 1.3932
Batch 156/248, train_loss: 0.2261, step time: 1.3875

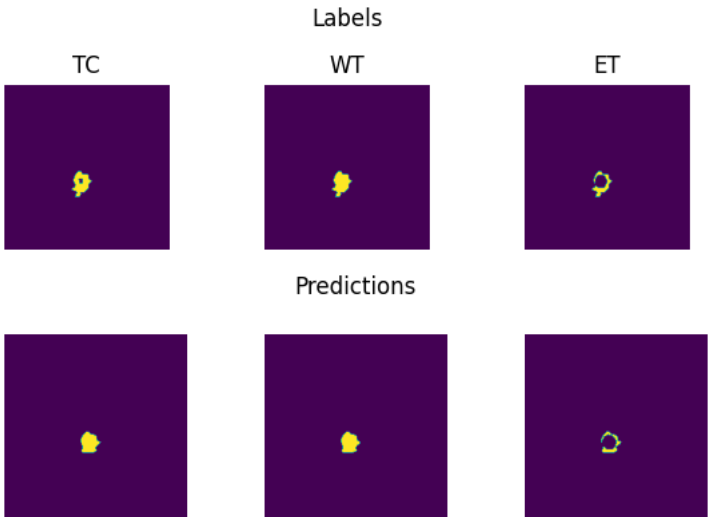
```
Batch 157/248, train_loss: 0.3347, step time: 1.3868
Batch 158/248, train_loss: 0.9867, step time: 1.3764
Batch 159/248, train_loss: 0.7254, step time: 1.3725
Batch 160/248, train_loss: 0.1198, step time: 1.3882
Batch 161/248, train_loss: 0.0906, step time: 1.3809
Batch 162/248, train_loss: 0.2593, step time: 1.3752
Batch 163/248, train_loss: 0.1754, step time: 1.3933
Batch 164/248, train_loss: 0.3228, step time: 1.3844
Batch 165/248, train_loss: 0.9220, step time: 1.3707
Batch 166/248, train_loss: 0.0887, step time: 1.3813
Batch 167/248, train_loss: 0.2274, step time: 1.3678
Batch 168/248, train_loss: 0.2658, step time: 1.4025
Batch 169/248, train_loss: 0.1120, step time: 1.3845
Batch 170/248, train_loss: 0.6005, step time: 1.3851
Batch 171/248, train_loss: 0.1266, step time: 1.3656
Batch 172/248, train_loss: 0.8280, step time: 1.3702
Batch 173/248, train_loss: 0.1509, step time: 1.3744
Batch 174/248, train_loss: 0.6106, step time: 1.3809
Batch 175/248, train_loss: 0.1689, step time: 1.3663
Batch 176/248, train_loss: 0.4497, step time: 1.3894
Batch 177/248, train_loss: 0.4451, step time: 1.4079
Batch 178/248, train_loss: 0.3212, step time: 1.3747
Batch 179/248, train_loss: 0.1345, step time: 1.3634
Batch 180/248, train_loss: 0.4423, step time: 1.3637
Batch 181/248, train_loss: 0.1096, step time: 1.3635
Batch 182/248, train_loss: 0.9022, step time: 1.3693
Batch 183/248, train_loss: 0.2120, step time: 1.3876
Batch 184/248, train_loss: 0.4374, step time: 1.3896
Batch 185/248, train_loss: 0.1283, step time: 1.3631
Batch 186/248, train_loss: 0.1240, step time: 1.3910
Batch 187/248, train_loss: 0.2282, step time: 1.3606
Batch 188/248, train_loss: 0.2422, step time: 1.3690
Batch 189/248, train_loss: 0.6284, step time: 1.3705
Batch 190/248, train_loss: 0.1792, step time: 1.3744
Batch 191/248, train_loss: 0.7045, step time: 1.4036
Batch 192/248, train_loss: 0.2739, step time: 1.3996
Batch 193/248, train_loss: 0.2812, step time: 1.3758
Batch 194/248, train_loss: 0.1067, step time: 1.3639
Batch 195/248, train_loss: 0.8275, step time: 1.3761
Batch 196/248, train_loss: 0.9874, step time: 1.3680
Batch 197/248, train_loss: 0.1938, step time: 1.3907
Batch 198/248, train_loss: 0.9996, step time: 1.3782
Batch 199/248, train_loss: 0.1814, step time: 1.3963
Batch 200/248, train_loss: 0.1460, step time: 1.3814
Batch 201/248, train_loss: 0.1405, step time: 1.3617
Batch 202/248, train_loss: 0.4767, step time: 1.3776
Batch 203/248, train_loss: 0.5243, step time: 1.3636
Batch 204/248, train_loss: 0.1073, step time: 1.3764
Batch 205/248, train_loss: 0.3615, step time: 1.4010
Batch 206/248, train_loss: 0.6434, step time: 1.3732
Batch 207/248, train_loss: 0.1084, step time: 1.3773
Batch 208/248, train_loss: 0.2566, step time: 1.3954
Batch 209/248, train_loss: 0.1507, step time: 1.4035
Batch 210/248, train_loss: 0.0731, step time: 1.3774
Batch 211/248, train_loss: 0.0990, step time: 1.3854
Batch 212/248, train_loss: 0.3238, step time: 1.3774
Batch 213/248, train_loss: 0.2127, step time: 1.3910
Batch 214/248, train_loss: 0.1047, step time: 1.3823
Batch 215/248, train_loss: 0.4262, step time: 1.3786
Batch 216/248, train_loss: 0.2258, step time: 1.4028
Batch 217/248, train_loss: 0.3253, step time: 1.4054
Batch 218/248, train_loss: 0.8100, step time: 1.3800
Batch 219/248, train_loss: 0.1138, step time: 1.3797
Batch 220/248, train_loss: 0.2540, step time: 1.4082
Batch 221/248, train_loss: 0.2614, step time: 1.3862
Batch 222/248, train_loss: 0.2740, step time: 1.3873
Batch 223/248, train_loss: 0.0630, step time: 1.3720
Batch 224/248, train_loss: 0.1026, step time: 1.3917
Batch 225/248, train_loss: 0.5359, step time: 1.3587
Batch 226/248, train_loss: 0.1313, step time: 1.3844
Batch 227/248, train_loss: 0.1007, step time: 1.3674
Batch 228/248, train_loss: 0.1883, step time: 1.3607
Batch 229/248, train_loss: 0.1815, step time: 1.3739
Batch 230/248, train_loss: 0.1388, step time: 1.3693
Batch 231/248, train_loss: 0.7193, step time: 1.3986
Batch 232/248, train_loss: 0.1111, step time: 1.3753
Batch 233/248, train_loss: 0.9829, step time: 1.3800
Batch 234/248, train_loss: 0.4681, step time: 1.3893
Batch 235/248, train_loss: 0.3955, step time: 1.3962
Batch 236/248, train_loss: 0.8015, step time: 1.3914
Batch 237/248, train_loss: 0.1417, step time: 1.3920
Batch 238/248, train_loss: 0.1133, step time: 1.3908
Batch 239/248, train_loss: 0.2510, step time: 1.4038
Batch 240/248, train_loss: 0.6895, step time: 1.3660
Batch 241/248, train_loss: 0.9235, step time: 1.3757
```

```
Batch 242/248, train_loss: 0.1815, step time: 1.3796
Batch 243/248, train_loss: 0.4356, step time: 1.3817
Batch 244/248, train_loss: 0.4471, step time: 1.3998
Batch 245/248, train_loss: 0.0829, step time: 1.3943
Batch 246/248, train_loss: 0.6814, step time: 1.4039
Batch 247/248, train_loss: 0.1079, step time: 1.3798
Batch 248/248, train_loss: 0.9998, step time: 1.3660
```



VAL

```
Batch 1/31, val_loss: 0.8436
Batch 2/31, val_loss: 0.9986
Batch 3/31, val_loss: 0.9780
Batch 4/31, val_loss: 0.9539
Batch 5/31, val_loss: 0.9945
Batch 6/31, val_loss: 0.7389
Batch 7/31, val_loss: 0.8702
Batch 8/31, val_loss: 0.9657
Batch 9/31, val_loss: 0.7040
Batch 10/31, val_loss: 0.9260
Batch 11/31, val_loss: 0.8211
Batch 12/31, val_loss: 0.9705
Batch 13/31, val_loss: 0.9928
Batch 14/31, val_loss: 0.9484
Batch 15/31, val_loss: 0.9872
Batch 16/31, val_loss: 0.9726
Batch 17/31, val_loss: 0.9694
Batch 18/31, val_loss: 0.9486
Batch 19/31, val_loss: 0.7522
Batch 20/31, val_loss: 0.9042
Batch 21/31, val_loss: 0.9082
Batch 22/31, val_loss: 0.9816
Batch 23/31, val_loss: 0.9733
Batch 24/31, val_loss: 0.7491
Batch 25/31, val_loss: 0.8075
Batch 26/31, val_loss: 0.9248
Batch 27/31, val_loss: 0.9831
Batch 28/31, val_loss: 0.7624
Batch 29/31, val_loss: 0.9824
Batch 30/31, val_loss: 0.9660
Batch 31/31, val_loss: 0.9745
```

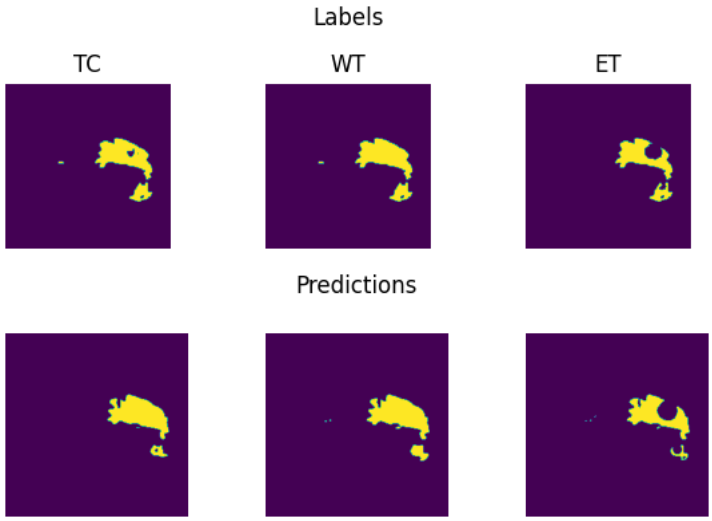


```
epoch 28
   average train loss: 0.3517
   average validation loss: 0.9114
   saved as best model: True
   current mean dice: 0.5476
   current TC dice: 0.5750
   current WT dice: 0.5885
   current ET dice: 0.5226
Best Mean Metric: 0.5476
time consuming of epoch 28 is: 1732.0661
----------
epoch 29/100
TRAIN
   Batch 1/248, train_loss: 0.1174, step time: 1.4568
   Batch 2/248, train_loss: 0.8551, step time: 1.3902
   Batch 3/248, train_loss: 0.4676, step time: 1.3914
   Batch 4/248, train_loss: 0.9951, step time: 1.3834
   Batch 5/248, train_loss: 0.2848, step time: 1.3954
   Batch 6/248, train_loss: 0.4589, step time: 1.3835
   Batch 7/248, train_loss: 0.0813, step time: 1.4012
   Batch 8/248, train_loss: 0.7376, step time: 1.3732
   Batch 9/248, train_loss: 0.0492, step time: 1.3861
   Batch 10/248, train_loss: 0.2916, step time: 1.3922
   Batch 11/248, train_loss: 0.2520, step time: 1.4019
   Batch 12/248, train_loss: 0.4648, step time: 1.3781
   Batch 13/248, train_loss: 0.5488, step time: 1.3970
   Batch 14/248, train_loss: 0.0577, step time: 1.3908
   Batch 15/248, train_loss: 0.3756, step time: 1.3681
   Batch 16/248, train_loss: 0.1983, step time: 1.3775
   Batch 17/248, train_loss: 0.5487, step time: 1.3872
   Batch 18/248, train_loss: 0.3590, step time: 1.3973
   Batch 19/248, train_loss: 0.1078, step time: 1.3627
   Batch 20/248, train_loss: 0.2523, step time: 1.3924
   Batch 21/248, train_loss: 0.0644, step time: 1.3578
   Batch 22/248, train_loss: 0.9972, step time: 1.3635
   Batch 23/248, train_loss: 0.9827, step time: 1.3790
   Batch 24/248, train_loss: 0.1047, step time: 1.3666
   Batch 25/248, train_loss: 0.0797, step time: 1.3760
   Batch 26/248, train_loss: 0.4468, step time: 1.3890
   Batch 27/248, train_loss: 0.0680, step time: 1.3944
   Batch 28/248, train_loss: 0.1880, step time: 1.3963
   Batch 29/248, train_loss: 0.4998, step time: 1.3988
   Batch 30/248, train_loss: 0.3610, step time: 1.3713
   Batch 31/248, train_loss: 0.4551, step time: 1.3816
   Batch 32/248, train_loss: 0.1097, step time: 1.3829
   Batch 33/248, train_loss: 0.1313, step time: 1.3809
   Batch 34/248, train_loss: 0.0666, step time: 1.3905
   Batch 35/248, train_loss: 0.0737, step time: 1.3639
   Batch 36/248, train_loss: 0.9043, step time: 1.3693
   Batch 37/248, train_loss: 0.2155, step time: 1.3631
   Batch 38/248, train_loss: 0.3199, step time: 1.3751
   Batch 39/248, train_loss: 0.2128, step time: 1.3665
   Batch 40/248, train_loss: 0.9928, step time: 1.3933
   Batch 41/248, train_loss: 0.2672, step time: 1.4106
   Batch 42/248, train_loss: 0.0716, step time: 1.3693
   Batch 43/248, train_loss: 0.0599, step time: 1.3598
   Batch 44/248, train_loss: 0.2962, step time: 1.3951
   Batch 45/248, train_loss: 0.7665, step time: 1.4102
   Batch 46/248, train_loss: 0.2115, step time: 1.3971
   Batch 47/248, train_loss: 0.0970, step time: 1.3820
   Batch 48/248, train_loss: 0.2671, step time: 1.3629
   Batch 49/248, train_loss: 0.4450, step time: 1.3677
   Batch 50/248, train_loss: 0.1756, step time: 1.4032
   Batch 51/248, train_loss: 0.2215, step time: 1.3715
   Batch 52/248, train_loss: 0.1617, step time: 1.4054
   Batch 53/248, train_loss: 0.4418, step time: 1.3894
   Batch 54/248, train_loss: 0.2607, step time: 1.3858
   Batch 55/248, train_loss: 0.3201, step time: 1.4024
   Batch 56/248, train_loss: 0.2026, step time: 1.3936
   Batch 57/248, train_loss: 0.2482, step time: 1.3849
   Batch 58/248, train_loss: 0.0913, step time: 1.3663
   Batch 59/248, train_loss: 0.0908, step time: 1.3740
   Batch 60/248, train_loss: 0.0793, step time: 1.3674
   Batch 61/248, train_loss: 0.1016, step time: 1.3720
   Batch 62/248, train_loss: 0.4910, step time: 1.3744
   Batch 63/248, train_loss: 0.5332, step time: 1.3781
   Batch 64/248, train_loss: 0.4826, step time: 1.3797
   Batch 65/248, train_loss: 0.3574, step time: 1.3907
   Batch 66/248, train_loss: 0.1658, step time: 1.3831
   Batch 67/248, train_loss: 0.0994, step time: 1.3875
   Batch 68/248, train_loss: 0.1177, step time: 1.3736
   Batch 69/248, train_loss: 0.8376, step time: 1.3839
   Batch 70/248, train_loss: 0.1432, step time: 1.3790
   Batch 71/248, train_loss: 0.8456, step time: 1.3807
```

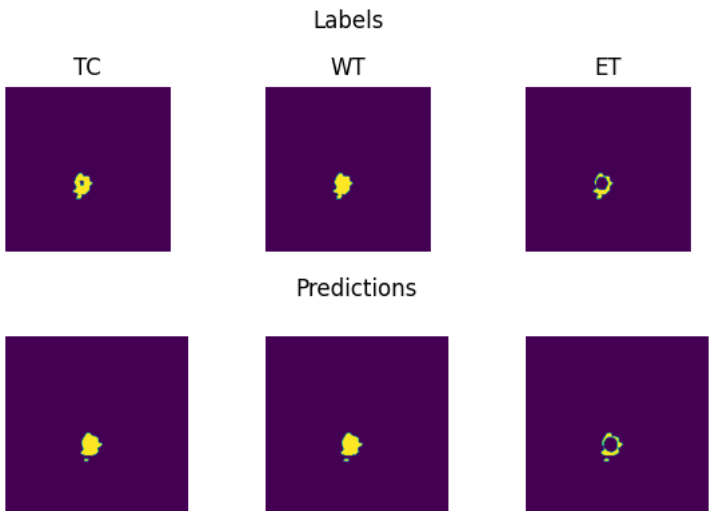
```
Batch 72/248, train_loss: 0.0791, step time: 1.3818
Batch 73/248, train_loss: 0.7041, step time: 1.3708
Batch 74/248, train_loss: 0.9777, step time: 1.3937
Batch 75/248, train_loss: 0.1295, step time: 1.3536
Batch 76/248, train_loss: 0.7192, step time: 1.4013
Batch 77/248, train_loss: 0.8356, step time: 1.3930
Batch 78/248, train_loss: 0.1000, step time: 1.3687
Batch 79/248, train_loss: 0.1525, step time: 1.3897
Batch 80/248, train_loss: 0.2367, step time: 1.3772
Batch 81/248, train_loss: 0.1683, step time: 1.3732
Batch 82/248, train_loss: 0.0944, step time: 1.3656
Batch 83/248, train_loss: 0.5694, step time: 1.3683
Batch 84/248, train_loss: 0.3952, step time: 1.3655
Batch 85/248, train_loss: 0.4728, step time: 1.3714
Batch 86/248, train_loss: 0.3404, step time: 1.3816
Batch 87/248, train_loss: 0.8884, step time: 1.3713
Batch 88/248, train_loss: 0.4778, step time: 1.3941
Batch 89/248, train_loss: 0.1031, step time: 1.3720
Batch 90/248, train_loss: 0.3086, step time: 1.3922
Batch 91/248, train_loss: 0.5020, step time: 1.4058
Batch 92/248, train_loss: 0.8426, step time: 1.3783
Batch 93/248, train_loss: 0.1618, step time: 1.3837
Batch 94/248, train_loss: 0.3827, step time: 1.3927
Batch 95/248, train_loss: 0.2021, step time: 1.3830
Batch 96/248, train_loss: 0.1740, step time: 1.3743
Batch 97/248, train_loss: 0.8262, step time: 1.3729
Batch 98/248, train_loss: 0.1136, step time: 1.3503
Batch 99/248, train_loss: 0.3857, step time: 1.3805
Batch 100/248, train_loss: 0.3485, step time: 1.4003
Batch 101/248, train_loss: 0.0610, step time: 1.3457
Batch 102/248, train_loss: 0.1223, step time: 1.3671
Batch 103/248, train_loss: 0.4180, step time: 1.3795
Batch 104/248, train_loss: 0.4071, step time: 1.3973
Batch 105/248, train_loss: 0.1071, step time: 1.3630
Batch 106/248, train_loss: 0.1673, step time: 1.3746
Batch 107/248, train_loss: 0.4855, step time: 1.3873
Batch 108/248, train_loss: 0.6960, step time: 1.4005
Batch 109/248, train_loss: 0.9717, step time: 1.3790
Batch 110/248, train_loss: 0.8936, step time: 1.3982
Batch 111/248, train_loss: 0.7206, step time: 1.3953
Batch 112/248, train_loss: 0.2650, step time: 1.3841
Batch 113/248, train_loss: 0.9567, step time: 1.3830
Batch 114/248, train_loss: 0.1555, step time: 1.3670
Batch 115/248, train_loss: 0.2800, step time: 1.3764
Batch 116/248, train_loss: 0.0758, step time: 1.3679
Batch 117/248, train_loss: 0.8200, step time: 1.3678
Batch 118/248, train_loss: 0.5759, step time: 1.3912
Batch 119/248, train_loss: 0.3553, step time: 1.3948
Batch 120/248, train_loss: 0.2379, step time: 1.3897
Batch 121/248, train_loss: 0.3267, step time: 1.3880
Batch 122/248, train_loss: 0.5547, step time: 1.3701
Batch 123/248, train_loss: 0.0990, step time: 1.3674
Batch 124/248, train_loss: 0.3387, step time: 1.3938
Batch 125/248, train_loss: 0.7660, step time: 1.3865
Batch 126/248, train_loss: 0.3622, step time: 1.3850
Batch 127/248, train_loss: 0.1308, step time: 1.3805
Batch 128/248, train_loss: 0.2062, step time: 1.3921
Batch 129/248, train_loss: 0.1139, step time: 1.3907
Batch 130/248, train_loss: 0.1562, step time: 1.3866
Batch 131/248, train_loss: 0.7061, step time: 1.3564
Batch 132/248, train_loss: 0.2612, step time: 1.3790
Batch 133/248, train_loss: 0.1450, step time: 1.3875
Batch 134/248, train_loss: 0.9706, step time: 1.3797
Batch 135/248, train_loss: 0.3087, step time: 1.3876
Batch 136/248, train_loss: 0.1772, step time: 1.3779
Batch 137/248, train_loss: 0.1386, step time: 1.3865
Batch 138/248, train_loss: 0.1112, step time: 1.3737
Batch 139/248, train_loss: 0.2539, step time: 1.3912
Batch 140/248, train_loss: 0.2691, step time: 1.4010
Batch 141/248, train_loss: 0.1985, step time: 1.3974
Batch 142/248, train_loss: 0.7492, step time: 1.3930
Batch 143/248, train_loss: 0.2710, step time: 1.3700
Batch 144/248, train_loss: 0.1232, step time: 1.3736
Batch 145/248, train_loss: 0.0658, step time: 1.3874
Batch 146/248, train_loss: 0.5176, step time: 1.3701
Batch 147/248, train_loss: 0.0712, step time: 1.3944
Batch 148/248, train_loss: 0.7037, step time: 1.3907
Batch 149/248, train_loss: 0.1277, step time: 1.3618
Batch 150/248, train_loss: 0.6961, step time: 1.3635
Batch 151/248, train_loss: 0.6405, step time: 1.3875
Batch 152/248, train_loss: 0.0560, step time: 1.3600
Batch 153/248, train_loss: 0.2700, step time: 1.3704
Batch 154/248, train_loss: 0.5896, step time: 1.3982
Batch 155/248, train_loss: 0.0900, step time: 1.3628
Batch 156/248, train_loss: 0.2027, step time: 1.3961
```

```
Batch 157/248, train_loss: 0.3629, step time: 1.3632
Batch 158/248, train_loss: 0.9958, step time: 1.3827
Batch 159/248, train_loss: 0.5110, step time: 1.4030
Batch 160/248, train_loss: 0.1135, step time: 1.3845
Batch 161/248, train_loss: 0.0643, step time: 1.3875
Batch 162/248, train_loss: 0.0916, step time: 1.3866
Batch 163/248, train_loss: 0.1662, step time: 1.3892
Batch 164/248, train_loss: 0.3318, step time: 1.3938
Batch 165/248, train_loss: 0.8699, step time: 1.3831
Batch 166/248, train_loss: 0.1437, step time: 1.3589
Batch 167/248, train_loss: 0.2156, step time: 1.3768
Batch 168/248, train_loss: 0.2506, step time: 1.3731
Batch 169/248, train_loss: 0.0983, step time: 1.3931
Batch 170/248, train_loss: 0.6635, step time: 1.3736
Batch 171/248, train_loss: 0.1165, step time: 1.3549
Batch 172/248, train_loss: 0.7070, step time: 1.3815
Batch 173/248, train_loss: 0.1247, step time: 1.3944
Batch 174/248, train_loss: 0.8413, step time: 1.3599
Batch 175/248, train_loss: 0.3070, step time: 1.3828
Batch 176/248, train_loss: 0.4355, step time: 1.3661
Batch 177/248, train_loss: 0.5362, step time: 1.3747
Batch 178/248, train_loss: 0.6982, step time: 1.4025
Batch 179/248, train_loss: 0.0735, step time: 1.3615
Batch 180/248, train_loss: 0.4562, step time: 1.3952
Batch 181/248, train_loss: 0.0981, step time: 1.3638
Batch 182/248, train_loss: 0.6429, step time: 1.3704
Batch 183/248, train_loss: 0.1468, step time: 1.3751
Batch 184/248, train_loss: 0.3107, step time: 1.3663
Batch 185/248, train_loss: 0.0985, step time: 1.3938
Batch 186/248, train_loss: 0.1036, step time: 1.3870
Batch 187/248, train_loss: 0.1790, step time: 1.3701
Batch 188/248, train_loss: 0.3564, step time: 1.4121
Batch 189/248, train_loss: 0.8413, step time: 1.3786
Batch 190/248, train_loss: 0.2123, step time: 1.3821
Batch 191/248, train_loss: 0.7558, step time: 1.3820
Batch 192/248, train_loss: 0.2608, step time: 1.3655
Batch 193/248, train_loss: 0.2873, step time: 1.3671
Batch 194/248, train_loss: 0.1245, step time: 1.3906
Batch 195/248, train_loss: 0.6417, step time: 1.3983
Batch 196/248, train_loss: 0.9986, step time: 1.3923
Batch 197/248, train_loss: 0.2159, step time: 1.3731
Batch 198/248, train_loss: 0.9969, step time: 1.3506
Batch 199/248, train_loss: 0.1895, step time: 1.3709
Batch 200/248, train_loss: 0.1534, step time: 1.3613
Batch 201/248, train_loss: 0.1372, step time: 1.3857
Batch 202/248, train_loss: 0.4898, step time: 1.3740
Batch 203/248, train_loss: 0.6560, step time: 1.3647
Batch 204/248, train_loss: 0.0937, step time: 1.3618
Batch 205/248, train_loss: 0.3938, step time: 1.3865
Batch 206/248, train_loss: 0.7611, step time: 1.3756
Batch 207/248, train_loss: 0.1154, step time: 1.3718
Batch 208/248, train_loss: 0.1522, step time: 1.3611
Batch 209/248, train_loss: 0.1483, step time: 1.3959
Batch 210/248, train_loss: 0.0678, step time: 1.3720
Batch 211/248, train_loss: 0.0869, step time: 1.3988
Batch 212/248, train_loss: 0.2820, step time: 1.3872
Batch 213/248, train_loss: 0.2001, step time: 1.3548
Batch 214/248, train_loss: 0.0968, step time: 1.3800
Batch 215/248, train_loss: 0.3791, step time: 1.3970
Batch 216/248, train_loss: 0.1962, step time: 1.3690
Batch 217/248, train_loss: 0.2925, step time: 1.3970
Batch 218/248, train_loss: 0.9150, step time: 1.4019
Batch 219/248, train_loss: 0.0875, step time: 1.3692
Batch 220/248, train_loss: 0.2754, step time: 1.3995
Batch 221/248, train_loss: 0.2495, step time: 1.3811
Batch 222/248, train_loss: 0.2050, step time: 1.3664
Batch 223/248, train_loss: 0.0576, step time: 1.3736
Batch 224/248, train_loss: 0.1217, step time: 1.3878
Batch 225/248, train_loss: 0.3680, step time: 1.3615
Batch 226/248, train_loss: 0.1656, step time: 1.3873
Batch 227/248, train_loss: 0.1048, step time: 1.3680
Batch 228/248, train_loss: 0.2458, step time: 1.3675
Batch 229/248, train_loss: 0.1076, step time: 1.3639
Batch 230/248, train_loss: 0.0784, step time: 1.3717
Batch 231/248, train_loss: 0.9782, step time: 1.3799
Batch 232/248, train_loss: 0.0741, step time: 1.3901
Batch 233/248, train_loss: 0.9934, step time: 1.3795
Batch 234/248, train_loss: 0.5524, step time: 1.4111
Batch 235/248, train_loss: 0.2652, step time: 1.4049
Batch 236/248, train_loss: 0.7615, step time: 1.3896
Batch 237/248, train_loss: 0.1348, step time: 1.3561
Batch 238/248, train_loss: 0.1070, step time: 1.3847
Batch 239/248, train_loss: 0.0656, step time: 1.3546
Batch 240/248, train_loss: 0.3772, step time: 1.3516
Batch 241/248, train_loss: 0.9878, step time: 1.3676
```

```
Batch 242/248, train_loss: 0.2167, step time: 1.3937
Batch 243/248, train_loss: 0.4566, step time: 1.3637
Batch 244/248, train_loss: 0.4807, step time: 1.3584
Batch 245/248, train_loss: 0.0817, step time: 1.3478
Batch 246/248, train_loss: 0.6370, step time: 1.3821
Batch 247/248, train_loss: 0.1201, step time: 1.3882
Batch 248/248, train_loss: 0.9998, step time: 1.3778
```




```
VAL
   Batch 1/31, val_loss: 0.8384
   Batch 2/31, val_loss: 0.9944
   Batch 3/31, val_loss: 0.9749
   Batch 4/31, val_loss: 0.9490
   Batch 5/31, val_loss: 0.9960
   Batch 6/31, val_loss: 0.7016
   Batch 7/31, val_loss: 0.8445
   Batch 8/31, val_loss: 0.9668
   Batch 9/31, val_loss: 0.7011
   Batch 10/31, val_loss: 0.9166
   Batch 11/31, val_loss: 0.8190
   Batch 12/31, val_loss: 0.9751
   Batch 13/31, val_loss: 0.9868
   Batch 14/31, val_loss: 0.9666
   Batch 15/31, val_loss: 0.9870
   Batch 16/31, val_loss: 0.9714
   Batch 17/31, val_loss: 0.9804
   Batch 18/31, val_loss: 0.9396
   Batch 19/31, val_loss: 0.7586
   Batch 20/31, val_loss: 0.8675
   Batch 21/31, val_loss: 0.8867
   Batch 22/31, val_loss: 0.9794
   Batch 23/31, val_loss: 0.9788
   Batch 24/31, val_loss: 0.7511
   Batch 25/31, val_loss: 0.8071
   Batch 26/31, val_loss: 0.9260
   Batch 27/31, val_loss: 0.9802
   Batch 28/31, val_loss: 0.7459
   Batch 29/31, val_loss: 0.9831
   Batch 30/31, val_loss: 0.9603
   Batch 31/31, val_loss: 0.9763
```



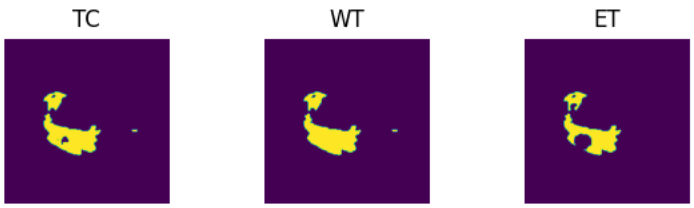
```
epoch 29
   average train loss: 0.3571
   average validation loss: 0.9068
   saved as best model: False
   current mean dice: 0.5458
   current TC dice: 0.5695
   current WT dice: 0.5801
   current ET dice: 0.5340
Best Mean Metric: 0.5476
time consuming of epoch 29 is: 1722.6808
----------
epoch 30/100
TRAIN
   Batch 1/248, train_loss: 0.1996, step time: 1.4294
   Batch 2/248, train_loss: 0.8191, step time: 1.3793
   Batch 3/248, train_loss: 0.4848, step time: 1.3689
   Batch 4/248, train_loss: 0.9869, step time: 1.3866
   Batch 5/248, train_loss: 0.2540, step time: 1.3697
   Batch 6/248, train_loss: 0.5928, step time: 1.3930
   Batch 7/248, train_loss: 0.0688, step time: 1.3907
   Batch 8/248, train_loss: 0.7336, step time: 1.3675
   Batch 9/248, train_loss: 0.1134, step time: 1.3761
   Batch 10/248, train_loss: 0.2464, step time: 1.3636
   Batch 11/248, train_loss: 0.6422, step time: 1.4084
   Batch 12/248, train_loss: 0.4560, step time: 1.4104
   Batch 13/248, train_loss: 0.3459, step time: 1.3962
   Batch 14/248, train_loss: 0.0526, step time: 1.3809
   Batch 15/248, train_loss: 0.3272, step time: 1.3646
   Batch 16/248, train_loss: 0.2109, step time: 1.3622
   Batch 17/248, train_loss: 0.4072, step time: 1.4102
   Batch 18/248, train_loss: 0.4297, step time: 1.3907
   Batch 19/248, train_loss: 0.1179, step time: 1.3812
   Batch 20/248, train_loss: 0.1691, step time: 1.3894
   Batch 21/248, train_loss: 0.0814, step time: 1.3921
   Batch 22/248, train_loss: 0.9961, step time: 1.3822
   Batch 23/248, train_loss: 0.9507, step time: 1.3749
   Batch 24/248, train_loss: 0.0986, step time: 1.3752
   Batch 25/248, train_loss: 0.0744, step time: 1.4032
   Batch 26/248, train_loss: 0.3981, step time: 1.3884
   Batch 27/248, train_loss: 0.0649, step time: 1.3588
   Batch 28/248, train_loss: 0.1662, step time: 1.3699
   Batch 29/248, train_loss: 0.4776, step time: 1.4045
   Batch 30/248, train_loss: 0.2681, step time: 1.3750
   Batch 31/248, train_loss: 0.3764, step time: 1.3840
   Batch 32/248, train_loss: 0.0928, step time: 1.3595
   Batch 33/248, train_loss: 0.0889, step time: 1.3616
   Batch 34/248, train_loss: 0.0487, step time: 1.3595
   Batch 35/248, train_loss: 0.0688, step time: 1.3503
   Batch 36/248, train_loss: 0.6412, step time: 1.3624
   Batch 37/248, train_loss: 0.1827, step time: 1.3705
   Batch 38/248, train_loss: 0.3102, step time: 1.4003
   Batch 39/248, train_loss: 0.1930, step time: 1.3783
   Batch 40/248, train_loss: 0.9168, step time: 1.3961
   Batch 41/248, train_loss: 0.2729, step time: 1.3690
   Batch 42/248, train_loss: 0.0706, step time: 1.3897
   Batch 43/248, train_loss: 0.0578, step time: 1.3655
   Batch 44/248, train_loss: 0.1816, step time: 1.3806
   Batch 45/248, train_loss: 0.7977, step time: 1.3856
   Batch 46/248, train_loss: 0.1898, step time: 1.3775
   Batch 47/248, train_loss: 0.0889, step time: 1.3668
   Batch 48/248, train_loss: 0.2373, step time: 1.3905
   Batch 49/248, train_loss: 0.4242, step time: 1.3802
   Batch 50/248, train_loss: 0.1679, step time: 1.3673
   Batch 51/248, train_loss: 0.1712, step time: 1.3988
   Batch 52/248, train_loss: 0.1786, step time: 1.3711
   Batch 53/248, train_loss: 0.3991, step time: 1.3911
   Batch 54/248, train_loss: 0.2529, step time: 1.4011
   Batch 55/248, train_loss: 0.2623, step time: 1.3822
   Batch 56/248, train_loss: 0.2061, step time: 1.3961
   Batch 57/248, train_loss: 0.3404, step time: 1.3861
   Batch 58/248, train_loss: 0.0843, step time: 1.3872
   Batch 59/248, train_loss: 0.1242, step time: 1.3932
   Batch 60/248, train_loss: 0.0874, step time: 1.3604
   Batch 61/248, train_loss: 0.1734, step time: 1.3919
   Batch 62/248, train_loss: 0.2354, step time: 1.3534
   Batch 63/248, train_loss: 0.4330, step time: 1.3762
   Batch 64/248, train_loss: 0.4947, step time: 1.3769
   Batch 65/248, train_loss: 0.3221, step time: 1.3941
   Batch 66/248, train_loss: 0.1386, step time: 1.3784
   Batch 67/248, train_loss: 0.0853, step time: 1.3945
   Batch 68/248, train_loss: 0.1407, step time: 1.3974
   Batch 69/248, train_loss: 0.7394, step time: 1.3889
   Batch 70/248, train_loss: 0.1738, step time: 1.3978
   Batch 71/248, train_loss: 0.1701, step time: 1.3828
```

```
Batch 72/248, train_loss: 0.0828, step time: 1.3486
Batch 73/248, train_loss: 0.3395, step time: 1.3593
Batch 74/248, train_loss: 0.9974, step time: 1.3736
Batch 75/248, train_loss: 0.1359, step time: 1.3975
Batch 76/248, train_loss: 0.7270, step time: 1.4029
Batch 77/248, train_loss: 0.8362, step time: 1.3929
Batch 78/248, train_loss: 0.1971, step time: 1.3788
Batch 79/248, train_loss: 0.1491, step time: 1.3748
Batch 80/248, train_loss: 0.2687, step time: 1.3723
Batch 81/248, train_loss: 0.1366, step time: 1.4026
Batch 82/248, train_loss: 0.1181, step time: 1.3694
Batch 83/248, train_loss: 0.5728, step time: 1.4105
Batch 84/248, train_loss: 0.2514, step time: 1.3973
Batch 85/248, train_loss: 0.5311, step time: 1.3623
Batch 86/248, train_loss: 0.4979, step time: 1.3939
Batch 87/248, train_loss: 0.8512, step time: 1.3846
Batch 88/248, train_loss: 0.4176, step time: 1.3917
Batch 89/248, train_loss: 0.0987, step time: 1.3614
Batch 90/248, train_loss: 0.8258, step time: 1.3762
Batch 91/248, train_loss: 0.3980, step time: 1.3767
Batch 92/248, train_loss: 0.9299, step time: 1.4057
Batch 93/248, train_loss: 0.1680, step time: 1.3981
Batch 94/248, train_loss: 0.3206, step time: 1.3696
Batch 95/248, train_loss: 0.1875, step time: 1.3722
Batch 96/248, train_loss: 0.1676, step time: 1.3625
Batch 97/248, train_loss: 0.9902, step time: 1.3817
Batch 98/248, train_loss: 0.1171, step time: 1.3594
Batch 99/248, train_loss: 0.4478, step time: 1.3647
Batch 100/248, train_loss: 0.3829, step time: 1.3724
Batch 101/248, train_loss: 0.0509, step time: 1.3736
Batch 102/248, train_loss: 0.1302, step time: 1.3481
Batch 103/248, train_loss: 0.4075, step time: 1.3873
Batch 104/248, train_loss: 0.3677, step time: 1.3549
Batch 105/248, train_loss: 0.0824, step time: 1.3736
Batch 106/248, train_loss: 0.1805, step time: 1.3699
Batch 107/248, train_loss: 0.2506, step time: 1.3727
Batch 108/248, train_loss: 0.6107, step time: 1.4044
Batch 109/248, train_loss: 0.9694, step time: 1.3662
Batch 110/248, train_loss: 0.9571, step time: 1.4105
Batch 111/248, train_loss: 0.0949, step time: 1.3898
Batch 112/248, train_loss: 0.1017, step time: 1.3747
Batch 113/248, train_loss: 0.7581, step time: 1.3925
Batch 114/248, train_loss: 0.1706, step time: 1.3899
Batch 115/248, train_loss: 0.1859, step time: 1.3722
Batch 116/248, train_loss: 0.0832, step time: 1.3690
Batch 117/248, train_loss: 0.6581, step time: 1.3700
Batch 118/248, train_loss: 0.3276, step time: 1.3702
Batch 119/248, train_loss: 0.4180, step time: 1.3692
Batch 120/248, train_loss: 0.2518, step time: 1.3609
Batch 121/248, train_loss: 0.3122, step time: 1.3892
Batch 122/248, train_loss: 0.4283, step time: 1.3754
Batch 123/248, train_loss: 0.0904, step time: 1.3990
Batch 124/248, train_loss: 0.3064, step time: 1.3978
Batch 125/248, train_loss: 0.6689, step time: 1.3945
Batch 126/248, train_loss: 0.2898, step time: 1.3783
Batch 127/248, train_loss: 0.1313, step time: 1.3742
Batch 128/248, train_loss: 0.1935, step time: 1.3905
Batch 129/248, train_loss: 0.1118, step time: 1.3631
Batch 130/248, train_loss: 0.1066, step time: 1.3686
Batch 131/248, train_loss: 0.4724, step time: 1.3864
Batch 132/248, train_loss: 0.2167, step time: 1.3689
Batch 133/248, train_loss: 0.1531, step time: 1.3670
Batch 134/248, train_loss: 0.9776, step time: 1.3888
Batch 135/248, train_loss: 0.2578, step time: 1.3974
Batch 136/248, train_loss: 0.2258, step time: 1.3563
Batch 137/248, train_loss: 0.1400, step time: 1.3744
Batch 138/248, train_loss: 0.0824, step time: 1.3732
Batch 139/248, train_loss: 0.5403, step time: 1.3764
Batch 140/248, train_loss: 0.1599, step time: 1.3999
Batch 141/248, train_loss: 0.2186, step time: 1.3766
Batch 142/248, train_loss: 0.8331, step time: 1.3779
Batch 143/248, train_loss: 0.2728, step time: 1.3872
Batch 144/248, train_loss: 0.1356, step time: 1.3830
Batch 145/248, train_loss: 0.1554, step time: 1.3763
Batch 146/248, train_loss: 0.4718, step time: 1.3482
Batch 147/248, train_loss: 0.0589, step time: 1.3519
Batch 148/248, train_loss: 0.9476, step time: 1.4026
Batch 149/248, train_loss: 0.1642, step time: 1.3848
Batch 150/248, train_loss: 0.6368, step time: 1.3929
Batch 151/248, train_loss: 0.4109, step time: 1.3749
Batch 152/248, train_loss: 0.0518, step time: 1.3620
Batch 153/248, train_loss: 0.3166, step time: 1.3796
Batch 154/248, train_loss: 0.6099, step time: 1.4023
Batch 155/248, train_loss: 0.1185, step time: 1.4081
Batch 156/248, train_loss: 0.1741, step time: 1.3610
```

Batch 156/248, train_loss: 0.1741, step time: 1.3810
Batch 157/248, train_loss: 0.3202, step time: 1.3836
Batch 158/248, train_loss: 0.9736, step time: 1.3580
Batch 159/248, train_loss: 0.5649, step time: 1.3903
Batch 160/248, train_loss: 0.1262, step time: 1.3691
Batch 161/248, train_loss: 0.0778, step time: 1.3693
Batch 162/248, train_loss: 0.1129, step time: 1.4017
Batch 163/248, train_loss: 0.1710, step time: 1.3711
Batch 164/248, train_loss: 0.3137, step time: 1.3768
Batch 165/248, train_loss: 0.9182, step time: 1.3770
Batch 166/248, train_loss: 0.1275, step time: 1.3761
Batch 167/248, train_loss: 0.2199, step time: 1.3955
Batch 168/248, train_loss: 0.2260, step time: 1.3826
Batch 169/248, train_loss: 0.0882, step time: 1.3771
Batch 170/248, train_loss: 0.7401, step time: 1.3927
Batch 171/248, train_loss: 0.1004, step time: 1.3853
Batch 172/248, train_loss: 0.9573, step time: 1.3744
Batch 173/248, train_loss: 0.2698, step time: 1.3996
Batch 174/248, train_loss: 0.7120, step time: 1.3654
Batch 175/248, train_loss: 0.2235, step time: 1.3605
Batch 176/248, train_loss: 0.4200, step time: 1.3636
Batch 177/248, train_loss: 0.4379, step time: 1.3902
Batch 178/248, train_loss: 0.3956, step time: 1.3875
Batch 179/248, train_loss: 0.0849, step time: 1.3867
Batch 180/248, train_loss: 0.4332, step time: 1.3664
Batch 181/248, train_loss: 0.1055, step time: 1.3582
Batch 182/248, train_loss: 0.8974, step time: 1.3895
Batch 183/248, train_loss: 0.1566, step time: 1.3775
Batch 184/248, train_loss: 0.3045, step time: 1.3990
Batch 185/248, train_loss: 0.1195, step time: 1.3936
Batch 186/248, train_loss: 0.1132, step time: 1.3904
Batch 187/248, train_loss: 0.1795, step time: 1.3661
Batch 188/248, train_loss: 0.3436, step time: 1.3921
Batch 189/248, train_loss: 0.6644, step time: 1.4049
Batch 190/248, train_loss: 0.2354, step time: 1.3806
Batch 191/248, train_loss: 0.7104, step time: 1.3664
Batch 192/248, train_loss: 0.3855, step time: 1.3709
Batch 193/248, train_loss: 0.2697, step time: 1.3775
Batch 194/248, train_loss: 0.1018, step time: 1.3644
Batch 195/248, train_loss: 0.7512, step time: 1.3780
Batch 196/248, train_loss: 0.9998, step time: 1.3598
Batch 197/248, train_loss: 0.2581, step time: 1.3897
Batch 198/248, train_loss: 0.9978, step time: 1.3828
Batch 199/248, train_loss: 0.1921, step time: 1.3871
Batch 200/248, train_loss: 0.1830, step time: 1.3732
Batch 201/248, train_loss: 0.1298, step time: 1.3552
Batch 202/248, train_loss: 0.4713, step time: 1.3638
Batch 203/248, train_loss: 0.4965, step time: 1.3702
Batch 204/248, train_loss: 0.0891, step time: 1.3896
Batch 205/248, train_loss: 0.2983, step time: 1.3932
Batch 206/248, train_loss: 0.7643, step time: 1.3723
Batch 207/248, train_loss: 0.1613, step time: 1.3957
Batch 208/248, train_loss: 0.2790, step time: 1.3771
Batch 209/248, train_loss: 0.1450, step time: 1.3682
Batch 210/248, train_loss: 0.0699, step time: 1.3818
Batch 211/248, train_loss: 0.0805, step time: 1.3654
Batch 212/248, train_loss: 0.3107, step time: 1.3886
Batch 213/248, train_loss: 0.2112, step time: 1.3628
Batch 214/248, train_loss: 0.0924, step time: 1.3584
Batch 215/248, train_loss: 0.3685, step time: 1.3907
Batch 216/248, train_loss: 0.2786, step time: 1.3969
Batch 217/248, train_loss: 0.3293, step time: 1.4154
Batch 218/248, train_loss: 0.8522, step time: 1.3841
Batch 219/248, train_loss: 0.0740, step time: 1.3954
Batch 220/248, train_loss: 0.2138, step time: 1.4039
Batch 221/248, train_loss: 0.2877, step time: 1.3679
Batch 222/248, train_loss: 0.2296, step time: 1.3653
Batch 223/248, train_loss: 0.0472, step time: 1.3553
Batch 224/248, train_loss: 0.1376, step time: 1.3929
Batch 225/248, train_loss: 0.3733, step time: 1.3881
Batch 226/248, train_loss: 0.1348, step time: 1.3514
Batch 227/248, train_loss: 0.0941, step time: 1.3619
Batch 228/248, train_loss: 0.4544, step time: 1.3946
Batch 229/248, train_loss: 0.1131, step time: 1.3628
Batch 230/248, train_loss: 0.0926, step time: 1.3666
Batch 231/248, train_loss: 0.5127, step time: 1.4077
Batch 232/248, train_loss: 0.0831, step time: 1.3682
Batch 233/248, train_loss: 0.9945, step time: 1.3644
Batch 234/248, train_loss: 0.4716, step time: 1.3859
Batch 235/248, train_loss: 0.2923, step time: 1.4114
Batch 236/248, train_loss: 0.7941, step time: 1.3733
Batch 237/248, train_loss: 0.1296, step time: 1.3693
Batch 238/248, train_loss: 0.1086, step time: 1.3580
Batch 239/248, train_loss: 0.0757, step time: 1.3731
Batch 240/248, train_loss: 0.4372, step time: 1.3643

```
Batch 241/248, train_loss: 0.9974, step time: 1.3550
Batch 242/248, train_loss: 0.1857, step time: 1.3900
Batch 243/248, train_loss: 0.4819, step time: 1.3818
Batch 244/248, train_loss: 0.5359, step time: 1.3938
Batch 245/248, train_loss: 0.0766, step time: 1.3680
Batch 246/248, train_loss: 0.6861, step time: 1.3552
Batch 247/248, train_loss: 0.0802, step time: 1.3626
Batch 248/248, train_loss: 0.9998, step time: 1.3576
```

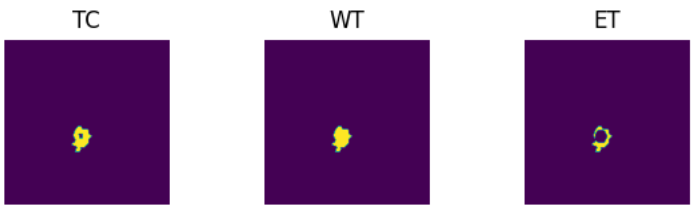
Labels



Predictions

```
VAL
   Batch 1/31, val_loss: 0.8408
   Batch 2/31, val_loss: 0.9988
   Batch 3/31, val_loss: 0.9766
   Batch 4/31, val_loss: 0.9542
   Batch 5/31, val_loss: 0.9974
   Batch 6/31, val_loss: 0.7131
   Batch 7/31, val_loss: 0.8336
   Batch 8/31, val_loss: 0.9610
   Batch 9/31, val_loss: 0.7022
   Batch 10/31, val_loss: 0.9205
   Batch 11/31, val_loss: 0.8189
   Batch 12/31, val_loss: 0.9712
   Batch 13/31, val_loss: 0.9767
   Batch 14/31, val_loss: 0.9555
   Batch 15/31, val_loss: 0.9869
   Batch 16/31, val_loss: 0.9730
   Batch 17/31, val_loss: 0.9718
   Batch 18/31, val_loss: 0.9440
   Batch 19/31, val_loss: 0.7487
   Batch 20/31, val_loss: 0.8695
   Batch 21/31, val_loss: 0.8901
   Batch 22/31, val_loss: 0.9854
   Batch 23/31, val_loss: 0.9796
   Batch 24/31, val_loss: 0.7540
   Batch 25/31, val_loss: 0.8071
   Batch 26/31, val_loss: 0.9236
   Batch 27/31, val_loss: 0.9818
   Batch 28/31, val_loss: 0.7511
   Batch 29/31, val_loss: 0.9839
   Batch 30/31, val_loss: 0.9664
   Batch 31/31, val_loss: 0.9740
```

Labels



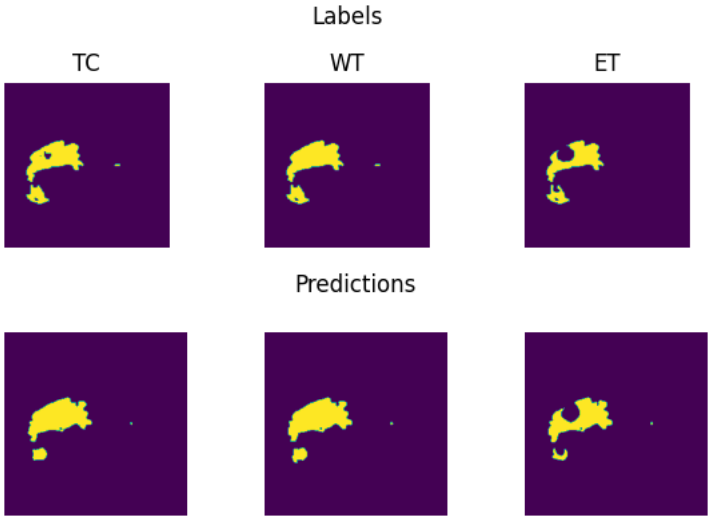
Predictions

```
epoch 30
   average train loss: 0.3432
   average validation loss: 0.9068
   saved as best model: False
   current mean dice: 0.5440
   current TC dice: 0.5685
   current WT dice: 0.5837
   current ET dice: 0.5256
Best Mean Metric: 0.5476
time consuming of epoch 30 is: 1706.9633
----------
epoch 31/100
TRAIN
   Batch 1/248, train_loss: 0.0832, step time: 1.4403
   Batch 2/248, train_loss: 0.8905, step time: 1.3943
   Batch 3/248, train_loss: 0.3830, step time: 1.3734
   Batch 4/248, train_loss: 0.9899, step time: 1.3671
   Batch 5/248, train_loss: 0.2266, step time: 1.4045
   Batch 6/248, train_loss: 0.5872, step time: 1.3807
   Batch 7/248, train_loss: 0.0860, step time: 1.3897
   Batch 8/248, train_loss: 0.7414, step time: 1.3756
   Batch 9/248, train_loss: 0.0447, step time: 1.3867
   Batch 10/248, train_loss: 0.2719, step time: 1.3936
   Batch 11/248, train_loss: 0.2387, step time: 1.3972
   Batch 12/248, train_loss: 0.4099, step time: 1.3972
   Batch 13/248, train_loss: 0.3900, step time: 1.3924
   Batch 14/248, train_loss: 0.0983, step time: 1.3619
   Batch 15/248, train_loss: 0.3596, step time: 1.3768
   Batch 16/248, train_loss: 0.1755, step time: 1.3727
   Batch 17/248, train_loss: 0.3055, step time: 1.3690
   Batch 18/248, train_loss: 0.3218, step time: 1.3792
   Batch 19/248, train_loss: 0.3208, step time: 1.3819
   Batch 20/248, train_loss: 0.4126, step time: 1.3748
   Batch 21/248, train_loss: 0.0553, step time: 1.3587
   Batch 22/248, train_loss: 0.9981, step time: 1.3629
   Batch 23/248, train_loss: 0.8226, step time: 1.3662
   Batch 24/248, train_loss: 0.1121, step time: 1.3680
   Batch 25/248, train_loss: 0.0627, step time: 1.3647
   Batch 26/248, train_loss: 0.4352, step time: 1.3916
   Batch 27/248, train_loss: 0.0708, step time: 1.3757
   Batch 28/248, train_loss: 0.1712, step time: 1.3923
   Batch 29/248, train_loss: 0.5396, step time: 1.4022
   Batch 30/248, train_loss: 0.2327, step time: 1.3986
   Batch 31/248, train_loss: 0.3516, step time: 1.3808
   Batch 32/248, train_loss: 0.0785, step time: 1.3548
   Batch 33/248, train_loss: 0.1128, step time: 1.3646
   Batch 34/248, train_loss: 0.0598, step time: 1.3612
   Batch 35/248, train_loss: 0.0749, step time: 1.3924
   Batch 36/248, train_loss: 0.6876, step time: 1.3889
   Batch 37/248, train_loss: 0.1322, step time: 1.3655
   Batch 38/248, train_loss: 0.2873, step time: 1.3957
   Batch 39/248, train_loss: 0.2052, step time: 1.3558
   Batch 40/248, train_loss: 0.8953, step time: 1.4009
   Batch 41/248, train_loss: 0.1991, step time: 1.3788
   Batch 42/248, train_loss: 0.0656, step time: 1.3699
   Batch 43/248, train_loss: 0.0699, step time: 1.3855
   Batch 44/248, train_loss: 0.1733, step time: 1.3934
   Batch 45/248, train_loss: 0.8131, step time: 1.3991
   Batch 46/248, train_loss: 0.1843, step time: 1.3854
   Batch 47/248, train_loss: 0.0907, step time: 1.3605
   Batch 48/248, train_loss: 0.2352, step time: 1.3875
   Batch 49/248, train_loss: 0.4481, step time: 1.3891
   Batch 50/248, train_loss: 0.1756, step time: 1.3870
   Batch 51/248, train_loss: 0.1832, step time: 1.3665
   Batch 52/248, train_loss: 0.1246, step time: 1.3748
   Batch 53/248, train_loss: 0.4173, step time: 1.3921
   Batch 54/248, train_loss: 0.2520, step time: 1.3665
   Batch 55/248, train_loss: 0.2598, step time: 1.4077
   Batch 56/248, train_loss: 0.1808, step time: 1.3893
   Batch 57/248, train_loss: 0.2400, step time: 1.3658
   Batch 58/248, train_loss: 0.0810, step time: 1.3846
   Batch 59/248, train_loss: 0.1036, step time: 1.3869
   Batch 60/248, train_loss: 0.0673, step time: 1.3635
   Batch 61/248, train_loss: 0.0980, step time: 1.3821
   Batch 62/248, train_loss: 0.2581, step time: 1.3579
   Batch 63/248, train_loss: 0.4641, step time: 1.3886
   Batch 64/248, train_loss: 0.4447, step time: 1.3917
   Batch 65/248, train_loss: 0.2962, step time: 1.3563
   Batch 66/248, train_loss: 0.1823, step time: 1.3598
   Batch 67/248, train_loss: 0.0804, step time: 1.3833
   Batch 68/248, train_loss: 0.1121, step time: 1.3789
   Batch 69/248, train_loss: 0.6139, step time: 1.3757
   Batch 70/248, train_loss: 0.1587, step time: 1.3913
   Batch 71/248, train_loss: 0.2264, step time: 1.4001
```

Batch 71/248, train_loss: 0.2264, step time: 1.4001
Batch 72/248, train_loss: 0.0862, step time: 1.3865
Batch 73/248, train_loss: 0.5279, step time: 1.3631
Batch 74/248, train_loss: 0.9951, step time: 1.3523
Batch 75/248, train_loss: 0.1327, step time: 1.3606
Batch 76/248, train_loss: 0.7980, step time: 1.3714
Batch 77/248, train_loss: 0.8359, step time: 1.3891
Batch 78/248, train_loss: 0.1530, step time: 1.3874
Batch 79/248, train_loss: 0.1354, step time: 1.3878
Batch 80/248, train_loss: 0.2658, step time: 1.3658
Batch 81/248, train_loss: 0.1959, step time: 1.3985
Batch 82/248, train_loss: 0.1660, step time: 1.3654
Batch 83/248, train_loss: 0.5857, step time: 1.3832
Batch 84/248, train_loss: 0.3931, step time: 1.3869
Batch 85/248, train_loss: 0.5218, step time: 1.3571
Batch 86/248, train_loss: 0.5545, step time: 1.3551
Batch 87/248, train_loss: 0.7622, step time: 1.3824
Batch 88/248, train_loss: 0.4109, step time: 1.3725
Batch 89/248, train_loss: 0.0917, step time: 1.3888
Batch 90/248, train_loss: 0.2590, step time: 1.3794
Batch 91/248, train_loss: 0.5354, step time: 1.3757
Batch 92/248, train_loss: 0.9235, step time: 1.4018
Batch 93/248, train_loss: 0.1855, step time: 1.3862
Batch 94/248, train_loss: 0.2837, step time: 1.3771
Batch 95/248, train_loss: 0.1810, step time: 1.3970
Batch 96/248, train_loss: 0.1713, step time: 1.3609
Batch 97/248, train_loss: 0.8589, step time: 1.3701
Batch 98/248, train_loss: 0.1172, step time: 1.3804
Batch 99/248, train_loss: 0.4169, step time: 1.3681
Batch 100/248, train_loss: 0.3321, step time: 1.3791
Batch 101/248, train_loss: 0.0500, step time: 1.3638
Batch 102/248, train_loss: 0.1218, step time: 1.3789
Batch 103/248, train_loss: 0.5476, step time: 1.3647
Batch 104/248, train_loss: 0.3666, step time: 1.3780
Batch 105/248, train_loss: 0.0922, step time: 1.3959
Batch 106/248, train_loss: 0.1684, step time: 1.3865
Batch 107/248, train_loss: 0.2542, step time: 1.3799
Batch 108/248, train_loss: 0.5128, step time: 1.3878
Batch 109/248, train_loss: 0.9757, step time: 1.3900
Batch 110/248, train_loss: 0.9912, step time: 1.3873
Batch 111/248, train_loss: 0.1595, step time: 1.3641
Batch 112/248, train_loss: 0.3485, step time: 1.3928
Batch 113/248, train_loss: 0.9696, step time: 1.4023
Batch 114/248, train_loss: 0.3643, step time: 1.3816
Batch 115/248, train_loss: 0.3439, step time: 1.3733
Batch 116/248, train_loss: 0.1122, step time: 1.3728
Batch 117/248, train_loss: 0.8181, step time: 1.4022
Batch 118/248, train_loss: 0.2608, step time: 1.3656
Batch 119/248, train_loss: 0.4235, step time: 1.3950
Batch 120/248, train_loss: 0.2271, step time: 1.3764
Batch 121/248, train_loss: 0.3236, step time: 1.3806
Batch 122/248, train_loss: 0.4214, step time: 1.3901
Batch 123/248, train_loss: 0.0814, step time: 1.3891
Batch 124/248, train_loss: 0.3295, step time: 1.4052
Batch 125/248, train_loss: 0.6454, step time: 1.3897
Batch 126/248, train_loss: 0.2473, step time: 1.3931
Batch 127/248, train_loss: 0.1554, step time: 1.3939
Batch 128/248, train_loss: 0.1941, step time: 1.3890
Batch 129/248, train_loss: 0.1034, step time: 1.3527
Batch 130/248, train_loss: 0.1174, step time: 1.3611
Batch 131/248, train_loss: 0.4711, step time: 1.3879
Batch 132/248, train_loss: 0.2579, step time: 1.3678
Batch 133/248, train_loss: 0.1233, step time: 1.3678
Batch 134/248, train_loss: 0.9770, step time: 1.3741
Batch 135/248, train_loss: 0.3130, step time: 1.4077
Batch 136/248, train_loss: 0.1896, step time: 1.3967
Batch 137/248, train_loss: 0.1244, step time: 1.3833
Batch 138/248, train_loss: 0.1151, step time: 1.3991
Batch 139/248, train_loss: 0.1532, step time: 1.3911
Batch 140/248, train_loss: 0.1827, step time: 1.3751
Batch 141/248, train_loss: 0.1660, step time: 1.3936
Batch 142/248, train_loss: 0.8109, step time: 1.3646
Batch 143/248, train_loss: 0.2467, step time: 1.3865
Batch 144/248, train_loss: 0.1383, step time: 1.3589
Batch 145/248, train_loss: 0.0689, step time: 1.3570
Batch 146/248, train_loss: 0.9674, step time: 1.3654
Batch 147/248, train_loss: 0.0638, step time: 1.3707
Batch 148/248, train_loss: 0.8688, step time: 1.3801
Batch 149/248, train_loss: 0.1352, step time: 1.3834
Batch 150/248, train_loss: 0.6729, step time: 1.3571
Batch 151/248, train_loss: 0.2810, step time: 1.3946
Batch 152/248, train_loss: 0.0634, step time: 1.3942
Batch 153/248, train_loss: 0.2060, step time: 1.3696
Batch 154/248, train_loss: 0.5478, step time: 1.3861
Batch 155/248, train_loss: 0.0929, step time: 1.3816

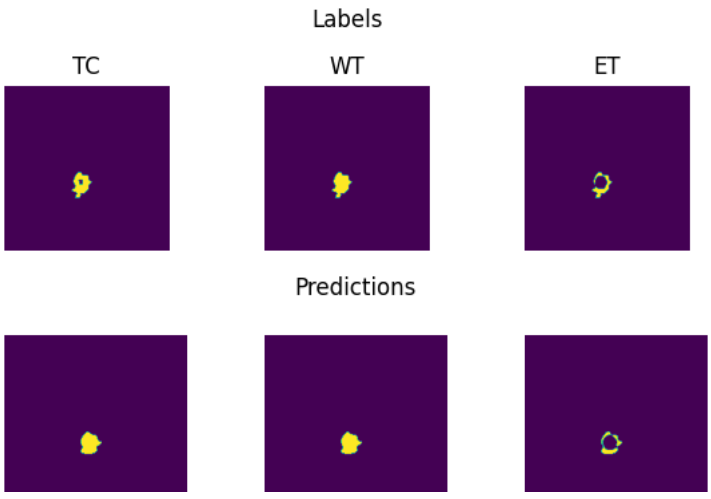
```
Batch 156/248, train_loss: 0.2674, step time: 1.3834
Batch 157/248, train_loss: 0.3269, step time: 1.3927
Batch 158/248, train_loss: 0.9770, step time: 1.3750
Batch 159/248, train_loss: 0.5858, step time: 1.3772
Batch 160/248, train_loss: 0.1163, step time: 1.3883
Batch 161/248, train_loss: 0.1147, step time: 1.3909
Batch 162/248, train_loss: 0.0818, step time: 1.3573
Batch 163/248, train_loss: 0.2562, step time: 1.3906
Batch 164/248, train_loss: 0.3159, step time: 1.3699
Batch 165/248, train_loss: 0.9841, step time: 1.4032
Batch 166/248, train_loss: 0.0949, step time: 1.3950
Batch 167/248, train_loss: 0.2055, step time: 1.3975
Batch 168/248, train_loss: 0.1569, step time: 1.3888
Batch 169/248, train_loss: 0.1263, step time: 1.3657
Batch 170/248, train_loss: 0.5816, step time: 1.3781
Batch 171/248, train_loss: 0.0980, step time: 1.3750
Batch 172/248, train_loss: 0.6276, step time: 1.3810
Batch 173/248, train_loss: 0.1019, step time: 1.3454
Batch 174/248, train_loss: 0.9507, step time: 1.3841
Batch 175/248, train_loss: 0.2272, step time: 1.3677
Batch 176/248, train_loss: 0.4217, step time: 1.4003
Batch 177/248, train_loss: 0.5643, step time: 1.4036
Batch 178/248, train_loss: 0.3756, step time: 1.3995
Batch 179/248, train_loss: 0.0886, step time: 1.3849
Batch 180/248, train_loss: 0.3990, step time: 1.3850
Batch 181/248, train_loss: 0.0892, step time: 1.4000
Batch 182/248, train_loss: 0.6356, step time: 1.3870
Batch 183/248, train_loss: 0.1587, step time: 1.3961
Batch 184/248, train_loss: 0.3295, step time: 1.3958
Batch 185/248, train_loss: 0.1199, step time: 1.3651
Batch 186/248, train_loss: 0.1289, step time: 1.3776
Batch 187/248, train_loss: 0.2010, step time: 1.3615
Batch 188/248, train_loss: 0.2818, step time: 1.3720
Batch 189/248, train_loss: 0.8843, step time: 1.3745
Batch 190/248, train_loss: 0.1221, step time: 1.3880
Batch 191/248, train_loss: 0.7491, step time: 1.3997
Batch 192/248, train_loss: 0.2823, step time: 1.3679
Batch 193/248, train_loss: 0.2497, step time: 1.3847
Batch 194/248, train_loss: 0.1243, step time: 1.3738
Batch 195/248, train_loss: 0.6489, step time: 1.3799
Batch 196/248, train_loss: 0.8666, step time: 1.3887
Batch 197/248, train_loss: 0.1997, step time: 1.3629
Batch 198/248, train_loss: 0.9912, step time: 1.3739
Batch 199/248, train_loss: 0.2062, step time: 1.4082
Batch 200/248, train_loss: 0.1545, step time: 1.3780
Batch 201/248, train_loss: 0.1209, step time: 1.3580
Batch 202/248, train_loss: 0.6216, step time: 1.3715
Batch 203/248, train_loss: 0.3969, step time: 1.3985
Batch 204/248, train_loss: 0.1531, step time: 1.3815
Batch 205/248, train_loss: 0.3149, step time: 1.3556
Batch 206/248, train_loss: 0.6438, step time: 1.3913
Batch 207/248, train_loss: 0.1266, step time: 1.3810
Batch 208/248, train_loss: 0.2360, step time: 1.3668
Batch 209/248, train_loss: 0.1470, step time: 1.3724
Batch 210/248, train_loss: 0.0794, step time: 1.3983
Batch 211/248, train_loss: 0.0823, step time: 1.3825
Batch 212/248, train_loss: 0.3068, step time: 1.3592
Batch 213/248, train_loss: 0.2170, step time: 1.3826
Batch 214/248, train_loss: 0.0921, step time: 1.3722
Batch 215/248, train_loss: 0.4056, step time: 1.3851
Batch 216/248, train_loss: 0.2011, step time: 1.3885
Batch 217/248, train_loss: 0.2999, step time: 1.4021
Batch 218/248, train_loss: 0.8308, step time: 1.3810
Batch 219/248, train_loss: 0.0838, step time: 1.3697
Batch 220/248, train_loss: 0.2640, step time: 1.3878
Batch 221/248, train_loss: 0.3152, step time: 1.3877
Batch 222/248, train_loss: 0.1928, step time: 1.3902
Batch 223/248, train_loss: 0.0551, step time: 1.3527
Batch 224/248, train_loss: 0.1131, step time: 1.3827
Batch 225/248, train_loss: 0.5395, step time: 1.3538
Batch 226/248, train_loss: 0.3606, step time: 1.3636
Batch 227/248, train_loss: 0.1170, step time: 1.3516
Batch 228/248, train_loss: 0.1740, step time: 1.3714
Batch 229/248, train_loss: 0.0929, step time: 1.3805
Batch 230/248, train_loss: 0.0963, step time: 1.4026
Batch 231/248, train_loss: 0.7778, step time: 1.4039
Batch 232/248, train_loss: 0.1109, step time: 1.3829
Batch 233/248, train_loss: 0.9974, step time: 1.3784
Batch 234/248, train_loss: 0.5808, step time: 1.3698
Batch 235/248, train_loss: 0.2869, step time: 1.3954
Batch 236/248, train_loss: 0.7994, step time: 1.3656
Batch 237/248, train_loss: 0.1347, step time: 1.3924
Batch 238/248, train_loss: 0.1343, step time: 1.3907
Batch 239/248, train_loss: 0.1478, step time: 1.3578
Batch 240/248, train_loss: 0.5496, step time: 1.3984
```

```
Batch 241/248, train_loss: 0.9259, step time: 1.3777
Batch 242/248, train_loss: 0.1634, step time: 1.3653
Batch 243/248, train_loss: 0.4550, step time: 1.3806
Batch 244/248, train_loss: 0.4813, step time: 1.3797
Batch 245/248, train_loss: 0.0865, step time: 1.3674
Batch 246/248, train_loss: 0.7321, step time: 1.3662
Batch 247/248, train_loss: 0.0989, step time: 1.3795
Batch 248/248, train_loss: 0.9997, step time: 1.3470
```



VAL

```
Batch 1/31, val_loss: 0.8522
Batch 2/31, val_loss: 0.9993
Batch 3/31, val_loss: 0.9766
Batch 4/31, val_loss: 0.9542
Batch 5/31, val_loss: 0.9922
Batch 6/31, val_loss: 0.7217
Batch 7/31, val_loss: 0.8631
Batch 8/31, val_loss: 0.9759
Batch 9/31, val_loss: 0.7171
Batch 10/31, val_loss: 0.9216
Batch 11/31, val_loss: 0.8232
Batch 12/31, val_loss: 0.9748
Batch 13/31, val_loss: 0.9956
Batch 14/31, val_loss: 0.9568
Batch 15/31, val_loss: 0.9884
Batch 16/31, val_loss: 0.9715
Batch 17/31, val_loss: 0.9761
Batch 18/31, val_loss: 0.9535
Batch 19/31, val_loss: 0.7653
Batch 20/31, val_loss: 0.8881
Batch 21/31, val_loss: 0.9016
Batch 22/31, val_loss: 0.9933
Batch 23/31, val_loss: 0.9840
Batch 24/31, val_loss: 0.7674
Batch 25/31, val_loss: 0.8065
Batch 26/31, val_loss: 0.9274
Batch 27/31, val_loss: 0.9800
Batch 28/31, val_loss: 0.7497
Batch 29/31, val_loss: 0.9815
Batch 30/31, val_loss: 0.9638
Batch 31/31, val_loss: 0.9761
```



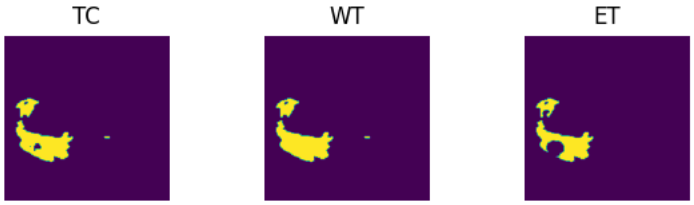
epoch 31
   average train loss: 0.3406
   average validation loss: 0.9129
   saved as best model: True
   current mean dice: 0.5517
   current TC dice: 0.5852
   current WT dice: 0.5931
   current ET dice: 0.5161
Best Mean Metric: 0.5517
time consuming of epoch 31 is: 1695.1447
----
epoch 32/100
TRAIN
   Batch 1/248, train_loss: 0.1078, step time: 1.4552
   Batch 2/248, train_loss: 0.8790, step time: 1.3857
   Batch 3/248, train_loss: 0.3659, step time: 1.3764
   Batch 4/248, train_loss: 0.9963, step time: 1.3819
   Batch 5/248, train_loss: 0.2790, step time: 1.3949
   Batch 6/248, train_loss: 0.4664, step time: 1.3933
   Batch 7/248, train_loss: 0.1097, step time: 1.3870
   Batch 8/248, train_loss: 0.7442, step time: 1.3878
   Batch 9/248, train_loss: 0.0589, step time: 1.4001
   Batch 10/248, train_loss: 0.2647, step time: 1.3854
   Batch 11/248, train_loss: 0.2773, step time: 1.3792
   Batch 12/248, train_loss: 0.4394, step time: 1.3878
   Batch 13/248, train_loss: 0.3027, step time: 1.3712
   Batch 14/248, train_loss: 0.0610, step time: 1.3836
   Batch 15/248, train_loss: 0.3323, step time: 1.3592
   Batch 16/248, train_loss: 0.1741, step time: 1.3523
   Batch 17/248, train_loss: 0.3093, step time: 1.3939
   Batch 18/248, train_loss: 0.3124, step time: 1.3541
   Batch 19/248, train_loss: 0.1984, step time: 1.3763
   Batch 20/248, train_loss: 0.2331, step time: 1.3729
   Batch 21/248, train_loss: 0.0583, step time: 1.3597
   Batch 22/248, train_loss: 0.9965, step time: 1.3799
   Batch 23/248, train_loss: 0.8838, step time: 1.3828
   Batch 24/248, train_loss: 0.1156, step time: 1.3646
   Batch 25/248, train_loss: 0.0726, step time: 1.3802
   Batch 26/248, train_loss: 0.5102, step time: 1.3788
   Batch 27/248, train_loss: 0.0714, step time: 1.3889
   Batch 28/248, train_loss: 0.1875, step time: 1.3851
   Batch 29/248, train_loss: 0.4460, step time: 1.4012
   Batch 30/248, train_loss: 0.6725, step time: 1.3676
   Batch 31/248, train_loss: 0.4307, step time: 1.3604
   Batch 32/248, train_loss: 0.1027, step time: 1.3876
   Batch 33/248, train_loss: 0.1092, step time: 1.3856
   Batch 34/248, train_loss: 0.0823, step time: 1.3673
   Batch 35/248, train_loss: 0.0834, step time: 1.3706
   Batch 36/248, train_loss: 0.9831, step time: 1.3686
   Batch 37/248, train_loss: 0.1525, step time: 1.3665
   Batch 38/248, train_loss: 0.3203, step time: 1.3665
   Batch 39/248, train_loss: 0.1654, step time: 1.3677
   Batch 40/248, train_loss: 0.9661, step time: 1.3602
   Batch 41/248, train_loss: 0.2291, step time: 1.4010
   Batch 42/248, train_loss: 0.0730, step time: 1.3812
   Batch 43/248, train_loss: 0.0696, step time: 1.3789
   Batch 44/248, train_loss: 0.1554, step time: 1.3898
   Batch 45/248, train_loss: 0.6576, step time: 1.3698
   Batch 46/248, train_loss: 0.1859, step time: 1.3665
   Batch 47/248, train_loss: 0.0911, step time: 1.3782
   Batch 48/248, train_loss: 0.2318, step time: 1.3815
   Batch 49/248, train_loss: 0.4991, step time: 1.3732
   Batch 50/248, train_loss: 0.1905, step time: 1.3718
   Batch 51/248, train_loss: 0.2122, step time: 1.3791
   Batch 52/248, train_loss: 0.1314, step time: 1.3823
   Batch 53/248, train_loss: 0.4297, step time: 1.3947
   Batch 54/248, train_loss: 0.2680, step time: 1.3761
   Batch 55/248, train_loss: 0.2719, step time: 1.3783
   Batch 56/248, train_loss: 0.1819, step time: 1.3762
   Batch 57/248, train_loss: 0.2415, step time: 1.3902
   Batch 58/248, train_loss: 0.0753, step time: 1.3568
   Batch 59/248, train_loss: 0.0793, step time: 1.3874
   Batch 60/248, train_loss: 0.1163, step time: 1.3954
   Batch 61/248, train_loss: 0.1006, step time: 1.3529
   Batch 62/248, train_loss: 0.2476, step time: 1.3830
   Batch 63/248, train_loss: 0.4369, step time: 1.3706
   Batch 64/248, train_loss: 0.4279, step time: 1.3858
   Batch 65/248, train_loss: 0.3285, step time: 1.3753
   Batch 66/248, train_loss: 0.1525, step time: 1.3660
   Batch 67/248, train_loss: 0.0798, step time: 1.3847
   Batch 68/248, train_loss: 0.1230, step time: 1.4065
   Batch 69/248, train_loss: 0.9354, step time: 1.3744
   Batch 70/248, train_loss: 0.1823, step time: 1.3682

```
Batch 71/248, train_loss: 0.1628, step time: 1.3860
Batch 72/248, train_loss: 0.0662, step time: 1.3900
Batch 73/248, train_loss: 0.1045, step time: 1.3733
Batch 74/248, train_loss: 0.9667, step time: 1.3833
Batch 75/248, train_loss: 0.1225, step time: 1.3735
Batch 76/248, train_loss: 0.7267, step time: 1.3721
Batch 77/248, train_loss: 0.7870, step time: 1.3736
Batch 78/248, train_loss: 0.1131, step time: 1.3775
Batch 79/248, train_loss: 0.1354, step time: 1.3668
Batch 80/248, train_loss: 0.1905, step time: 1.3718
Batch 81/248, train_loss: 0.1920, step time: 1.3990
Batch 82/248, train_loss: 0.0974, step time: 1.3944
Batch 83/248, train_loss: 0.5240, step time: 1.3640
Batch 84/248, train_loss: 0.3284, step time: 1.3936
Batch 85/248, train_loss: 0.4073, step time: 1.3866
Batch 86/248, train_loss: 0.3152, step time: 1.3587
Batch 87/248, train_loss: 0.8491, step time: 1.3833
Batch 88/248, train_loss: 0.4682, step time: 1.3917
Batch 89/248, train_loss: 0.0719, step time: 1.3720
Batch 90/248, train_loss: 0.2181, step time: 1.3820
Batch 91/248, train_loss: 0.3720, step time: 1.3972
Batch 92/248, train_loss: 0.9195, step time: 1.3787
Batch 93/248, train_loss: 0.1522, step time: 1.3734
Batch 94/248, train_loss: 0.2911, step time: 1.3936
Batch 95/248, train_loss: 0.1743, step time: 1.3691
Batch 96/248, train_loss: 0.1833, step time: 1.3769
Batch 97/248, train_loss: 0.7703, step time: 1.3996
Batch 98/248, train_loss: 0.1308, step time: 1.3578
Batch 99/248, train_loss: 0.4186, step time: 1.3865
Batch 100/248, train_loss: 0.3276, step time: 1.4012
Batch 101/248, train_loss: 0.0492, step time: 1.3439
Batch 102/248, train_loss: 0.1207, step time: 1.3790
Batch 103/248, train_loss: 0.4037, step time: 1.3599
Batch 104/248, train_loss: 0.3443, step time: 1.3991
Batch 105/248, train_loss: 0.0877, step time: 1.3737
Batch 106/248, train_loss: 0.1428, step time: 1.3770
Batch 107/248, train_loss: 0.3020, step time: 1.3992
Batch 108/248, train_loss: 0.5459, step time: 1.4022
Batch 109/248, train_loss: 0.9771, step time: 1.3978
Batch 110/248, train_loss: 0.9959, step time: 1.3656
Batch 111/248, train_loss: 0.0942, step time: 1.3606
Batch 112/248, train_loss: 0.1197, step time: 1.3660
Batch 113/248, train_loss: 0.9630, step time: 1.3858
Batch 114/248, train_loss: 0.1263, step time: 1.3605
Batch 115/248, train_loss: 0.2139, step time: 1.3779
Batch 116/248, train_loss: 0.0764, step time: 1.3737
Batch 117/248, train_loss: 0.7179, step time: 1.3795
Batch 118/248, train_loss: 0.5078, step time: 1.3970
Batch 119/248, train_loss: 0.3372, step time: 1.3831
Batch 120/248, train_loss: 0.2640, step time: 1.3843
Batch 121/248, train_loss: 0.2941, step time: 1.3788
Batch 122/248, train_loss: 0.4751, step time: 1.3880
Batch 123/248, train_loss: 0.0804, step time: 1.3690
Batch 124/248, train_loss: 0.2855, step time: 1.3677
Batch 125/248, train_loss: 0.5796, step time: 1.3931
Batch 126/248, train_loss: 0.3396, step time: 1.4109
Batch 127/248, train_loss: 0.1270, step time: 1.3661
Batch 128/248, train_loss: 0.1805, step time: 1.3784
Batch 129/248, train_loss: 0.1078, step time: 1.3961
Batch 130/248, train_loss: 0.1264, step time: 1.3811
Batch 131/248, train_loss: 0.4468, step time: 1.3678
Batch 132/248, train_loss: 0.2506, step time: 1.3574
Batch 133/248, train_loss: 0.2209, step time: 1.3705
Batch 134/248, train_loss: 0.9663, step time: 1.3719
Batch 135/248, train_loss: 0.2513, step time: 1.3698
Batch 136/248, train_loss: 0.2139, step time: 1.4003
Batch 137/248, train_loss: 0.1190, step time: 1.3878
Batch 138/248, train_loss: 0.0990, step time: 1.3836
Batch 139/248, train_loss: 0.2024, step time: 1.3907
Batch 140/248, train_loss: 0.2032, step time: 1.3839
Batch 141/248, train_loss: 0.1766, step time: 1.3798
Batch 142/248, train_loss: 0.6057, step time: 1.3609
Batch 143/248, train_loss: 0.2948, step time: 1.3662
Batch 144/248, train_loss: 0.1080, step time: 1.3606
Batch 145/248, train_loss: 0.0610, step time: 1.3838
Batch 146/248, train_loss: 0.5271, step time: 1.3596
Batch 147/248, train_loss: 0.0444, step time: 1.3543
Batch 148/248, train_loss: 0.9630, step time: 1.3622
Batch 149/248, train_loss: 0.1244, step time: 1.3834
Batch 150/248, train_loss: 0.6252, step time: 1.3863
Batch 151/248, train_loss: 0.2849, step time: 1.3835
Batch 152/248, train_loss: 0.0440, step time: 1.3731
Batch 153/248, train_loss: 0.1946, step time: 1.3990
Batch 154/248, train_loss: 0.5317, step time: 1.3811
Batch 155/248, train_loss: 0.1074, step time: 1.3784
```

```
Batch 156/248, train_loss: 0.1888, step time: 1.3751
Batch 157/248, train_loss: 0.3302, step time: 1.3905
Batch 158/248, train_loss: 0.8786, step time: 1.3584
Batch 159/248, train_loss: 0.5790, step time: 1.3673
Batch 160/248, train_loss: 0.0948, step time: 1.3860
Batch 161/248, train_loss: 0.0978, step time: 1.3787
Batch 162/248, train_loss: 0.0722, step time: 1.3813
Batch 163/248, train_loss: 0.1877, step time: 1.3757
Batch 164/248, train_loss: 0.3329, step time: 1.3743
Batch 165/248, train_loss: 0.7989, step time: 1.3745
Batch 166/248, train_loss: 0.0997, step time: 1.3620
Batch 167/248, train_loss: 0.1999, step time: 1.3706
Batch 168/248, train_loss: 0.1689, step time: 1.3756
Batch 169/248, train_loss: 0.1392, step time: 1.3656
Batch 170/248, train_loss: 0.6899, step time: 1.3622
Batch 171/248, train_loss: 0.1164, step time: 1.3621
Batch 172/248, train_loss: 0.4833, step time: 1.3761
Batch 173/248, train_loss: 0.1115, step time: 1.3686
Batch 174/248, train_loss: 0.9274, step time: 1.3775
Batch 175/248, train_loss: 0.2362, step time: 1.3676
Batch 176/248, train_loss: 0.4036, step time: 1.3852
Batch 177/248, train_loss: 0.3885, step time: 1.3980
Batch 178/248, train_loss: 0.4128, step time: 1.4001
Batch 179/248, train_loss: 0.0797, step time: 1.3840
Batch 180/248, train_loss: 0.3867, step time: 1.3656
Batch 181/248, train_loss: 0.0943, step time: 1.3704
Batch 182/248, train_loss: 0.9325, step time: 1.3803
Batch 183/248, train_loss: 0.1215, step time: 1.3606
Batch 184/248, train_loss: 0.3380, step time: 1.3659
Batch 185/248, train_loss: 0.1088, step time: 1.3782
Batch 186/248, train_loss: 0.0940, step time: 1.3593
Batch 187/248, train_loss: 0.1588, step time: 1.3642
Batch 188/248, train_loss: 0.2473, step time: 1.3846
Batch 189/248, train_loss: 0.5408, step time: 1.3815
Batch 190/248, train_loss: 0.1609, step time: 1.3886
Batch 191/248, train_loss: 0.6633, step time: 1.3902
Batch 192/248, train_loss: 0.2368, step time: 1.3884
Batch 193/248, train_loss: 0.2411, step time: 1.3751
Batch 194/248, train_loss: 0.1052, step time: 1.3866
Batch 195/248, train_loss: 0.6366, step time: 1.3735
Batch 196/248, train_loss: 0.9977, step time: 1.3859
Batch 197/248, train_loss: 0.1899, step time: 1.3637
Batch 198/248, train_loss: 0.9985, step time: 1.3739
Batch 199/248, train_loss: 0.3033, step time: 1.3807
Batch 200/248, train_loss: 0.1437, step time: 1.3654
Batch 201/248, train_loss: 0.1253, step time: 1.3633
Batch 202/248, train_loss: 0.4381, step time: 1.3600
Batch 203/248, train_loss: 0.4452, step time: 1.3762
Batch 204/248, train_loss: 0.0932, step time: 1.3928
Batch 205/248, train_loss: 0.2720, step time: 1.3678
Batch 206/248, train_loss: 0.6885, step time: 1.3935
Batch 207/248, train_loss: 0.1366, step time: 1.3879
Batch 208/248, train_loss: 0.1703, step time: 1.3628
Batch 209/248, train_loss: 0.1286, step time: 1.3610
Batch 210/248, train_loss: 0.0664, step time: 1.3655
Batch 211/248, train_loss: 0.0743, step time: 1.3663
Batch 212/248, train_loss: 0.2359, step time: 1.3657
Batch 213/248, train_loss: 0.2009, step time: 1.3597
Batch 214/248, train_loss: 0.0925, step time: 1.3615
Batch 215/248, train_loss: 0.4176, step time: 1.3630
Batch 216/248, train_loss: 0.2075, step time: 1.3822
Batch 217/248, train_loss: 0.2931, step time: 1.4012
Batch 218/248, train_loss: 0.7875, step time: 1.3896
Batch 219/248, train_loss: 0.0715, step time: 1.4055
Batch 220/248, train_loss: 0.2504, step time: 1.4000
Batch 221/248, train_loss: 0.2956, step time: 1.4068
Batch 222/248, train_loss: 0.2160, step time: 1.3860
Batch 223/248, train_loss: 0.0523, step time: 1.3865
Batch 224/248, train_loss: 0.0949, step time: 1.3800
Batch 225/248, train_loss: 0.3518, step time: 1.3624
Batch 226/248, train_loss: 0.1440, step time: 1.3778
Batch 227/248, train_loss: 0.1039, step time: 1.3593
Batch 228/248, train_loss: 0.1592, step time: 1.3757
Batch 229/248, train_loss: 0.0982, step time: 1.3589
Batch 230/248, train_loss: 0.0643, step time: 1.3507
Batch 231/248, train_loss: 0.9839, step time: 1.3925
Batch 232/248, train_loss: 0.0801, step time: 1.3785
Batch 233/248, train_loss: 0.9826, step time: 1.3920
Batch 234/248, train_loss: 0.4483, step time: 1.3706
Batch 235/248, train_loss: 0.2634, step time: 1.3899
Batch 236/248, train_loss: 0.7843, step time: 1.4082
Batch 237/248, train_loss: 0.1299, step time: 1.3969
Batch 238/248, train_loss: 0.0935, step time: 1.3676
Batch 239/248, train_loss: 0.0783, step time: 1.3630
Batch 240/248, train_loss: 0.3637, step time: 1.3755
```

```
Batch 241/248, train_loss: 0.9605, step time: 1.3620
Batch 242/248, train_loss: 0.1841, step time: 1.3807
Batch 243/248, train_loss: 0.4657, step time: 1.3928
Batch 244/248, train_loss: 0.4233, step time: 1.3689
Batch 245/248, train_loss: 0.0784, step time: 1.3667
Batch 246/248, train_loss: 0.5958, step time: 1.3659
Batch 247/248, train_loss: 0.0747, step time: 1.3824
Batch 248/248, train_loss: 0.9995, step time: 1.3624
```

Labels

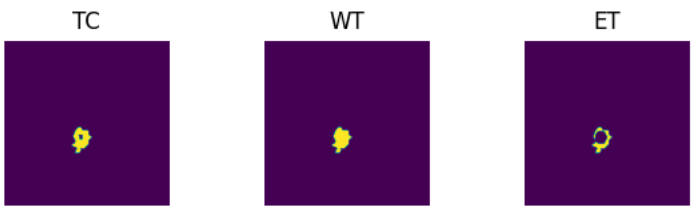


Predictions

VAL

```
Batch 1/31, val_loss: 0.8442
Batch 2/31, val_loss: 0.9977
Batch 3/31, val_loss: 0.9752
Batch 4/31, val_loss: 0.9513
Batch 5/31, val_loss: 0.9971
Batch 6/31, val_loss: 0.7013
Batch 7/31, val_loss: 0.8489
Batch 8/31, val_loss: 0.9708
Batch 9/31, val_loss: 0.6986
Batch 10/31, val_loss: 0.9151
Batch 11/31, val_loss: 0.8196
Batch 12/31, val_loss: 0.9742
Batch 13/31, val_loss: 0.9931
Batch 14/31, val_loss: 0.9543
Batch 15/31, val_loss: 0.9873
Batch 16/31, val_loss: 0.9715
Batch 17/31, val_loss: 0.9717
Batch 18/31, val_loss: 0.9467
Batch 19/31, val_loss: 0.7501
Batch 20/31, val_loss: 0.8646
Batch 21/31, val_loss: 0.8865
Batch 22/31, val_loss: 0.9787
Batch 23/31, val_loss: 0.9766
Batch 24/31, val_loss: 0.7457
Batch 25/31, val_loss: 0.8020
Batch 26/31, val_loss: 0.9289
Batch 27/31, val_loss: 0.9789
Batch 28/31, val_loss: 0.7469
Batch 29/31, val_loss: 0.9816
Batch 30/31, val_loss: 0.9637
Batch 31/31, val_loss: 0.9739
```

Labels



Predictions

```
epoch 32
   average train loss: 0.3244
   average validation loss: 0.9064
   saved as best model: True
   current mean dice: 0.5675
   current TC dice: 0.5971
   current WT dice: 0.6051
   current ET dice: 0.5461
Best Mean Metric: 0.5675
time consuming of epoch 32 is: 1719.5668
----------
epoch 33/100
TRAIN
   Batch 1/248, train_loss: 0.0793, step time: 1.4431
   Batch 2/248, train_loss: 0.7911, step time: 1.3743
   Batch 3/248, train_loss: 0.4109, step time: 1.3957
   Batch 4/248, train_loss: 0.9552, step time: 1.3858
   Batch 5/248, train_loss: 0.2903, step time: 1.4049
   Batch 6/248, train_loss: 0.3197, step time: 1.3785
   Batch 7/248, train_loss: 0.0717, step time: 1.3814
   Batch 8/248, train_loss: 0.6845, step time: 1.4006
   Batch 9/248, train_loss: 0.0504, step time: 1.3662
   Batch 10/248, train_loss: 0.2468, step time: 1.3688
   Batch 11/248, train_loss: 0.2273, step time: 1.4140
   Batch 12/248, train_loss: 0.3836, step time: 1.3720
   Batch 13/248, train_loss: 0.4067, step time: 1.3708
   Batch 14/248, train_loss: 0.0564, step time: 1.3575
   Batch 15/248, train_loss: 0.3347, step time: 1.3572
   Batch 16/248, train_loss: 0.1538, step time: 1.3878
   Batch 17/248, train_loss: 0.3301, step time: 1.3672
   Batch 18/248, train_loss: 0.3403, step time: 1.3843
   Batch 19/248, train_loss: 0.1062, step time: 1.3606
   Batch 20/248, train_loss: 0.2360, step time: 1.3695
   Batch 21/248, train_loss: 0.0518, step time: 1.3760
   Batch 22/248, train_loss: 0.9192, step time: 1.3730
   Batch 23/248, train_loss: 0.9561, step time: 1.3795
   Batch 24/248, train_loss: 0.1314, step time: 1.3675
   Batch 25/248, train_loss: 0.0697, step time: 1.3735
   Batch 26/248, train_loss: 0.4214, step time: 1.3834
   Batch 27/248, train_loss: 0.1303, step time: 1.3996
   Batch 28/248, train_loss: 0.1683, step time: 1.3870
   Batch 29/248, train_loss: 0.4794, step time: 1.4049
   Batch 30/248, train_loss: 0.2314, step time: 1.3966
   Batch 31/248, train_loss: 0.3949, step time: 1.3931
   Batch 32/248, train_loss: 0.0865, step time: 1.3881
   Batch 33/248, train_loss: 0.1235, step time: 1.3572
   Batch 34/248, train_loss: 0.0535, step time: 1.3944
   Batch 35/248, train_loss: 0.0721, step time: 1.3642
   Batch 36/248, train_loss: 0.6823, step time: 1.3946
   Batch 37/248, train_loss: 0.1567, step time: 1.3942
   Batch 38/248, train_loss: 0.2839, step time: 1.3890
   Batch 39/248, train_loss: 0.1751, step time: 1.3984
   Batch 40/248, train_loss: 0.8323, step time: 1.3996
   Batch 41/248, train_loss: 0.3603, step time: 1.3928
   Batch 42/248, train_loss: 0.0797, step time: 1.3596
   Batch 43/248, train_loss: 0.1274, step time: 1.3642
   Batch 44/248, train_loss: 0.5373, step time: 1.3827
   Batch 45/248, train_loss: 0.6688, step time: 1.3759
   Batch 46/248, train_loss: 0.1609, step time: 1.3729
   Batch 47/248, train_loss: 0.1074, step time: 1.3694
   Batch 48/248, train_loss: 0.2214, step time: 1.3834
   Batch 49/248, train_loss: 0.4717, step time: 1.3672
   Batch 50/248, train_loss: 0.1482, step time: 1.3723
   Batch 51/248, train_loss: 0.1482, step time: 1.3941
   Batch 52/248, train_loss: 0.2114, step time: 1.3985
   Batch 53/248, train_loss: 0.4104, step time: 1.4148
   Batch 54/248, train_loss: 0.2674, step time: 1.3751
   Batch 55/248, train_loss: 0.3343, step time: 1.3987
   Batch 56/248, train_loss: 0.1881, step time: 1.3675
   Batch 57/248, train_loss: 0.2737, step time: 1.3847
   Batch 58/248, train_loss: 0.0842, step time: 1.3876
   Batch 59/248, train_loss: 0.0813, step time: 1.3467
   Batch 60/248, train_loss: 0.0863, step time: 1.3670
   Batch 61/248, train_loss: 0.1003, step time: 1.3683
   Batch 62/248, train_loss: 0.2433, step time: 1.4043
   Batch 63/248, train_loss: 0.4286, step time: 1.4054
   Batch 64/248, train_loss: 0.4844, step time: 1.3884
   Batch 65/248, train_loss: 0.2767, step time: 1.3885
   Batch 66/248, train_loss: 0.2138, step time: 1.3648
   Batch 67/248, train_loss: 0.0881, step time: 1.3647
   Batch 68/248, train_loss: 0.1352, step time: 1.4055
   Batch 69/248, train_loss: 0.4942, step time: 1.4119
   Batch 70/248, train_loss: 0.1373, step time: 1.3730
```

Batch 71/248, train_loss: 0.1560, step time: 1.3860
Batch 72/248, train_loss: 0.0629, step time: 1.3612
Batch 73/248, train_loss: 0.4987, step time: 1.3662
Batch 74/248, train_loss: 0.9953, step time: 1.3562
Batch 75/248, train_loss: 0.1380, step time: 1.3887
Batch 76/248, train_loss: 0.8079, step time: 1.3814
Batch 77/248, train_loss: 0.9956, step time: 1.3717
Batch 78/248, train_loss: 0.2505, step time: 1.3691
Batch 79/248, train_loss: 0.3284, step time: 1.3743
Batch 80/248, train_loss: 0.5361, step time: 1.3847
Batch 81/248, train_loss: 0.2584, step time: 1.3727
Batch 82/248, train_loss: 0.3100, step time: 1.4036
Batch 83/248, train_loss: 0.6811, step time: 1.4123
Batch 84/248, train_loss: 0.2888, step time: 1.4064
Batch 85/248, train_loss: 0.7726, step time: 1.3675
Batch 86/248, train_loss: 0.5216, step time: 1.3650
Batch 87/248, train_loss: 0.9843, step time: 1.3978
Batch 88/248, train_loss: 0.5728, step time: 1.4053
Batch 89/248, train_loss: 0.1008, step time: 1.3766
Batch 90/248, train_loss: 0.3850, step time: 1.3904
Batch 91/248, train_loss: 0.3732, step time: 1.3656
Batch 92/248, train_loss: 0.9397, step time: 1.3688
Batch 93/248, train_loss: 0.2289, step time: 1.3814
Batch 94/248, train_loss: 0.3102, step time: 1.3660
Batch 95/248, train_loss: 0.2058, step time: 1.3589
Batch 96/248, train_loss: 0.7731, step time: 1.3974
Batch 97/248, train_loss: 0.7102, step time: 1.4084
Batch 98/248, train_loss: 0.2416, step time: 1.3599
Batch 99/248, train_loss: 0.4022, step time: 1.3899
Batch 100/248, train_loss: 0.4599, step time: 1.3905
Batch 101/248, train_loss: 0.0753, step time: 1.3722
Batch 102/248, train_loss: 0.1657, step time: 1.3872
Batch 103/248, train_loss: 0.6732, step time: 1.3779
Batch 104/248, train_loss: 0.4122, step time: 1.3670
Batch 105/248, train_loss: 0.0812, step time: 1.3607
Batch 106/248, train_loss: 0.1881, step time: 1.3882
Batch 107/248, train_loss: 0.7081, step time: 1.3790
Batch 108/248, train_loss: 0.5987, step time: 1.3915
Batch 109/248, train_loss: 0.9936, step time: 1.3892
Batch 110/248, train_loss: 0.4714, step time: 1.3991
Batch 111/248, train_loss: 0.1452, step time: 1.3597
Batch 112/248, train_loss: 0.2232, step time: 1.3741
Batch 113/248, train_loss: 0.8641, step time: 1.3778
Batch 114/248, train_loss: 0.1424, step time: 1.3954
Batch 115/248, train_loss: 0.1557, step time: 1.3720
Batch 116/248, train_loss: 0.0788, step time: 1.3826
Batch 117/248, train_loss: 0.7894, step time: 1.3653
Batch 118/248, train_loss: 0.6686, step time: 1.3839
Batch 119/248, train_loss: 0.3379, step time: 1.3606
Batch 120/248, train_loss: 0.2458, step time: 1.3840
Batch 121/248, train_loss: 0.3095, step time: 1.4067
Batch 122/248, train_loss: 0.4655, step time: 1.3888
Batch 123/248, train_loss: 0.0801, step time: 1.3785
Batch 124/248, train_loss: 0.2952, step time: 1.3734
Batch 125/248, train_loss: 0.5268, step time: 1.3780
Batch 126/248, train_loss: 0.4425, step time: 1.4033
Batch 127/248, train_loss: 0.1276, step time: 1.3775
Batch 128/248, train_loss: 0.1884, step time: 1.3632
Batch 129/248, train_loss: 0.1347, step time: 1.3647
Batch 130/248, train_loss: 0.1248, step time: 1.3761
Batch 131/248, train_loss: 0.4756, step time: 1.3922
Batch 132/248, train_loss: 0.1773, step time: 1.3662
Batch 133/248, train_loss: 0.2128, step time: 1.3692
Batch 134/248, train_loss: 0.8957, step time: 1.3962
Batch 135/248, train_loss: 0.3746, step time: 1.4043
Batch 136/248, train_loss: 0.1678, step time: 1.3817
Batch 137/248, train_loss: 0.1452, step time: 1.3885
Batch 138/248, train_loss: 0.0994, step time: 1.3855
Batch 139/248, train_loss: 0.1713, step time: 1.3892
Batch 140/248, train_loss: 0.2041, step time: 1.3796
Batch 141/248, train_loss: 0.1733, step time: 1.3684
Batch 142/248, train_loss: 0.7111, step time: 1.3951
Batch 143/248, train_loss: 0.3889, step time: 1.4006
Batch 144/248, train_loss: 0.1302, step time: 1.3868
Batch 145/248, train_loss: 0.0659, step time: 1.3564
Batch 146/248, train_loss: 0.5755, step time: 1.3792
Batch 147/248, train_loss: 0.0645, step time: 1.3572
Batch 148/248, train_loss: 0.9235, step time: 1.4015
Batch 149/248, train_loss: 0.1543, step time: 1.3701
Batch 150/248, train_loss: 0.5942, step time: 1.3979
Batch 151/248, train_loss: 0.5986, step time: 1.3904
Batch 152/248, train_loss: 0.0448, step time: 1.4013
Batch 153/248, train_loss: 0.3165, step time: 1.4148
Batch 154/248, train_loss: 0.5944, step time: 1.3738

```
Batch 155/248, train_loss: 0.1118, step time: 1.3682
Batch 156/248, train_loss: 0.1634, step time: 1.3661
Batch 157/248, train_loss: 0.3008, step time: 1.3595
Batch 158/248, train_loss: 0.9739, step time: 1.3644
Batch 159/248, train_loss: 0.6180, step time: 1.3945
Batch 160/248, train_loss: 0.1204, step time: 1.3644
Batch 161/248, train_loss: 0.1074, step time: 1.3678
Batch 162/248, train_loss: 0.1003, step time: 1.3946
Batch 163/248, train_loss: 0.1340, step time: 1.3789
Batch 164/248, train_loss: 0.3056, step time: 1.3653
Batch 165/248, train_loss: 0.8763, step time: 1.3923
Batch 166/248, train_loss: 0.1217, step time: 1.3755
Batch 167/248, train_loss: 0.1851, step time: 1.3903
Batch 168/248, train_loss: 0.1731, step time: 1.3740
Batch 169/248, train_loss: 0.1093, step time: 1.3735
Batch 170/248, train_loss: 0.6776, step time: 1.3673
Batch 171/248, train_loss: 0.0882, step time: 1.3587
Batch 172/248, train_loss: 0.5363, step time: 1.3891
Batch 173/248, train_loss: 0.0712, step time: 1.3656
Batch 174/248, train_loss: 0.7715, step time: 1.3836
Batch 175/248, train_loss: 0.2952, step time: 1.3600
Batch 176/248, train_loss: 0.4171, step time: 1.4078
Batch 177/248, train_loss: 0.5240, step time: 1.4039
Batch 178/248, train_loss: 0.3101, step time: 1.3705
Batch 179/248, train_loss: 0.0798, step time: 1.3636
Batch 180/248, train_loss: 0.4352, step time: 1.3800
Batch 181/248, train_loss: 0.1051, step time: 1.3570
Batch 182/248, train_loss: 0.9117, step time: 1.3716
Batch 183/248, train_loss: 0.1497, step time: 1.3858
Batch 184/248, train_loss: 0.2762, step time: 1.3745
Batch 185/248, train_loss: 0.1248, step time: 1.3715
Batch 186/248, train_loss: 0.0989, step time: 1.3623
Batch 187/248, train_loss: 0.2093, step time: 1.3998
Batch 188/248, train_loss: 0.2538, step time: 1.3992
Batch 189/248, train_loss: 0.6177, step time: 1.3706
Batch 190/248, train_loss: 0.1802, step time: 1.3903
Batch 191/248, train_loss: 0.7369, step time: 1.4029
Batch 192/248, train_loss: 0.2279, step time: 1.3602
Batch 193/248, train_loss: 0.2547, step time: 1.3599
Batch 194/248, train_loss: 0.0997, step time: 1.3743
Batch 195/248, train_loss: 0.6631, step time: 1.3884
Batch 196/248, train_loss: 0.9948, step time: 1.3659
Batch 197/248, train_loss: 0.1889, step time: 1.3758
Batch 198/248, train_loss: 0.9737, step time: 1.3984
Batch 199/248, train_loss: 0.1599, step time: 1.3799
Batch 200/248, train_loss: 0.1722, step time: 1.3663
Batch 201/248, train_loss: 0.1210, step time: 1.3667
Batch 202/248, train_loss: 0.4815, step time: 1.3793
Batch 203/248, train_loss: 0.4395, step time: 1.3679
Batch 204/248, train_loss: 0.1244, step time: 1.3818
Batch 205/248, train_loss: 0.2951, step time: 1.3872
Batch 206/248, train_loss: 0.5207, step time: 1.3708
Batch 207/248, train_loss: 0.1286, step time: 1.3885
Batch 208/248, train_loss: 0.1740, step time: 1.3670
Batch 209/248, train_loss: 0.1343, step time: 1.3517
Batch 210/248, train_loss: 0.0919, step time: 1.3651
Batch 211/248, train_loss: 0.1006, step time: 1.3846
Batch 212/248, train_loss: 0.2783, step time: 1.3726
Batch 213/248, train_loss: 0.1936, step time: 1.3597
Batch 214/248, train_loss: 0.0822, step time: 1.3558
Batch 215/248, train_loss: 0.3352, step time: 1.3772
Batch 216/248, train_loss: 0.1947, step time: 1.3638
Batch 217/248, train_loss: 0.7121, step time: 1.3772
Batch 218/248, train_loss: 0.8593, step time: 1.3992
Batch 219/248, train_loss: 0.0787, step time: 1.3631
Batch 220/248, train_loss: 0.2117, step time: 1.3710
Batch 221/248, train_loss: 0.2507, step time: 1.3586
Batch 222/248, train_loss: 0.2250, step time: 1.3768
Batch 223/248, train_loss: 0.0646, step time: 1.3705
Batch 224/248, train_loss: 0.0928, step time: 1.3507
Batch 225/248, train_loss: 0.4967, step time: 1.3905
Batch 226/248, train_loss: 0.1518, step time: 1.3627
Batch 227/248, train_loss: 0.1122, step time: 1.3670
Batch 228/248, train_loss: 0.1599, step time: 1.3658
Batch 229/248, train_loss: 0.2107, step time: 1.3786
Batch 230/248, train_loss: 0.1182, step time: 1.3889
Batch 231/248, train_loss: 0.9645, step time: 1.3942
Batch 232/248, train_loss: 0.0650, step time: 1.3846
Batch 233/248, train_loss: 0.9875, step time: 1.3788
Batch 234/248, train_loss: 0.4263, step time: 1.3678
Batch 235/248, train_loss: 0.2712, step time: 1.3863
Batch 236/248, train_loss: 0.7733, step time: 1.3812
Batch 237/248, train_loss: 0.1179, step time: 1.3688
Batch 238/248, train_loss: 0.0997, step time: 1.3605
Batch 239/248, train_loss: 0.0718, step time: 1.3651
```

```
Batch 240/248, train_loss: 0.5910, step time: 1.3765
Batch 241/248, train_loss: 0.9294, step time: 1.4030
Batch 242/248, train_loss: 0.1480, step time: 1.3791
Batch 243/248, train_loss: 0.4433, step time: 1.3813
Batch 244/248, train_loss: 0.4510, step time: 1.3681
Batch 245/248, train_loss: 0.0745, step time: 1.3710
Batch 246/248, train_loss: 0.6129, step time: 1.3946
Batch 247/248, train_loss: 0.0849, step time: 1.3813
Batch 248/248, train_loss: 0.9996, step time: 1.3778
```

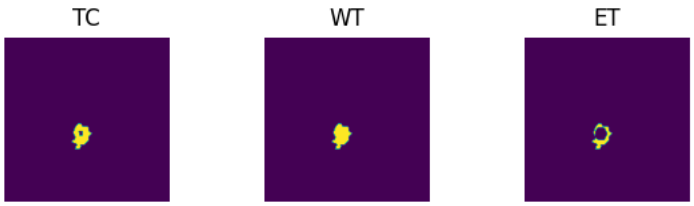
Labels

Predictions

VAL

```
Batch 1/31, val_loss: 0.8445
Batch 2/31, val_loss: 0.9950
Batch 3/31, val_loss: 0.9727
Batch 4/31, val_loss: 0.9467
Batch 5/31, val_loss: 0.9947
Batch 6/31, val_loss: 0.7131
Batch 7/31, val_loss: 0.8668
Batch 8/31, val_loss: 0.9645
Batch 9/31, val_loss: 0.7046
Batch 10/31, val_loss: 0.9152
Batch 11/31, val_loss: 0.8215
Batch 12/31, val_loss: 0.9747
Batch 13/31, val_loss: 0.9927
Batch 14/31, val_loss: 0.9475
Batch 15/31, val_loss: 0.9871
Batch 16/31, val_loss: 0.9720
Batch 17/31, val_loss: 0.9769
Batch 18/31, val_loss: 0.9448
Batch 19/31, val_loss: 0.7490
Batch 20/31, val_loss: 0.8834
Batch 21/31, val_loss: 0.8927
Batch 22/31, val_loss: 0.9738
Batch 23/31, val_loss: 0.9724
Batch 24/31, val_loss: 0.7621
Batch 25/31, val_loss: 0.8024
Batch 26/31, val_loss: 0.9296
Batch 27/31, val_loss: 0.9789
Batch 28/31, val_loss: 0.7510
Batch 29/31, val_loss: 0.9815
Batch 30/31, val_loss: 0.9654
Batch 31/31, val_loss: 0.9749
```

Labels



Predictions



```
epoch 33
   average train loss: 0.3439
   average validation loss: 0.9081
   saved as best model: False
   current mean dice: 0.5578
   current TC dice: 0.5890
   current WT dice: 0.5980
   current ET dice: 0.5286
Best Mean Metric: 0.5675
time consuming of epoch 33 is: 1700.2067
----------
epoch 34/100
TRAIN
   Batch 1/248, train_loss: 0.0810, step time: 1.4103
   Batch 2/248, train_loss: 0.7873, step time: 1.3833
   Batch 3/248, train_loss: 0.3392, step time: 1.3693
   Batch 4/248, train_loss: 0.9841, step time: 1.3811
   Batch 5/248, train_loss: 0.3019, step time: 1.3934
   Batch 6/248, train_loss: 0.2515, step time: 1.3789
   Batch 7/248, train_loss: 0.0880, step time: 1.3941
   Batch 8/248, train_loss: 0.7293, step time: 1.3920
   Batch 9/248, train_loss: 0.0495, step time: 1.3860
   Batch 10/248, train_loss: 0.2550, step time: 1.3929
   Batch 11/248, train_loss: 0.2362, step time: 1.3959
   Batch 12/248, train_loss: 0.4000, step time: 1.3705
   Batch 13/248, train_loss: 0.3626, step time: 1.4048
   Batch 14/248, train_loss: 0.0595, step time: 1.3868
   Batch 15/248, train_loss: 0.3606, step time: 1.3790
   Batch 16/248, train_loss: 0.1651, step time: 1.3688
   Batch 17/248, train_loss: 0.3814, step time: 1.4029
   Batch 18/248, train_loss: 0.3148, step time: 1.3828
   Batch 19/248, train_loss: 0.1497, step time: 1.3987
   Batch 20/248, train_loss: 0.1651, step time: 1.3934
   Batch 21/248, train_loss: 0.0575, step time: 1.3834
   Batch 22/248, train_loss: 0.9940, step time: 1.3597
   Batch 23/248, train_loss: 0.8805, step time: 1.3805
   Batch 24/248, train_loss: 0.1030, step time: 1.3796
   Batch 25/248, train_loss: 0.0591, step time: 1.3664
   Batch 26/248, train_loss: 0.4284, step time: 1.3883
   Batch 27/248, train_loss: 0.0628, step time: 1.3555
   Batch 28/248, train_loss: 0.1656, step time: 1.3671
   Batch 29/248, train_loss: 0.3820, step time: 1.3805
   Batch 30/248, train_loss: 0.2294, step time: 1.3883
   Batch 31/248, train_loss: 0.2993, step time: 1.3726
   Batch 32/248, train_loss: 0.1196, step time: 1.3558
   Batch 33/248, train_loss: 0.0931, step time: 1.3507
   Batch 34/248, train_loss: 0.0456, step time: 1.3449
   Batch 35/248, train_loss: 0.0562, step time: 1.3485
   Batch 36/248, train_loss: 0.9422, step time: 1.3625
   Batch 37/248, train_loss: 0.1509, step time: 1.3849
   Batch 38/248, train_loss: 0.3118, step time: 1.3960
   Batch 39/248, train_loss: 0.1944, step time: 1.3804
   Batch 40/248, train_loss: 0.9274, step time: 1.3950
   Batch 41/248, train_loss: 0.3057, step time: 1.3704
   Batch 42/248, train_loss: 0.0703, step time: 1.3733
   Batch 43/248, train_loss: 0.0752, step time: 1.4037
   Batch 44/248, train_loss: 0.1320, step time: 1.3915
   Batch 45/248, train_loss: 0.6473, step time: 1.3929
   Batch 46/248, train_loss: 0.1689, step time: 1.3681
   Batch 47/248, train_loss: 0.0924, step time: 1.3842
   Batch 48/248, train_loss: 0.2251, step time: 1.3764
   Batch 49/248, train_loss: 0.4305, step time: 1.3588
   Batch 50/248, train_loss: 0.1511, step time: 1.3546
   Batch 51/248, train_loss: 0.1591, step time: 1.3730
   Batch 52/248, train_loss: 0.1299, step time: 1.3645
   Batch 53/248, train_loss: 0.3889, step time: 1.3601
   Batch 54/248, train_loss: 0.2619, step time: 1.3664
   Batch 55/248, train_loss: 0.2648, step time: 1.3719
   Batch 56/248, train_loss: 0.2423, step time: 1.3826
   Batch 57/248, train_loss: 0.2197, step time: 1.3611
   Batch 58/248, train_loss: 0.0734, step time: 1.3598
   Batch 59/248, train_loss: 0.0990, step time: 1.3686
   Batch 60/248, train_loss: 0.0790, step time: 1.3765
   Batch 61/248, train_loss: 0.0834, step time: 1.3876
   Batch 62/248, train_loss: 0.2745, step time: 1.3732
   Batch 63/248, train_loss: 0.4223, step time: 1.3623
   Batch 64/248, train_loss: 0.3963, step time: 1.3926
   Batch 65/248, train_loss: 0.2585, step time: 1.3651
   Batch 66/248, train_loss: 0.1652, step time: 1.3779
   Batch 67/248, train_loss: 0.0754, step time: 1.3753
   Batch 68/248, train_loss: 0.1097, step time: 1.3680
   Batch 69/248, train_loss: 0.7653, step time: 1.3888
```

Batch 70/248, train_loss: 0.1715, step time: 1.3609
Batch 71/248, train_loss: 0.1323, step time: 1.3903
Batch 72/248, train_loss: 0.0784, step time: 1.3855
Batch 73/248, train_loss: 0.3570, step time: 1.3872
Batch 74/248, train_loss: 0.9906, step time: 1.3543
Batch 75/248, train_loss: 0.1084, step time: 1.3839
Batch 76/248, train_loss: 0.6866, step time: 1.4125
Batch 77/248, train_loss: 0.8153, step time: 1.3704
Batch 78/248, train_loss: 0.1647, step time: 1.3861
Batch 79/248, train_loss: 0.1398, step time: 1.3683
Batch 80/248, train_loss: 0.1996, step time: 1.4036
Batch 81/248, train_loss: 0.1589, step time: 1.3793
Batch 82/248, train_loss: 0.1059, step time: 1.3707
Batch 83/248, train_loss: 0.5745, step time: 1.3812
Batch 84/248, train_loss: 0.3547, step time: 1.3750
Batch 85/248, train_loss: 0.3952, step time: 1.3758
Batch 86/248, train_loss: 0.5707, step time: 1.3996
Batch 87/248, train_loss: 0.7477, step time: 1.3763
Batch 88/248, train_loss: 0.4088, step time: 1.3732
Batch 89/248, train_loss: 0.1129, step time: 1.3633
Batch 90/248, train_loss: 0.6728, step time: 1.3986
Batch 91/248, train_loss: 0.3802, step time: 1.3725
Batch 92/248, train_loss: 0.9299, step time: 1.3664
Batch 93/248, train_loss: 0.1690, step time: 1.3940
Batch 94/248, train_loss: 0.2686, step time: 1.3798
Batch 95/248, train_loss: 0.1808, step time: 1.3810
Batch 96/248, train_loss: 0.2221, step time: 1.3743
Batch 97/248, train_loss: 0.7651, step time: 1.3966
Batch 98/248, train_loss: 0.1346, step time: 1.3977
Batch 99/248, train_loss: 0.4522, step time: 1.3734
Batch 100/248, train_loss: 0.3364, step time: 1.3719
Batch 101/248, train_loss: 0.0705, step time: 1.3654
Batch 102/248, train_loss: 0.1291, step time: 1.3575
Batch 103/248, train_loss: 0.4129, step time: 1.3736
Batch 104/248, train_loss: 0.3571, step time: 1.3963
Batch 105/248, train_loss: 0.0769, step time: 1.3869
Batch 106/248, train_loss: 0.2951, step time: 1.3919
Batch 107/248, train_loss: 0.2185, step time: 1.3898
Batch 108/248, train_loss: 0.5388, step time: 1.3759
Batch 109/248, train_loss: 0.9521, step time: 1.3866
Batch 110/248, train_loss: 0.8777, step time: 1.4016
Batch 111/248, train_loss: 0.1301, step time: 1.3803
Batch 112/248, train_loss: 0.1342, step time: 1.4032
Batch 113/248, train_loss: 0.6918, step time: 1.3831
Batch 114/248, train_loss: 0.1423, step time: 1.3817
Batch 115/248, train_loss: 0.1543, step time: 1.3615
Batch 116/248, train_loss: 0.0733, step time: 1.3629
Batch 117/248, train_loss: 0.7466, step time: 1.3705
Batch 118/248, train_loss: 0.2490, step time: 1.3653
Batch 119/248, train_loss: 0.3277, step time: 1.3650
Batch 120/248, train_loss: 0.2357, step time: 1.3664
Batch 121/248, train_loss: 0.3100, step time: 1.3716
Batch 122/248, train_loss: 0.4621, step time: 1.3732
Batch 123/248, train_loss: 0.0799, step time: 1.3948
Batch 124/248, train_loss: 0.3425, step time: 1.3698
Batch 125/248, train_loss: 0.5175, step time: 1.4049
Batch 126/248, train_loss: 0.2734, step time: 1.3903
Batch 127/248, train_loss: 0.1581, step time: 1.3920
Batch 128/248, train_loss: 0.2059, step time: 1.3821
Batch 129/248, train_loss: 0.1050, step time: 1.3657
Batch 130/248, train_loss: 0.1145, step time: 1.3553
Batch 131/248, train_loss: 0.4796, step time: 1.3747
Batch 132/248, train_loss: 0.2504, step time: 1.3860
Batch 133/248, train_loss: 0.1940, step time: 1.3822
Batch 134/248, train_loss: 0.9719, step time: 1.3928
Batch 135/248, train_loss: 0.2127, step time: 1.3991
Batch 136/248, train_loss: 0.1472, step time: 1.3622
Batch 137/248, train_loss: 0.2097, step time: 1.3730
Batch 138/248, train_loss: 0.1503, step time: 1.3635
Batch 139/248, train_loss: 0.1533, step time: 1.3641
Batch 140/248, train_loss: 0.1904, step time: 1.3688
Batch 141/248, train_loss: 0.2002, step time: 1.3695
Batch 142/248, train_loss: 0.7200, step time: 1.3840
Batch 143/248, train_loss: 0.2679, step time: 1.3676
Batch 144/248, train_loss: 0.1424, step time: 1.3850
Batch 145/248, train_loss: 0.0640, step time: 1.3828
Batch 146/248, train_loss: 0.4924, step time: 1.3938
Batch 147/248, train_loss: 0.0553, step time: 1.3692
Batch 148/248, train_loss: 0.8748, step time: 1.3993
Batch 149/248, train_loss: 0.1367, step time: 1.3570
Batch 150/248, train_loss: 0.6233, step time: 1.3845
Batch 151/248, train_loss: 0.3003, step time: 1.3916
Batch 152/248, train_loss: 0.0505, step time: 1.3915
Batch 153/248, train_loss: 0.2719, step time: 1.4120
Batch 154/248, train_loss: 0.5841, step time: 1.3747

```
Batch 155/248, train_loss: 0.1099, step time: 1.4032
Batch 156/248, train_loss: 0.1908, step time: 1.3851
Batch 157/248, train_loss: 0.3477, step time: 1.3946
Batch 158/248, train_loss: 0.9725, step time: 1.3979
Batch 159/248, train_loss: 0.6232, step time: 1.3745
Batch 160/248, train_loss: 0.0943, step time: 1.3627
Batch 161/248, train_loss: 0.0775, step time: 1.3816
Batch 162/248, train_loss: 0.0794, step time: 1.3712
Batch 163/248, train_loss: 0.1742, step time: 1.4000
Batch 164/248, train_loss: 0.3196, step time: 1.3644
Batch 165/248, train_loss: 0.6356, step time: 1.3805
Batch 166/248, train_loss: 0.1174, step time: 1.3920
Batch 167/248, train_loss: 0.2054, step time: 1.4006
Batch 168/248, train_loss: 0.1680, step time: 1.4040
Batch 169/248, train_loss: 0.0924, step time: 1.3860
Batch 170/248, train_loss: 0.6889, step time: 1.4007
Batch 171/248, train_loss: 0.0857, step time: 1.3932
Batch 172/248, train_loss: 0.7162, step time: 1.3853
Batch 173/248, train_loss: 0.1192, step time: 1.3634
Batch 174/248, train_loss: 0.5491, step time: 1.3690
Batch 175/248, train_loss: 0.3404, step time: 1.3982
Batch 176/248, train_loss: 0.4175, step time: 1.4017
Batch 177/248, train_loss: 0.3637, step time: 1.3889
Batch 178/248, train_loss: 0.5408, step time: 1.3995
Batch 179/248, train_loss: 0.0753, step time: 1.3599
Batch 180/248, train_loss: 0.3709, step time: 1.3641
Batch 181/248, train_loss: 0.0960, step time: 1.3630
Batch 182/248, train_loss: 0.9306, step time: 1.3751
Batch 183/248, train_loss: 0.1442, step time: 1.3635
Batch 184/248, train_loss: 0.2387, step time: 1.4052
Batch 185/248, train_loss: 0.1616, step time: 1.3618
Batch 186/248, train_loss: 0.1231, step time: 1.3964
Batch 187/248, train_loss: 0.2211, step time: 1.3841
Batch 188/248, train_loss: 0.2300, step time: 1.3948
Batch 189/248, train_loss: 0.5544, step time: 1.3807
Batch 190/248, train_loss: 0.1462, step time: 1.3696
Batch 191/248, train_loss: 0.7002, step time: 1.3733
Batch 192/248, train_loss: 0.3442, step time: 1.3793
Batch 193/248, train_loss: 0.2741, step time: 1.3722
Batch 194/248, train_loss: 0.0980, step time: 1.3555
Batch 195/248, train_loss: 0.6422, step time: 1.3799
Batch 196/248, train_loss: 0.9992, step time: 1.3625
Batch 197/248, train_loss: 0.1926, step time: 1.3762
Batch 198/248, train_loss: 0.9983, step time: 1.3561
Batch 199/248, train_loss: 0.1546, step time: 1.3632
Batch 200/248, train_loss: 0.1372, step time: 1.3624
Batch 201/248, train_loss: 0.1194, step time: 1.3600
Batch 202/248, train_loss: 0.4743, step time: 1.3614
Batch 203/248, train_loss: 0.5683, step time: 1.4021
Batch 204/248, train_loss: 0.0943, step time: 1.3548
Batch 205/248, train_loss: 0.2802, step time: 1.4026
Batch 206/248, train_loss: 0.5613, step time: 1.3711
Batch 207/248, train_loss: 0.1493, step time: 1.3679
Batch 208/248, train_loss: 0.1946, step time: 1.3689
Batch 209/248, train_loss: 0.1348, step time: 1.3870
Batch 210/248, train_loss: 0.0689, step time: 1.3572
Batch 211/248, train_loss: 0.0811, step time: 1.3545
Batch 212/248, train_loss: 0.2669, step time: 1.3953
Batch 213/248, train_loss: 0.2005, step time: 1.3571
Batch 214/248, train_loss: 0.0992, step time: 1.3838
Batch 215/248, train_loss: 0.3463, step time: 1.3712
Batch 216/248, train_loss: 0.2980, step time: 1.3910
Batch 217/248, train_loss: 0.2962, step time: 1.3746
Batch 218/248, train_loss: 0.7824, step time: 1.3952
Batch 219/248, train_loss: 0.0987, step time: 1.3974
Batch 220/248, train_loss: 0.2183, step time: 1.3817
Batch 221/248, train_loss: 0.2793, step time: 1.3928
Batch 222/248, train_loss: 0.3168, step time: 1.3844
Batch 223/248, train_loss: 0.0517, step time: 1.3899
Batch 224/248, train_loss: 0.0970, step time: 1.3514
Batch 225/248, train_loss: 0.7089, step time: 1.3810
Batch 226/248, train_loss: 0.4310, step time: 1.3693
Batch 227/248, train_loss: 0.0871, step time: 1.3871
Batch 228/248, train_loss: 0.1733, step time: 1.3768
Batch 229/248, train_loss: 0.1162, step time: 1.3824
Batch 230/248, train_loss: 0.1181, step time: 1.3815
Batch 231/248, train_loss: 0.9240, step time: 1.3944
Batch 232/248, train_loss: 0.0930, step time: 1.3734
Batch 233/248, train_loss: 0.9741, step time: 1.3661
Batch 234/248, train_loss: 0.4491, step time: 1.3883
Batch 235/248, train_loss: 0.2535, step time: 1.3784
Batch 236/248, train_loss: 0.7960, step time: 1.3757
Batch 237/248, train_loss: 0.1460, step time: 1.3943
Batch 238/248, train_loss: 0.0976, step time: 1.3709
Batch 239/248, train_loss: 0.2137, step time: 1.4027
```

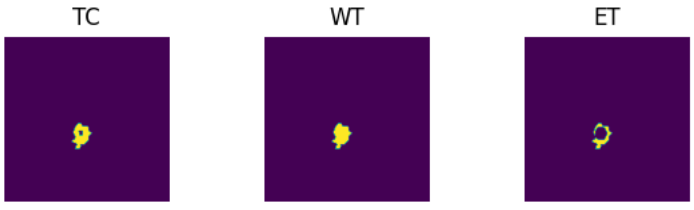
```
Batch 240/248, train_loss: 0.5584, step time: 1.3863
Batch 241/248, train_loss: 0.9728, step time: 1.3638
Batch 242/248, train_loss: 0.1676, step time: 1.3852
Batch 243/248, train_loss: 0.4339, step time: 1.3753
Batch 244/248, train_loss: 0.6192, step time: 1.3925
Batch 245/248, train_loss: 0.0910, step time: 1.3737
Batch 246/248, train_loss: 0.6542, step time: 1.3901
Batch 247/248, train_loss: 0.1120, step time: 1.3684
Batch 248/248, train_loss: 0.9996, step time: 1.3634
```

Labels

Predictions

```
VAL
   Batch 1/31, val_loss: 0.8520
   Batch 2/31, val_loss: 0.9942
   Batch 3/31, val_loss: 0.9699
   Batch 4/31, val_loss: 0.9463
   Batch 5/31, val_loss: 0.9925
   Batch 6/31, val_loss: 0.7512
   Batch 7/31, val_loss: 0.9203
   Batch 8/31, val_loss: 0.9477
   Batch 9/31, val_loss: 0.7198
   Batch 10/31, val_loss: 0.9190
   Batch 11/31, val_loss: 0.8274
   Batch 12/31, val_loss: 0.9734
   Batch 13/31, val_loss: 0.9960
   Batch 14/31, val_loss: 0.9370
   Batch 15/31, val_loss: 0.9881
   Batch 16/31, val_loss: 0.9733
   Batch 17/31, val_loss: 0.9680
   Batch 18/31, val_loss: 0.9415
   Batch 19/31, val_loss: 0.7478
   Batch 20/31, val_loss: 0.8995
   Batch 21/31, val_loss: 0.9221
   Batch 22/31, val_loss: 0.9708
   Batch 23/31, val_loss: 0.9716
   Batch 24/31, val_loss: 0.7706
   Batch 25/31, val_loss: 0.8010
   Batch 26/31, val_loss: 0.9363
   Batch 27/31, val_loss: 0.9806
   Batch 28/31, val_loss: 0.7492
   Batch 29/31, val_loss: 0.9848
   Batch 30/31, val_loss: 0.9673
   Batch 31/31, val_loss: 0.9771
```

Labels



Predictions

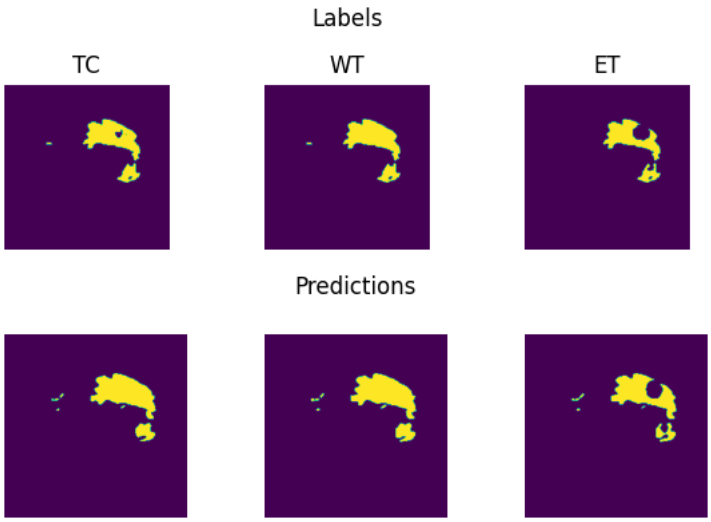


```
epoch 34
   average train loss: 0.3257
   average validation loss: 0.9128
   saved as best model: False
   current mean dice: 0.5333
   current TC dice: 0.5675
   current WT dice: 0.5770
   current ET dice: 0.4939
Best Mean Metric: 0.5675
time consuming of epoch 34 is: 1691.4901
----------
epoch 35/100
TRAIN
   Batch 1/248, train_loss: 0.1294, step time: 1.4379
   Batch 2/248, train_loss: 0.8225, step time: 1.4017
   Batch 3/248, train_loss: 0.3547, step time: 1.3939
   Batch 4/248, train_loss: 0.9780, step time: 1.3773
   Batch 5/248, train_loss: 0.3587, step time: 1.3677
   Batch 6/248, train_loss: 0.3527, step time: 1.3902
   Batch 7/248, train_loss: 0.0791, step time: 1.3749
   Batch 8/248, train_loss: 0.6155, step time: 1.3674
   Batch 9/248, train_loss: 0.0447, step time: 1.3775
   Batch 10/248, train_loss: 0.3014, step time: 1.3715
   Batch 11/248, train_loss: 0.2693, step time: 1.3852
   Batch 12/248, train_loss: 0.4892, step time: 1.3742
   Batch 13/248, train_loss: 0.2700, step time: 1.3790
   Batch 14/248, train_loss: 0.0555, step time: 1.3776
   Batch 15/248, train_loss: 0.3540, step time: 1.3706
   Batch 16/248, train_loss: 0.1854, step time: 1.3929
   Batch 17/248, train_loss: 0.3350, step time: 1.4041
   Batch 18/248, train_loss: 0.3929, step time: 1.3913
   Batch 19/248, train_loss: 0.1242, step time: 1.3874
   Batch 20/248, train_loss: 0.1593, step time: 1.3781
   Batch 21/248, train_loss: 0.0638, step time: 1.3820
   Batch 22/248, train_loss: 0.9483, step time: 1.3914
   Batch 23/248, train_loss: 0.7367, step time: 1.3803
   Batch 24/248, train_loss: 0.1260, step time: 1.3685
   Batch 25/248, train_loss: 0.0681, step time: 1.3611
   Batch 26/248, train_loss: 0.5884, step time: 1.3881
   Batch 27/248, train_loss: 0.0676, step time: 1.3809
   Batch 28/248, train_loss: 0.1762, step time: 1.3896
   Batch 29/248, train_loss: 0.4098, step time: 1.3622
   Batch 30/248, train_loss: 0.2744, step time: 1.3565
   Batch 31/248, train_loss: 0.3403, step time: 1.3536
   Batch 32/248, train_loss: 0.0926, step time: 1.3668
   Batch 33/248, train_loss: 0.1223, step time: 1.3771
   Batch 34/248, train_loss: 0.0560, step time: 1.3696
   Batch 35/248, train_loss: 0.0805, step time: 1.3568
   Batch 36/248, train_loss: 0.5597, step time: 1.3772
   Batch 37/248, train_loss: 0.2200, step time: 1.3898
   Batch 38/248, train_loss: 0.3029, step time: 1.3652
   Batch 39/248, train_loss: 0.1775, step time: 1.3456
   Batch 40/248, train_loss: 0.9474, step time: 1.3842
   Batch 41/248, train_loss: 0.2685, step time: 1.3998
   Batch 42/248, train_loss: 0.0880, step time: 1.3602
   Batch 43/248, train_loss: 0.0807, step time: 1.3983
   Batch 44/248, train_loss: 0.1313, step time: 1.3759
   Batch 45/248, train_loss: 0.6781, step time: 1.3691
   Batch 46/248, train_loss: 0.1492, step time: 1.3500
   Batch 47/248, train_loss: 0.1035, step time: 1.3770
   Batch 48/248, train_loss: 0.3166, step time: 1.3874
   Batch 49/248, train_loss: 0.5111, step time: 1.3537
   Batch 50/248, train_loss: 0.1526, step time: 1.3531
   Batch 51/248, train_loss: 0.2888, step time: 1.3897
   Batch 52/248, train_loss: 0.1640, step time: 1.3669
   Batch 53/248, train_loss: 0.4101, step time: 1.3586
   Batch 54/248, train_loss: 0.2639, step time: 1.3585
   Batch 55/248, train_loss: 0.3014, step time: 1.3541
   Batch 56/248, train_loss: 0.1785, step time: 1.3578
   Batch 57/248, train_loss: 0.2358, step time: 1.3687
   Batch 58/248, train_loss: 0.0732, step time: 1.3639
   Batch 59/248, train_loss: 0.0996, step time: 1.3555
   Batch 60/248, train_loss: 0.0678, step time: 1.3449
   Batch 61/248, train_loss: 0.1093, step time: 1.3609
   Batch 62/248, train_loss: 0.2775, step time: 1.3521
   Batch 63/248, train_loss: 0.4450, step time: 1.3746
   Batch 64/248, train_loss: 0.5572, step time: 1.3809
   Batch 65/248, train_loss: 0.4027, step time: 1.3706
   Batch 66/248, train_loss: 0.1497, step time: 1.3776
   Batch 67/248, train_loss: 0.0846, step time: 1.3342
   Batch 68/248, train_loss: 0.1149, step time: 1.3417
   Batch 69/248, train_loss: 0.6441, step time: 1.3638
```

```
Batch 70/248, train_loss: 0.1819, step time: 1.3387
Batch 71/248, train_loss: 0.1800, step time: 1.3779
Batch 72/248, train_loss: 0.0673, step time: 1.3620
Batch 73/248, train_loss: 0.1057, step time: 1.3406
Batch 74/248, train_loss: 0.9910, step time: 1.3496
Batch 75/248, train_loss: 0.1187, step time: 1.3458
Batch 76/248, train_loss: 0.7157, step time: 1.3577
Batch 77/248, train_loss: 0.8464, step time: 1.3605
Batch 78/248, train_loss: 0.1458, step time: 1.3647
Batch 79/248, train_loss: 0.1694, step time: 1.3416
Batch 80/248, train_loss: 0.2380, step time: 1.3657
Batch 81/248, train_loss: 0.1477, step time: 1.3585
Batch 82/248, train_loss: 0.1040, step time: 1.3679
Batch 83/248, train_loss: 0.5383, step time: 1.3643
Batch 84/248, train_loss: 0.2946, step time: 1.3498
Batch 85/248, train_loss: 0.3954, step time: 1.3474
Batch 86/248, train_loss: 0.2199, step time: 1.3360
Batch 87/248, train_loss: 0.8550, step time: 1.3678
Batch 88/248, train_loss: 0.3520, step time: 1.3564
Batch 89/248, train_loss: 0.0743, step time: 1.3329
Batch 90/248, train_loss: 0.2504, step time: 1.3572
Batch 91/248, train_loss: 0.3994, step time: 1.3537
Batch 92/248, train_loss: 0.9068, step time: 1.3643
Batch 93/248, train_loss: 0.1478, step time: 1.3648
Batch 94/248, train_loss: 0.3182, step time: 1.3656
Batch 95/248, train_loss: 0.1936, step time: 1.3659
Batch 96/248, train_loss: 0.1513, step time: 1.3562
Batch 97/248, train_loss: 0.6499, step time: 1.3549
Batch 98/248, train_loss: 0.1024, step time: 1.3399
Batch 99/248, train_loss: 0.3519, step time: 1.3522
Batch 100/248, train_loss: 0.2982, step time: 1.3855
Batch 101/248, train_loss: 0.0480, step time: 1.3560
Batch 102/248, train_loss: 0.1085, step time: 1.3532
Batch 103/248, train_loss: 0.3158, step time: 1.3534
Batch 104/248, train_loss: 0.3305, step time: 1.3686
Batch 105/248, train_loss: 0.0896, step time: 1.3398
Batch 106/248, train_loss: 0.1512, step time: 1.3468
Batch 107/248, train_loss: 0.7509, step time: 1.3647
Batch 108/248, train_loss: 0.8678, step time: 1.3949
Batch 109/248, train_loss: 0.9420, step time: 1.3505
Batch 110/248, train_loss: 0.9499, step time: 1.3785
Batch 111/248, train_loss: 0.8555, step time: 1.3649
Batch 112/248, train_loss: 0.1593, step time: 1.3965
Batch 113/248, train_loss: 0.6990, step time: 1.4047
Batch 114/248, train_loss: 0.1391, step time: 1.3596
Batch 115/248, train_loss: 0.1195, step time: 1.3650
Batch 116/248, train_loss: 0.0733, step time: 1.3611
Batch 117/248, train_loss: 0.8480, step time: 1.3678
Batch 118/248, train_loss: 0.2672, step time: 1.3972
Batch 119/248, train_loss: 0.3000, step time: 1.3672
Batch 120/248, train_loss: 0.2148, step time: 1.3729
Batch 121/248, train_loss: 0.3255, step time: 1.3703
Batch 122/248, train_loss: 0.4286, step time: 1.3785
Batch 123/248, train_loss: 0.0544, step time: 1.3645
Batch 124/248, train_loss: 0.3103, step time: 1.3744
Batch 125/248, train_loss: 0.5621, step time: 1.3647
Batch 126/248, train_loss: 0.4635, step time: 1.3966
Batch 127/248, train_loss: 0.1419, step time: 1.3741
Batch 128/248, train_loss: 0.1905, step time: 1.3865
Batch 129/248, train_loss: 0.1077, step time: 1.3749
Batch 130/248, train_loss: 0.1256, step time: 1.3603
Batch 131/248, train_loss: 0.4701, step time: 1.3700
Batch 132/248, train_loss: 0.1813, step time: 1.3804
Batch 133/248, train_loss: 0.1286, step time: 1.3735
Batch 134/248, train_loss: 0.9597, step time: 1.3714
Batch 135/248, train_loss: 0.2458, step time: 1.3699
Batch 136/248, train_loss: 0.1965, step time: 1.3923
Batch 137/248, train_loss: 0.1211, step time: 1.3586
Batch 138/248, train_loss: 0.0713, step time: 1.3786
Batch 139/248, train_loss: 0.1710, step time: 1.3983
Batch 140/248, train_loss: 0.2387, step time: 1.3885
Batch 141/248, train_loss: 0.1615, step time: 1.3638
Batch 142/248, train_loss: 0.7404, step time: 1.3782
Batch 143/248, train_loss: 0.2582, step time: 1.3951
Batch 144/248, train_loss: 0.1231, step time: 1.3770
Batch 145/248, train_loss: 0.0683, step time: 1.3669
Batch 146/248, train_loss: 0.5152, step time: 1.3919
Batch 147/248, train_loss: 0.0650, step time: 1.3718
Batch 148/248, train_loss: 0.7973, step time: 1.3814
Batch 149/248, train_loss: 0.1412, step time: 1.3671
Batch 150/248, train_loss: 0.6353, step time: 1.3814
Batch 151/248, train_loss: 0.3358, step time: 1.3690
Batch 152/248, train_loss: 0.0430, step time: 1.3872
Batch 153/248, train_loss: 0.3750, step time: 1.3857
Batch 154/248, train_loss: 0.5245, step time: 1.3847
```

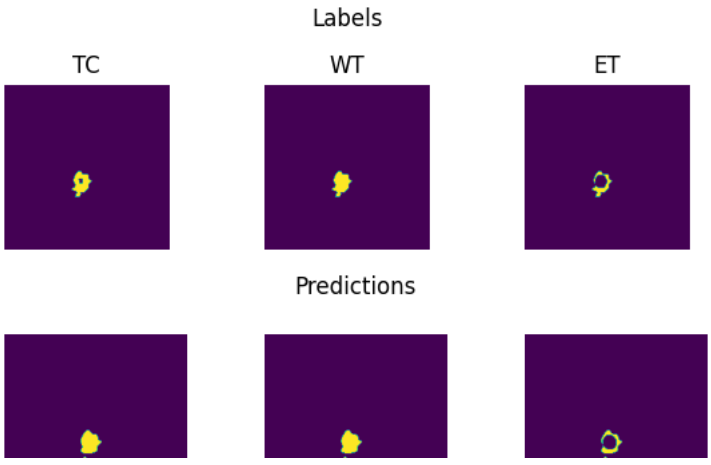
```
Batch 155/248, train_loss: 0.0888, step time: 1.3945
Batch 156/248, train_loss: 0.2130, step time: 1.3707
Batch 157/248, train_loss: 0.3461, step time: 1.3605
Batch 158/248, train_loss: 0.8906, step time: 1.3750
Batch 159/248, train_loss: 0.4115, step time: 1.3843
Batch 160/248, train_loss: 0.1064, step time: 1.3655
Batch 161/248, train_loss: 0.0612, step time: 1.3574
Batch 162/248, train_loss: 0.1455, step time: 1.3732
Batch 163/248, train_loss: 0.1434, step time: 1.3793
Batch 164/248, train_loss: 0.3302, step time: 1.4049
Batch 165/248, train_loss: 0.7474, step time: 1.3868
Batch 166/248, train_loss: 0.1266, step time: 1.3983
Batch 167/248, train_loss: 0.2141, step time: 1.3852
Batch 168/248, train_loss: 0.1559, step time: 1.3632
Batch 169/248, train_loss: 0.0965, step time: 1.3570
Batch 170/248, train_loss: 0.6732, step time: 1.3981
Batch 171/248, train_loss: 0.0865, step time: 1.3527
Batch 172/248, train_loss: 0.6144, step time: 1.3979
Batch 173/248, train_loss: 0.0815, step time: 1.3904
Batch 174/248, train_loss: 0.4780, step time: 1.3648
Batch 175/248, train_loss: 0.1726, step time: 1.3664
Batch 176/248, train_loss: 0.3931, step time: 1.3700
Batch 177/248, train_loss: 0.5051, step time: 1.3977
Batch 178/248, train_loss: 0.3695, step time: 1.3946
Batch 179/248, train_loss: 0.0863, step time: 1.3997
Batch 180/248, train_loss: 0.4084, step time: 1.3723
Batch 181/248, train_loss: 0.1045, step time: 1.3623
Batch 182/248, train_loss: 0.8976, step time: 1.3733
Batch 183/248, train_loss: 0.1377, step time: 1.3873
Batch 184/248, train_loss: 0.2326, step time: 1.3817
Batch 185/248, train_loss: 0.0980, step time: 1.3534
Batch 186/248, train_loss: 0.0830, step time: 1.3806
Batch 187/248, train_loss: 0.1704, step time: 1.3828
Batch 188/248, train_loss: 0.2789, step time: 1.3999
Batch 189/248, train_loss: 0.6775, step time: 1.3716
Batch 190/248, train_loss: 0.1180, step time: 1.3665
Batch 191/248, train_loss: 0.7452, step time: 1.3972
Batch 192/248, train_loss: 0.2347, step time: 1.3644
Batch 193/248, train_loss: 0.2377, step time: 1.3930
Batch 194/248, train_loss: 0.1033, step time: 1.3776
Batch 195/248, train_loss: 0.6549, step time: 1.4040
Batch 196/248, train_loss: 0.9917, step time: 1.4035
Batch 197/248, train_loss: 0.1950, step time: 1.3824
Batch 198/248, train_loss: 0.9966, step time: 1.3916
Batch 199/248, train_loss: 0.1864, step time: 1.3629
Batch 200/248, train_loss: 0.1470, step time: 1.3865
Batch 201/248, train_loss: 0.1365, step time: 1.3687
Batch 202/248, train_loss: 0.5008, step time: 1.3832
Batch 203/248, train_loss: 0.4762, step time: 1.3894
Batch 204/248, train_loss: 0.0829, step time: 1.3697
Batch 205/248, train_loss: 0.3146, step time: 1.3787
Batch 206/248, train_loss: 0.8128, step time: 1.3800
Batch 207/248, train_loss: 0.0999, step time: 1.3916
Batch 208/248, train_loss: 0.1694, step time: 1.3807
Batch 209/248, train_loss: 0.1447, step time: 1.3832
Batch 210/248, train_loss: 0.0619, step time: 1.3560
Batch 211/248, train_loss: 0.0717, step time: 1.3872
Batch 212/248, train_loss: 0.2366, step time: 1.3784
Batch 213/248, train_loss: 0.1863, step time: 1.3887
Batch 214/248, train_loss: 0.0848, step time: 1.3953
Batch 215/248, train_loss: 0.3270, step time: 1.3639
Batch 216/248, train_loss: 0.2524, step time: 1.3688
Batch 217/248, train_loss: 0.2812, step time: 1.3996
Batch 218/248, train_loss: 0.8045, step time: 1.3880
Batch 219/248, train_loss: 0.0777, step time: 1.3863
Batch 220/248, train_loss: 0.2002, step time: 1.3664
Batch 221/248, train_loss: 0.2715, step time: 1.3906
Batch 222/248, train_loss: 0.2523, step time: 1.3863
Batch 223/248, train_loss: 0.0463, step time: 1.3807
Batch 224/248, train_loss: 0.1152, step time: 1.3939
Batch 225/248, train_loss: 0.2859, step time: 1.3632
Batch 226/248, train_loss: 0.1824, step time: 1.3644
Batch 227/248, train_loss: 0.0941, step time: 1.3699
Batch 228/248, train_loss: 0.1687, step time: 1.3645
Batch 229/248, train_loss: 0.0898, step time: 1.3612
Batch 230/248, train_loss: 0.0773, step time: 1.3861
Batch 231/248, train_loss: 0.3942, step time: 1.3691
Batch 232/248, train_loss: 0.0738, step time: 1.3832
Batch 233/248, train_loss: 0.9852, step time: 1.3585
Batch 234/248, train_loss: 0.4381, step time: 1.3836
Batch 235/248, train_loss: 0.2603, step time: 1.3987
Batch 236/248, train_loss: 0.7803, step time: 1.4063
Batch 237/248, train_loss: 0.1393, step time: 1.3885
Batch 238/248, train_loss: 0.0930, step time: 1.4024
```

```
Batch 239/248, train_loss: 0.6651, step time: 1.3592
Batch 240/248, train_loss: 0.3599, step time: 1.3851
Batch 241/248, train_loss: 0.9681, step time: 1.3872
Batch 242/248, train_loss: 0.1622, step time: 1.3539
Batch 243/248, train_loss: 0.4490, step time: 1.3703
Batch 244/248, train_loss: 0.4441, step time: 1.3786
Batch 245/248, train_loss: 0.0707, step time: 1.3790
Batch 246/248, train_loss: 0.6777, step time: 1.3749
Batch 247/248, train_loss: 0.0828, step time: 1.3707
Batch 248/248, train_loss: 0.9999, step time: 1.3462
```



VAL

```
Batch 1/31, val_loss: 0.8343
Batch 2/31, val_loss: 0.9934
Batch 3/31, val_loss: 0.9722
Batch 4/31, val_loss: 0.9492
Batch 5/31, val_loss: 0.9930
Batch 6/31, val_loss: 0.6987
Batch 7/31, val_loss: 0.8346
Batch 8/31, val_loss: 0.9586
Batch 9/31, val_loss: 0.6998
Batch 10/31, val_loss: 0.9149
Batch 11/31, val_loss: 0.8180
Batch 12/31, val_loss: 0.9713
Batch 13/31, val_loss: 0.9892
Batch 14/31, val_loss: 0.9451
Batch 15/31, val_loss: 0.9879
Batch 16/31, val_loss: 0.9720
Batch 17/31, val_loss: 0.9726
Batch 18/31, val_loss: 0.9428
Batch 19/31, val_loss: 0.7450
Batch 20/31, val_loss: 0.8620
Batch 21/31, val_loss: 0.8873
Batch 22/31, val_loss: 0.9812
Batch 23/31, val_loss: 0.9745
Batch 24/31, val_loss: 0.7509
Batch 25/31, val_loss: 0.8021
Batch 26/31, val_loss: 0.9250
Batch 27/31, val_loss: 0.9795
Batch 28/31, val_loss: 0.7474
Batch 29/31, val_loss: 0.9823
Batch 30/31, val_loss: 0.9653
Batch 31/31, val_loss: 0.9729
```



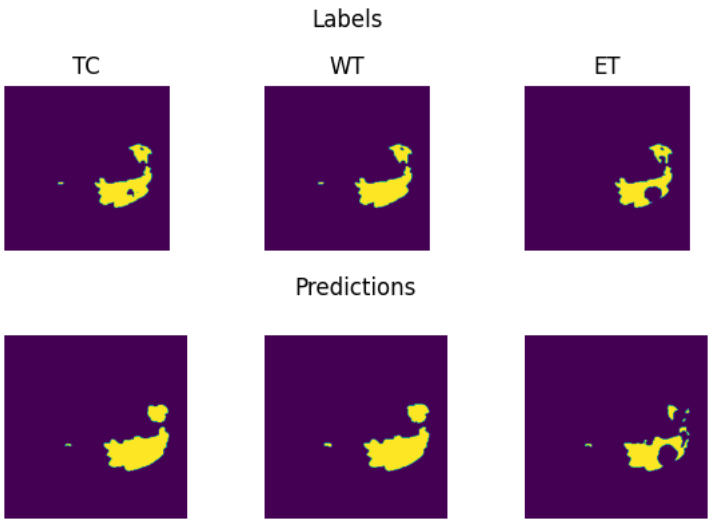


```
epoch 35
   average train loss: 0.3185
   average validation loss: 0.9040
   saved as best model: True
   current mean dice: 0.5817
   current TC dice: 0.6118
   current WT dice: 0.6196
   current ET dice: 0.5566
Best Mean Metric: 0.5817
time consuming of epoch 35 is: 1708.4294
----------
epoch 36/100
TRAIN
   Batch 1/248, train_loss: 0.0775, step time: 1.4548
   Batch 2/248, train_loss: 0.7721, step time: 1.4036
   Batch 3/248, train_loss: 0.4606, step time: 1.3667
   Batch 4/248, train_loss: 0.9425, step time: 1.3859
   Batch 5/248, train_loss: 0.2487, step time: 1.3910
   Batch 6/248, train_loss: 0.3335, step time: 1.3709
   Batch 7/248, train_loss: 0.0816, step time: 1.3604
   Batch 8/248, train_loss: 0.6636, step time: 1.3786
   Batch 9/248, train_loss: 0.0597, step time: 1.3788
   Batch 10/248, train_loss: 0.2196, step time: 1.3661
   Batch 11/248, train_loss: 0.2274, step time: 1.4019
   Batch 12/248, train_loss: 0.3548, step time: 1.3900
   Batch 13/248, train_loss: 0.5155, step time: 1.4007
   Batch 14/248, train_loss: 0.0606, step time: 1.3842
   Batch 15/248, train_loss: 0.3161, step time: 1.3908
   Batch 16/248, train_loss: 0.1754, step time: 1.3917
   Batch 17/248, train_loss: 0.2504, step time: 1.3960
   Batch 18/248, train_loss: 0.2867, step time: 1.3650
   Batch 19/248, train_loss: 0.1661, step time: 1.3801
   Batch 20/248, train_loss: 0.1898, step time: 1.3688
   Batch 21/248, train_loss: 0.0675, step time: 1.3572
   Batch 22/248, train_loss: 0.9851, step time: 1.3813
   Batch 23/248, train_loss: 0.8754, step time: 1.4037
   Batch 24/248, train_loss: 0.1087, step time: 1.3914
   Batch 25/248, train_loss: 0.0693, step time: 1.3640
   Batch 26/248, train_loss: 0.3748, step time: 1.4051
   Batch 27/248, train_loss: 0.0660, step time: 1.3818
   Batch 28/248, train_loss: 0.2140, step time: 1.3934
   Batch 29/248, train_loss: 0.4062, step time: 1.3919
   Batch 30/248, train_loss: 0.5395, step time: 1.3841
   Batch 31/248, train_loss: 0.3930, step time: 1.3601
   Batch 32/248, train_loss: 0.0795, step time: 1.3625
   Batch 33/248, train_loss: 0.0860, step time: 1.3712
   Batch 34/248, train_loss: 0.0503, step time: 1.3700
   Batch 35/248, train_loss: 0.0812, step time: 1.3809
   Batch 36/248, train_loss: 0.7771, step time: 1.3566
   Batch 37/248, train_loss: 0.1442, step time: 1.3887
   Batch 38/248, train_loss: 0.2842, step time: 1.3566
   Batch 39/248, train_loss: 0.1904, step time: 1.3872
   Batch 40/248, train_loss: 0.9478, step time: 1.3934
   Batch 41/248, train_loss: 0.2764, step time: 1.3862
   Batch 42/248, train_loss: 0.0903, step time: 1.3926
   Batch 43/248, train_loss: 0.0676, step time: 1.3791
   Batch 44/248, train_loss: 0.2940, step time: 1.3709
   Batch 45/248, train_loss: 0.7172, step time: 1.3791
   Batch 46/248, train_loss: 0.1740, step time: 1.3707
   Batch 47/248, train_loss: 0.1101, step time: 1.3938
   Batch 48/248, train_loss: 0.6531, step time: 1.3939
   Batch 49/248, train_loss: 0.4348, step time: 1.3998
   Batch 50/248, train_loss: 0.1503, step time: 1.3628
   Batch 51/248, train_loss: 0.1644, step time: 1.3888
   Batch 52/248, train_loss: 0.1872, step time: 1.3975
   Batch 53/248, train_loss: 0.4196, step time: 1.3939
   Batch 54/248, train_loss: 0.2725, step time: 1.3991
   Batch 55/248, train_loss: 0.3114, step time: 1.4145
   Batch 56/248, train_loss: 0.1869, step time: 1.3943
   Batch 57/248, train_loss: 0.3702, step time: 1.3793
   Batch 58/248, train_loss: 0.0755, step time: 1.3575
   Batch 59/248, train_loss: 0.0922, step time: 1.3569
   Batch 60/248, train_loss: 0.0810, step time: 1.3668
   Batch 61/248, train_loss: 0.0932, step time: 1.3700
   Batch 62/248, train_loss: 0.3895, step time: 1.4002
   Batch 63/248, train_loss: 0.6061, step time: 1.3712
   Batch 64/248, train_loss: 0.5390, step time: 1.3614
   Batch 65/248, train_loss: 0.3772, step time: 1.3808
   Batch 66/248, train_loss: 0.1846, step time: 1.3632
   Batch 67/248, train_loss: 0.0883, step time: 1.3691
   Batch 68/248, train_loss: 0.1673, step time: 1.3830
   Batch 69/248, train_loss: 0.6905, step time: 1.4098
```

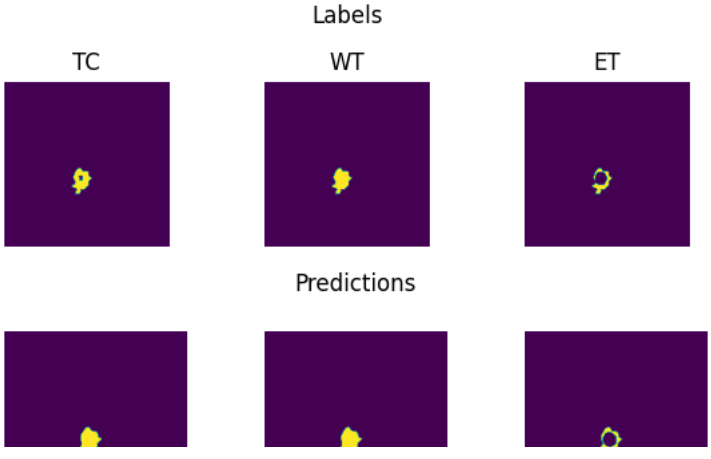
Batch 70/248, train_loss: 0.1852, step time: 1.3787
Batch 71/248, train_loss: 0.1869, step time: 1.3991
Batch 72/248, train_loss: 0.0662, step time: 1.3707
Batch 73/248, train_loss: 0.1411, step time: 1.3817
Batch 74/248, train_loss: 0.9779, step time: 1.3701
Batch 75/248, train_loss: 0.1357, step time: 1.3918
Batch 76/248, train_loss: 0.5856, step time: 1.3809
Batch 77/248, train_loss: 0.8095, step time: 1.4074
Batch 78/248, train_loss: 0.1134, step time: 1.3860
Batch 79/248, train_loss: 0.1170, step time: 1.3927
Batch 80/248, train_loss: 0.2012, step time: 1.3802
Batch 81/248, train_loss: 0.1733, step time: 1.3868
Batch 82/248, train_loss: 0.1163, step time: 1.3605
Batch 83/248, train_loss: 0.5404, step time: 1.3622
Batch 84/248, train_loss: 0.3165, step time: 1.3684
Batch 85/248, train_loss: 0.4362, step time: 1.3690
Batch 86/248, train_loss: 0.2195, step time: 1.3640
Batch 87/248, train_loss: 0.9902, step time: 1.3756
Batch 88/248, train_loss: 0.4289, step time: 1.3975
Batch 89/248, train_loss: 0.0844, step time: 1.3518
Batch 90/248, train_loss: 0.2377, step time: 1.3889
Batch 91/248, train_loss: 0.3946, step time: 1.3831
Batch 92/248, train_loss: 0.8778, step time: 1.3879
Batch 93/248, train_loss: 0.1427, step time: 1.3677
Batch 94/248, train_loss: 0.3447, step time: 1.3920
Batch 95/248, train_loss: 0.2165, step time: 1.3692
Batch 96/248, train_loss: 0.1529, step time: 1.3530
Batch 97/248, train_loss: 0.6237, step time: 1.4075
Batch 98/248, train_loss: 0.1212, step time: 1.3921
Batch 99/248, train_loss: 0.4125, step time: 1.3878
Batch 100/248, train_loss: 0.3193, step time: 1.3921
Batch 101/248, train_loss: 0.0528, step time: 1.3852
Batch 102/248, train_loss: 0.1032, step time: 1.3792
Batch 103/248, train_loss: 0.3864, step time: 1.3863
Batch 104/248, train_loss: 0.3059, step time: 1.3598
Batch 105/248, train_loss: 0.0880, step time: 1.3696
Batch 106/248, train_loss: 0.1433, step time: 1.3901
Batch 107/248, train_loss: 0.2368, step time: 1.3843
Batch 108/248, train_loss: 0.6603, step time: 1.3798
Batch 109/248, train_loss: 0.9494, step time: 1.4003
Batch 110/248, train_loss: 0.4324, step time: 1.3689
Batch 111/248, train_loss: 0.1106, step time: 1.3849
Batch 112/248, train_loss: 0.1556, step time: 1.3860
Batch 113/248, train_loss: 0.6230, step time: 1.4093
Batch 114/248, train_loss: 0.1687, step time: 1.3663
Batch 115/248, train_loss: 0.1966, step time: 1.3943
Batch 116/248, train_loss: 0.0927, step time: 1.3892
Batch 117/248, train_loss: 0.7529, step time: 1.3727
Batch 118/248, train_loss: 0.4148, step time: 1.3940
Batch 119/248, train_loss: 0.2911, step time: 1.3786
Batch 120/248, train_loss: 0.2414, step time: 1.3910
Batch 121/248, train_loss: 0.2778, step time: 1.3961
Batch 122/248, train_loss: 0.4190, step time: 1.3901
Batch 123/248, train_loss: 0.0798, step time: 1.3672
Batch 124/248, train_loss: 0.2999, step time: 1.3996
Batch 125/248, train_loss: 0.4925, step time: 1.3803
Batch 126/248, train_loss: 0.2240, step time: 1.3757
Batch 127/248, train_loss: 0.1229, step time: 1.3825
Batch 128/248, train_loss: 0.1435, step time: 1.3874
Batch 129/248, train_loss: 0.0982, step time: 1.3801
Batch 130/248, train_loss: 0.1015, step time: 1.3646
Batch 131/248, train_loss: 0.4740, step time: 1.3800
Batch 132/248, train_loss: 0.2176, step time: 1.3993
Batch 133/248, train_loss: 0.1437, step time: 1.3778
Batch 134/248, train_loss: 0.9513, step time: 1.3911
Batch 135/248, train_loss: 0.2673, step time: 1.3627
Batch 136/248, train_loss: 0.1304, step time: 1.3713
Batch 137/248, train_loss: 0.1150, step time: 1.3782
Batch 138/248, train_loss: 0.0759, step time: 1.3963
Batch 139/248, train_loss: 0.1736, step time: 1.3936
Batch 140/248, train_loss: 0.2134, step time: 1.3578
Batch 141/248, train_loss: 0.1591, step time: 1.3666
Batch 142/248, train_loss: 0.6103, step time: 1.3725
Batch 143/248, train_loss: 0.2277, step time: 1.4020
Batch 144/248, train_loss: 0.1047, step time: 1.3814
Batch 145/248, train_loss: 0.0660, step time: 1.3590
Batch 146/248, train_loss: 0.4430, step time: 1.3812
Batch 147/248, train_loss: 0.7915, step time: 1.3923
Batch 148/248, train_loss: 0.9236, step time: 1.3884
Batch 149/248, train_loss: 0.1272, step time: 1.3887
Batch 150/248, train_loss: 0.6341, step time: 1.3607
Batch 151/248, train_loss: 0.3271, step time: 1.3669
Batch 152/248, train_loss: 0.0417, step time: 1.3672
Batch 153/248, train_loss: 0.2195, step time: 1.3701

Batch 154/248, train_loss: 0.5883, step time: 1.3730
Batch 155/248, train_loss: 0.1000, step time: 1.3847
Batch 156/248, train_loss: 0.1559, step time: 1.3908
Batch 157/248, train_loss: 0.3234, step time: 1.3681
Batch 158/248, train_loss: 0.9091, step time: 1.3668
Batch 159/248, train_loss: 0.4957, step time: 1.4065
Batch 160/248, train_loss: 0.1150, step time: 1.3719
Batch 161/248, train_loss: 0.0956, step time: 1.3786
Batch 162/248, train_loss: 0.0814, step time: 1.3841
Batch 163/248, train_loss: 0.1296, step time: 1.3672
Batch 164/248, train_loss: 0.4712, step time: 1.3879
Batch 165/248, train_loss: 0.6880, step time: 1.3977
Batch 166/248, train_loss: 0.1285, step time: 1.3746
Batch 167/248, train_loss: 0.1601, step time: 1.3679
Batch 168/248, train_loss: 0.1806, step time: 1.3567
Batch 169/248, train_loss: 0.1034, step time: 1.3736
Batch 170/248, train_loss: 0.5873, step time: 1.3658
Batch 171/248, train_loss: 0.0818, step time: 1.3687
Batch 172/248, train_loss: 0.6495, step time: 1.4035
Batch 173/248, train_loss: 0.0741, step time: 1.3814
Batch 174/248, train_loss: 0.8996, step time: 1.3855
Batch 175/248, train_loss: 0.1780, step time: 1.3796
Batch 176/248, train_loss: 0.4019, step time: 1.3910
Batch 177/248, train_loss: 0.4106, step time: 1.3850
Batch 178/248, train_loss: 0.2184, step time: 1.4034
Batch 179/248, train_loss: 0.0823, step time: 1.3662
Batch 180/248, train_loss: 0.4118, step time: 1.3885
Batch 181/248, train_loss: 0.0992, step time: 1.3900
Batch 182/248, train_loss: 0.9131, step time: 1.3689
Batch 183/248, train_loss: 0.1234, step time: 1.3603
Batch 184/248, train_loss: 0.2575, step time: 1.3918
Batch 185/248, train_loss: 0.0938, step time: 1.3649
Batch 186/248, train_loss: 0.0964, step time: 1.3745
Batch 187/248, train_loss: 0.1695, step time: 1.3560
Batch 188/248, train_loss: 0.2432, step time: 1.3785
Batch 189/248, train_loss: 0.5866, step time: 1.3758
Batch 190/248, train_loss: 0.1430, step time: 1.3975
Batch 191/248, train_loss: 0.6958, step time: 1.4058
Batch 192/248, train_loss: 0.2479, step time: 1.4059
Batch 193/248, train_loss: 0.2569, step time: 1.3779
Batch 194/248, train_loss: 0.1007, step time: 1.3748
Batch 195/248, train_loss: 0.5976, step time: 1.3973
Batch 196/248, train_loss: 0.8071, step time: 1.3818
Batch 197/248, train_loss: 0.1942, step time: 1.3590
Batch 198/248, train_loss: 0.9916, step time: 1.3945
Batch 199/248, train_loss: 0.1513, step time: 1.3951
Batch 200/248, train_loss: 0.1405, step time: 1.3564
Batch 201/248, train_loss: 0.1240, step time: 1.3706
Batch 202/248, train_loss: 0.5212, step time: 1.3865
Batch 203/248, train_loss: 0.4690, step time: 1.3907
Batch 204/248, train_loss: 0.1186, step time: 1.3892
Batch 205/248, train_loss: 0.2630, step time: 1.3648
Batch 206/248, train_loss: 0.6242, step time: 1.3761
Batch 207/248, train_loss: 0.1277, step time: 1.3778
Batch 208/248, train_loss: 0.1170, step time: 1.3825
Batch 209/248, train_loss: 0.1345, step time: 1.3851
Batch 210/248, train_loss: 0.0724, step time: 1.3598
Batch 211/248, train_loss: 0.0875, step time: 1.3561
Batch 212/248, train_loss: 0.2493, step time: 1.3999
Batch 213/248, train_loss: 0.2074, step time: 1.3890
Batch 214/248, train_loss: 0.0913, step time: 1.3936
Batch 215/248, train_loss: 0.3523, step time: 1.3736
Batch 216/248, train_loss: 0.2418, step time: 1.3731
Batch 217/248, train_loss: 0.2736, step time: 1.3641
Batch 218/248, train_loss: 0.7060, step time: 1.3850
Batch 219/248, train_loss: 0.0781, step time: 1.3820
Batch 220/248, train_loss: 0.2116, step time: 1.3946
Batch 221/248, train_loss: 0.2507, step time: 1.3640
Batch 222/248, train_loss: 0.3673, step time: 1.4021
Batch 223/248, train_loss: 0.0446, step time: 1.3677
Batch 224/248, train_loss: 0.1020, step time: 1.3514
Batch 225/248, train_loss: 0.3701, step time: 1.3676
Batch 226/248, train_loss: 0.1466, step time: 1.3656
Batch 227/248, train_loss: 0.1400, step time: 1.3578
Batch 228/248, train_loss: 0.1592, step time: 1.3622
Batch 229/248, train_loss: 0.0927, step time: 1.3553
Batch 230/248, train_loss: 0.0665, step time: 1.3790
Batch 231/248, train_loss: 0.7015, step time: 1.3953
Batch 232/248, train_loss: 0.0735, step time: 1.3821
Batch 233/248, train_loss: 0.9858, step time: 1.3632
Batch 234/248, train_loss: 0.4449, step time: 1.3867
Batch 235/248, train_loss: 0.2451, step time: 1.3710
Batch 236/248, train_loss: 0.7577, step time: 1.3963
Batch 237/248, train_loss: 0.1442, step time: 1.3602
Batch 238/248, train_loss: 0.1108, step time: 1.3781

```
Batch 239/248, train_loss: 0.1199, step time: 1.3697
Batch 240/248, train_loss: 0.4886, step time: 1.3956
Batch 241/248, train_loss: 0.8878, step time: 1.3633
Batch 242/248, train_loss: 0.1779, step time: 1.3635
Batch 243/248, train_loss: 0.5422, step time: 1.3614
Batch 244/248, train_loss: 0.4471, step time: 1.3975
Batch 245/248, train_loss: 0.0816, step time: 1.3739
Batch 246/248, train_loss: 0.6160, step time: 1.3995
Batch 247/248, train_loss: 0.1071, step time: 1.3861
Batch 248/248, train_loss: 0.9998, step time: 1.3815
```




```
VAL
   Batch 1/31, val_loss: 0.8432
   Batch 2/31, val_loss: 0.9974
   Batch 3/31, val_loss: 0.9728
   Batch 4/31, val_loss: 0.9493
   Batch 5/31, val_loss: 0.9926
   Batch 6/31, val_loss: 0.7490
   Batch 7/31, val_loss: 0.8442
   Batch 8/31, val_loss: 0.9568
   Batch 9/31, val_loss: 0.7138
   Batch 10/31, val_loss: 0.9143
   Batch 11/31, val_loss: 0.8216
   Batch 12/31, val_loss: 0.9731
   Batch 13/31, val_loss: 0.9878
   Batch 14/31, val_loss: 0.9484
   Batch 15/31, val_loss: 0.9872
   Batch 16/31, val_loss: 0.9714
   Batch 17/31, val_loss: 0.9729
   Batch 18/31, val_loss: 0.9443
   Batch 19/31, val_loss: 0.7546
   Batch 20/31, val_loss: 0.8792
   Batch 21/31, val_loss: 0.8942
   Batch 22/31, val_loss: 0.9739
   Batch 23/31, val_loss: 0.9750
   Batch 24/31, val_loss: 0.7655
   Batch 25/31, val_loss: 0.8070
   Batch 26/31, val_loss: 0.9236
   Batch 27/31, val_loss: 0.9793
   Batch 28/31, val_loss: 0.7435
   Batch 29/31, val_loss: 0.9816
   Batch 30/31, val_loss: 0.9626
   Batch 31/31, val_loss: 0.9744
```





```
epoch 36
   average train loss: 0.3167
   average validation loss: 0.9082
   saved as best model: False
   current mean dice: 0.5739
   current TC dice: 0.6077
   current WT dice: 0.6150
   current ET dice: 0.5399
Best Mean Metric: 0.5817
time consuming of epoch 36 is: 1743.7273
----------
epoch 37/100
TRAIN
   Batch 1/248, train_loss: 0.0973, step time: 1.4489
   Batch 2/248, train_loss: 0.7911, step time: 1.3821
   Batch 3/248, train_loss: 0.3497, step time: 1.3886
   Batch 4/248, train_loss: 0.9741, step time: 1.3739
   Batch 5/248, train_loss: 0.2642, step time: 1.3757
   Batch 6/248, train_loss: 0.2732, step time: 1.3859
   Batch 7/248, train_loss: 0.0955, step time: 1.3803
   Batch 8/248, train_loss: 0.6750, step time: 1.3650
   Batch 9/248, train_loss: 0.0649, step time: 1.3762
   Batch 10/248, train_loss: 0.2284, step time: 1.3791
   Batch 11/248, train_loss: 0.1946, step time: 1.3848
   Batch 12/248, train_loss: 0.4194, step time: 1.3792
   Batch 13/248, train_loss: 0.4228, step time: 1.4012
   Batch 14/248, train_loss: 0.0621, step time: 1.3669
   Batch 15/248, train_loss: 0.3732, step time: 1.3785
   Batch 16/248, train_loss: 0.2127, step time: 1.3793
   Batch 17/248, train_loss: 0.2778, step time: 1.3948
   Batch 18/248, train_loss: 0.3065, step time: 1.3776
   Batch 19/248, train_loss: 0.7761, step time: 1.3894
   Batch 20/248, train_loss: 0.1111, step time: 1.3828
   Batch 21/248, train_loss: 0.0530, step time: 1.3906
   Batch 22/248, train_loss: 0.9735, step time: 1.3735
   Batch 23/248, train_loss: 0.8444, step time: 1.3804
   Batch 24/248, train_loss: 0.1446, step time: 1.3840
   Batch 25/248, train_loss: 0.0705, step time: 1.3964
   Batch 26/248, train_loss: 0.3655, step time: 1.3926
   Batch 27/248, train_loss: 0.0638, step time: 1.3614
   Batch 28/248, train_loss: 0.1615, step time: 1.3798
   Batch 29/248, train_loss: 0.4270, step time: 1.4097
   Batch 30/248, train_loss: 0.2352, step time: 1.3604
   Batch 31/248, train_loss: 0.2900, step time: 1.3980
   Batch 32/248, train_loss: 0.0950, step time: 1.3696
   Batch 33/248, train_loss: 0.0831, step time: 1.3574
   Batch 34/248, train_loss: 0.0542, step time: 1.3826
   Batch 35/248, train_loss: 0.0897, step time: 1.3934
   Batch 36/248, train_loss: 0.9126, step time: 1.3653
   Batch 37/248, train_loss: 0.1451, step time: 1.3889
   Batch 38/248, train_loss: 0.2894, step time: 1.3977
   Batch 39/248, train_loss: 0.1343, step time: 1.3997
   Batch 40/248, train_loss: 0.8946, step time: 1.3904
   Batch 41/248, train_loss: 0.1973, step time: 1.3816
   Batch 42/248, train_loss: 0.0679, step time: 1.3829
   Batch 43/248, train_loss: 0.1003, step time: 1.3816
   Batch 44/248, train_loss: 0.1248, step time: 1.3859
   Batch 45/248, train_loss: 0.5411, step time: 1.3777
   Batch 46/248, train_loss: 0.1774, step time: 1.3624
   Batch 47/248, train_loss: 0.0839, step time: 1.3833
   Batch 48/248, train_loss: 0.2051, step time: 1.3685
   Batch 49/248, train_loss: 0.4717, step time: 1.3639
   Batch 50/248, train_loss: 0.1607, step time: 1.3603
   Batch 51/248, train_loss: 0.1256, step time: 1.3981
   Batch 52/248, train_loss: 0.1266, step time: 1.3683
   Batch 53/248, train_loss: 0.4047, step time: 1.4049
   Batch 54/248, train_loss: 0.2541, step time: 1.3711
   Batch 55/248, train_loss: 0.2951, step time: 1.4140
   Batch 56/248, train_loss: 0.1731, step time: 1.3968
   Batch 57/248, train_loss: 0.2344, step time: 1.3785
   Batch 58/248, train_loss: 0.0742, step time: 1.3799
   Batch 59/248, train_loss: 0.0856, step time: 1.3674
   Batch 60/248, train_loss: 0.0722, step time: 1.3922
   Batch 61/248, train_loss: 0.0899, step time: 1.3823
   Batch 62/248, train_loss: 0.2459, step time: 1.3964
   Batch 63/248, train_loss: 0.6225, step time: 1.3756
   Batch 64/248, train_loss: 0.5116, step time: 1.3636
   Batch 65/248, train_loss: 0.2598, step time: 1.3709
   Batch 66/248, train_loss: 0.1298, step time: 1.3618
   Batch 67/248, train_loss: 0.0840, step time: 1.3755
   Batch 68/248, train_loss: 0.1080, step time: 1.3685
```

Batch 69/248, train_loss: 0.6484, step time: 1.3934
Batch 70/248, train_loss: 0.1651, step time: 1.3876
Batch 71/248, train_loss: 0.1223, step time: 1.3914
Batch 72/248, train_loss: 0.0659, step time: 1.3836
Batch 73/248, train_loss: 0.4613, step time: 1.3667
Batch 74/248, train_loss: 0.9730, step time: 1.3774
Batch 75/248, train_loss: 0.1238, step time: 1.3785
Batch 76/248, train_loss: 0.5641, step time: 1.4022
Batch 77/248, train_loss: 0.8099, step time: 1.4046
Batch 78/248, train_loss: 0.1132, step time: 1.3654
Batch 79/248, train_loss: 0.1495, step time: 1.3866
Batch 80/248, train_loss: 0.2260, step time: 1.3997
Batch 81/248, train_loss: 0.1629, step time: 1.4019
Batch 82/248, train_loss: 0.1424, step time: 1.3683
Batch 83/248, train_loss: 0.6508, step time: 1.3845
Batch 84/248, train_loss: 0.3523, step time: 1.3991
Batch 85/248, train_loss: 0.4206, step time: 1.3621
Batch 86/248, train_loss: 0.4798, step time: 1.3863
Batch 87/248, train_loss: 0.9630, step time: 1.3966
Batch 88/248, train_loss: 0.4250, step time: 1.3972
Batch 89/248, train_loss: 0.0998, step time: 1.3870
Batch 90/248, train_loss: 0.8092, step time: 1.3962
Batch 91/248, train_loss: 0.3674, step time: 1.3787
Batch 92/248, train_loss: 0.9115, step time: 1.3911
Batch 93/248, train_loss: 0.1368, step time: 1.3743
Batch 94/248, train_loss: 0.2690, step time: 1.3933
Batch 95/248, train_loss: 0.1942, step time: 1.3611
Batch 96/248, train_loss: 0.2360, step time: 1.4089
Batch 97/248, train_loss: 0.7033, step time: 1.3757
Batch 98/248, train_loss: 0.1043, step time: 1.3952
Batch 99/248, train_loss: 0.3886, step time: 1.4055
Batch 100/248, train_loss: 0.3203, step time: 1.3698
Batch 101/248, train_loss: 0.0488, step time: 1.3753
Batch 102/248, train_loss: 0.1148, step time: 1.3884
Batch 103/248, train_loss: 0.3614, step time: 1.3938
Batch 104/248, train_loss: 0.3359, step time: 1.4080
Batch 105/248, train_loss: 0.0857, step time: 1.3735
Batch 106/248, train_loss: 0.1585, step time: 1.4091
Batch 107/248, train_loss: 0.2672, step time: 1.3912
Batch 108/248, train_loss: 0.6452, step time: 1.3897
Batch 109/248, train_loss: 0.9673, step time: 1.3961
Batch 110/248, train_loss: 0.8769, step time: 1.4064
Batch 111/248, train_loss: 0.0971, step time: 1.3675
Batch 112/248, train_loss: 0.1154, step time: 1.3868
Batch 113/248, train_loss: 0.8037, step time: 1.3899
Batch 114/248, train_loss: 0.1463, step time: 1.3707
Batch 115/248, train_loss: 0.1533, step time: 1.3640
Batch 116/248, train_loss: 0.1060, step time: 1.3692
Batch 117/248, train_loss: 0.7408, step time: 1.3922
Batch 118/248, train_loss: 0.2803, step time: 1.4061
Batch 119/248, train_loss: 0.2835, step time: 1.3989
Batch 120/248, train_loss: 0.2080, step time: 1.3894
Batch 121/248, train_loss: 0.3323, step time: 1.3821
Batch 122/248, train_loss: 0.4779, step time: 1.3776
Batch 123/248, train_loss: 0.0657, step time: 1.3697
Batch 124/248, train_loss: 0.4070, step time: 1.4044
Batch 125/248, train_loss: 0.8149, step time: 1.3872
Batch 126/248, train_loss: 0.2569, step time: 1.3753
Batch 127/248, train_loss: 0.1289, step time: 1.3746
Batch 128/248, train_loss: 0.2946, step time: 1.3863
Batch 129/248, train_loss: 0.0848, step time: 1.3822
Batch 130/248, train_loss: 0.1165, step time: 1.3953
Batch 131/248, train_loss: 0.4756, step time: 1.3578
Batch 132/248, train_loss: 0.2797, step time: 1.3809
Batch 133/248, train_loss: 0.2016, step time: 1.3647
Batch 134/248, train_loss: 0.9748, step time: 1.3690
Batch 135/248, train_loss: 0.2523, step time: 1.3768
Batch 136/248, train_loss: 0.1193, step time: 1.3892
Batch 137/248, train_loss: 0.1552, step time: 1.3897
Batch 138/248, train_loss: 0.0833, step time: 1.3934
Batch 139/248, train_loss: 0.5699, step time: 1.3855
Batch 140/248, train_loss: 0.2166, step time: 1.3774
Batch 141/248, train_loss: 0.4080, step time: 1.3879
Batch 142/248, train_loss: 0.7581, step time: 1.3663
Batch 143/248, train_loss: 0.2572, step time: 1.3589
Batch 144/248, train_loss: 0.1033, step time: 1.3606
Batch 145/248, train_loss: 0.0673, step time: 1.3818
Batch 146/248, train_loss: 0.4867, step time: 1.3845
Batch 147/248, train_loss: 0.0562, step time: 1.3777
Batch 148/248, train_loss: 0.8150, step time: 1.3734
Batch 149/248, train_loss: 0.1668, step time: 1.3813
Batch 150/248, train_loss: 0.6243, step time: 1.3760
Batch 151/248, train_loss: 0.3908, step time: 1.3807
Batch 152/248, train_loss: 0.0755, step time: 1.3964
Batch 153/248, train_loss: 0.4344, step time: 1.4014

```
Batch 154/248, train_loss: 0.7332, step time: 1.3757
Batch 155/248, train_loss: 0.1030, step time: 1.3839
Batch 156/248, train_loss: 0.2069, step time: 1.4084
Batch 157/248, train_loss: 0.3329, step time: 1.3953
Batch 158/248, train_loss: 0.9311, step time: 1.3739
Batch 159/248, train_loss: 0.5481, step time: 1.3591
Batch 160/248, train_loss: 0.1216, step time: 1.3631
Batch 161/248, train_loss: 0.0866, step time: 1.3862
Batch 162/248, train_loss: 0.0976, step time: 1.3789
Batch 163/248, train_loss: 0.1677, step time: 1.3941
Batch 164/248, train_loss: 0.3128, step time: 1.3870
Batch 165/248, train_loss: 0.6660, step time: 1.3834
Batch 166/248, train_loss: 0.1397, step time: 1.3752
Batch 167/248, train_loss: 0.1925, step time: 1.4004
Batch 168/248, train_loss: 0.1701, step time: 1.3769
Batch 169/248, train_loss: 0.0952, step time: 1.3651
Batch 170/248, train_loss: 0.5428, step time: 1.3796
Batch 171/248, train_loss: 0.1156, step time: 1.3698
Batch 172/248, train_loss: 0.5482, step time: 1.3891
Batch 173/248, train_loss: 0.0872, step time: 1.3875
Batch 174/248, train_loss: 0.4236, step time: 1.3820
Batch 175/248, train_loss: 0.1385, step time: 1.3723
Batch 176/248, train_loss: 0.3898, step time: 1.3816
Batch 177/248, train_loss: 0.4432, step time: 1.4058
Batch 178/248, train_loss: 0.4403, step time: 1.3758
Batch 179/248, train_loss: 0.0839, step time: 1.3666
Batch 180/248, train_loss: 0.4078, step time: 1.3738
Batch 181/248, train_loss: 0.0872, step time: 1.3731
Batch 182/248, train_loss: 0.8106, step time: 1.3612
Batch 183/248, train_loss: 0.1161, step time: 1.3717
Batch 184/248, train_loss: 0.2178, step time: 1.3668
Batch 185/248, train_loss: 0.0986, step time: 1.3614
Batch 186/248, train_loss: 0.1015, step time: 1.3845
Batch 187/248, train_loss: 0.1888, step time: 1.3649
Batch 188/248, train_loss: 0.2204, step time: 1.3686
Batch 189/248, train_loss: 0.5732, step time: 1.3958
Batch 190/248, train_loss: 0.1156, step time: 1.3893
Batch 191/248, train_loss: 0.7064, step time: 1.3964
Batch 192/248, train_loss: 0.3096, step time: 1.4016
Batch 193/248, train_loss: 0.2900, step time: 1.3936
Batch 194/248, train_loss: 0.1040, step time: 1.3916
Batch 195/248, train_loss: 0.6208, step time: 1.3988
Batch 196/248, train_loss: 0.7470, step time: 1.4025
Batch 197/248, train_loss: 0.1830, step time: 1.3609
Batch 198/248, train_loss: 0.7766, step time: 1.4027
Batch 199/248, train_loss: 0.1590, step time: 1.3927
Batch 200/248, train_loss: 0.1666, step time: 1.3646
Batch 201/248, train_loss: 0.1325, step time: 1.3602
Batch 202/248, train_loss: 0.4990, step time: 1.3669
Batch 203/248, train_loss: 0.4168, step time: 1.3754
Batch 204/248, train_loss: 0.1128, step time: 1.3694
Batch 205/248, train_loss: 0.3555, step time: 1.3704
Batch 206/248, train_loss: 0.4324, step time: 1.3824
Batch 207/248, train_loss: 0.1454, step time: 1.3846
Batch 208/248, train_loss: 0.1292, step time: 1.3677
Batch 209/248, train_loss: 0.1688, step time: 1.3896
Batch 210/248, train_loss: 0.0653, step time: 1.3622
Batch 211/248, train_loss: 0.0870, step time: 1.3934
Batch 212/248, train_loss: 0.2480, step time: 1.3730
Batch 213/248, train_loss: 0.1997, step time: 1.3643
Batch 214/248, train_loss: 0.1147, step time: 1.3935
Batch 215/248, train_loss: 0.2988, step time: 1.3982
Batch 216/248, train_loss: 0.2230, step time: 1.4108
Batch 217/248, train_loss: 0.2796, step time: 1.4062
Batch 218/248, train_loss: 0.7343, step time: 1.4091
Batch 219/248, train_loss: 0.0957, step time: 1.4072
Batch 220/248, train_loss: 0.2160, step time: 1.4100
Batch 221/248, train_loss: 0.3060, step time: 1.3868
Batch 222/248, train_loss: 0.2265, step time: 1.3955
Batch 223/248, train_loss: 0.0545, step time: 1.3643
Batch 224/248, train_loss: 0.1008, step time: 1.3689
Batch 225/248, train_loss: 0.2281, step time: 1.3825
Batch 226/248, train_loss: 0.1163, step time: 1.3783
Batch 227/248, train_loss: 0.0870, step time: 1.3674
Batch 228/248, train_loss: 0.1541, step time: 1.3974
Batch 229/248, train_loss: 0.0947, step time: 1.3599
Batch 230/248, train_loss: 0.1211, step time: 1.3776
Batch 231/248, train_loss: 0.6912, step time: 1.3809
Batch 232/248, train_loss: 0.0793, step time: 1.3838
Batch 233/248, train_loss: 0.9683, step time: 1.3890
Batch 234/248, train_loss: 0.4367, step time: 1.3801
Batch 235/248, train_loss: 0.2674, step time: 1.3734
Batch 236/248, train_loss: 0.7380, step time: 1.3677
Batch 237/248, train_loss: 0.1257, step time: 1.3777
Batch 238/248, train_loss: 0.0899, step time: 1.3993
```

```
Batch 239/248, train_loss: 0.0582, step time: 1.3644
Batch 240/248, train_loss: 0.4611, step time: 1.3902
Batch 241/248, train_loss: 0.9468, step time: 1.3923
Batch 242/248, train_loss: 0.1693, step time: 1.4056
Batch 243/248, train_loss: 0.4439, step time: 1.3929
Batch 244/248, train_loss: 0.4968, step time: 1.3913
Batch 245/248, train_loss: 0.0703, step time: 1.3750
Batch 246/248, train_loss: 0.5719, step time: 1.3927
Batch 247/248, train_loss: 0.0963, step time: 1.3779
Batch 248/248, train_loss: 1.0000, step time: 1.3697
```

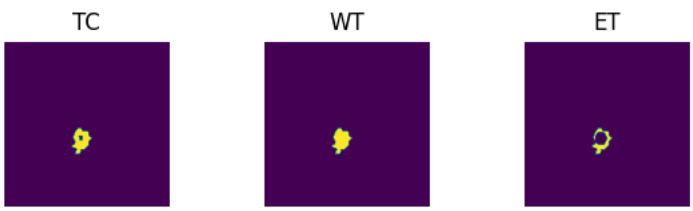
Labels

Predictions

VAL

```
Batch 1/31, val_loss: 0.8423
Batch 2/31, val_loss: 0.9907
Batch 3/31, val_loss: 0.9749
Batch 4/31, val_loss: 0.9468
Batch 5/31, val_loss: 0.9922
Batch 6/31, val_loss: 0.7005
Batch 7/31, val_loss: 0.8244
Batch 8/31, val_loss: 0.9531
Batch 9/31, val_loss: 0.7018
Batch 10/31, val_loss: 0.9137
Batch 11/31, val_loss: 0.8207
Batch 12/31, val_loss: 0.9746
Batch 13/31, val_loss: 0.9809
Batch 14/31, val_loss: 0.9492
Batch 15/31, val_loss: 0.9871
Batch 16/31, val_loss: 0.9726
Batch 17/31, val_loss: 0.9722
Batch 18/31, val_loss: 0.9369
Batch 19/31, val_loss: 0.7407
Batch 20/31, val_loss: 0.8773
Batch 21/31, val_loss: 0.8903
Batch 22/31, val_loss: 0.9716
Batch 23/31, val_loss: 0.9735
Batch 24/31, val_loss: 0.7506
Batch 25/31, val_loss: 0.7997
Batch 26/31, val_loss: 0.9282
Batch 27/31, val_loss: 0.9805
Batch 28/31, val_loss: 0.7451
Batch 29/31, val_loss: 0.9827
Batch 30/31, val_loss: 0.9631
Batch 31/31, val_loss: 0.9736
```

Labels



Predictions

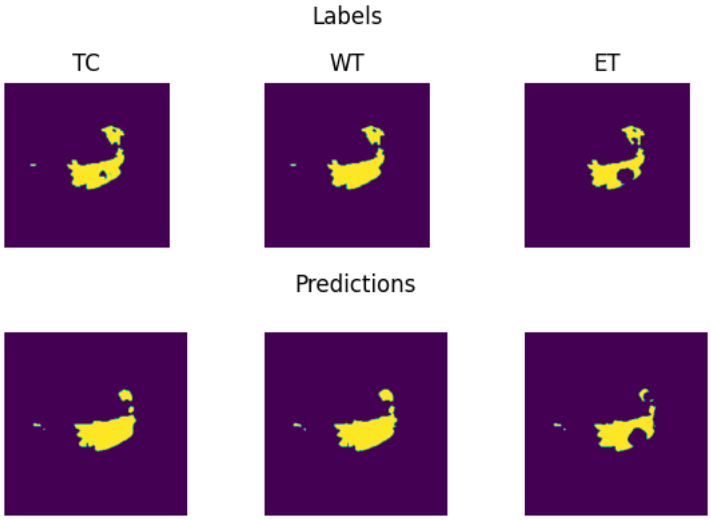
  

```
epoch 37
   average train loss: 0.3182
   average validation loss: 0.9036
   saved as best model: False
   current mean dice: 0.5572
   current TC dice: 0.5910
   current WT dice: 0.5981
   current ET dice: 0.5238
Best Mean Metric: 0.5817
time consuming of epoch 37 is: 1732.2364
----------
epoch 38/100
TRAIN
   Batch 1/248, train_loss: 0.0715, step time: 1.4283
   Batch 2/248, train_loss: 0.8355, step time: 1.3957
   Batch 3/248, train_loss: 0.3814, step time: 1.3594
   Batch 4/248, train_loss: 0.9823, step time: 1.3984
   Batch 5/248, train_loss: 0.2264, step time: 1.3849
   Batch 6/248, train_loss: 0.3041, step time: 1.3675
   Batch 7/248, train_loss: 0.0979, step time: 1.3847
   Batch 8/248, train_loss: 0.7242, step time: 1.3785
   Batch 9/248, train_loss: 0.0447, step time: 1.3884
   Batch 10/248, train_loss: 0.2840, step time: 1.3887
   Batch 11/248, train_loss: 0.2289, step time: 1.3778
   Batch 12/248, train_loss: 0.3602, step time: 1.3910
   Batch 13/248, train_loss: 0.3483, step time: 1.3982
   Batch 14/248, train_loss: 0.0511, step time: 1.3626
   Batch 15/248, train_loss: 0.3460, step time: 1.3608
   Batch 16/248, train_loss: 0.1975, step time: 1.4006
   Batch 17/248, train_loss: 0.2700, step time: 1.3817
   Batch 18/248, train_loss: 0.3142, step time: 1.3837
   Batch 19/248, train_loss: 0.1244, step time: 1.3824
   Batch 20/248, train_loss: 0.1898, step time: 1.3873
   Batch 21/248, train_loss: 0.0573, step time: 1.3672
   Batch 22/248, train_loss: 0.9832, step time: 1.3621
   Batch 23/248, train_loss: 0.6584, step time: 1.3890
   Batch 24/248, train_loss: 0.1005, step time: 1.3813
   Batch 25/248, train_loss: 0.0655, step time: 1.4039
   Batch 26/248, train_loss: 0.3552, step time: 1.3991
   Batch 27/248, train_loss: 0.0724, step time: 1.3691
   Batch 28/248, train_loss: 0.1607, step time: 1.3832
   Batch 29/248, train_loss: 0.3685, step time: 1.3850
   Batch 30/248, train_loss: 0.2532, step time: 1.3731
   Batch 31/248, train_loss: 0.3007, step time: 1.3958
   Batch 32/248, train_loss: 0.0891, step time: 1.3575
   Batch 33/248, train_loss: 0.0849, step time: 1.3667
   Batch 34/248, train_loss: 0.0512, step time: 1.3719
   Batch 35/248, train_loss: 0.0787, step time: 1.3664
   Batch 36/248, train_loss: 0.5169, step time: 1.4023
   Batch 37/248, train_loss: 0.1801, step time: 1.3697
   Batch 38/248, train_loss: 0.2925, step time: 1.3789
   Batch 39/248, train_loss: 0.1596, step time: 1.3755
   Batch 40/248, train_loss: 0.9686, step time: 1.3759
   Batch 41/248, train_loss: 0.2115, step time: 1.3731
   Batch 42/248, train_loss: 0.0720, step time: 1.3975
   Batch 43/248, train_loss: 0.0960, step time: 1.4045
   Batch 44/248, train_loss: 0.1889, step time: 1.3735
   Batch 45/248, train_loss: 0.6444, step time: 1.3870
   Batch 46/248, train_loss: 0.2086, step time: 1.3999
   Batch 47/248, train_loss: 0.0850, step time: 1.3800
   Batch 48/248, train_loss: 0.2774, step time: 1.3864
   Batch 49/248, train_loss: 0.3672, step time: 1.3986
   Batch 50/248, train_loss: 0.1626, step time: 1.3692
   Batch 51/248, train_loss: 0.1513, step time: 1.3561
   Batch 52/248, train_loss: 0.1770, step time: 1.3996
   Batch 53/248, train_loss: 0.4083, step time: 1.3986
   Batch 54/248, train_loss: 0.2743, step time: 1.4027
   Batch 55/248, train_loss: 0.2699, step time: 1.4101
   Batch 56/248, train_loss: 0.1690, step time: 1.3710
   Batch 57/248, train_loss: 0.2388, step time: 1.4075
   Batch 58/248, train_loss: 0.0837, step time: 1.3872
   Batch 59/248, train_loss: 0.1033, step time: 1.3680
   Batch 60/248, train_loss: 0.0961, step time: 1.4004
   Batch 61/248, train_loss: 0.0865, step time: 1.3902
   Batch 62/248, train_loss: 0.2808, step time: 1.3574
   Batch 63/248, train_loss: 0.4304, step time: 1.3683
   Batch 64/248, train_loss: 0.5315, step time: 1.3638
   Batch 65/248, train_loss: 0.2694, step time: 1.3903
   Batch 66/248, train_loss: 0.1888, step time: 1.3691
   Batch 67/248, train_loss: 0.0747, step time: 1.3688
   Batch 68/248, train_loss: 0.1012, step time: 1.3635
```

```
Batch 69/248, train_loss: 0.7319, step time: 1.3628
Batch 70/248, train_loss: 0.1520, step time: 1.3900
Batch 71/248, train_loss: 0.1542, step time: 1.3881
Batch 72/248, train_loss: 0.0710, step time: 1.3644
Batch 73/248, train_loss: 0.1011, step time: 1.3709
Batch 74/248, train_loss: 0.9917, step time: 1.3634
Batch 75/248, train_loss: 0.1181, step time: 1.3340
Batch 76/248, train_loss: 0.5602, step time: 1.3765
Batch 77/248, train_loss: 0.9513, step time: 1.3520
Batch 78/248, train_loss: 0.0972, step time: 1.3567
Batch 79/248, train_loss: 0.1100, step time: 1.3469
Batch 80/248, train_loss: 0.2880, step time: 1.3753
Batch 81/248, train_loss: 0.1460, step time: 1.3649
Batch 82/248, train_loss: 0.0874, step time: 1.3593
Batch 83/248, train_loss: 0.5291, step time: 1.3600
Batch 84/248, train_loss: 0.2607, step time: 1.3482
Batch 85/248, train_loss: 0.5244, step time: 1.3734
Batch 86/248, train_loss: 0.2816, step time: 1.3728
Batch 87/248, train_loss: 0.8427, step time: 1.3631
Batch 88/248, train_loss: 0.3838, step time: 1.3469
Batch 89/248, train_loss: 0.0770, step time: 1.3365
Batch 90/248, train_loss: 0.2115, step time: 1.3742
Batch 91/248, train_loss: 0.4187, step time: 1.3638
Batch 92/248, train_loss: 0.8640, step time: 1.3629
Batch 93/248, train_loss: 0.1432, step time: 1.3534
Batch 94/248, train_loss: 0.2700, step time: 1.3595
Batch 95/248, train_loss: 0.1749, step time: 1.3571
Batch 96/248, train_loss: 0.1561, step time: 1.3691
Batch 97/248, train_loss: 0.7654, step time: 1.3603
Batch 98/248, train_loss: 0.1012, step time: 1.3698
Batch 99/248, train_loss: 0.3199, step time: 1.3721
Batch 100/248, train_loss: 0.3194, step time: 1.3492
Batch 101/248, train_loss: 0.0492, step time: 1.3392
Batch 102/248, train_loss: 0.1388, step time: 1.3586
Batch 103/248, train_loss: 0.3456, step time: 1.3649
Batch 104/248, train_loss: 0.3835, step time: 1.3398
Batch 105/248, train_loss: 0.1141, step time: 1.3530
Batch 106/248, train_loss: 0.1324, step time: 1.3681
Batch 107/248, train_loss: 0.2914, step time: 1.3700
Batch 108/248, train_loss: 0.9945, step time: 1.3673
Batch 109/248, train_loss: 0.9761, step time: 1.3507
Batch 110/248, train_loss: 0.9811, step time: 1.3502
Batch 111/248, train_loss: 0.1069, step time: 1.3469
Batch 112/248, train_loss: 0.0959, step time: 1.3704
Batch 113/248, train_loss: 0.9632, step time: 1.3649
Batch 114/248, train_loss: 0.1507, step time: 1.3681
Batch 115/248, train_loss: 0.2680, step time: 1.3411
Batch 116/248, train_loss: 0.0738, step time: 1.3776
Batch 117/248, train_loss: 0.5840, step time: 1.3700
Batch 118/248, train_loss: 0.3481, step time: 1.3813
Batch 119/248, train_loss: 0.4121, step time: 1.3971
Batch 120/248, train_loss: 0.2451, step time: 1.3648
Batch 121/248, train_loss: 0.2787, step time: 1.3760
Batch 122/248, train_loss: 0.4481, step time: 1.3960
Batch 123/248, train_loss: 0.0670, step time: 1.3988
Batch 124/248, train_loss: 0.2939, step time: 1.3881
Batch 125/248, train_loss: 0.5176, step time: 1.3828
Batch 126/248, train_loss: 0.4286, step time: 1.3885
Batch 127/248, train_loss: 0.1257, step time: 1.3944
Batch 128/248, train_loss: 0.1645, step time: 1.3914
Batch 129/248, train_loss: 0.1050, step time: 1.3912
Batch 130/248, train_loss: 0.1122, step time: 1.3623
Batch 131/248, train_loss: 0.4149, step time: 1.3702
Batch 132/248, train_loss: 0.2605, step time: 1.3912
Batch 133/248, train_loss: 0.1199, step time: 1.3636
Batch 134/248, train_loss: 0.9613, step time: 1.3636
Batch 135/248, train_loss: 0.2121, step time: 1.3881
Batch 136/248, train_loss: 0.1351, step time: 1.3610
Batch 137/248, train_loss: 0.1123, step time: 1.3699
Batch 138/248, train_loss: 0.0853, step time: 1.3511
Batch 139/248, train_loss: 0.1952, step time: 1.3489
Batch 140/248, train_loss: 0.2011, step time: 1.3597
Batch 141/248, train_loss: 0.1509, step time: 1.3522
Batch 142/248, train_loss: 0.7308, step time: 1.3854
Batch 143/248, train_loss: 0.2328, step time: 1.3776
Batch 144/248, train_loss: 0.1372, step time: 1.3753
Batch 145/248, train_loss: 0.0561, step time: 1.3699
Batch 146/248, train_loss: 0.4300, step time: 1.3698
Batch 147/248, train_loss: 0.0439, step time: 1.3779
Batch 148/248, train_loss: 0.8527, step time: 1.3798
Batch 149/248, train_loss: 0.1291, step time: 1.3462
Batch 150/248, train_loss: 0.6682, step time: 1.3699
Batch 151/248, train_loss: 0.2683, step time: 1.3804
Batch 152/248, train_loss: 0.0470, step time: 1.3394
Batch 153/248, train_loss: 0.2090, step time: 1.3916
```

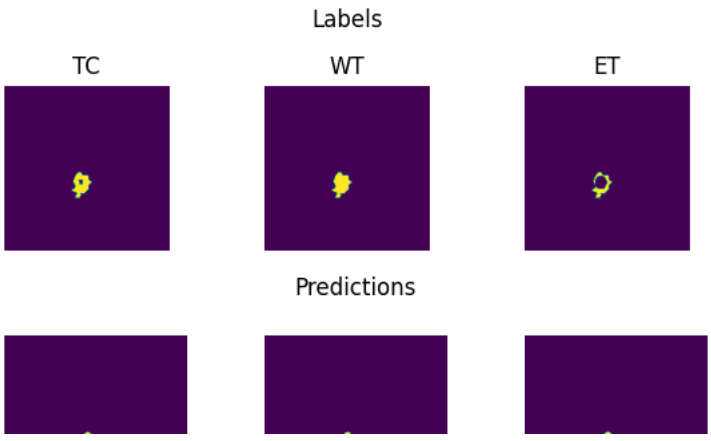
Batch 154/248, train_loss: 0.5516, step time: 1.3758
Batch 155/248, train_loss: 0.0925, step time: 1.3595
Batch 156/248, train_loss: 0.1690, step time: 1.3938
Batch 157/248, train_loss: 0.3229, step time: 1.3610
Batch 158/248, train_loss: 0.9348, step time: 1.3648
Batch 159/248, train_loss: 0.6178, step time: 1.3963
Batch 160/248, train_loss: 0.0947, step time: 1.3873
Batch 161/248, train_loss: 0.1057, step time: 1.3968
Batch 162/248, train_loss: 0.0710, step time: 1.3942
Batch 163/248, train_loss: 0.1968, step time: 1.4107
Batch 164/248, train_loss: 0.3367, step time: 1.3751
Batch 165/248, train_loss: 0.7025, step time: 1.3996
Batch 166/248, train_loss: 0.1377, step time: 1.4031
Batch 167/248, train_loss: 0.2120, step time: 1.3769
Batch 168/248, train_loss: 0.1525, step time: 1.3692
Batch 169/248, train_loss: 0.0990, step time: 1.3771
Batch 170/248, train_loss: 0.6986, step time: 1.3646
Batch 171/248, train_loss: 0.0902, step time: 1.3868
Batch 172/248, train_loss: 0.5654, step time: 1.3952
Batch 173/248, train_loss: 0.0986, step time: 1.3885
Batch 174/248, train_loss: 0.7860, step time: 1.4009
Batch 175/248, train_loss: 0.1842, step time: 1.3676
Batch 176/248, train_loss: 0.7300, step time: 1.3862
Batch 177/248, train_loss: 0.2923, step time: 1.3866
Batch 178/248, train_loss: 0.5751, step time: 1.4100
Batch 179/248, train_loss: 0.0926, step time: 1.4077
Batch 180/248, train_loss: 0.3882, step time: 1.3692
Batch 181/248, train_loss: 0.1080, step time: 1.3795
Batch 182/248, train_loss: 0.9291, step time: 1.3626
Batch 183/248, train_loss: 0.3894, step time: 1.3997
Batch 184/248, train_loss: 0.5869, step time: 1.3894
Batch 185/248, train_loss: 0.1044, step time: 1.3763
Batch 186/248, train_loss: 0.1568, step time: 1.3989
Batch 187/248, train_loss: 0.2768, step time: 1.3652
Batch 188/248, train_loss: 0.2313, step time: 1.4048
Batch 189/248, train_loss: 0.9573, step time: 1.4023
Batch 190/248, train_loss: 0.1960, step time: 1.3877
Batch 191/248, train_loss: 0.9577, step time: 1.3841
Batch 192/248, train_loss: 0.2556, step time: 1.4046
Batch 193/248, train_loss: 0.3621, step time: 1.3853
Batch 194/248, train_loss: 0.0965, step time: 1.3982
Batch 195/248, train_loss: 0.7924, step time: 1.3918
Batch 196/248, train_loss: 0.9998, step time: 1.3581
Batch 197/248, train_loss: 0.2009, step time: 1.3985
Batch 198/248, train_loss: 0.9988, step time: 1.3812
Batch 199/248, train_loss: 0.2204, step time: 1.3765
Batch 200/248, train_loss: 0.1379, step time: 1.3642
Batch 201/248, train_loss: 0.1574, step time: 1.3913
Batch 202/248, train_loss: 0.4862, step time: 1.3802
Batch 203/248, train_loss: 0.5465, step time: 1.3739
Batch 204/248, train_loss: 0.1610, step time: 1.3551
Batch 205/248, train_loss: 0.5462, step time: 1.4044
Batch 206/248, train_loss: 0.6650, step time: 1.4024
Batch 207/248, train_loss: 0.1392, step time: 1.3741
Batch 208/248, train_loss: 0.1702, step time: 1.3566
Batch 209/248, train_loss: 0.1904, step time: 1.3562
Batch 210/248, train_loss: 0.0796, step time: 1.3628
Batch 211/248, train_loss: 0.0960, step time: 1.3625
Batch 212/248, train_loss: 0.2804, step time: 1.4008
Batch 213/248, train_loss: 0.1909, step time: 1.3911
Batch 214/248, train_loss: 0.0940, step time: 1.3919
Batch 215/248, train_loss: 0.4386, step time: 1.3920
Batch 216/248, train_loss: 0.1964, step time: 1.3708
Batch 217/248, train_loss: 0.2991, step time: 1.4009
Batch 218/248, train_loss: 0.8204, step time: 1.4108
Batch 219/248, train_loss: 0.0824, step time: 1.3886
Batch 220/248, train_loss: 0.2307, step time: 1.3880
Batch 221/248, train_loss: 0.2359, step time: 1.3848
Batch 222/248, train_loss: 0.1918, step time: 1.3706
Batch 223/248, train_loss: 0.0624, step time: 1.3898
Batch 224/248, train_loss: 0.0972, step time: 1.3803
Batch 225/248, train_loss: 0.9082, step time: 1.3736
Batch 226/248, train_loss: 0.2621, step time: 1.3636
Batch 227/248, train_loss: 0.1114, step time: 1.3799
Batch 228/248, train_loss: 0.1817, step time: 1.3774
Batch 229/248, train_loss: 0.0975, step time: 1.3740
Batch 230/248, train_loss: 0.0994, step time: 1.3932
Batch 231/248, train_loss: 0.8640, step time: 1.3761
Batch 232/248, train_loss: 0.0669, step time: 1.3673
Batch 233/248, train_loss: 0.9891, step time: 1.3791
Batch 234/248, train_loss: 0.4321, step time: 1.3814
Batch 235/248, train_loss: 0.2709, step time: 1.4064
Batch 236/248, train_loss: 0.7800, step time: 1.3917
Batch 237/248, train_loss: 0.1376, step time: 1.3848

```
Batch 238/248, train_loss: 0.1101, step time: 1.3618
Batch 239/248, train_loss: 0.1726, step time: 1.3909
Batch 240/248, train_loss: 0.5858, step time: 1.3939
Batch 241/248, train_loss: 0.9764, step time: 1.3728
Batch 242/248, train_loss: 0.1610, step time: 1.3732
Batch 243/248, train_loss: 0.4624, step time: 1.3896
Batch 244/248, train_loss: 0.4153, step time: 1.3911
Batch 245/248, train_loss: 0.0775, step time: 1.3778
Batch 246/248, train_loss: 0.5388, step time: 1.3886
Batch 247/248, train_loss: 0.1054, step time: 1.3752
Batch 248/248, train_loss: 0.9998, step time: 1.3750
```



VAL

```
Batch 1/31, val_loss: 0.8446
Batch 2/31, val_loss: 0.9907
Batch 3/31, val_loss: 0.9748
Batch 4/31, val_loss: 0.9487
Batch 5/31, val_loss: 0.9937
Batch 6/31, val_loss: 0.7380
Batch 7/31, val_loss: 0.8876
Batch 8/31, val_loss: 0.9494
Batch 9/31, val_loss: 0.7142
Batch 10/31, val_loss: 0.9197
Batch 11/31, val_loss: 0.8213
Batch 12/31, val_loss: 0.9719
Batch 13/31, val_loss: 0.9986
Batch 14/31, val_loss: 0.9372
Batch 15/31, val_loss: 0.9874
Batch 16/31, val_loss: 0.9720
Batch 17/31, val_loss: 0.9684
Batch 18/31, val_loss: 0.9361
Batch 19/31, val_loss: 0.7468
Batch 20/31, val_loss: 0.8759
Batch 21/31, val_loss: 0.8984
Batch 22/31, val_loss: 0.9703
Batch 23/31, val_loss: 0.9727
Batch 24/31, val_loss: 0.7511
Batch 25/31, val_loss: 0.8051
Batch 26/31, val_loss: 0.9243
Batch 27/31, val_loss: 0.9806
Batch 28/31, val_loss: 0.7482
Batch 29/31, val_loss: 0.9835
Batch 30/31, val_loss: 0.9662
Batch 31/31, val_loss: 0.9738
```



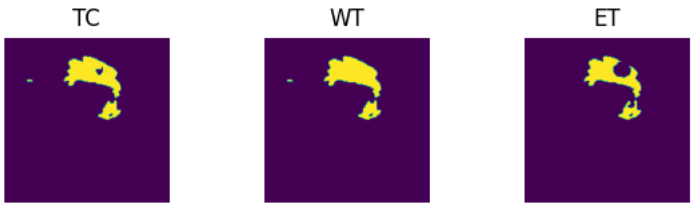
```
epoch 38
   average train loss: 0.3266
   average validation loss: 0.9081
   saved as best model: False
   current mean dice: 0.5619
   current TC dice: 0.5922
   current WT dice: 0.6027
   current ET dice: 0.5345
Best Mean Metric: 0.5817
time consuming of epoch 38 is: 1722.8203
----------
epoch 39/100
TRAIN
   Batch 1/248, train_loss: 0.0986, step time: 1.4247
   Batch 2/248, train_loss: 0.8064, step time: 1.3819
   Batch 3/248, train_loss: 0.3545, step time: 1.3888
   Batch 4/248, train_loss: 0.9591, step time: 1.3862
   Batch 5/248, train_loss: 0.2335, step time: 1.3834
   Batch 6/248, train_loss: 0.3906, step time: 1.3892
   Batch 7/248, train_loss: 0.0975, step time: 1.3914
   Batch 8/248, train_loss: 0.6893, step time: 1.3938
   Batch 9/248, train_loss: 0.0416, step time: 1.3644
   Batch 10/248, train_loss: 0.2901, step time: 1.3868
   Batch 11/248, train_loss: 0.2625, step time: 1.3959
   Batch 12/248, train_loss: 0.4260, step time: 1.3988
   Batch 13/248, train_loss: 0.2877, step time: 1.3897
   Batch 14/248, train_loss: 0.0630, step time: 1.3850
   Batch 15/248, train_loss: 0.3439, step time: 1.3609
   Batch 16/248, train_loss: 0.2882, step time: 1.3836
   Batch 17/248, train_loss: 0.2587, step time: 1.3874
   Batch 18/248, train_loss: 0.3026, step time: 1.3939
   Batch 19/248, train_loss: 0.8779, step time: 1.3858
   Batch 20/248, train_loss: 0.6880, step time: 1.3917
   Batch 21/248, train_loss: 0.0646, step time: 1.3638
   Batch 22/248, train_loss: 0.8789, step time: 1.3927
   Batch 23/248, train_loss: 0.7051, step time: 1.3695
   Batch 24/248, train_loss: 0.1317, step time: 1.3827
   Batch 25/248, train_loss: 0.0754, step time: 1.3797
   Batch 26/248, train_loss: 0.4136, step time: 1.3847
   Batch 27/248, train_loss: 0.0778, step time: 1.3777
   Batch 28/248, train_loss: 0.1602, step time: 1.3763
   Batch 29/248, train_loss: 0.5305, step time: 1.3751
   Batch 30/248, train_loss: 0.3078, step time: 1.3677
   Batch 31/248, train_loss: 0.2854, step time: 1.3932
   Batch 32/248, train_loss: 0.1024, step time: 1.3797
   Batch 33/248, train_loss: 0.0840, step time: 1.3909
   Batch 34/248, train_loss: 0.0469, step time: 1.3776
   Batch 35/248, train_loss: 0.1070, step time: 1.3633
   Batch 36/248, train_loss: 0.5258, step time: 1.3763
   Batch 37/248, train_loss: 0.1502, step time: 1.3599
   Batch 38/248, train_loss: 0.3181, step time: 1.3809
   Batch 39/248, train_loss: 0.1353, step time: 1.3792
   Batch 40/248, train_loss: 0.9797, step time: 1.3981
   Batch 41/248, train_loss: 0.1991, step time: 1.3950
   Batch 42/248, train_loss: 0.0636, step time: 1.3853
   Batch 43/248, train_loss: 0.0647, step time: 1.3737
   Batch 44/248, train_loss: 0.3489, step time: 1.3770
   Batch 45/248, train_loss: 0.9398, step time: 1.3872
   Batch 46/248, train_loss: 0.2487, step time: 1.3859
   Batch 47/248, train_loss: 0.0862, step time: 1.3579
   Batch 48/248, train_loss: 0.2164, step time: 1.3867
   Batch 49/248, train_loss: 0.4681, step time: 1.3644
   Batch 50/248, train_loss: 0.1596, step time: 1.3715
   Batch 51/248, train_loss: 0.1588, step time: 1.3773
   Batch 52/248, train_loss: 0.1509, step time: 1.3875
   Batch 53/248, train_loss: 0.4001, step time: 1.3780
   Batch 54/248, train_loss: 0.2475, step time: 1.4077
   Batch 55/248, train_loss: 0.3070, step time: 1.4050
   Batch 56/248, train_loss: 0.1558, step time: 1.3661
   Batch 57/248, train_loss: 0.2313, step time: 1.3662
   Batch 58/248, train_loss: 0.0937, step time: 1.3874
   Batch 59/248, train_loss: 0.0882, step time: 1.3834
   Batch 60/248, train_loss: 0.0692, step time: 1.3734
   Batch 61/248, train_loss: 0.1011, step time: 1.3656
   Batch 62/248, train_loss: 0.2406, step time: 1.3631
   Batch 63/248, train_loss: 0.4463, step time: 1.3782
   Batch 64/248, train_loss: 0.4736, step time: 1.4057
   Batch 65/248, train_loss: 0.4990, step time: 1.4008
   Batch 66/248, train_loss: 0.1252, step time: 1.3617
   Batch 67/248, train_loss: 0.0836, step time: 1.3872
   Batch 68/248, train_loss: 0.1120, step time: 1.3937
```

Batch 68/248, train_loss: 0.1126, step time: 1.3997
Batch 69/248, train_loss: 0.6949, step time: 1.4015
Batch 70/248, train_loss: 0.1175, step time: 1.3876
Batch 71/248, train_loss: 0.1297, step time: 1.3596
Batch 72/248, train_loss: 0.0637, step time: 1.3762
Batch 73/248, train_loss: 0.1723, step time: 1.4057
Batch 74/248, train_loss: 0.9962, step time: 1.3665
Batch 75/248, train_loss: 0.1161, step time: 1.3663
Batch 76/248, train_loss: 0.5458, step time: 1.3993
Batch 77/248, train_loss: 0.7853, step time: 1.3754
Batch 78/248, train_loss: 0.1235, step time: 1.3672
Batch 79/248, train_loss: 0.1281, step time: 1.4036
Batch 80/248, train_loss: 0.2218, step time: 1.3658
Batch 81/248, train_loss: 0.1927, step time: 1.3831
Batch 82/248, train_loss: 0.1243, step time: 1.4010
Batch 83/248, train_loss: 0.5192, step time: 1.3731
Batch 84/248, train_loss: 0.2669, step time: 1.4033
Batch 85/248, train_loss: 0.5126, step time: 1.3639
Batch 86/248, train_loss: 0.2272, step time: 1.3477
Batch 87/248, train_loss: 0.8949, step time: 1.3987
Batch 88/248, train_loss: 0.4639, step time: 1.4014
Batch 89/248, train_loss: 0.0769, step time: 1.3878
Batch 90/248, train_loss: 0.2327, step time: 1.3908
Batch 91/248, train_loss: 0.3513, step time: 1.4080
Batch 92/248, train_loss: 0.9247, step time: 1.3664
Batch 93/248, train_loss: 0.1479, step time: 1.3645
Batch 94/248, train_loss: 0.2643, step time: 1.3798
Batch 95/248, train_loss: 0.1726, step time: 1.3652
Batch 96/248, train_loss: 0.2079, step time: 1.3990
Batch 97/248, train_loss: 0.7865, step time: 1.3900
Batch 98/248, train_loss: 0.1170, step time: 1.3646
Batch 99/248, train_loss: 0.3871, step time: 1.3840
Batch 100/248, train_loss: 0.3199, step time: 1.3779
Batch 101/248, train_loss: 0.0502, step time: 1.3754
Batch 102/248, train_loss: 0.3089, step time: 1.3684
Batch 103/248, train_loss: 0.3493, step time: 1.3958
Batch 104/248, train_loss: 0.3163, step time: 1.3714
Batch 105/248, train_loss: 0.0833, step time: 1.3802
Batch 106/248, train_loss: 0.1287, step time: 1.3956
Batch 107/248, train_loss: 0.3631, step time: 1.3719
Batch 108/248, train_loss: 0.5687, step time: 1.4059
Batch 109/248, train_loss: 0.8179, step time: 1.3849
Batch 110/248, train_loss: 0.9975, step time: 1.4000
Batch 111/248, train_loss: 0.1174, step time: 1.4114
Batch 112/248, train_loss: 0.2024, step time: 1.4130
Batch 113/248, train_loss: 0.9062, step time: 1.4171
Batch 114/248, train_loss: 0.1423, step time: 1.3657
Batch 115/248, train_loss: 0.1826, step time: 1.3822
Batch 116/248, train_loss: 0.0962, step time: 1.3527
Batch 117/248, train_loss: 0.8387, step time: 1.3930
Batch 118/248, train_loss: 0.3401, step time: 1.3572
Batch 119/248, train_loss: 0.5219, step time: 1.3630
Batch 120/248, train_loss: 0.4115, step time: 1.3906
Batch 121/248, train_loss: 0.3070, step time: 1.3881
Batch 122/248, train_loss: 0.4358, step time: 1.3773
Batch 123/248, train_loss: 0.0674, step time: 1.3917
Batch 124/248, train_loss: 0.3021, step time: 1.3976
Batch 125/248, train_loss: 0.6033, step time: 1.4127
Batch 126/248, train_loss: 0.4895, step time: 1.4002
Batch 127/248, train_loss: 0.1714, step time: 1.4096
Batch 128/248, train_loss: 0.2361, step time: 1.4032
Batch 129/248, train_loss: 0.1367, step time: 1.3757
Batch 130/248, train_loss: 0.1148, step time: 1.3678
Batch 131/248, train_loss: 0.5869, step time: 1.3918
Batch 132/248, train_loss: 0.2559, step time: 1.3768
Batch 133/248, train_loss: 0.1361, step time: 1.3956
Batch 134/248, train_loss: 0.9809, step time: 1.3831
Batch 135/248, train_loss: 0.3603, step time: 1.4053
Batch 136/248, train_loss: 0.2370, step time: 1.3775
Batch 137/248, train_loss: 0.1368, step time: 1.3668
Batch 138/248, train_loss: 0.1122, step time: 1.3845
Batch 139/248, train_loss: 0.1450, step time: 1.3621
Batch 140/248, train_loss: 0.2007, step time: 1.3682
Batch 141/248, train_loss: 0.1738, step time: 1.3876
Batch 142/248, train_loss: 0.8061, step time: 1.3984
Batch 143/248, train_loss: 0.2316, step time: 1.3831
Batch 144/248, train_loss: 0.1560, step time: 1.3938
Batch 145/248, train_loss: 0.1237, step time: 1.3698
Batch 146/248, train_loss: 0.3909, step time: 1.3788
Batch 147/248, train_loss: 0.0545, step time: 1.3483
Batch 148/248, train_loss: 0.7529, step time: 1.3841
Batch 149/248, train_loss: 0.1320, step time: 1.3752
Batch 150/248, train_loss: 0.6921, step time: 1.3723
Batch 151/248, train_loss: 0.3097, step time: 1.3864
Batch 152/248, train_loss: 0.0583, step time: 1.3751
Batch 153/248, train_loss: 0.2107, step time: 1.4011

```
Batch 153/248, train_loss: 0.2167, step time: 1.4041
Batch 154/248, train_loss: 0.5455, step time: 1.3730
Batch 155/248, train_loss: 0.0987, step time: 1.3745
Batch 156/248, train_loss: 0.2088, step time: 1.3685
Batch 157/248, train_loss: 0.3530, step time: 1.3971
Batch 158/248, train_loss: 0.9843, step time: 1.3721
Batch 159/248, train_loss: 0.4659, step time: 1.4067
Batch 160/248, train_loss: 0.1035, step time: 1.3789
Batch 161/248, train_loss: 0.1041, step time: 1.4043
Batch 162/248, train_loss: 0.0789, step time: 1.3692
Batch 163/248, train_loss: 0.1630, step time: 1.3694
Batch 164/248, train_loss: 0.3022, step time: 1.3743
Batch 165/248, train_loss: 0.7784, step time: 1.3992
Batch 166/248, train_loss: 0.1084, step time: 1.3988
Batch 167/248, train_loss: 0.2121, step time: 1.3940
Batch 168/248, train_loss: 0.1719, step time: 1.3640
Batch 169/248, train_loss: 0.1110, step time: 1.3613
Batch 170/248, train_loss: 0.6181, step time: 1.3962
Batch 171/248, train_loss: 0.0904, step time: 1.3855
Batch 172/248, train_loss: 0.6095, step time: 1.3812
Batch 173/248, train_loss: 0.0871, step time: 1.3875
Batch 174/248, train_loss: 0.3956, step time: 1.3950
Batch 175/248, train_loss: 0.1191, step time: 1.3732
Batch 176/248, train_loss: 0.4013, step time: 1.3921
Batch 177/248, train_loss: 0.3676, step time: 1.3910
Batch 178/248, train_loss: 0.3512, step time: 1.3725
Batch 179/248, train_loss: 0.2803, step time: 1.3718
Batch 180/248, train_loss: 0.3917, step time: 1.3610
Batch 181/248, train_loss: 0.1186, step time: 1.3929
Batch 182/248, train_loss: 0.8989, step time: 1.3679
Batch 183/248, train_loss: 0.1219, step time: 1.3952
Batch 184/248, train_loss: 0.2547, step time: 1.3995
Batch 185/248, train_loss: 0.1345, step time: 1.3765
Batch 186/248, train_loss: 0.0856, step time: 1.3861
Batch 187/248, train_loss: 0.2341, step time: 1.3762
Batch 188/248, train_loss: 0.2119, step time: 1.3921
Batch 189/248, train_loss: 0.5985, step time: 1.4072
Batch 190/248, train_loss: 0.1940, step time: 1.3881
Batch 191/248, train_loss: 0.6797, step time: 1.3718
Batch 192/248, train_loss: 0.2826, step time: 1.3674
Batch 193/248, train_loss: 0.2839, step time: 1.3881
Batch 194/248, train_loss: 0.1290, step time: 1.3756
Batch 195/248, train_loss: 0.5991, step time: 1.3832
Batch 196/248, train_loss: 0.9970, step time: 1.3843
Batch 197/248, train_loss: 0.1912, step time: 1.3828
Batch 198/248, train_loss: 0.9838, step time: 1.3918
Batch 199/248, train_loss: 0.1558, step time: 1.4042
Batch 200/248, train_loss: 0.1362, step time: 1.3757
Batch 201/248, train_loss: 0.1405, step time: 1.3993
Batch 202/248, train_loss: 0.4458, step time: 1.4038
Batch 203/248, train_loss: 0.7003, step time: 1.3989
Batch 204/248, train_loss: 0.1154, step time: 1.3891
Batch 205/248, train_loss: 0.2603, step time: 1.3862
Batch 206/248, train_loss: 0.6920, step time: 1.4015
Batch 207/248, train_loss: 0.0958, step time: 1.3905
Batch 208/248, train_loss: 0.1292, step time: 1.3826
Batch 209/248, train_loss: 0.1751, step time: 1.3947
Batch 210/248, train_loss: 0.0760, step time: 1.3742
Batch 211/248, train_loss: 0.0855, step time: 1.3918
Batch 212/248, train_loss: 0.3264, step time: 1.3747
Batch 213/248, train_loss: 0.1797, step time: 1.3890
Batch 214/248, train_loss: 0.0912, step time: 1.3568
Batch 215/248, train_loss: 0.3723, step time: 1.3604
Batch 216/248, train_loss: 0.1730, step time: 1.3717
Batch 217/248, train_loss: 0.2853, step time: 1.3717
Batch 218/248, train_loss: 0.7547, step time: 1.3825
Batch 219/248, train_loss: 0.0808, step time: 1.3904
Batch 220/248, train_loss: 0.2406, step time: 1.3712
Batch 221/248, train_loss: 0.2742, step time: 1.3901
Batch 222/248, train_loss: 0.2198, step time: 1.4016
Batch 223/248, train_loss: 0.0461, step time: 1.3599
Batch 224/248, train_loss: 0.0969, step time: 1.3731
Batch 225/248, train_loss: 0.3777, step time: 1.3776
Batch 226/248, train_loss: 0.1921, step time: 1.3998
Batch 227/248, train_loss: 0.1006, step time: 1.3566
Batch 228/248, train_loss: 0.1617, step time: 1.3550
Batch 229/248, train_loss: 0.1051, step time: 1.3814
Batch 230/248, train_loss: 0.0667, step time: 1.3784
Batch 231/248, train_loss: 0.3286, step time: 1.3875
Batch 232/248, train_loss: 0.0720, step time: 1.3974
Batch 233/248, train_loss: 0.9828, step time: 1.3800
Batch 234/248, train_loss: 0.5133, step time: 1.3732
Batch 235/248, train_loss: 0.2478, step time: 1.4080
Batch 236/248, train_loss: 0.7730, step time: 1.4011
Batch 237/248, train_loss: 0.1352, step time: 1.3783
```

```
Batch 238/248, train_loss: 0.0995, step time: 1.3934
Batch 239/248, train_loss: 0.0520, step time: 1.3645
Batch 240/248, train_loss: 0.3974, step time: 1.3904
Batch 241/248, train_loss: 0.8905, step time: 1.3829
Batch 242/248, train_loss: 0.1767, step time: 1.3940
Batch 243/248, train_loss: 0.4698, step time: 1.3728
Batch 244/248, train_loss: 0.4314, step time: 1.3768
Batch 245/248, train_loss: 0.0864, step time: 1.3723
Batch 246/248, train_loss: 0.6365, step time: 1.3641
Batch 247/248, train_loss: 0.0888, step time: 1.3758
Batch 248/248, train_loss: 0.9997, step time: 1.3631
```

Labels

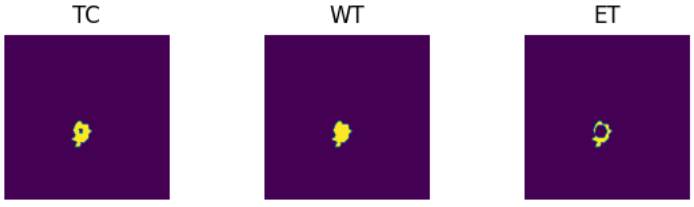


Predictions

VAL

```
Batch 1/31, val_loss: 0.8379
Batch 2/31, val_loss: 0.9957
Batch 3/31, val_loss: 0.9734
Batch 4/31, val_loss: 0.9525
Batch 5/31, val_loss: 0.9932
Batch 6/31, val_loss: 0.7099
Batch 7/31, val_loss: 0.8455
Batch 8/31, val_loss: 0.9632
Batch 9/31, val_loss: 0.7011
Batch 10/31, val_loss: 0.9160
Batch 11/31, val_loss: 0.8206
Batch 12/31, val_loss: 0.9720
Batch 13/31, val_loss: 0.9936
Batch 14/31, val_loss: 0.9397
Batch 15/31, val_loss: 0.9871
Batch 16/31, val_loss: 0.9722
Batch 17/31, val_loss: 0.9715
Batch 18/31, val_loss: 0.9557
Batch 19/31, val_loss: 0.7490
Batch 20/31, val_loss: 0.8610
Batch 21/31, val_loss: 0.8934
Batch 22/31, val_loss: 0.9730
Batch 23/31, val_loss: 0.9725
Batch 24/31, val_loss: 0.7424
Batch 25/31, val_loss: 0.8025
Batch 26/31, val_loss: 0.9253
Batch 27/31, val_loss: 0.9833
Batch 28/31, val_loss: 0.7502
Batch 29/31, val_loss: 0.9826
Batch 30/31, val_loss: 0.9652
Batch 31/31, val_loss: 0.9732
```

Labels



Predictions

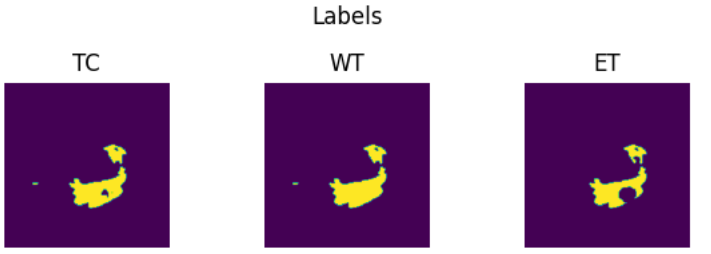


```
epoch 39
   average train loss: 0.3226
   average validation loss: 0.9056
   saved as best model: True
   current mean dice: 0.5853
   current TC dice: 0.6146
   current WT dice: 0.6245
   current ET dice: 0.5574
Best Mean Metric: 0.5853
time consuming of epoch 39 is: 1687.6104
----------
epoch 40/100
TRAIN
   Batch 1/248, train_loss: 0.0718, step time: 1.4401
   Batch 2/248, train_loss: 0.7806, step time: 1.3939
   Batch 3/248, train_loss: 0.4998, step time: 1.3797
   Batch 4/248, train_loss: 0.9887, step time: 1.3745
   Batch 5/248, train_loss: 0.2269, step time: 1.3874
   Batch 6/248, train_loss: 0.5736, step time: 1.4070
   Batch 7/248, train_loss: 0.0764, step time: 1.3598
   Batch 8/248, train_loss: 0.6870, step time: 1.3945
   Batch 9/248, train_loss: 0.0449, step time: 1.3945
   Batch 10/248, train_loss: 0.2396, step time: 1.3704
   Batch 11/248, train_loss: 0.2444, step time: 1.3827
   Batch 12/248, train_loss: 0.4223, step time: 1.4149
   Batch 13/248, train_loss: 0.2938, step time: 1.3943
   Batch 14/248, train_loss: 0.0488, step time: 1.3642
   Batch 15/248, train_loss: 0.3384, step time: 1.3742
   Batch 16/248, train_loss: 0.1659, step time: 1.3894
   Batch 17/248, train_loss: 0.5373, step time: 1.3787
   Batch 18/248, train_loss: 0.3183, step time: 1.3973
   Batch 19/248, train_loss: 0.1189, step time: 1.3937
   Batch 20/248, train_loss: 0.2638, step time: 1.3866
   Batch 21/248, train_loss: 0.0522, step time: 1.3591
   Batch 22/248, train_loss: 0.9308, step time: 1.3663
   Batch 23/248, train_loss: 0.8327, step time: 1.3752
   Batch 24/248, train_loss: 0.1165, step time: 1.3968
   Batch 25/248, train_loss: 0.0626, step time: 1.3761
   Batch 26/248, train_loss: 0.3931, step time: 1.3752
   Batch 27/248, train_loss: 0.0626, step time: 1.3630
   Batch 28/248, train_loss: 0.2162, step time: 1.3897
   Batch 29/248, train_loss: 0.3423, step time: 1.3978
   Batch 30/248, train_loss: 0.5439, step time: 1.3756
   Batch 31/248, train_loss: 0.6952, step time: 1.3812
   Batch 32/248, train_loss: 0.0846, step time: 1.3722
   Batch 33/248, train_loss: 0.1223, step time: 1.3746
   Batch 34/248, train_loss: 0.0525, step time: 1.3632
   Batch 35/248, train_loss: 0.0780, step time: 1.3656
   Batch 36/248, train_loss: 0.6244, step time: 1.3912
   Batch 37/248, train_loss: 0.1554, step time: 1.3742
   Batch 38/248, train_loss: 0.2855, step time: 1.3939
   Batch 39/248, train_loss: 0.1885, step time: 1.3590
   Batch 40/248, train_loss: 0.9230, step time: 1.3882
   Batch 41/248, train_loss: 0.1830, step time: 1.3617
   Batch 42/248, train_loss: 0.1126, step time: 1.3741
   Batch 43/248, train_loss: 0.0723, step time: 1.3788
   Batch 44/248, train_loss: 0.2640, step time: 1.4086
   Batch 45/248, train_loss: 0.8222, step time: 1.4110
   Batch 46/248, train_loss: 0.1547, step time: 1.3709
   Batch 47/248, train_loss: 0.0999, step time: 1.4033
   Batch 48/248, train_loss: 0.5239, step time: 1.3809
   Batch 49/248, train_loss: 0.4658, step time: 1.3785
   Batch 50/248, train_loss: 0.1345, step time: 1.3590
   Batch 51/248, train_loss: 0.1947, step time: 1.3915
   Batch 52/248, train_loss: 0.1948, step time: 1.3984
   Batch 53/248, train_loss: 0.3957, step time: 1.3835
   Batch 54/248, train_loss: 0.2549, step time: 1.4049
   Batch 55/248, train_loss: 0.2877, step time: 1.3867
   Batch 56/248, train_loss: 0.2292, step time: 1.4100
   Batch 57/248, train_loss: 0.2557, step time: 1.3550
   Batch 58/248, train_loss: 0.0834, step time: 1.3646
   Batch 59/248, train_loss: 0.1009, step time: 1.3881
   Batch 60/248, train_loss: 0.1029, step time: 1.3770
   Batch 61/248, train_loss: 0.0947, step time: 1.3906
   Batch 62/248, train_loss: 0.2172, step time: 1.3810
   Batch 63/248, train_loss: 0.5133, step time: 1.3747
   Batch 64/248, train_loss: 0.7061, step time: 1.3974
   Batch 65/248, train_loss: 0.2459, step time: 1.3888
   Batch 66/248, train_loss: 0.1733, step time: 1.3594
   Batch 67/248, train_loss: 0.0743, step time: 1.3660
```

```
Batch 68/248, train_loss: 0.1361, step time: 1.3816
Batch 69/248, train_loss: 0.5841, step time: 1.3739
Batch 70/248, train_loss: 0.1617, step time: 1.4077
Batch 71/248, train_loss: 0.1417, step time: 1.3778
Batch 72/248, train_loss: 0.0608, step time: 1.3822
Batch 73/248, train_loss: 0.1909, step time: 1.3693
Batch 74/248, train_loss: 0.9712, step time: 1.3736
Batch 75/248, train_loss: 0.1285, step time: 1.4051
Batch 76/248, train_loss: 0.7269, step time: 1.3790
Batch 77/248, train_loss: 0.8146, step time: 1.3827
Batch 78/248, train_loss: 0.1553, step time: 1.3644
Batch 79/248, train_loss: 0.1407, step time: 1.3910
Batch 80/248, train_loss: 0.1963, step time: 1.3934
Batch 81/248, train_loss: 0.1372, step time: 1.3856
Batch 82/248, train_loss: 0.1022, step time: 1.3804
Batch 83/248, train_loss: 0.5450, step time: 1.4007
Batch 84/248, train_loss: 0.2377, step time: 1.3938
Batch 85/248, train_loss: 0.4034, step time: 1.3924
Batch 86/248, train_loss: 0.2193, step time: 1.3868
Batch 87/248, train_loss: 0.9521, step time: 1.3732
Batch 88/248, train_loss: 0.3703, step time: 1.3792
Batch 89/248, train_loss: 0.0945, step time: 1.3560
Batch 90/248, train_loss: 0.7201, step time: 1.3903
Batch 91/248, train_loss: 0.4085, step time: 1.4056
Batch 92/248, train_loss: 0.9137, step time: 1.4055
Batch 93/248, train_loss: 0.1546, step time: 1.3906
Batch 94/248, train_loss: 0.3231, step time: 1.3956
Batch 95/248, train_loss: 0.1869, step time: 1.3715
Batch 96/248, train_loss: 0.1508, step time: 1.3921
Batch 97/248, train_loss: 0.6459, step time: 1.4145
Batch 98/248, train_loss: 0.1405, step time: 1.3998
Batch 99/248, train_loss: 0.4078, step time: 1.3973
Batch 100/248, train_loss: 0.2993, step time: 1.3928
Batch 101/248, train_loss: 0.0472, step time: 1.3505
Batch 102/248, train_loss: 0.1138, step time: 1.3571
Batch 103/248, train_loss: 0.3938, step time: 1.3608
Batch 104/248, train_loss: 0.3333, step time: 1.3900
Batch 105/248, train_loss: 0.0823, step time: 1.3700
Batch 106/248, train_loss: 0.1757, step time: 1.3802
Batch 107/248, train_loss: 0.2355, step time: 1.3662
Batch 108/248, train_loss: 0.6525, step time: 1.4032
Batch 109/248, train_loss: 0.9908, step time: 1.3821
Batch 110/248, train_loss: 0.9977, step time: 1.3938
Batch 111/248, train_loss: 0.0954, step time: 1.3819
Batch 112/248, train_loss: 0.0984, step time: 1.4056
Batch 113/248, train_loss: 0.5470, step time: 1.3979
Batch 114/248, train_loss: 0.1391, step time: 1.4009
Batch 115/248, train_loss: 0.1493, step time: 1.3694
Batch 116/248, train_loss: 0.0768, step time: 1.3972
Batch 117/248, train_loss: 0.9387, step time: 1.3921
Batch 118/248, train_loss: 0.2442, step time: 1.4051
Batch 119/248, train_loss: 0.4409, step time: 1.3764
Batch 120/248, train_loss: 0.2958, step time: 1.3665
Batch 121/248, train_loss: 0.2717, step time: 1.3808
Batch 122/248, train_loss: 0.4164, step time: 1.3838
Batch 123/248, train_loss: 0.0722, step time: 1.3863
Batch 124/248, train_loss: 0.2605, step time: 1.3935
Batch 125/248, train_loss: 0.5321, step time: 1.3822
Batch 126/248, train_loss: 0.2237, step time: 1.4067
Batch 127/248, train_loss: 0.1280, step time: 1.4030
Batch 128/248, train_loss: 0.1608, step time: 1.3722
Batch 129/248, train_loss: 0.0928, step time: 1.3877
Batch 130/248, train_loss: 0.1159, step time: 1.3697
Batch 131/248, train_loss: 0.4876, step time: 1.3862
Batch 132/248, train_loss: 0.2193, step time: 1.3605
Batch 133/248, train_loss: 0.1283, step time: 1.3683
Batch 134/248, train_loss: 0.9543, step time: 1.4026
Batch 135/248, train_loss: 0.2201, step time: 1.3647
Batch 136/248, train_loss: 0.1813, step time: 1.3659
Batch 137/248, train_loss: 0.1323, step time: 1.3661
Batch 138/248, train_loss: 0.0990, step time: 1.3604
Batch 139/248, train_loss: 0.1629, step time: 1.3860
Batch 140/248, train_loss: 0.1661, step time: 1.3822
Batch 141/248, train_loss: 0.1797, step time: 1.3943
Batch 142/248, train_loss: 0.5220, step time: 1.4061
Batch 143/248, train_loss: 0.2333, step time: 1.3692
Batch 144/248, train_loss: 0.1329, step time: 1.4031
Batch 145/248, train_loss: 0.0911, step time: 1.3780
Batch 146/248, train_loss: 0.3718, step time: 1.3581
Batch 147/248, train_loss: 0.0466, step time: 1.3757
Batch 148/248, train_loss: 0.8734, step time: 1.3689
Batch 149/248, train_loss: 0.1693, step time: 1.4025
Batch 150/248, train_loss: 0.6098, step time: 1.3774
Batch 151/248, train_loss: 0.2572, step time: 1.3581
Batch 152/248, train_loss: 0.0515, step time: 1.3864
```

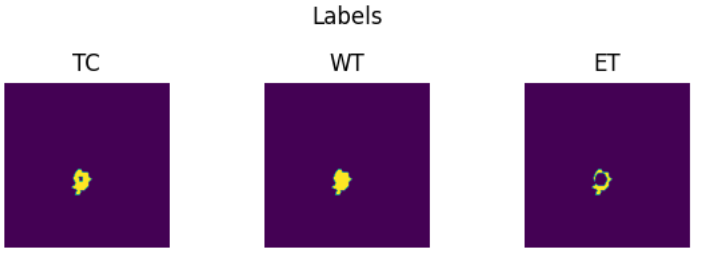
```
Batch 153/248, train_loss: 0.2645, step time: 1.3575
Batch 154/248, train_loss: 0.5607, step time: 1.3759
Batch 155/248, train_loss: 0.1268, step time: 1.3798
Batch 156/248, train_loss: 0.1815, step time: 1.3782
Batch 157/248, train_loss: 0.3147, step time: 1.3976
Batch 158/248, train_loss: 0.9696, step time: 1.3833
Batch 159/248, train_loss: 0.5360, step time: 1.3893
Batch 160/248, train_loss: 0.1108, step time: 1.3659
Batch 161/248, train_loss: 0.0963, step time: 1.3853
Batch 162/248, train_loss: 0.0761, step time: 1.3891
Batch 163/248, train_loss: 0.1870, step time: 1.3727
Batch 164/248, train_loss: 0.3123, step time: 1.3952
Batch 165/248, train_loss: 0.8052, step time: 1.4022
Batch 166/248, train_loss: 0.1052, step time: 1.3594
Batch 167/248, train_loss: 0.2115, step time: 1.3773
Batch 168/248, train_loss: 0.1655, step time: 1.3961
Batch 169/248, train_loss: 0.0959, step time: 1.3902
Batch 170/248, train_loss: 0.7295, step time: 1.3799
Batch 171/248, train_loss: 0.1116, step time: 1.3715
Batch 172/248, train_loss: 0.5484, step time: 1.4089
Batch 173/248, train_loss: 0.0999, step time: 1.3826
Batch 174/248, train_loss: 0.8439, step time: 1.3757
Batch 175/248, train_loss: 0.1664, step time: 1.4020
Batch 176/248, train_loss: 0.3874, step time: 1.3740
Batch 177/248, train_loss: 0.2948, step time: 1.4107
Batch 178/248, train_loss: 0.7770, step time: 1.3707
Batch 179/248, train_loss: 0.0811, step time: 1.3613
Batch 180/248, train_loss: 0.4592, step time: 1.3979
Batch 181/248, train_loss: 0.0976, step time: 1.3747
Batch 182/248, train_loss: 0.8964, step time: 1.3609
Batch 183/248, train_loss: 0.1266, step time: 1.3951
Batch 184/248, train_loss: 0.2105, step time: 1.3797
Batch 185/248, train_loss: 0.0897, step time: 1.3973
Batch 186/248, train_loss: 0.1121, step time: 1.3855
Batch 187/248, train_loss: 0.1758, step time: 1.3988
Batch 188/248, train_loss: 0.8410, step time: 1.4099
Batch 189/248, train_loss: 0.6725, step time: 1.3667
Batch 190/248, train_loss: 0.1555, step time: 1.3884
Batch 191/248, train_loss: 0.6956, step time: 1.3747
Batch 192/248, train_loss: 0.2350, step time: 1.3853
Batch 193/248, train_loss: 0.2409, step time: 1.3678
Batch 194/248, train_loss: 0.1126, step time: 1.4032
Batch 195/248, train_loss: 0.6090, step time: 1.4105
Batch 196/248, train_loss: 0.9997, step time: 1.3728
Batch 197/248, train_loss: 0.1765, step time: 1.3687
Batch 198/248, train_loss: 0.9718, step time: 1.4055
Batch 199/248, train_loss: 0.2263, step time: 1.3750
Batch 200/248, train_loss: 0.1534, step time: 1.3640
Batch 201/248, train_loss: 0.1292, step time: 1.3656
Batch 202/248, train_loss: 0.4742, step time: 1.3716
Batch 203/248, train_loss: 0.4646, step time: 1.3694
Batch 204/248, train_loss: 0.0882, step time: 1.3643
Batch 205/248, train_loss: 0.2818, step time: 1.4005
Batch 206/248, train_loss: 0.4735, step time: 1.3657
Batch 207/248, train_loss: 0.1240, step time: 1.3751
Batch 208/248, train_loss: 0.1699, step time: 1.3677
Batch 209/248, train_loss: 0.1303, step time: 1.3870
Batch 210/248, train_loss: 0.0741, step time: 1.4030
Batch 211/248, train_loss: 0.0825, step time: 1.3922
Batch 212/248, train_loss: 0.4496, step time: 1.3994
Batch 213/248, train_loss: 0.1939, step time: 1.3683
Batch 214/248, train_loss: 0.0921, step time: 1.3769
Batch 215/248, train_loss: 0.3886, step time: 1.4043
Batch 216/248, train_loss: 0.2095, step time: 1.3732
Batch 217/248, train_loss: 0.3816, step time: 1.3882
Batch 218/248, train_loss: 0.7449, step time: 1.4029
Batch 219/248, train_loss: 0.0789, step time: 1.3787
Batch 220/248, train_loss: 0.2124, step time: 1.3612
Batch 221/248, train_loss: 0.2586, step time: 1.3698
Batch 222/248, train_loss: 0.2124, step time: 1.3880
Batch 223/248, train_loss: 0.0456, step time: 1.3713
Batch 224/248, train_loss: 0.1132, step time: 1.3798
Batch 225/248, train_loss: 0.2889, step time: 1.3628
Batch 226/248, train_loss: 0.1281, step time: 1.3580
Batch 227/248, train_loss: 0.1025, step time: 1.3645
Batch 228/248, train_loss: 0.1495, step time: 1.3609
Batch 229/248, train_loss: 0.1076, step time: 1.3640
Batch 230/248, train_loss: 0.1052, step time: 1.3770
Batch 231/248, train_loss: 0.8628, step time: 1.4007
Batch 232/248, train_loss: 0.0752, step time: 1.3977
Batch 233/248, train_loss: 0.9774, step time: 1.3888
Batch 234/248, train_loss: 0.4368, step time: 1.3921
Batch 235/248, train_loss: 0.2911, step time: 1.3943
Batch 236/248, train_loss: 0.7784, step time: 1.3824
Batch 237/248, train_loss: 0.1293, step time: 1.3734
```

```
Batch 238/248, train_loss: 0.0878, step time: 1.3610
Batch 239/248, train_loss: 0.0976, step time: 1.3975
Batch 240/248, train_loss: 0.3881, step time: 1.3682
Batch 241/248, train_loss: 0.9859, step time: 1.3898
Batch 242/248, train_loss: 0.1685, step time: 1.3615
Batch 243/248, train_loss: 0.4648, step time: 1.4032
Batch 244/248, train_loss: 0.3971, step time: 1.3625
Batch 245/248, train_loss: 0.0842, step time: 1.3617
Batch 246/248, train_loss: 0.5895, step time: 1.4078
Batch 247/248, train_loss: 0.0797, step time: 1.3647
Batch 248/248, train_loss: 0.9998, step time: 1.3763
```



VAL

```
Batch 1/31, val_loss: 0.8380
Batch 2/31, val_loss: 0.9971
Batch 3/31, val_loss: 0.9742
Batch 4/31, val_loss: 0.9518
Batch 5/31, val_loss: 0.9941
Batch 6/31, val_loss: 0.7218
Batch 7/31, val_loss: 0.8805
Batch 8/31, val_loss: 0.9658
Batch 9/31, val_loss: 0.6992
Batch 10/31, val_loss: 0.9121
Batch 11/31, val_loss: 0.8179
Batch 12/31, val_loss: 0.9739
Batch 13/31, val_loss: 0.9797
Batch 14/31, val_loss: 0.9408
Batch 15/31, val_loss: 0.9863
Batch 16/31, val_loss: 0.9715
Batch 17/31, val_loss: 0.9702
Batch 18/31, val_loss: 0.9376
Batch 19/31, val_loss: 0.7451
Batch 20/31, val_loss: 0.8598
Batch 21/31, val_loss: 0.8872
Batch 22/31, val_loss: 0.9763
Batch 23/31, val_loss: 0.9737
Batch 24/31, val_loss: 0.7455
Batch 25/31, val_loss: 0.8019
Batch 26/31, val_loss: 0.9233
Batch 27/31, val_loss: 0.9817
Batch 28/31, val_loss: 0.7465
Batch 29/31, val_loss: 0.9811
Batch 30/31, val_loss: 0.9629
Batch 31/31, val_loss: 0.9735
```



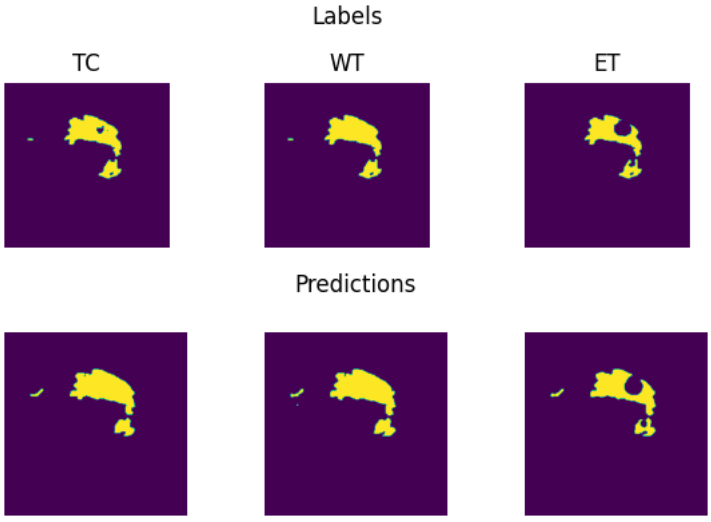
  

```
epoch 40
   average train loss: 0.3232
   average validation loss: 0.9055
   saved as best model: True
   current mean dice: 0.5971
   current TC dice: 0.6325
   current WT dice: 0.6368
   current ET dice: 0.5650
Best Mean Metric: 0.5971
time consuming of epoch 40 is: 1685.1496
----------
epoch 41/100
TRAIN
   Batch 1/248, train_loss: 0.0792, step time: 1.4253
   Batch 2/248, train_loss: 0.8043, step time: 1.3830
   Batch 3/248, train_loss: 0.3508, step time: 1.3970
   Batch 4/248, train_loss: 0.9900, step time: 1.3673
   Batch 5/248, train_loss: 0.2414, step time: 1.3906
   Batch 6/248, train_loss: 0.2554, step time: 1.3755
   Batch 7/248, train_loss: 0.0646, step time: 1.3678
   Batch 8/248, train_loss: 0.7007, step time: 1.3795
   Batch 9/248, train_loss: 0.0423, step time: 1.3608
   Batch 10/248, train_loss: 0.2380, step time: 1.3985
   Batch 11/248, train_loss: 0.2184, step time: 1.3766
   Batch 12/248, train_loss: 0.4078, step time: 1.3748
   Batch 13/248, train_loss: 0.3087, step time: 1.3826
   Batch 14/248, train_loss: 0.0714, step time: 1.3916
   Batch 15/248, train_loss: 0.3212, step time: 1.3952
   Batch 16/248, train_loss: 0.1751, step time: 1.3877
   Batch 17/248, train_loss: 0.2649, step time: 1.3625
   Batch 18/248, train_loss: 0.2991, step time: 1.3831
   Batch 19/248, train_loss: 0.1631, step time: 1.3825
   Batch 20/248, train_loss: 0.0885, step time: 1.3843
   Batch 21/248, train_loss: 0.0483, step time: 1.3587
   Batch 22/248, train_loss: 0.9977, step time: 1.3695
   Batch 23/248, train_loss: 0.6897, step time: 1.4044
   Batch 24/248, train_loss: 0.0881, step time: 1.3738
   Batch 25/248, train_loss: 0.0652, step time: 1.3723
   Batch 26/248, train_loss: 0.3866, step time: 1.3963
   Batch 27/248, train_loss: 0.0671, step time: 1.3721
   Batch 28/248, train_loss: 0.1656, step time: 1.3698
   Batch 29/248, train_loss: 0.3821, step time: 1.4018
   Batch 30/248, train_loss: 0.5203, step time: 1.3718
   Batch 31/248, train_loss: 0.3448, step time: 1.3844
   Batch 32/248, train_loss: 0.0773, step time: 1.3914
   Batch 33/248, train_loss: 0.0763, step time: 1.3755
   Batch 34/248, train_loss: 0.0529, step time: 1.3754
   Batch 35/248, train_loss: 0.0698, step time: 1.3795
   Batch 36/248, train_loss: 0.9574, step time: 1.3730
   Batch 37/248, train_loss: 0.1303, step time: 1.3911
   Batch 38/248, train_loss: 0.3158, step time: 1.4048
   Batch 39/248, train_loss: 0.1686, step time: 1.3982
   Batch 40/248, train_loss: 0.7968, step time: 1.3794
   Batch 41/248, train_loss: 0.2415, step time: 1.4008
   Batch 42/248, train_loss: 0.0715, step time: 1.3767
   Batch 43/248, train_loss: 0.0968, step time: 1.3810
   Batch 44/248, train_loss: 0.1781, step time: 1.3761
   Batch 45/248, train_loss: 0.6416, step time: 1.3764
   Batch 46/248, train_loss: 0.1578, step time: 1.3701
   Batch 47/248, train_loss: 0.0818, step time: 1.3817
   Batch 48/248, train_loss: 0.3945, step time: 1.3699
   Batch 49/248, train_loss: 0.4175, step time: 1.3732
   Batch 50/248, train_loss: 0.1563, step time: 1.3698
   Batch 51/248, train_loss: 0.1374, step time: 1.3741
   Batch 52/248, train_loss: 0.1384, step time: 1.3718
   Batch 53/248, train_loss: 0.4195, step time: 1.3799
   Batch 54/248, train_loss: 0.2688, step time: 1.3946
   Batch 55/248, train_loss: 0.2723, step time: 1.3939
   Batch 56/248, train_loss: 0.1665, step time: 1.3966
   Batch 57/248, train_loss: 0.2952, step time: 1.3893
   Batch 58/248, train_loss: 0.0690, step time: 1.3489
   Batch 59/248, train_loss: 0.0845, step time: 1.3874
   Batch 60/248, train_loss: 0.0775, step time: 1.3833
   Batch 61/248, train_loss: 0.0890, step time: 1.3806
   Batch 62/248, train_loss: 0.2948, step time: 1.3842
   Batch 63/248, train_loss: 0.3838, step time: 1.3962
   Batch 64/248, train_loss: 0.4926, step time: 1.3752
   Batch 65/248, train_loss: 0.2545, step time: 1.4027
   Batch 66/248, train_loss: 0.1443, step time: 1.4031
   Batch 67/248, train_loss: 0.0773, step time: 1.3849
```

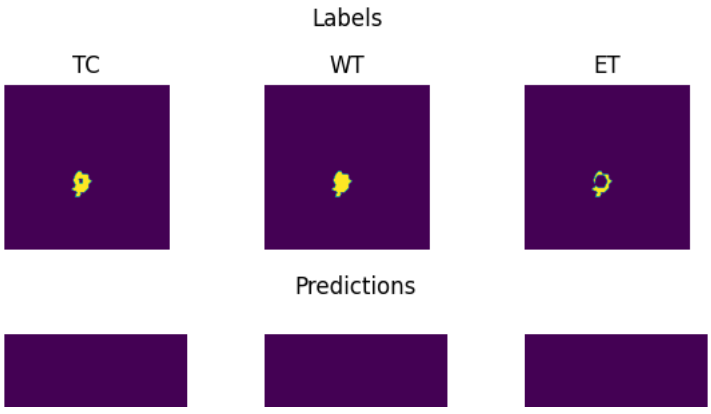
```
Batch 68/248, train_loss: 0.1242, step time: 1.4054
Batch 69/248, train_loss: 0.7699, step time: 1.4082
Batch 70/248, train_loss: 0.1730, step time: 1.3813
Batch 71/248, train_loss: 0.1231, step time: 1.3596
Batch 72/248, train_loss: 0.0536, step time: 1.3567
Batch 73/248, train_loss: 0.1265, step time: 1.3953
Batch 74/248, train_loss: 0.9799, step time: 1.3699
Batch 75/248, train_loss: 0.1177, step time: 1.3637
Batch 76/248, train_loss: 0.6969, step time: 1.3959
Batch 77/248, train_loss: 0.7999, step time: 1.3757
Batch 78/248, train_loss: 0.0777, step time: 1.3698
Batch 79/248, train_loss: 0.1326, step time: 1.3748
Batch 80/248, train_loss: 0.1904, step time: 1.4106
Batch 81/248, train_loss: 0.1398, step time: 1.3882
Batch 82/248, train_loss: 0.0828, step time: 1.4068
Batch 83/248, train_loss: 0.5011, step time: 1.3650
Batch 84/248, train_loss: 0.2615, step time: 1.3634
Batch 85/248, train_loss: 0.3783, step time: 1.3791
Batch 86/248, train_loss: 0.2115, step time: 1.3744
Batch 87/248, train_loss: 0.9424, step time: 1.3786
Batch 88/248, train_loss: 0.4550, step time: 1.3909
Batch 89/248, train_loss: 0.0732, step time: 1.3935
Batch 90/248, train_loss: 0.2449, step time: 1.3982
Batch 91/248, train_loss: 0.3513, step time: 1.3792
Batch 92/248, train_loss: 0.8586, step time: 1.3911
Batch 93/248, train_loss: 0.1506, step time: 1.3838
Batch 94/248, train_loss: 0.3010, step time: 1.4098
Batch 95/248, train_loss: 0.1836, step time: 1.3875
Batch 96/248, train_loss: 0.1433, step time: 1.3875
Batch 97/248, train_loss: 0.5828, step time: 1.4128
Batch 98/248, train_loss: 0.1008, step time: 1.3726
Batch 99/248, train_loss: 0.3580, step time: 1.3948
Batch 100/248, train_loss: 0.3635, step time: 1.4135
Batch 101/248, train_loss: 0.0500, step time: 1.3612
Batch 102/248, train_loss: 0.1317, step time: 1.3724
Batch 103/248, train_loss: 0.3390, step time: 1.4017
Batch 104/248, train_loss: 0.2897, step time: 1.3647
Batch 105/248, train_loss: 0.0863, step time: 1.3772
Batch 106/248, train_loss: 0.1708, step time: 1.3692
Batch 107/248, train_loss: 0.5121, step time: 1.3884
Batch 108/248, train_loss: 0.6717, step time: 1.3743
Batch 109/248, train_loss: 0.9930, step time: 1.3978
Batch 110/248, train_loss: 0.9281, step time: 1.4117
Batch 111/248, train_loss: 0.0910, step time: 1.3807
Batch 112/248, train_loss: 0.1706, step time: 1.4080
Batch 113/248, train_loss: 0.9030, step time: 1.3850
Batch 114/248, train_loss: 0.1758, step time: 1.3947
Batch 115/248, train_loss: 0.1519, step time: 1.3842
Batch 116/248, train_loss: 0.1036, step time: 1.3859
Batch 117/248, train_loss: 0.5922, step time: 1.3713
Batch 118/248, train_loss: 0.7243, step time: 1.4094
Batch 119/248, train_loss: 0.3945, step time: 1.3983
Batch 120/248, train_loss: 0.2864, step time: 1.4000
Batch 121/248, train_loss: 0.2738, step time: 1.3694
Batch 122/248, train_loss: 0.4082, step time: 1.3779
Batch 123/248, train_loss: 0.0687, step time: 1.3802
Batch 124/248, train_loss: 0.2709, step time: 1.3739
Batch 125/248, train_loss: 0.4905, step time: 1.3780
Batch 126/248, train_loss: 0.5712, step time: 1.3815
Batch 127/248, train_loss: 0.1256, step time: 1.3945
Batch 128/248, train_loss: 0.1972, step time: 1.3869
Batch 129/248, train_loss: 0.1486, step time: 1.3998
Batch 130/248, train_loss: 0.1153, step time: 1.3598
Batch 131/248, train_loss: 0.5541, step time: 1.3643
Batch 132/248, train_loss: 0.1958, step time: 1.3689
Batch 133/248, train_loss: 0.5606, step time: 1.3603
Batch 134/248, train_loss: 0.9469, step time: 1.3584
Batch 135/248, train_loss: 0.2084, step time: 1.4060
Batch 136/248, train_loss: 0.2197, step time: 1.3983
Batch 137/248, train_loss: 0.1996, step time: 1.3936
Batch 138/248, train_loss: 0.0915, step time: 1.3863
Batch 139/248, train_loss: 0.1661, step time: 1.3776
Batch 140/248, train_loss: 0.1845, step time: 1.3810
Batch 141/248, train_loss: 0.1685, step time: 1.3973
Batch 142/248, train_loss: 0.6409, step time: 1.3960
Batch 143/248, train_loss: 0.2245, step time: 1.4058
Batch 144/248, train_loss: 0.1404, step time: 1.3897
Batch 145/248, train_loss: 0.0539, step time: 1.3599
Batch 146/248, train_loss: 0.8147, step time: 1.3815
Batch 147/248, train_loss: 0.0439, step time: 1.3721
Batch 148/248, train_loss: 0.8061, step time: 1.4013
Batch 149/248, train_loss: 0.1415, step time: 1.3980
Batch 150/248, train_loss: 0.5801, step time: 1.3965
Batch 151/248, train_loss: 0.2520, step time: 1.3932
Batch 152/248, train_loss: 0.0563, step time: 1.3874
```

Batch 153/248, train_loss: 0.2124, step time: 1.4006
Batch 154/248, train_loss: 0.5826, step time: 1.4022
Batch 155/248, train_loss: 0.0979, step time: 1.4062
Batch 156/248, train_loss: 0.1777, step time: 1.3707
Batch 157/248, train_loss: 0.3489, step time: 1.3846
Batch 158/248, train_loss: 0.9856, step time: 1.4013
Batch 159/248, train_loss: 0.4667, step time: 1.3814
Batch 160/248, train_loss: 0.0831, step time: 1.3818
Batch 161/248, train_loss: 0.0995, step time: 1.3736
Batch 162/248, train_loss: 0.1155, step time: 1.4077
Batch 163/248, train_loss: 0.1306, step time: 1.3751
Batch 164/248, train_loss: 0.3089, step time: 1.3919
Batch 165/248, train_loss: 0.4787, step time: 1.3919
Batch 166/248, train_loss: 0.0911, step time: 1.3950
Batch 167/248, train_loss: 0.1985, step time: 1.3809
Batch 168/248, train_loss: 0.1638, step time: 1.3960
Batch 169/248, train_loss: 0.1209, step time: 1.3690
Batch 170/248, train_loss: 0.6583, step time: 1.3966
Batch 171/248, train_loss: 0.1083, step time: 1.3894
Batch 172/248, train_loss: 0.5586, step time: 1.3845
Batch 173/248, train_loss: 0.1015, step time: 1.3945
Batch 174/248, train_loss: 0.6888, step time: 1.4115
Batch 175/248, train_loss: 0.2592, step time: 1.3747
Batch 176/248, train_loss: 0.3822, step time: 1.3680
Batch 177/248, train_loss: 0.2498, step time: 1.3736
Batch 178/248, train_loss: 0.4178, step time: 1.3891
Batch 179/248, train_loss: 0.0888, step time: 1.3803
Batch 180/248, train_loss: 0.3935, step time: 1.3818
Batch 181/248, train_loss: 0.0897, step time: 1.3546
Batch 182/248, train_loss: 0.7867, step time: 1.3617
Batch 183/248, train_loss: 0.1068, step time: 1.3680
Batch 184/248, train_loss: 0.2422, step time: 1.3849
Batch 185/248, train_loss: 0.1061, step time: 1.3569
Batch 186/248, train_loss: 0.0939, step time: 1.3671
Batch 187/248, train_loss: 0.1815, step time: 1.4012
Batch 188/248, train_loss: 0.4749, step time: 1.3794
Batch 189/248, train_loss: 0.5529, step time: 1.3741
Batch 190/248, train_loss: 0.1868, step time: 1.3635
Batch 191/248, train_loss: 0.7027, step time: 1.3728
Batch 192/248, train_loss: 0.2231, step time: 1.3963
Batch 193/248, train_loss: 0.2546, step time: 1.3862
Batch 194/248, train_loss: 0.1264, step time: 1.3799
Batch 195/248, train_loss: 0.6212, step time: 1.4049
Batch 196/248, train_loss: 0.9937, step time: 1.3855
Batch 197/248, train_loss: 0.2245, step time: 1.3985
Batch 198/248, train_loss: 0.9988, step time: 1.3532
Batch 199/248, train_loss: 0.1440, step time: 1.3683
Batch 200/248, train_loss: 0.1519, step time: 1.3924
Batch 201/248, train_loss: 0.1495, step time: 1.3708
Batch 202/248, train_loss: 0.4854, step time: 1.3830
Batch 203/248, train_loss: 0.4843, step time: 1.3859
Batch 204/248, train_loss: 0.1019, step time: 1.3618
Batch 205/248, train_loss: 0.2672, step time: 1.3613
Batch 206/248, train_loss: 0.7092, step time: 1.3832
Batch 207/248, train_loss: 0.1117, step time: 1.3637
Batch 208/248, train_loss: 0.1676, step time: 1.3840
Batch 209/248, train_loss: 0.1512, step time: 1.3593
Batch 210/248, train_loss: 0.0862, step time: 1.3543
Batch 211/248, train_loss: 0.1153, step time: 1.4037
Batch 212/248, train_loss: 0.2425, step time: 1.3684
Batch 213/248, train_loss: 0.1624, step time: 1.3898
Batch 214/248, train_loss: 0.0784, step time: 1.3589
Batch 215/248, train_loss: 0.4227, step time: 1.3997
Batch 216/248, train_loss: 0.1944, step time: 1.3743
Batch 217/248, train_loss: 0.4778, step time: 1.4159
Batch 218/248, train_loss: 0.8369, step time: 1.3857
Batch 219/248, train_loss: 0.0815, step time: 1.3740
Batch 220/248, train_loss: 0.2157, step time: 1.3918
Batch 221/248, train_loss: 0.2503, step time: 1.3865
Batch 222/248, train_loss: 0.2015, step time: 1.3948
Batch 223/248, train_loss: 0.0488, step time: 1.3644
Batch 224/248, train_loss: 0.1144, step time: 1.3725
Batch 225/248, train_loss: 0.3325, step time: 1.3710
Batch 226/248, train_loss: 0.1914, step time: 1.3690
Batch 227/248, train_loss: 0.0953, step time: 1.3855
Batch 228/248, train_loss: 0.1388, step time: 1.3777
Batch 229/248, train_loss: 0.0960, step time: 1.3831
Batch 230/248, train_loss: 0.0747, step time: 1.3872
Batch 231/248, train_loss: 0.8291, step time: 1.3844
Batch 232/248, train_loss: 0.0686, step time: 1.3894
Batch 233/248, train_loss: 0.9875, step time: 1.3784
Batch 234/248, train_loss: 0.4449, step time: 1.4156
Batch 235/248, train_loss: 0.2585, step time: 1.4007
Batch 236/248, train_loss: 0.8160, step time: 1.4116

```
Batch 237/248, train_loss: 0.1311, step time: 1.3923
Batch 238/248, train_loss: 0.1010, step time: 1.3807
Batch 239/248, train_loss: 0.0650, step time: 1.3905
Batch 240/248, train_loss: 0.3469, step time: 1.3975
Batch 241/248, train_loss: 0.8324, step time: 1.3862
Batch 242/248, train_loss: 0.1637, step time: 1.3787
Batch 243/248, train_loss: 0.4848, step time: 1.4017
Batch 244/248, train_loss: 0.3562, step time: 1.3842
Batch 245/248, train_loss: 0.0917, step time: 1.3666
Batch 246/248, train_loss: 0.6187, step time: 1.3838
Batch 247/248, train_loss: 0.0890, step time: 1.3853
Batch 248/248, train_loss: 0.9995, step time: 1.3743
```




```
VAL
   Batch 1/31, val_loss: 0.8321
   Batch 2/31, val_loss: 0.9922
   Batch 3/31, val_loss: 0.9706
   Batch 4/31, val_loss: 0.9495
   Batch 5/31, val_loss: 0.9930
   Batch 6/31, val_loss: 0.7340
   Batch 7/31, val_loss: 0.8749
   Batch 8/31, val_loss: 0.9666
   Batch 9/31, val_loss: 0.7001
   Batch 10/31, val_loss: 0.9134
   Batch 11/31, val_loss: 0.8176
   Batch 12/31, val_loss: 0.9716
   Batch 13/31, val_loss: 0.9980
   Batch 14/31, val_loss: 0.9373
   Batch 15/31, val_loss: 0.9864
   Batch 16/31, val_loss: 0.9717
   Batch 17/31, val_loss: 0.9759
   Batch 18/31, val_loss: 0.9353
   Batch 19/31, val_loss: 0.7409
   Batch 20/31, val_loss: 0.8672
   Batch 21/31, val_loss: 0.8819
   Batch 22/31, val_loss: 0.9671
   Batch 23/31, val_loss: 0.9706
   Batch 24/31, val_loss: 0.7490
   Batch 25/31, val_loss: 0.8051
   Batch 26/31, val_loss: 0.9249
   Batch 27/31, val_loss: 0.9789
   Batch 28/31, val_loss: 0.7480
   Batch 29/31, val_loss: 0.9824
   Batch 30/31, val_loss: 0.9639
   Batch 31/31, val_loss: 0.9735
```



```
epoch 41
   average train loss: 0.3142
   average validation loss: 0.9056
   saved as best model: False
   current mean dice: 0.5918
   current TC dice: 0.6263
   current WT dice: 0.6342
   current ET dice: 0.5553
Best Mean Metric: 0.5971
time consuming of epoch 41 is: 1688.6320
----------
epoch 42/100
TRAIN
   Batch 1/248, train_loss: 0.0752, step time: 1.4396
   Batch 2/248, train_loss: 0.7165, step time: 1.3943
   Batch 3/248, train_loss: 0.3369, step time: 1.3692
   Batch 4/248, train_loss: 0.9968, step time: 1.3917
   Batch 5/248, train_loss: 0.2442, step time: 1.3943
   Batch 6/248, train_loss: 0.2195, step time: 1.4048
   Batch 7/248, train_loss: 0.0809, step time: 1.3662
   Batch 8/248, train_loss: 0.6940, step time: 1.3979
   Batch 9/248, train_loss: 0.0428, step time: 1.3896
   Batch 10/248, train_loss: 0.2200, step time: 1.3805
   Batch 11/248, train_loss: 0.2547, step time: 1.3870
   Batch 12/248, train_loss: 0.3968, step time: 1.3782
   Batch 13/248, train_loss: 0.3131, step time: 1.3986
   Batch 14/248, train_loss: 0.0457, step time: 1.3483
   Batch 15/248, train_loss: 0.3299, step time: 1.3775
   Batch 16/248, train_loss: 0.1546, step time: 1.3864
   Batch 17/248, train_loss: 0.2477, step time: 1.4038
   Batch 18/248, train_loss: 0.3273, step time: 1.3781
   Batch 19/248, train_loss: 0.1304, step time: 1.3861
   Batch 20/248, train_loss: 0.4674, step time: 1.3799
   Batch 21/248, train_loss: 0.0820, step time: 1.3575
   Batch 22/248, train_loss: 0.9887, step time: 1.3658
   Batch 23/248, train_loss: 0.8941, step time: 1.3767
   Batch 24/248, train_loss: 0.1032, step time: 1.3737
   Batch 25/248, train_loss: 0.0552, step time: 1.3867
   Batch 26/248, train_loss: 0.4089, step time: 1.3877
   Batch 27/248, train_loss: 0.0691, step time: 1.3937
   Batch 28/248, train_loss: 0.1890, step time: 1.3864
   Batch 29/248, train_loss: 0.3506, step time: 1.3714
   Batch 30/248, train_loss: 0.5500, step time: 1.3796
   Batch 31/248, train_loss: 0.2788, step time: 1.3654
   Batch 32/248, train_loss: 0.0868, step time: 1.3859
   Batch 33/248, train_loss: 0.1050, step time: 1.3957
   Batch 34/248, train_loss: 0.0385, step time: 1.3498
   Batch 35/248, train_loss: 0.0574, step time: 1.3857
   Batch 36/248, train_loss: 0.5801, step time: 1.3811
   Batch 37/248, train_loss: 0.1388, step time: 1.3629
   Batch 38/248, train_loss: 0.3246, step time: 1.4027
   Batch 39/248, train_loss: 0.1846, step time: 1.3884
   Batch 40/248, train_loss: 0.9650, step time: 1.3742
   Batch 41/248, train_loss: 0.2260, step time: 1.3785
   Batch 42/248, train_loss: 0.0644, step time: 1.3745
   Batch 43/248, train_loss: 0.0773, step time: 1.3969
   Batch 44/248, train_loss: 0.1443, step time: 1.3739
   Batch 45/248, train_loss: 0.6381, step time: 1.3916
   Batch 46/248, train_loss: 0.1588, step time: 1.3880
   Batch 47/248, train_loss: 0.0671, step time: 1.4003
   Batch 48/248, train_loss: 0.3045, step time: 1.3807
   Batch 49/248, train_loss: 0.4720, step time: 1.3807
   Batch 50/248, train_loss: 0.1375, step time: 1.3482
   Batch 51/248, train_loss: 0.2651, step time: 1.3731
   Batch 52/248, train_loss: 0.1144, step time: 1.3685
   Batch 53/248, train_loss: 0.3820, step time: 1.3878
   Batch 54/248, train_loss: 0.2391, step time: 1.3813
   Batch 55/248, train_loss: 0.2445, step time: 1.3824
   Batch 56/248, train_loss: 0.2043, step time: 1.3731
   Batch 57/248, train_loss: 0.2377, step time: 1.3907
   Batch 58/248, train_loss: 0.0730, step time: 1.3731
   Batch 59/248, train_loss: 0.0994, step time: 1.3587
   Batch 60/248, train_loss: 0.0563, step time: 1.3560
   Batch 61/248, train_loss: 0.0774, step time: 1.3642
   Batch 62/248, train_loss: 0.2450, step time: 1.3646
   Batch 63/248, train_loss: 0.3994, step time: 1.3582
   Batch 64/248, train_loss: 0.4404, step time: 1.3791
   Batch 65/248, train_loss: 0.3318, step time: 1.3686
   Batch 66/248, train_loss: 0.1450, step time: 1.3844
   Batch 67/248, train_loss: 0.0765, step time: 1.3565
```

Batch 67/248, train_loss: 0.0765, step time: 1.3565
Batch 68/248, train_loss: 0.0976, step time: 1.3638
Batch 69/248, train_loss: 0.7142, step time: 1.3774
Batch 70/248, train_loss: 0.1357, step time: 1.3675
Batch 71/248, train_loss: 0.1251, step time: 1.3724
Batch 72/248, train_loss: 0.0572, step time: 1.3440
Batch 73/248, train_loss: 0.1116, step time: 1.3826
Batch 74/248, train_loss: 0.9821, step time: 1.3678
Batch 75/248, train_loss: 0.1157, step time: 1.3496
Batch 76/248, train_loss: 0.7520, step time: 1.3606
Batch 77/248, train_loss: 0.7583, step time: 1.3665
Batch 78/248, train_loss: 0.1133, step time: 1.3781
Batch 79/248, train_loss: 0.1417, step time: 1.3474
Batch 80/248, train_loss: 0.1842, step time: 1.3386
Batch 81/248, train_loss: 0.1323, step time: 1.3758
Batch 82/248, train_loss: 0.1015, step time: 1.3357
Batch 83/248, train_loss: 0.5125, step time: 1.3538
Batch 84/248, train_loss: 0.3124, step time: 1.3629
Batch 85/248, train_loss: 0.4300, step time: 1.3456
Batch 86/248, train_loss: 0.2583, step time: 1.3775
Batch 87/248, train_loss: 0.8037, step time: 1.3468
Batch 88/248, train_loss: 0.4620, step time: 1.3594
Batch 89/248, train_loss: 0.0782, step time: 1.3377
Batch 90/248, train_loss: 0.2194, step time: 1.3425
Batch 91/248, train_loss: 0.3727, step time: 1.3502
Batch 92/248, train_loss: 0.8443, step time: 1.3756
Batch 93/248, train_loss: 0.1560, step time: 1.3425
Batch 94/248, train_loss: 0.3024, step time: 1.3555
Batch 95/248, train_loss: 0.1698, step time: 1.3447
Batch 96/248, train_loss: 0.1321, step time: 1.3361
Batch 97/248, train_loss: 0.6507, step time: 1.3781
Batch 98/248, train_loss: 0.1100, step time: 1.3709
Batch 99/248, train_loss: 0.3906, step time: 1.3856
Batch 100/248, train_loss: 0.3377, step time: 1.3549
Batch 101/248, train_loss: 0.0474, step time: 1.3739
Batch 102/248, train_loss: 0.1140, step time: 1.3468
Batch 103/248, train_loss: 0.4266, step time: 1.3732
Batch 104/248, train_loss: 0.3300, step time: 1.3750
Batch 105/248, train_loss: 0.0897, step time: 1.3677
Batch 106/248, train_loss: 0.1423, step time: 1.3707
Batch 107/248, train_loss: 0.2371, step time: 1.3493
Batch 108/248, train_loss: 0.7185, step time: 1.3702
Batch 109/248, train_loss: 0.9909, step time: 1.3797
Batch 110/248, train_loss: 0.9679, step time: 1.3648
Batch 111/248, train_loss: 0.1044, step time: 1.3789
Batch 112/248, train_loss: 0.1314, step time: 1.3689
Batch 113/248, train_loss: 0.7552, step time: 1.3812
Batch 114/248, train_loss: 0.1447, step time: 1.3830
Batch 115/248, train_loss: 0.1196, step time: 1.3607
Batch 116/248, train_loss: 0.0816, step time: 1.3549
Batch 117/248, train_loss: 0.5941, step time: 1.3873
Batch 118/248, train_loss: 0.2761, step time: 1.3604
Batch 119/248, train_loss: 0.2754, step time: 1.3697
Batch 120/248, train_loss: 0.2398, step time: 1.3612
Batch 121/248, train_loss: 0.2961, step time: 1.3751
Batch 122/248, train_loss: 0.3827, step time: 1.3592
Batch 123/248, train_loss: 0.0737, step time: 1.3558
Batch 124/248, train_loss: 0.2631, step time: 1.3554
Batch 125/248, train_loss: 0.5851, step time: 1.3504
Batch 126/248, train_loss: 0.2710, step time: 1.3587
Batch 127/248, train_loss: 0.1103, step time: 1.3754
Batch 128/248, train_loss: 0.1776, step time: 1.3464
Batch 129/248, train_loss: 0.0779, step time: 1.3392
Batch 130/248, train_loss: 0.1402, step time: 1.3731
Batch 131/248, train_loss: 0.4325, step time: 1.3624
Batch 132/248, train_loss: 0.2839, step time: 1.3818
Batch 133/248, train_loss: 0.1054, step time: 1.3490
Batch 134/248, train_loss: 0.9449, step time: 1.3834
Batch 135/248, train_loss: 0.2270, step time: 1.3788
Batch 136/248, train_loss: 0.1585, step time: 1.3423
Batch 137/248, train_loss: 0.1090, step time: 1.3650
Batch 138/248, train_loss: 0.0697, step time: 1.3641
Batch 139/248, train_loss: 0.1409, step time: 1.3733
Batch 140/248, train_loss: 0.1735, step time: 1.3551
Batch 141/248, train_loss: 0.1726, step time: 1.3752
Batch 142/248, train_loss: 0.5372, step time: 1.3715
Batch 143/248, train_loss: 0.2265, step time: 1.3765
Batch 144/248, train_loss: 0.1343, step time: 1.3886
Batch 145/248, train_loss: 0.0723, step time: 1.3750
Batch 146/248, train_loss: 0.5118, step time: 1.3710
Batch 147/248, train_loss: 0.0454, step time: 1.3418
Batch 148/248, train_loss: 0.8554, step time: 1.3695
Batch 149/248, train_loss: 0.1311, step time: 1.3571
Batch 150/248, train_loss: 0.5862, step time: 1.3508
Batch 151/248, train_loss: 0.2754, step time: 1.3846

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Batch 152/248, train_loss: 0.0638, step time: 1.3712
Batch 153/248, train_loss: 0.2124, step time: 1.3501
Batch 154/248, train_loss: 0.5514, step time: 1.3471
Batch 155/248, train_loss: 0.0904, step time: 1.3720
Batch 156/248, train_loss: 0.2003, step time: 1.3815
Batch 157/248, train_loss: 0.3367, step time: 1.3536
Batch 158/248, train_loss: 0.8908, step time: 1.3392
Batch 159/248, train_loss: 0.4764, step time: 1.3709
Batch 160/248, train_loss: 0.0974, step time: 1.3703
Batch 161/248, train_loss: 0.0611, step time: 1.3371
Batch 162/248, train_loss: 0.0685, step time: 1.3769
Batch 163/248, train_loss: 0.1436, step time: 1.3548
Batch 164/248, train_loss: 0.3028, step time: 1.3515
Batch 165/248, train_loss: 0.6274, step time: 1.3675
Batch 166/248, train_loss: 0.1338, step time: 1.3669
Batch 167/248, train_loss: 0.1729, step time: 1.3492
Batch 168/248, train_loss: 0.1485, step time: 1.3586
Batch 169/248, train_loss: 0.1129, step time: 1.3629
Batch 170/248, train_loss: 0.5237, step time: 1.3584
Batch 171/248, train_loss: 0.1057, step time: 1.3659
Batch 172/248, train_loss: 0.5826, step time: 1.3907
Batch 173/248, train_loss: 0.5250, step time: 1.3596
Batch 174/248, train_loss: 0.8427, step time: 1.3550
Batch 175/248, train_loss: 0.1113, step time: 1.3689
Batch 176/248, train_loss: 0.3864, step time: 1.3864
Batch 177/248, train_loss: 0.3661, step time: 1.3610
Batch 178/248, train_loss: 0.3495, step time: 1.3895
Batch 179/248, train_loss: 0.0916, step time: 1.3804
Batch 180/248, train_loss: 0.3692, step time: 1.3639
Batch 181/248, train_loss: 0.0872, step time: 1.3659
Batch 182/248, train_loss: 0.9129, step time: 1.3651
Batch 183/248, train_loss: 0.0991, step time: 1.3650
Batch 184/248, train_loss: 0.2475, step time: 1.3760
Batch 185/248, train_loss: 0.0985, step time: 1.3807
Batch 186/248, train_loss: 0.1000, step time: 1.3580
Batch 187/248, train_loss: 0.1659, step time: 1.3806
Batch 188/248, train_loss: 0.2178, step time: 1.3781
Batch 189/248, train_loss: 0.4752, step time: 1.3916
Batch 190/248, train_loss: 0.1477, step time: 1.3776
Batch 191/248, train_loss: 0.6528, step time: 1.3556
Batch 192/248, train_loss: 0.2649, step time: 1.3860
Batch 193/248, train_loss: 0.2606, step time: 1.3514
Batch 194/248, train_loss: 0.0879, step time: 1.3804
Batch 195/248, train_loss: 0.5885, step time: 1.3619
Batch 196/248, train_loss: 0.9413, step time: 1.3686
Batch 197/248, train_loss: 0.2491, step time: 1.3558
Batch 198/248, train_loss: 0.8267, step time: 1.3671
Batch 199/248, train_loss: 0.1609, step time: 1.3538
Batch 200/248, train_loss: 0.1176, step time: 1.3522
Batch 201/248, train_loss: 0.1166, step time: 1.3909
Batch 202/248, train_loss: 0.5435, step time: 1.3756
Batch 203/248, train_loss: 0.4186, step time: 1.3767
Batch 204/248, train_loss: 0.2503, step time: 1.3767
Batch 205/248, train_loss: 0.3387, step time: 1.3827
Batch 206/248, train_loss: 0.7064, step time: 1.3592
Batch 207/248, train_loss: 0.1600, step time: 1.3796
Batch 208/248, train_loss: 0.3697, step time: 1.3514
Batch 209/248, train_loss: 0.1570, step time: 1.3885
Batch 210/248, train_loss: 0.0874, step time: 1.3567
Batch 211/248, train_loss: 0.0885, step time: 1.3766
Batch 212/248, train_loss: 0.3199, step time: 1.3626
Batch 213/248, train_loss: 0.1912, step time: 1.3798
Batch 214/248, train_loss: 0.0973, step time: 1.3767
Batch 215/248, train_loss: 0.2829, step time: 1.3597
Batch 216/248, train_loss: 0.1886, step time: 1.3647
Batch 217/248, train_loss: 0.3389, step time: 1.3849
Batch 218/248, train_loss: 0.7595, step time: 1.3800
Batch 219/248, train_loss: 0.0730, step time: 1.3544
Batch 220/248, train_loss: 0.2697, step time: 1.3788
Batch 221/248, train_loss: 0.3231, step time: 1.3741
Batch 222/248, train_loss: 0.2051, step time: 1.3469
Batch 223/248, train_loss: 0.0593, step time: 1.3517
Batch 224/248, train_loss: 0.1081, step time: 1.3762
Batch 225/248, train_loss: 0.4901, step time: 1.3816
Batch 226/248, train_loss: 0.5374, step time: 1.3592
Batch 227/248, train_loss: 0.0995, step time: 1.3585
Batch 228/248, train_loss: 0.1462, step time: 1.3640
Batch 229/248, train_loss: 0.0937, step time: 1.3724
Batch 230/248, train_loss: 0.0743, step time: 1.3709
Batch 231/248, train_loss: 0.4958, step time: 1.3981
Batch 232/248, train_loss: 0.0788, step time: 1.3909
Batch 233/248, train_loss: 0.9902, step time: 1.3755
Batch 234/248, train_loss: 0.4739, step time: 1.3649
Batch 235/248, train_loss: 0.2373, step time: 1.3694
Batch 236/248, train_loss: 0.7744, step time: 1.3615
```
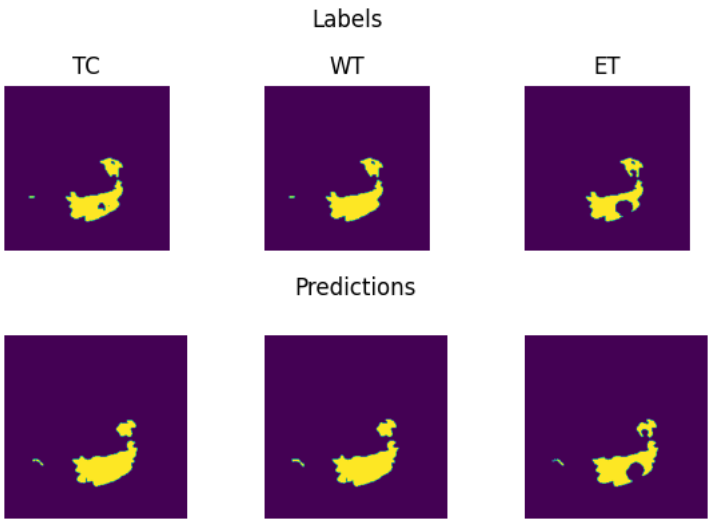
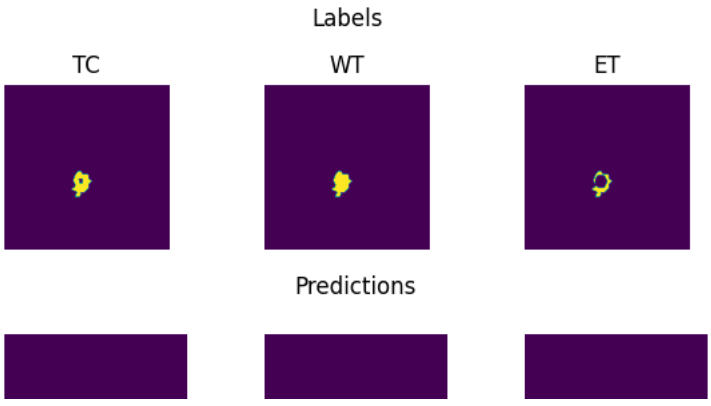

```
Batch 237/248, train_loss: 0.1336, step time: 1.3713
Batch 238/248, train_loss: 0.1167, step time: 1.3926
Batch 239/248, train_loss: 0.0612, step time: 1.3446
Batch 240/248, train_loss: 0.4593, step time: 1.3613
Batch 241/248, train_loss: 0.8422, step time: 1.4016
Batch 242/248, train_loss: 0.1496, step time: 1.3941
Batch 243/248, train_loss: 0.4733, step time: 1.3679
Batch 244/248, train_loss: 0.4746, step time: 1.3574
Batch 245/248, train_loss: 0.0781, step time: 1.3889
Batch 246/248, train_loss: 0.5730, step time: 1.3796
Batch 247/248, train_loss: 0.0803, step time: 1.3711
Batch 248/248, train_loss: 0.9999, step time: 1.3549
```



VAL

```
Batch 1/31, val_loss: 0.8388
Batch 2/31, val_loss: 0.9931
Batch 3/31, val_loss: 0.9710
Batch 4/31, val_loss: 0.9494
Batch 5/31, val_loss: 0.9943
Batch 6/31, val_loss: 0.7484
Batch 7/31, val_loss: 0.8346
Batch 8/31, val_loss: 0.9601
Batch 9/31, val_loss: 0.7055
Batch 10/31, val_loss: 0.9123
Batch 11/31, val_loss: 0.8174
Batch 12/31, val_loss: 0.9731
Batch 13/31, val_loss: 0.9978
Batch 14/31, val_loss: 0.9490
Batch 15/31, val_loss: 0.9875
Batch 16/31, val_loss: 0.9716
Batch 17/31, val_loss: 0.9708
Batch 18/31, val_loss: 0.9371
Batch 19/31, val_loss: 0.7424
Batch 20/31, val_loss: 0.8625
Batch 21/31, val_loss: 0.8913
Batch 22/31, val_loss: 0.9725
Batch 23/31, val_loss: 0.9710
Batch 24/31, val_loss: 0.7487
Batch 25/31, val_loss: 0.8087
Batch 26/31, val_loss: 0.9210
Batch 27/31, val_loss: 0.9767
Batch 28/31, val_loss: 0.7482
Batch 29/31, val_loss: 0.9817
Batch 30/31, val_loss: 0.9650
Batch 31/31, val_loss: 0.9726
```



```
epoch 42
   average train loss: 0.3069
   average validation loss: 0.9056
   saved as best model: False
   current mean dice: 0.5896
   current TC dice: 0.6219
   current WT dice: 0.6292
   current ET dice: 0.5604
Best Mean Metric: 0.5971
time consuming of epoch 42 is: 1663.5640
----------
epoch 43/100
TRAIN
   Batch 1/248, train_loss: 0.1484, step time: 1.4473
   Batch 2/248, train_loss: 0.7848, step time: 1.3915
   Batch 3/248, train_loss: 0.4611, step time: 1.3948
   Batch 4/248, train_loss: 0.9517, step time: 1.3886
   Batch 5/248, train_loss: 0.2156, step time: 1.3699
   Batch 6/248, train_loss: 0.2072, step time: 1.3889
   Batch 7/248, train_loss: 0.0692, step time: 1.3684
   Batch 8/248, train_loss: 0.7240, step time: 1.3924
   Batch 9/248, train_loss: 0.0534, step time: 1.3639
   Batch 10/248, train_loss: 0.2189, step time: 1.3794
   Batch 11/248, train_loss: 0.2034, step time: 1.3838
   Batch 12/248, train_loss: 0.3286, step time: 1.4071
   Batch 13/248, train_loss: 0.3437, step time: 1.3893
   Batch 14/248, train_loss: 0.0542, step time: 1.3599
   Batch 15/248, train_loss: 0.3344, step time: 1.4006
   Batch 16/248, train_loss: 0.1559, step time: 1.3697
   Batch 17/248, train_loss: 0.2321, step time: 1.3761
   Batch 18/248, train_loss: 0.3133, step time: 1.3968
   Batch 19/248, train_loss: 0.3039, step time: 1.3897
   Batch 20/248, train_loss: 0.2954, step time: 1.3757
   Batch 21/248, train_loss: 0.0507, step time: 1.3923
   Batch 22/248, train_loss: 0.8289, step time: 1.3959
   Batch 23/248, train_loss: 0.6360, step time: 1.3944
   Batch 24/248, train_loss: 0.1125, step time: 1.3773
   Batch 25/248, train_loss: 0.0676, step time: 1.3725
   Batch 26/248, train_loss: 0.4399, step time: 1.4143
   Batch 27/248, train_loss: 0.0668, step time: 1.3845
   Batch 28/248, train_loss: 0.1491, step time: 1.3666
   Batch 29/248, train_loss: 0.3861, step time: 1.3818
   Batch 30/248, train_loss: 0.3002, step time: 1.3856
   Batch 31/248, train_loss: 0.3990, step time: 1.3998
   Batch 32/248, train_loss: 0.0845, step time: 1.3802
   Batch 33/248, train_loss: 0.0820, step time: 1.3604
   Batch 34/248, train_loss: 0.0481, step time: 1.3704
   Batch 35/248, train_loss: 0.0797, step time: 1.3946
   Batch 36/248, train_loss: 0.9452, step time: 1.4052
   Batch 37/248, train_loss: 0.1487, step time: 1.3795
   Batch 38/248, train_loss: 0.3142, step time: 1.3920
   Batch 39/248, train_loss: 0.1952, step time: 1.3577
   Batch 40/248, train_loss: 0.8065, step time: 1.3841
   Batch 41/248, train_loss: 0.2195, step time: 1.3699
   Batch 42/248, train_loss: 0.0795, step time: 1.3799
   Batch 43/248, train_loss: 0.0547, step time: 1.3696
   Batch 44/248, train_loss: 0.1518, step time: 1.3821
   Batch 45/248, train_loss: 0.7075, step time: 1.4020
   Batch 46/248, train_loss: 0.1894, step time: 1.4012
   Batch 47/248, train_loss: 0.0799, step time: 1.3709
   Batch 48/248, train_loss: 0.2076, step time: 1.3588
   Batch 49/248, train_loss: 0.4261, step time: 1.3901
   Batch 50/248, train_loss: 0.1584, step time: 1.3498
   Batch 51/248, train_loss: 0.2345, step time: 1.3620
   Batch 52/248, train_loss: 0.1063, step time: 1.3865
   Batch 53/248, train_loss: 0.3811, step time: 1.3573
   Batch 54/248, train_loss: 0.2505, step time: 1.3523
   Batch 55/248, train_loss: 0.2498, step time: 1.3920
   Batch 56/248, train_loss: 0.1626, step time: 1.3555
   Batch 57/248, train_loss: 0.2721, step time: 1.3610
   Batch 58/248, train_loss: 0.0735, step time: 1.3765
   Batch 59/248, train_loss: 0.0831, step time: 1.3881
   Batch 60/248, train_loss: 0.0679, step time: 1.3738
   Batch 61/248, train_loss: 0.0906, step time: 1.3566
   Batch 62/248, train_loss: 0.2558, step time: 1.3909
   Batch 63/248, train_loss: 0.3988, step time: 1.3858
   Batch 64/248, train_loss: 0.4163, step time: 1.3947
   Batch 65/248, train_loss: 0.5875, step time: 1.3911
   Batch 66/248, train_loss: 0.1451, step time: 1.3469
```

```
Batch 67/248, train_loss: 0.0715, step time: 1.3389
Batch 68/248, train_loss: 0.1043, step time: 1.3619
Batch 69/248, train_loss: 0.6209, step time: 1.3545
Batch 70/248, train_loss: 0.1368, step time: 1.3431
Batch 71/248, train_loss: 0.1385, step time: 1.3509
Batch 72/248, train_loss: 0.0780, step time: 1.3510
Batch 73/248, train_loss: 0.3812, step time: 1.3648
Batch 74/248, train_loss: 0.9516, step time: 1.3397
Batch 75/248, train_loss: 0.1258, step time: 1.3387
Batch 76/248, train_loss: 0.5765, step time: 1.3694
Batch 77/248, train_loss: 0.8633, step time: 1.3669
Batch 78/248, train_loss: 0.1402, step time: 1.3417
Batch 79/248, train_loss: 0.1708, step time: 1.3349
Batch 80/248, train_loss: 0.2139, step time: 1.3646
Batch 81/248, train_loss: 0.1520, step time: 1.3472
Batch 82/248, train_loss: 0.0918, step time: 1.3392
Batch 83/248, train_loss: 0.5248, step time: 1.3727
Batch 84/248, train_loss: 0.3378, step time: 1.3647
Batch 85/248, train_loss: 0.3998, step time: 1.3453
Batch 86/248, train_loss: 0.3568, step time: 1.3775
Batch 87/248, train_loss: 0.8217, step time: 1.3532
Batch 88/248, train_loss: 0.3456, step time: 1.3510
Batch 89/248, train_loss: 0.0885, step time: 1.3641
Batch 90/248, train_loss: 0.2249, step time: 1.3534
Batch 91/248, train_loss: 0.3483, step time: 1.3631
Batch 92/248, train_loss: 0.7432, step time: 1.3919
Batch 93/248, train_loss: 0.1643, step time: 1.3524
Batch 94/248, train_loss: 0.3026, step time: 1.3639
Batch 95/248, train_loss: 0.1770, step time: 1.3476
Batch 96/248, train_loss: 0.1304, step time: 1.3686
Batch 97/248, train_loss: 0.7594, step time: 1.3841
Batch 98/248, train_loss: 0.1068, step time: 1.3494
Batch 99/248, train_loss: 0.3132, step time: 1.3783
Batch 100/248, train_loss: 0.2552, step time: 1.3471
Batch 101/248, train_loss: 0.0500, step time: 1.3664
Batch 102/248, train_loss: 0.1015, step time: 1.3521
Batch 103/248, train_loss: 0.3983, step time: 1.3933
Batch 104/248, train_loss: 0.3362, step time: 1.3569
Batch 105/248, train_loss: 0.0819, step time: 1.3555
Batch 106/248, train_loss: 0.1661, step time: 1.3883
Batch 107/248, train_loss: 0.2506, step time: 1.3621
Batch 108/248, train_loss: 0.5465, step time: 1.3736
Batch 109/248, train_loss: 0.9205, step time: 1.3527
Batch 110/248, train_loss: 0.9945, step time: 1.3659
Batch 111/248, train_loss: 0.0977, step time: 1.3573
Batch 112/248, train_loss: 0.1328, step time: 1.3742
Batch 113/248, train_loss: 0.8082, step time: 1.3836
Batch 114/248, train_loss: 0.1183, step time: 1.3815
Batch 115/248, train_loss: 0.1395, step time: 1.3623
Batch 116/248, train_loss: 0.0866, step time: 1.3749
Batch 117/248, train_loss: 0.7596, step time: 1.3943
Batch 118/248, train_loss: 0.2900, step time: 1.3884
Batch 119/248, train_loss: 0.4833, step time: 1.3564
Batch 120/248, train_loss: 0.2706, step time: 1.3698
Batch 121/248, train_loss: 0.2851, step time: 1.3692
Batch 122/248, train_loss: 0.4132, step time: 1.3612
Batch 123/248, train_loss: 0.0624, step time: 1.3608
Batch 124/248, train_loss: 0.2833, step time: 1.3884
Batch 125/248, train_loss: 0.5058, step time: 1.3692
Batch 126/248, train_loss: 0.2267, step time: 1.3966
Batch 127/248, train_loss: 0.1163, step time: 1.3619
Batch 128/248, train_loss: 0.5266, step time: 1.4103
Batch 129/248, train_loss: 0.0750, step time: 1.3763
Batch 130/248, train_loss: 0.0935, step time: 1.4000
Batch 131/248, train_loss: 0.4504, step time: 1.4104
Batch 132/248, train_loss: 0.2570, step time: 1.3795
Batch 133/248, train_loss: 0.1628, step time: 1.3941
Batch 134/248, train_loss: 0.9430, step time: 1.4120
Batch 135/248, train_loss: 0.2742, step time: 1.3963
Batch 136/248, train_loss: 0.1011, step time: 1.3924
Batch 137/248, train_loss: 0.1724, step time: 1.3773
Batch 138/248, train_loss: 0.0783, step time: 1.3983
Batch 139/248, train_loss: 0.1918, step time: 1.3776
Batch 140/248, train_loss: 0.3691, step time: 1.3618
Batch 141/248, train_loss: 0.5952, step time: 1.3971
Batch 142/248, train_loss: 0.6475, step time: 1.3916
Batch 143/248, train_loss: 0.2525, step time: 1.3945
Batch 144/248, train_loss: 0.1470, step time: 1.3772
Batch 145/248, train_loss: 0.0648, step time: 1.3718
Batch 146/248, train_loss: 0.4610, step time: 1.3684
Batch 147/248, train_loss: 0.0515, step time: 1.3777
Batch 148/248, train_loss: 0.9305, step time: 1.3637
Batch 149/248, train_loss: 0.1615, step time: 1.3632
Batch 150/248, train_loss: 0.5819, step time: 1.3642
Batch 151/248, train_loss: 0.6497, step time: 1.3954
```

```
Batch 152/248, train_loss: 0.0490, step time: 1.3619
Batch 153/248, train_loss: 0.3454, step time: 1.3706
Batch 154/248, train_loss: 0.6317, step time: 1.3976
Batch 155/248, train_loss: 0.1394, step time: 1.3817
Batch 156/248, train_loss: 0.1276, step time: 1.3641
Batch 157/248, train_loss: 0.2923, step time: 1.3950
Batch 158/248, train_loss: 0.8791, step time: 1.3813
Batch 159/248, train_loss: 0.6882, step time: 1.3999
Batch 160/248, train_loss: 0.1132, step time: 1.3678
Batch 161/248, train_loss: 0.1001, step time: 1.3702
Batch 162/248, train_loss: 0.1082, step time: 1.3699
Batch 163/248, train_loss: 0.1447, step time: 1.3818
Batch 164/248, train_loss: 0.2703, step time: 1.3677
Batch 165/248, train_loss: 0.8640, step time: 1.3948
Batch 166/248, train_loss: 0.0874, step time: 1.3766
Batch 167/248, train_loss: 0.1859, step time: 1.3891
Batch 168/248, train_loss: 0.1603, step time: 1.3655
Batch 169/248, train_loss: 0.0770, step time: 1.3642
Batch 170/248, train_loss: 0.6421, step time: 1.3872
Batch 171/248, train_loss: 0.0870, step time: 1.3908
Batch 172/248, train_loss: 0.5184, step time: 1.3916
Batch 173/248, train_loss: 0.0747, step time: 1.3824
Batch 174/248, train_loss: 0.9378, step time: 1.3939
Batch 175/248, train_loss: 0.5077, step time: 1.3757
Batch 176/248, train_loss: 0.3846, step time: 1.4029
Batch 177/248, train_loss: 0.4371, step time: 1.3953
Batch 178/248, train_loss: 0.3541, step time: 1.3687
Batch 179/248, train_loss: 0.0943, step time: 1.3681
Batch 180/248, train_loss: 0.3956, step time: 1.4044
Batch 181/248, train_loss: 0.0927, step time: 1.3757
Batch 182/248, train_loss: 0.9005, step time: 1.3749
Batch 183/248, train_loss: 0.0943, step time: 1.3869
Batch 184/248, train_loss: 0.3086, step time: 1.3959
Batch 185/248, train_loss: 0.0972, step time: 1.3569
Batch 186/248, train_loss: 0.1075, step time: 1.3869
Batch 187/248, train_loss: 0.1808, step time: 1.3861
Batch 188/248, train_loss: 0.2234, step time: 1.3712
Batch 189/248, train_loss: 0.6585, step time: 1.3936
Batch 190/248, train_loss: 0.1661, step time: 1.3845
Batch 191/248, train_loss: 0.7422, step time: 1.3699
Batch 192/248, train_loss: 0.2172, step time: 1.3638
Batch 193/248, train_loss: 0.2308, step time: 1.3890
Batch 194/248, train_loss: 0.0959, step time: 1.3552
Batch 195/248, train_loss: 0.6440, step time: 1.3888
Batch 196/248, train_loss: 0.8322, step time: 1.4120
Batch 197/248, train_loss: 0.1686, step time: 1.3733
Batch 198/248, train_loss: 0.9115, step time: 1.3704
Batch 199/248, train_loss: 0.1348, step time: 1.3685
Batch 200/248, train_loss: 0.1332, step time: 1.3878
Batch 201/248, train_loss: 0.1081, step time: 1.3889
Batch 202/248, train_loss: 0.4418, step time: 1.3772
Batch 203/248, train_loss: 0.4332, step time: 1.3977
Batch 204/248, train_loss: 0.0817, step time: 1.3800
Batch 205/248, train_loss: 0.3012, step time: 1.3994
Batch 206/248, train_loss: 0.4564, step time: 1.3834
Batch 207/248, train_loss: 0.0964, step time: 1.3863
Batch 208/248, train_loss: 0.1461, step time: 1.3997
Batch 209/248, train_loss: 0.1339, step time: 1.3862
Batch 210/248, train_loss: 0.0698, step time: 1.3874
Batch 211/248, train_loss: 0.0702, step time: 1.3759
Batch 212/248, train_loss: 0.2365, step time: 1.3811
Batch 213/248, train_loss: 0.2240, step time: 1.3904
Batch 214/248, train_loss: 0.0844, step time: 1.3620
Batch 215/248, train_loss: 0.4202, step time: 1.4077
Batch 216/248, train_loss: 0.2516, step time: 1.3716
Batch 217/248, train_loss: 0.2956, step time: 1.3805
Batch 218/248, train_loss: 0.8410, step time: 1.4087
Batch 219/248, train_loss: 0.0753, step time: 1.4012
Batch 220/248, train_loss: 0.2127, step time: 1.3825
Batch 221/248, train_loss: 0.3006, step time: 1.4010
Batch 222/248, train_loss: 0.2161, step time: 1.3667
Batch 223/248, train_loss: 0.0462, step time: 1.3549
Batch 224/248, train_loss: 0.0883, step time: 1.3727
Batch 225/248, train_loss: 0.2239, step time: 1.3972
Batch 226/248, train_loss: 0.1438, step time: 1.3942
Batch 227/248, train_loss: 0.0982, step time: 1.3845
Batch 228/248, train_loss: 0.1447, step time: 1.3981
Batch 229/248, train_loss: 0.1087, step time: 1.3717
Batch 230/248, train_loss: 0.0861, step time: 1.3587
Batch 231/248, train_loss: 0.4965, step time: 1.3818
Batch 232/248, train_loss: 0.0789, step time: 1.3847
Batch 233/248, train_loss: 0.9503, step time: 1.3654
Batch 234/248, train_loss: 0.4476, step time: 1.3928
Batch 235/248, train_loss: 0.2287, step time: 1.3858
Batch 236/248, train_loss: 0.7587, step time: 1.4000
```

```
Batch 237/248, train_loss: 0.1247, step time: 1.3839
Batch 238/248, train_loss: 0.1028, step time: 1.3696
Batch 239/248, train_loss: 0.0523, step time: 1.3544
Batch 240/248, train_loss: 0.3445, step time: 1.3957
Batch 241/248, train_loss: 0.9793, step time: 1.3871
Batch 242/248, train_loss: 0.1650, step time: 1.3753
Batch 243/248, train_loss: 0.4116, step time: 1.3703
Batch 244/248, train_loss: 0.4684, step time: 1.3824
Batch 245/248, train_loss: 0.0785, step time: 1.3955
Batch 246/248, train_loss: 0.5674, step time: 1.3864
Batch 247/248, train_loss: 0.0764, step time: 1.3615
Batch 248/248, train_loss: 0.9996, step time: 1.3803
```

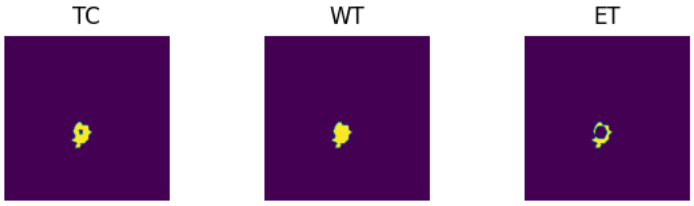
Labels

Predictions

VAL

```
Batch 1/31, val_loss: 0.8417
Batch 2/31, val_loss: 0.9937
Batch 3/31, val_loss: 0.9739
Batch 4/31, val_loss: 0.9487
Batch 5/31, val_loss: 0.9924
Batch 6/31, val_loss: 0.6849
Batch 7/31, val_loss: 0.8222
Batch 8/31, val_loss: 0.9704
Batch 9/31, val_loss: 0.6923
Batch 10/31, val_loss: 0.9109
Batch 11/31, val_loss: 0.8189
Batch 12/31, val_loss: 0.9770
Batch 13/31, val_loss: 0.9639
Batch 14/31, val_loss: 0.9630
Batch 15/31, val_loss: 0.9866
Batch 16/31, val_loss: 0.9720
Batch 17/31, val_loss: 0.9721
Batch 18/31, val_loss: 0.9358
Batch 19/31, val_loss: 0.7393
Batch 20/31, val_loss: 0.8518
Batch 21/31, val_loss: 0.8812
Batch 22/31, val_loss: 0.9710
Batch 23/31, val_loss: 0.9811
Batch 24/31, val_loss: 0.7372
Batch 25/31, val_loss: 0.8038
Batch 26/31, val_loss: 0.9261
Batch 27/31, val_loss: 0.9797
Batch 28/31, val_loss: 0.7503
Batch 29/31, val_loss: 0.9817
Batch 30/31, val_loss: 0.9633
Batch 31/31, val_loss: 0.9733
```

Labels



Predictions

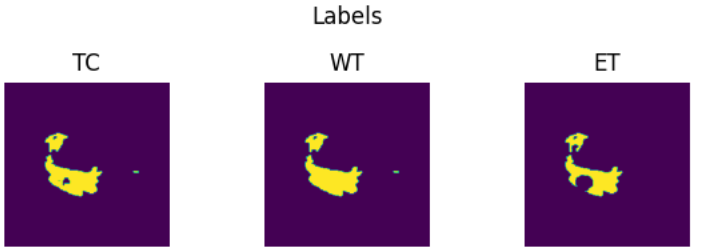
  

```
epoch 43
   average train loss: 0.3120
   average validation loss: 0.9019
   saved as best model: False
   current mean dice: 0.5541
   current TC dice: 0.5832
   current WT dice: 0.5905
   current ET dice: 0.5282
Best Mean Metric: 0.5971
time consuming of epoch 43 is: 1672.9832
----------
epoch 44/100
TRAIN
   Batch 1/248, train_loss: 0.0827, step time: 1.4536
   Batch 2/248, train_loss: 0.7434, step time: 1.3928
   Batch 3/248, train_loss: 0.4296, step time: 1.3964
   Batch 4/248, train_loss: 0.9963, step time: 1.3911
   Batch 5/248, train_loss: 0.2249, step time: 1.3752
   Batch 6/248, train_loss: 0.6160, step time: 1.3784
   Batch 7/248, train_loss: 0.0640, step time: 1.3958
   Batch 8/248, train_loss: 0.6834, step time: 1.3767
   Batch 9/248, train_loss: 0.0432, step time: 1.3680
   Batch 10/248, train_loss: 0.2216, step time: 1.3860
   Batch 11/248, train_loss: 0.1893, step time: 1.3779
   Batch 12/248, train_loss: 0.3357, step time: 1.3652
   Batch 13/248, train_loss: 0.3444, step time: 1.4096
   Batch 14/248, train_loss: 0.0505, step time: 1.3809
   Batch 15/248, train_loss: 0.3159, step time: 1.3732
   Batch 16/248, train_loss: 0.1601, step time: 1.3655
   Batch 17/248, train_loss: 0.2281, step time: 1.3576
   Batch 18/248, train_loss: 0.3467, step time: 1.3690
   Batch 19/248, train_loss: 0.0943, step time: 1.3707
   Batch 20/248, train_loss: 0.2992, step time: 1.3947
   Batch 21/248, train_loss: 0.0497, step time: 1.3590
   Batch 22/248, train_loss: 0.9315, step time: 1.3588
   Batch 23/248, train_loss: 0.4953, step time: 1.3802
   Batch 24/248, train_loss: 0.1160, step time: 1.3702
   Batch 25/248, train_loss: 0.0683, step time: 1.3955
   Batch 26/248, train_loss: 0.3833, step time: 1.3808
   Batch 27/248, train_loss: 0.0642, step time: 1.3647
   Batch 28/248, train_loss: 0.1555, step time: 1.4028
   Batch 29/248, train_loss: 0.3514, step time: 1.3770
   Batch 30/248, train_loss: 0.5602, step time: 1.3760
   Batch 31/248, train_loss: 0.3075, step time: 1.3880
   Batch 32/248, train_loss: 0.0622, step time: 1.3829
   Batch 33/248, train_loss: 0.0777, step time: 1.3542
   Batch 34/248, train_loss: 0.0482, step time: 1.3659
   Batch 35/248, train_loss: 0.0679, step time: 1.3624
   Batch 36/248, train_loss: 0.8633, step time: 1.3684
   Batch 37/248, train_loss: 0.1495, step time: 1.3886
   Batch 38/248, train_loss: 0.2755, step time: 1.3852
   Batch 39/248, train_loss: 0.1727, step time: 1.4017
   Batch 40/248, train_loss: 0.7119, step time: 1.3710
   Batch 41/248, train_loss: 0.5437, step time: 1.3924
   Batch 42/248, train_loss: 0.0786, step time: 1.3839
   Batch 43/248, train_loss: 0.0766, step time: 1.3746
   Batch 44/248, train_loss: 0.1397, step time: 1.3885
   Batch 45/248, train_loss: 0.7024, step time: 1.3778
   Batch 46/248, train_loss: 0.1570, step time: 1.3874
   Batch 47/248, train_loss: 0.0769, step time: 1.3558
   Batch 48/248, train_loss: 0.2335, step time: 1.3882
   Batch 49/248, train_loss: 0.4409, step time: 1.3726
   Batch 50/248, train_loss: 0.1462, step time: 1.3663
   Batch 51/248, train_loss: 0.1605, step time: 1.3828
   Batch 52/248, train_loss: 0.1233, step time: 1.3950
   Batch 53/248, train_loss: 0.3667, step time: 1.3748
   Batch 54/248, train_loss: 0.2648, step time: 1.3935
   Batch 55/248, train_loss: 0.2937, step time: 1.3970
   Batch 56/248, train_loss: 0.2003, step time: 1.3957
   Batch 57/248, train_loss: 0.2383, step time: 1.3705
   Batch 58/248, train_loss: 0.0769, step time: 1.3597
   Batch 59/248, train_loss: 0.0819, step time: 1.3936
   Batch 60/248, train_loss: 0.0654, step time: 1.3564
   Batch 61/248, train_loss: 0.0852, step time: 1.3670
   Batch 62/248, train_loss: 0.2482, step time: 1.3733
   Batch 63/248, train_loss: 0.4663, step time: 1.4018
   Batch 64/248, train_loss: 0.4135, step time: 1.3970
   Batch 65/248, train_loss: 0.3229, step time: 1.3787
   Batch 66/248, train_loss: 0.1445, step time: 1.3781
```

Batch 67/248, train_loss: 0.0690, step time: 1.3730
Batch 68/248, train_loss: 0.1452, step time: 1.4111
Batch 69/248, train_loss: 0.6808, step time: 1.4047
Batch 70/248, train_loss: 0.1905, step time: 1.3976
Batch 71/248, train_loss: 0.1229, step time: 1.3761
Batch 72/248, train_loss: 0.0541, step time: 1.3842
Batch 73/248, train_loss: 0.3853, step time: 1.3952
Batch 74/248, train_loss: 0.9951, step time: 1.3545
Batch 75/248, train_loss: 0.1236, step time: 1.4034
Batch 76/248, train_loss: 0.6162, step time: 1.4021
Batch 77/248, train_loss: 0.7737, step time: 1.3813
Batch 78/248, train_loss: 0.0897, step time: 1.3761
Batch 79/248, train_loss: 0.1245, step time: 1.3975
Batch 80/248, train_loss: 0.2131, step time: 1.4086
Batch 81/248, train_loss: 0.2352, step time: 1.3878
Batch 82/248, train_loss: 0.1027, step time: 1.4124
Batch 83/248, train_loss: 0.4613, step time: 1.4000
Batch 84/248, train_loss: 0.2358, step time: 1.3975
Batch 85/248, train_loss: 0.3555, step time: 1.3692
Batch 86/248, train_loss: 0.2396, step time: 1.3760
Batch 87/248, train_loss: 0.9540, step time: 1.3891
Batch 88/248, train_loss: 0.4049, step time: 1.4027
Batch 89/248, train_loss: 0.0999, step time: 1.3995
Batch 90/248, train_loss: 0.3587, step time: 1.3877
Batch 91/248, train_loss: 0.3399, step time: 1.3925
Batch 92/248, train_loss: 0.8561, step time: 1.4151
Batch 93/248, train_loss: 0.1399, step time: 1.3642
Batch 94/248, train_loss: 0.2737, step time: 1.3732
Batch 95/248, train_loss: 0.1953, step time: 1.3687
Batch 96/248, train_loss: 0.1395, step time: 1.3568
Batch 97/248, train_loss: 0.6661, step time: 1.3648
Batch 98/248, train_loss: 0.1266, step time: 1.3709
Batch 99/248, train_loss: 0.2724, step time: 1.3595
Batch 100/248, train_loss: 0.5153, step time: 1.3996
Batch 101/248, train_loss: 0.0496, step time: 1.3599
Batch 102/248, train_loss: 0.1109, step time: 1.3938
Batch 103/248, train_loss: 0.3966, step time: 1.3811
Batch 104/248, train_loss: 0.3250, step time: 1.3662
Batch 105/248, train_loss: 0.0824, step time: 1.3734
Batch 106/248, train_loss: 0.1327, step time: 1.3689
Batch 107/248, train_loss: 0.2534, step time: 1.3866
Batch 108/248, train_loss: 0.5511, step time: 1.4084
Batch 109/248, train_loss: 0.9562, step time: 1.4156
Batch 110/248, train_loss: 0.7760, step time: 1.3794
Batch 111/248, train_loss: 0.1005, step time: 1.3977
Batch 112/248, train_loss: 0.0921, step time: 1.3758
Batch 113/248, train_loss: 0.5714, step time: 1.3963
Batch 114/248, train_loss: 0.1499, step time: 1.3821
Batch 115/248, train_loss: 0.1462, step time: 1.3993
Batch 116/248, train_loss: 0.0632, step time: 1.3698
Batch 117/248, train_loss: 0.8776, step time: 1.3818
Batch 118/248, train_loss: 0.1748, step time: 1.4072
Batch 119/248, train_loss: 0.2519, step time: 1.3726
Batch 120/248, train_loss: 0.2112, step time: 1.3724
Batch 121/248, train_loss: 0.2631, step time: 1.3932
Batch 122/248, train_loss: 0.4792, step time: 1.3886
Batch 123/248, train_loss: 0.0614, step time: 1.3948
Batch 124/248, train_loss: 0.4571, step time: 1.4123
Batch 125/248, train_loss: 0.5164, step time: 1.3820
Batch 126/248, train_loss: 0.2386, step time: 1.3770
Batch 127/248, train_loss: 0.1086, step time: 1.3807
Batch 128/248, train_loss: 0.1653, step time: 1.3848
Batch 129/248, train_loss: 0.1013, step time: 1.3867
Batch 130/248, train_loss: 0.1618, step time: 1.3932
Batch 131/248, train_loss: 0.4435, step time: 1.3932
Batch 132/248, train_loss: 0.1905, step time: 1.3849
Batch 133/248, train_loss: 0.1510, step time: 1.3776
Batch 134/248, train_loss: 0.9375, step time: 1.3922
Batch 135/248, train_loss: 0.2257, step time: 1.3766
Batch 136/248, train_loss: 0.1508, step time: 1.3677
Batch 137/248, train_loss: 0.1510, step time: 1.3980
Batch 138/248, train_loss: 0.0923, step time: 1.3800
Batch 139/248, train_loss: 0.7163, step time: 1.3748
Batch 140/248, train_loss: 0.2178, step time: 1.3784
Batch 141/248, train_loss: 0.1778, step time: 1.3936
Batch 142/248, train_loss: 0.5959, step time: 1.4085
Batch 143/248, train_loss: 0.2361, step time: 1.3618
Batch 144/248, train_loss: 0.1429, step time: 1.3902
Batch 145/248, train_loss: 0.1425, step time: 1.3890
Batch 146/248, train_loss: 0.7363, step time: 1.4077
Batch 147/248, train_loss: 0.0602, step time: 1.3680
Batch 148/248, train_loss: 0.6279, step time: 1.3856
Batch 149/248, train_loss: 0.1485, step time: 1.3884
Batch 150/248, train_loss: 0.6145, step time: 1.3875

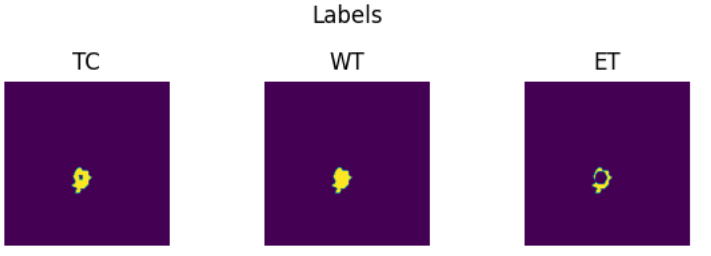
```
Batch 151/248, train_loss: 0.5089, step time: 1.3833
Batch 152/248, train_loss: 0.0471, step time: 1.3835
Batch 153/248, train_loss: 0.2241, step time: 1.4036
Batch 154/248, train_loss: 0.5734, step time: 1.3749
Batch 155/248, train_loss: 0.1031, step time: 1.3695
Batch 156/248, train_loss: 0.1922, step time: 1.3716
Batch 157/248, train_loss: 0.3269, step time: 1.3656
Batch 158/248, train_loss: 0.9875, step time: 1.3705
Batch 159/248, train_loss: 0.5645, step time: 1.4032
Batch 160/248, train_loss: 0.1027, step time: 1.3766
Batch 161/248, train_loss: 0.0660, step time: 1.4005
Batch 162/248, train_loss: 0.0900, step time: 1.3808
Batch 163/248, train_loss: 0.1494, step time: 1.3783
Batch 164/248, train_loss: 0.3000, step time: 1.3789
Batch 165/248, train_loss: 0.7028, step time: 1.4156
Batch 166/248, train_loss: 0.1023, step time: 1.3907
Batch 167/248, train_loss: 0.1525, step time: 1.3755
Batch 168/248, train_loss: 0.1616, step time: 1.3789
Batch 169/248, train_loss: 0.1084, step time: 1.3706
Batch 170/248, train_loss: 0.5295, step time: 1.3887
Batch 171/248, train_loss: 0.0885, step time: 1.3657
Batch 172/248, train_loss: 0.5107, step time: 1.3624
Batch 173/248, train_loss: 0.2238, step time: 1.3790
Batch 174/248, train_loss: 0.4925, step time: 1.3699
Batch 175/248, train_loss: 0.2134, step time: 1.3620
Batch 176/248, train_loss: 0.3747, step time: 1.3753
Batch 177/248, train_loss: 0.3054, step time: 1.3981
Batch 178/248, train_loss: 0.5479, step time: 1.4056
Batch 179/248, train_loss: 0.0859, step time: 1.3650
Batch 180/248, train_loss: 0.4619, step time: 1.4005
Batch 181/248, train_loss: 0.0849, step time: 1.3881
Batch 182/248, train_loss: 0.8823, step time: 1.3725
Batch 183/248, train_loss: 0.1126, step time: 1.3712
Batch 184/248, train_loss: 0.2279, step time: 1.3797
Batch 185/248, train_loss: 0.0878, step time: 1.3559
Batch 186/248, train_loss: 0.0789, step time: 1.3598
Batch 187/248, train_loss: 0.1869, step time: 1.3870
Batch 188/248, train_loss: 0.2114, step time: 1.3799
Batch 189/248, train_loss: 0.5424, step time: 1.3756
Batch 190/248, train_loss: 0.1477, step time: 1.3838
Batch 191/248, train_loss: 0.6801, step time: 1.3815
Batch 192/248, train_loss: 0.2156, step time: 1.3663
Batch 193/248, train_loss: 0.2380, step time: 1.3862
Batch 194/248, train_loss: 0.0876, step time: 1.3888
Batch 195/248, train_loss: 0.6038, step time: 1.3944
Batch 196/248, train_loss: 0.6857, step time: 1.3887
Batch 197/248, train_loss: 0.1883, step time: 1.3682
Batch 198/248, train_loss: 0.9965, step time: 1.3982
Batch 199/248, train_loss: 0.1575, step time: 1.3718
Batch 200/248, train_loss: 0.1795, step time: 1.3761
Batch 201/248, train_loss: 0.1290, step time: 1.3776
Batch 202/248, train_loss: 0.4275, step time: 1.3811
Batch 203/248, train_loss: 0.3333, step time: 1.3858
Batch 204/248, train_loss: 0.0790, step time: 1.3868
Batch 205/248, train_loss: 0.2448, step time: 1.3859
Batch 206/248, train_loss: 0.7233, step time: 1.3723
Batch 207/248, train_loss: 0.0992, step time: 1.3823
Batch 208/248, train_loss: 0.1612, step time: 1.3659
Batch 209/248, train_loss: 0.1287, step time: 1.3669
Batch 210/248, train_loss: 0.0707, step time: 1.3626
Batch 211/248, train_loss: 0.0860, step time: 1.3847
Batch 212/248, train_loss: 0.2868, step time: 1.3769
Batch 213/248, train_loss: 0.1828, step time: 1.3969
Batch 214/248, train_loss: 0.0868, step time: 1.3609
Batch 215/248, train_loss: 0.3739, step time: 1.3825
Batch 216/248, train_loss: 0.2934, step time: 1.3905
Batch 217/248, train_loss: 0.2616, step time: 1.3838
Batch 218/248, train_loss: 0.7623, step time: 1.3822
Batch 219/248, train_loss: 0.0827, step time: 1.3969
Batch 220/248, train_loss: 0.2105, step time: 1.3665
Batch 221/248, train_loss: 0.3065, step time: 1.3885
Batch 222/248, train_loss: 0.2644, step time: 1.3644
Batch 223/248, train_loss: 0.0474, step time: 1.3606
Batch 224/248, train_loss: 0.0904, step time: 1.3549
Batch 225/248, train_loss: 0.2712, step time: 1.3649
Batch 226/248, train_loss: 0.3989, step time: 1.3952
Batch 227/248, train_loss: 0.0828, step time: 1.3790
Batch 228/248, train_loss: 0.1463, step time: 1.3881
Batch 229/248, train_loss: 0.0944, step time: 1.3689
Batch 230/248, train_loss: 0.1038, step time: 1.3605
Batch 231/248, train_loss: 0.9477, step time: 1.4058
Batch 232/248, train_loss: 0.0837, step time: 1.3670
Batch 233/248, train_loss: 0.9749, step time: 1.3735
Batch 234/248, train_loss: 0.5616, step time: 1.3977
Batch 235/248, train_loss: 0.2863, step time: 1.3814
```

```
Batch 236/248, train_loss: 0.7760, step time: 1.3968
Batch 237/248, train_loss: 0.1481, step time: 1.4013
Batch 238/248, train_loss: 0.0955, step time: 1.3613
Batch 239/248, train_loss: 0.2692, step time: 1.3697
Batch 240/248, train_loss: 0.6413, step time: 1.4081
Batch 241/248, train_loss: 0.8482, step time: 1.3982
Batch 242/248, train_loss: 0.1843, step time: 1.3962
Batch 243/248, train_loss: 0.4502, step time: 1.3620
Batch 244/248, train_loss: 0.4379, step time: 1.3888
Batch 245/248, train_loss: 0.0663, step time: 1.3883
Batch 246/248, train_loss: 0.5757, step time: 1.3620
Batch 247/248, train_loss: 0.0903, step time: 1.3598
Batch 248/248, train_loss: 0.9994, step time: 1.3899
```



VAL

```
Batch 1/31, val_loss: 0.8573
Batch 2/31, val_loss: 0.9958
Batch 3/31, val_loss: 0.9673
Batch 4/31, val_loss: 0.9490
Batch 5/31, val_loss: 0.9922
Batch 6/31, val_loss: 0.7596
Batch 7/31, val_loss: 0.9230
Batch 8/31, val_loss: 0.9635
Batch 9/31, val_loss: 0.7043
Batch 10/31, val_loss: 0.9159
Batch 11/31, val_loss: 0.8226
Batch 12/31, val_loss: 0.9778
Batch 13/31, val_loss: 0.9989
Batch 14/31, val_loss: 0.9450
Batch 15/31, val_loss: 0.9870
Batch 16/31, val_loss: 0.9722
Batch 17/31, val_loss: 0.9693
Batch 18/31, val_loss: 0.9371
Batch 19/31, val_loss: 0.7472
Batch 20/31, val_loss: 0.8744
Batch 21/31, val_loss: 0.9051
Batch 22/31, val_loss: 0.9644
Batch 23/31, val_loss: 0.9717
Batch 24/31, val_loss: 0.7443
Batch 25/31, val_loss: 0.8002
Batch 26/31, val_loss: 0.9280
Batch 27/31, val_loss: 0.9767
Batch 28/31, val_loss: 0.7455
Batch 29/31, val_loss: 0.9829
Batch 30/31, val_loss: 0.9634
Batch 31/31, val_loss: 0.9760
```



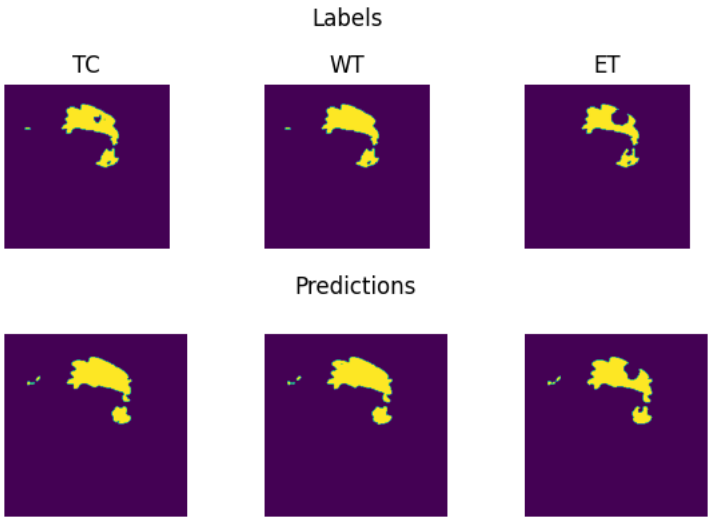
  

```
epoch 44
   average train loss: 0.3090
   average validation loss: 0.9103
   saved as best model: False
   current mean dice: 0.5527
   current TC dice: 0.5909
   current WT dice: 0.5961
   current ET dice: 0.5097
Best Mean Metric: 0.5971
time consuming of epoch 44 is: 1671.5003
----------
epoch 45/100
TRAIN
   Batch 1/248, train_loss: 0.1006, step time: 1.4464
   Batch 2/248, train_loss: 0.8367, step time: 1.3850
   Batch 3/248, train_loss: 0.2780, step time: 1.3953
   Batch 4/248, train_loss: 0.9732, step time: 1.3892
   Batch 5/248, train_loss: 0.2745, step time: 1.3889
   Batch 6/248, train_loss: 0.4031, step time: 1.3846
   Batch 7/248, train_loss: 0.0698, step time: 1.3593
   Batch 8/248, train_loss: 0.6211, step time: 1.3689
   Batch 9/248, train_loss: 0.0441, step time: 1.3904
   Batch 10/248, train_loss: 0.2626, step time: 1.3873
   Batch 11/248, train_loss: 0.2052, step time: 1.3816
   Batch 12/248, train_loss: 0.3895, step time: 1.3794
   Batch 13/248, train_loss: 0.2836, step time: 1.3762
   Batch 14/248, train_loss: 0.0592, step time: 1.3636
   Batch 15/248, train_loss: 0.3103, step time: 1.3549
   Batch 16/248, train_loss: 0.1579, step time: 1.3720
   Batch 17/248, train_loss: 0.2374, step time: 1.3639
   Batch 18/248, train_loss: 0.3316, step time: 1.3627
   Batch 19/248, train_loss: 0.1634, step time: 1.3874
   Batch 20/248, train_loss: 0.1279, step time: 1.3946
   Batch 21/248, train_loss: 0.0565, step time: 1.3669
   Batch 22/248, train_loss: 0.9224, step time: 1.3890
   Batch 23/248, train_loss: 0.8027, step time: 1.3927
   Batch 24/248, train_loss: 0.1117, step time: 1.3737
   Batch 25/248, train_loss: 0.0603, step time: 1.3663
   Batch 26/248, train_loss: 0.4467, step time: 1.3844
   Batch 27/248, train_loss: 0.0793, step time: 1.3725
   Batch 28/248, train_loss: 0.1641, step time: 1.4033
   Batch 29/248, train_loss: 0.3801, step time: 1.3951
   Batch 30/248, train_loss: 0.5415, step time: 1.3935
   Batch 31/248, train_loss: 0.2787, step time: 1.4014
   Batch 32/248, train_loss: 0.0787, step time: 1.3841
   Batch 33/248, train_loss: 0.0778, step time: 1.3630
   Batch 34/248, train_loss: 0.0512, step time: 1.3512
   Batch 35/248, train_loss: 0.0834, step time: 1.3691
   Batch 36/248, train_loss: 0.6037, step time: 1.3752
   Batch 37/248, train_loss: 0.1457, step time: 1.3982
   Batch 38/248, train_loss: 0.2801, step time: 1.3626
   Batch 39/248, train_loss: 0.1842, step time: 1.3845
   Batch 40/248, train_loss: 0.9191, step time: 1.3832
   Batch 41/248, train_loss: 0.2079, step time: 1.3719
   Batch 42/248, train_loss: 0.0772, step time: 1.3834
   Batch 43/248, train_loss: 0.0636, step time: 1.3886
   Batch 44/248, train_loss: 0.2483, step time: 1.4022
   Batch 45/248, train_loss: 0.7369, step time: 1.4151
   Batch 46/248, train_loss: 0.1622, step time: 1.3968
   Batch 47/248, train_loss: 0.0738, step time: 1.3778
   Batch 48/248, train_loss: 0.5787, step time: 1.3775
   Batch 49/248, train_loss: 0.4157, step time: 1.3944
   Batch 50/248, train_loss: 0.1451, step time: 1.3850
   Batch 51/248, train_loss: 0.1487, step time: 1.3960
   Batch 52/248, train_loss: 0.1444, step time: 1.3870
   Batch 53/248, train_loss: 0.5608, step time: 1.4063
   Batch 54/248, train_loss: 0.2791, step time: 1.3962
   Batch 55/248, train_loss: 0.9134, step time: 1.3873
   Batch 56/248, train_loss: 0.1857, step time: 1.4023
   Batch 57/248, train_loss: 0.4069, step time: 1.3706
   Batch 58/248, train_loss: 0.0850, step time: 1.3724
   Batch 59/248, train_loss: 0.1233, step time: 1.3880
   Batch 60/248, train_loss: 0.0908, step time: 1.3847
   Batch 61/248, train_loss: 0.1363, step time: 1.3693
   Batch 62/248, train_loss: 0.2570, step time: 1.4023
   Batch 63/248, train_loss: 0.5803, step time: 1.3990
   Batch 64/248, train_loss: 0.6599, step time: 1.4077
   Batch 65/248, train_loss: 0.3234, step time: 1.3718
```

Batch 66/248, train_loss: 0.1885, step time: 1.3825
Batch 67/248, train_loss: 0.0705, step time: 1.3607
Batch 68/248, train_loss: 0.1506, step time: 1.3803
Batch 69/248, train_loss: 0.6961, step time: 1.3839
Batch 70/248, train_loss: 0.1877, step time: 1.3774
Batch 71/248, train_loss: 0.1394, step time: 1.3656
Batch 72/248, train_loss: 0.0748, step time: 1.3798
Batch 73/248, train_loss: 0.1716, step time: 1.3507
Batch 74/248, train_loss: 0.9956, step time: 1.3603
Batch 75/248, train_loss: 0.1158, step time: 1.3696
Batch 76/248, train_loss: 0.6347, step time: 1.3788
Batch 77/248, train_loss: 0.7482, step time: 1.4062
Batch 78/248, train_loss: 0.0908, step time: 1.3715
Batch 79/248, train_loss: 0.1328, step time: 1.3772
Batch 80/248, train_loss: 0.2080, step time: 1.4011
Batch 81/248, train_loss: 0.1605, step time: 1.3723
Batch 82/248, train_loss: 0.0885, step time: 1.3761
Batch 83/248, train_loss: 0.5399, step time: 1.4078
Batch 84/248, train_loss: 0.2937, step time: 1.3934
Batch 85/248, train_loss: 0.3831, step time: 1.3604
Batch 86/248, train_loss: 0.2424, step time: 1.3516
Batch 87/248, train_loss: 0.9373, step time: 1.3689
Batch 88/248, train_loss: 0.3651, step time: 1.3766
Batch 89/248, train_loss: 0.0774, step time: 1.3656
Batch 90/248, train_loss: 0.2520, step time: 1.3816
Batch 91/248, train_loss: 0.3924, step time: 1.3850
Batch 92/248, train_loss: 0.9143, step time: 1.4091
Batch 93/248, train_loss: 0.1437, step time: 1.3749
Batch 94/248, train_loss: 0.3347, step time: 1.3957
Batch 95/248, train_loss: 0.1822, step time: 1.3808
Batch 96/248, train_loss: 0.1584, step time: 1.3880
Batch 97/248, train_loss: 0.6039, step time: 1.3839
Batch 98/248, train_loss: 0.1559, step time: 1.3947
Batch 99/248, train_loss: 0.3124, step time: 1.3585
Batch 100/248, train_loss: 0.2927, step time: 1.3801
Batch 101/248, train_loss: 0.0477, step time: 1.3622
Batch 102/248, train_loss: 0.1207, step time: 1.3693
Batch 103/248, train_loss: 0.3617, step time: 1.3726
Batch 104/248, train_loss: 0.3110, step time: 1.3924
Batch 105/248, train_loss: 0.1009, step time: 1.3821
Batch 106/248, train_loss: 0.1270, step time: 1.3822
Batch 107/248, train_loss: 0.7035, step time: 1.4078
Batch 108/248, train_loss: 0.6913, step time: 1.3729
Batch 109/248, train_loss: 0.9583, step time: 1.4010
Batch 110/248, train_loss: 0.9950, step time: 1.4006
Batch 111/248, train_loss: 0.0943, step time: 1.3694
Batch 112/248, train_loss: 0.1888, step time: 1.3990
Batch 113/248, train_loss: 0.6109, step time: 1.3746
Batch 114/248, train_loss: 0.1696, step time: 1.3789
Batch 115/248, train_loss: 0.2511, step time: 1.4006
Batch 116/248, train_loss: 0.0777, step time: 1.4027
Batch 117/248, train_loss: 0.9260, step time: 1.3725
Batch 118/248, train_loss: 0.2918, step time: 1.3982
Batch 119/248, train_loss: 0.3516, step time: 1.3856
Batch 120/248, train_loss: 0.2122, step time: 1.3974
Batch 121/248, train_loss: 0.2991, step time: 1.4001
Batch 122/248, train_loss: 0.4331, step time: 1.3749
Batch 123/248, train_loss: 0.0844, step time: 1.3853
Batch 124/248, train_loss: 0.2676, step time: 1.4135
Batch 125/248, train_loss: 0.5178, step time: 1.4026
Batch 126/248, train_loss: 0.3068, step time: 1.3770
Batch 127/248, train_loss: 0.1437, step time: 1.3698
Batch 128/248, train_loss: 0.1584, step time: 1.3671
Batch 129/248, train_loss: 0.0974, step time: 1.3960
Batch 130/248, train_loss: 0.1031, step time: 1.3840
Batch 131/248, train_loss: 0.4447, step time: 1.3679
Batch 132/248, train_loss: 0.1955, step time: 1.3684
Batch 133/248, train_loss: 0.2356, step time: 1.3808
Batch 134/248, train_loss: 0.9266, step time: 1.3974
Batch 135/248, train_loss: 0.2097, step time: 1.3761
Batch 136/248, train_loss: 0.1738, step time: 1.3950
Batch 137/248, train_loss: 0.1325, step time: 1.3784
Batch 138/248, train_loss: 0.0841, step time: 1.3820
Batch 139/248, train_loss: 0.1540, step time: 1.3743
Batch 140/248, train_loss: 0.1531, step time: 1.4000
Batch 141/248, train_loss: 0.1369, step time: 1.3988
Batch 142/248, train_loss: 0.6309, step time: 1.4142
Batch 143/248, train_loss: 0.2437, step time: 1.3891
Batch 144/248, train_loss: 0.1360, step time: 1.3583
Batch 145/248, train_loss: 0.0570, step time: 1.3804
Batch 146/248, train_loss: 0.4096, step time: 1.3823
Batch 147/248, train_loss: 0.0500, step time: 1.3814
Batch 148/248, train_loss: 0.9260, step time: 1.3825
Batch 149/248, train_loss: 0.1420, step time: 1.3908
Batch 150/248, train_loss: 0.6044, step time: 1.4107

```
Batch 151/248, train_loss: 0.2486, step time: 1.3819
Batch 152/248, train_loss: 0.0420, step time: 1.4010
Batch 153/248, train_loss: 0.2359, step time: 1.4071
Batch 154/248, train_loss: 0.5308, step time: 1.3985
Batch 155/248, train_loss: 0.0941, step time: 1.3676
Batch 156/248, train_loss: 0.1450, step time: 1.4030
Batch 157/248, train_loss: 0.3185, step time: 1.3716
Batch 158/248, train_loss: 0.9649, step time: 1.3892
Batch 159/248, train_loss: 0.5203, step time: 1.3953
Batch 160/248, train_loss: 0.1012, step time: 1.3768
Batch 161/248, train_loss: 0.0960, step time: 1.3838
Batch 162/248, train_loss: 0.0764, step time: 1.3692
Batch 163/248, train_loss: 0.1944, step time: 1.4032
Batch 164/248, train_loss: 0.3032, step time: 1.4183
Batch 165/248, train_loss: 0.6842, step time: 1.3982
Batch 166/248, train_loss: 0.1373, step time: 1.4002
Batch 167/248, train_loss: 0.1774, step time: 1.3976
Batch 168/248, train_loss: 0.1405, step time: 1.3801
Batch 169/248, train_loss: 0.1139, step time: 1.3987
Batch 170/248, train_loss: 0.5218, step time: 1.3651
Batch 171/248, train_loss: 0.0841, step time: 1.3550
Batch 172/248, train_loss: 0.4860, step time: 1.4034
Batch 173/248, train_loss: 0.0979, step time: 1.3590
Batch 174/248, train_loss: 0.7755, step time: 1.3852
Batch 175/248, train_loss: 0.1474, step time: 1.3936
Batch 176/248, train_loss: 0.3972, step time: 1.3927
Batch 177/248, train_loss: 0.3714, step time: 1.3786
Batch 178/248, train_loss: 0.2574, step time: 1.3747
Batch 179/248, train_loss: 0.0771, step time: 1.3757
Batch 180/248, train_loss: 0.3608, step time: 1.3657
Batch 181/248, train_loss: 0.0946, step time: 1.3716
Batch 182/248, train_loss: 0.8941, step time: 1.3986
Batch 183/248, train_loss: 0.1037, step time: 1.3686
Batch 184/248, train_loss: 0.3013, step time: 1.3905
Batch 185/248, train_loss: 0.0908, step time: 1.3855
Batch 186/248, train_loss: 0.0742, step time: 1.3751
Batch 187/248, train_loss: 0.2529, step time: 1.4001
Batch 188/248, train_loss: 0.2270, step time: 1.3829
Batch 189/248, train_loss: 0.5759, step time: 1.3990
Batch 190/248, train_loss: 0.1237, step time: 1.3836
Batch 191/248, train_loss: 0.6585, step time: 1.3697
Batch 192/248, train_loss: 0.2487, step time: 1.4022
Batch 193/248, train_loss: 0.2478, step time: 1.3822
Batch 194/248, train_loss: 0.1503, step time: 1.3722
Batch 195/248, train_loss: 0.5621, step time: 1.3847
Batch 196/248, train_loss: 0.9421, step time: 1.4128
Batch 197/248, train_loss: 0.1882, step time: 1.4010
Batch 198/248, train_loss: 0.9897, step time: 1.3973
Batch 199/248, train_loss: 0.1425, step time: 1.3709
Batch 200/248, train_loss: 0.1234, step time: 1.4054
Batch 201/248, train_loss: 0.1295, step time: 1.3746
Batch 202/248, train_loss: 0.5115, step time: 1.3841
Batch 203/248, train_loss: 0.4450, step time: 1.4093
Batch 204/248, train_loss: 0.1487, step time: 1.3686
Batch 205/248, train_loss: 0.2574, step time: 1.3971
Batch 206/248, train_loss: 0.5690, step time: 1.3848
Batch 207/248, train_loss: 0.0741, step time: 1.3725
Batch 208/248, train_loss: 0.1504, step time: 1.3796
Batch 209/248, train_loss: 0.1829, step time: 1.3735
Batch 210/248, train_loss: 0.0659, step time: 1.3587
Batch 211/248, train_loss: 0.0882, step time: 1.3891
Batch 212/248, train_loss: 0.1927, step time: 1.3894
Batch 213/248, train_loss: 0.1759, step time: 1.3921
Batch 214/248, train_loss: 0.0816, step time: 1.3618
Batch 215/248, train_loss: 0.3845, step time: 1.3711
Batch 216/248, train_loss: 0.1908, step time: 1.4085
Batch 217/248, train_loss: 0.2770, step time: 1.3884
Batch 218/248, train_loss: 0.7634, step time: 1.3907
Batch 219/248, train_loss: 0.0937, step time: 1.4001
Batch 220/248, train_loss: 0.2107, step time: 1.3816
Batch 221/248, train_loss: 0.2623, step time: 1.3701
Batch 222/248, train_loss: 0.2319, step time: 1.3961
Batch 223/248, train_loss: 0.0470, step time: 1.3759
Batch 224/248, train_loss: 0.1197, step time: 1.3990
Batch 225/248, train_loss: 0.2275, step time: 1.3856
Batch 226/248, train_loss: 0.1086, step time: 1.3815
Batch 227/248, train_loss: 0.0825, step time: 1.3563
Batch 228/248, train_loss: 0.1374, step time: 1.3918
Batch 229/248, train_loss: 0.1009, step time: 1.3755
Batch 230/248, train_loss: 0.0650, step time: 1.3553
Batch 231/248, train_loss: 0.4974, step time: 1.4117
Batch 232/248, train_loss: 0.0713, step time: 1.3701
Batch 233/248, train_loss: 0.9715, step time: 1.3678
Batch 234/248, train_loss: 0.4235, step time: 1.3973
Batch 235/248, train_loss: 0.2549, step time: 1.4214
```

```
Batch 236/248, train_loss: 0.7374, step time: 1.3887
Batch 237/248, train_loss: 0.1332, step time: 1.3949
Batch 238/248, train_loss: 0.0952, step time: 1.3886
Batch 239/248, train_loss: 0.0545, step time: 1.3811
Batch 240/248, train_loss: 0.4190, step time: 1.3743
Batch 241/248, train_loss: 0.8770, step time: 1.3987
Batch 242/248, train_loss: 0.1596, step time: 1.3784
Batch 243/248, train_loss: 0.4010, step time: 1.3824
Batch 244/248, train_loss: 0.3824, step time: 1.3886
Batch 245/248, train_loss: 0.0738, step time: 1.3834
Batch 246/248, train_loss: 0.5890, step time: 1.3956
Batch 247/248, train_loss: 0.0776, step time: 1.3730
Batch 248/248, train_loss: 0.9998, step time: 1.3702
```



VAL

```
Batch 1/31, val_loss: 0.8308
Batch 2/31, val_loss: 0.9934
Batch 3/31, val_loss: 0.9724
Batch 4/31, val_loss: 0.9474
Batch 5/31, val_loss: 0.9946
Batch 6/31, val_loss: 0.6904
Batch 7/31, val_loss: 0.8241
Batch 8/31, val_loss: 0.9606
Batch 9/31, val_loss: 0.6920
Batch 10/31, val_loss: 0.9113
Batch 11/31, val_loss: 0.8173
Batch 12/31, val_loss: 0.9780
Batch 13/31, val_loss: 0.9881
Batch 14/31, val_loss: 0.9579
Batch 15/31, val_loss: 0.9863
Batch 16/31, val_loss: 0.9711
Batch 17/31, val_loss: 0.9652
Batch 18/31, val_loss: 0.9349
Batch 19/31, val_loss: 0.7383
Batch 20/31, val_loss: 0.8474
Batch 21/31, val_loss: 0.8797
Batch 22/31, val_loss: 0.9684
Batch 23/31, val_loss: 0.9718
Batch 24/31, val_loss: 0.7379
Batch 25/31, val_loss: 0.8019
Batch 26/31, val_loss: 0.9250
Batch 27/31, val_loss: 0.9794
Batch 28/31, val_loss: 0.7451
Batch 29/31, val_loss: 0.9812
Batch 30/31, val_loss: 0.9641
Batch 31/31, val_loss: 0.9727
```

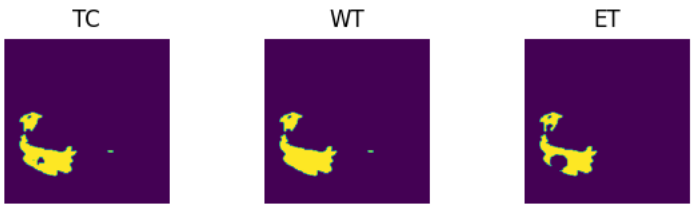
```
epoch 45
   average train loss: 0.3096
   average validation loss: 0.9009
   saved as best model: False
   current mean dice: 0.5742
   current TC dice: 0.6064
   current WT dice: 0.6148
   current ET dice: 0.5454
Best Mean Metric: 0.5971
time consuming of epoch 45 is: 1681.8500
----------
epoch 46/100
TRAIN
   Batch 1/248, train_loss: 0.0752, step time: 1.4401
   Batch 2/248, train_loss: 0.7725, step time: 1.3947
   Batch 3/248, train_loss: 0.3835, step time: 1.4054
   Batch 4/248, train_loss: 0.9864, step time: 1.4087
   Batch 5/248, train_loss: 0.2009, step time: 1.3680
   Batch 6/248, train_loss: 0.4128, step time: 1.4110
   Batch 7/248, train_loss: 0.0653, step time: 1.3750
   Batch 8/248, train_loss: 0.6009, step time: 1.3910
   Batch 9/248, train_loss: 0.0482, step time: 1.4001
   Batch 10/248, train_loss: 0.2478, step time: 1.3715
   Batch 11/248, train_loss: 0.1962, step time: 1.3800
   Batch 12/248, train_loss: 0.3596, step time: 1.4109
   Batch 13/248, train_loss: 0.2940, step time: 1.4058
   Batch 14/248, train_loss: 0.0545, step time: 1.3639
   Batch 15/248, train_loss: 0.3351, step time: 1.3964
   Batch 16/248, train_loss: 0.1388, step time: 1.3635
   Batch 17/248, train_loss: 0.2477, step time: 1.3748
   Batch 18/248, train_loss: 0.2871, step time: 1.4043
   Batch 19/248, train_loss: 0.3012, step time: 1.3898
   Batch 20/248, train_loss: 0.1281, step time: 1.3804
   Batch 21/248, train_loss: 0.0489, step time: 1.3900
   Batch 22/248, train_loss: 0.8206, step time: 1.3714
   Batch 23/248, train_loss: 0.6269, step time: 1.4153
   Batch 24/248, train_loss: 0.1099, step time: 1.4081
   Batch 25/248, train_loss: 0.2383, step time: 1.3856
   Batch 26/248, train_loss: 0.3741, step time: 1.4056
   Batch 27/248, train_loss: 0.0684, step time: 1.4047
   Batch 28/248, train_loss: 0.1575, step time: 1.3774
   Batch 29/248, train_loss: 0.3773, step time: 1.3946
   Batch 30/248, train_loss: 0.2706, step time: 1.3904
   Batch 31/248, train_loss: 0.3003, step time: 1.4000
   Batch 32/248, train_loss: 0.0678, step time: 1.3799
   Batch 33/248, train_loss: 0.0829, step time: 1.3987
   Batch 34/248, train_loss: 0.0511, step time: 1.3708
   Batch 35/248, train_loss: 0.0883, step time: 1.3688
   Batch 36/248, train_loss: 0.9641, step time: 1.3777
   Batch 37/248, train_loss: 0.1521, step time: 1.3817
   Batch 38/248, train_loss: 0.2843, step time: 1.3884
   Batch 39/248, train_loss: 0.1853, step time: 1.3861
   Batch 40/248, train_loss: 0.6490, step time: 1.4147
   Batch 41/248, train_loss: 0.2122, step time: 1.3826
   Batch 42/248, train_loss: 0.0846, step time: 1.4016
   Batch 43/248, train_loss: 0.0535, step time: 1.3981
   Batch 44/248, train_loss: 0.3660, step time: 1.4038
   Batch 45/248, train_loss: 0.6231, step time: 1.4098
   Batch 46/248, train_loss: 0.1443, step time: 1.3762
   Batch 47/248, train_loss: 0.0876, step time: 1.3685
   Batch 48/248, train_loss: 0.3111, step time: 1.3626
   Batch 49/248, train_loss: 0.4110, step time: 1.3761
   Batch 50/248, train_loss: 0.1423, step time: 1.3629
   Batch 51/248, train_loss: 0.1558, step time: 1.3718
   Batch 52/248, train_loss: 0.1528, step time: 1.3781
   Batch 53/248, train_loss: 0.3943, step time: 1.3985
   Batch 54/248, train_loss: 0.2594, step time: 1.4008
   Batch 55/248, train_loss: 0.2487, step time: 1.4193
   Batch 56/248, train_loss: 0.1944, step time: 1.4081
   Batch 57/248, train_loss: 0.3369, step time: 1.3828
   Batch 58/248, train_loss: 0.0693, step time: 1.3710
   Batch 59/248, train_loss: 0.1026, step time: 1.3605
   Batch 60/248, train_loss: 0.0577, step time: 1.3697
   Batch 61/248, train_loss: 0.0890, step time: 1.3775
   Batch 62/248, train_loss: 0.2519, step time: 1.3737
   Batch 63/248, train_loss: 0.4935, step time: 1.4076
   Batch 64/248, train_loss: 0.3892, step time: 1.3769
   Batch 65/248, train_loss: 0.2500, step time: 1.3954
```

```
Batch 66/248, train_loss: 0.1280, step time: 1.3976
Batch 67/248, train_loss: 0.0740, step time: 1.3611
Batch 68/248, train_loss: 0.1350, step time: 1.3965
Batch 69/248, train_loss: 0.6470, step time: 1.4085
Batch 70/248, train_loss: 0.1380, step time: 1.3826
Batch 71/248, train_loss: 0.1675, step time: 1.4132
Batch 72/248, train_loss: 0.0934, step time: 1.3822
Batch 73/248, train_loss: 0.1141, step time: 1.3716
Batch 74/248, train_loss: 0.9863, step time: 1.3576
Batch 75/248, train_loss: 0.1091, step time: 1.3838
Batch 76/248, train_loss: 0.5220, step time: 1.3924
Batch 77/248, train_loss: 0.9792, step time: 1.3980
Batch 78/248, train_loss: 0.1016, step time: 1.3653
Batch 79/248, train_loss: 0.1360, step time: 1.4093
Batch 80/248, train_loss: 0.2091, step time: 1.3762
Batch 81/248, train_loss: 0.1510, step time: 1.4214
Batch 82/248, train_loss: 0.0956, step time: 1.3978
Batch 83/248, train_loss: 0.5731, step time: 1.3897
Batch 84/248, train_loss: 0.3359, step time: 1.4017
Batch 85/248, train_loss: 0.4222, step time: 1.3881
Batch 86/248, train_loss: 0.2075, step time: 1.3692
Batch 87/248, train_loss: 0.9704, step time: 1.4085
Batch 88/248, train_loss: 0.3513, step time: 1.3973
Batch 89/248, train_loss: 0.0787, step time: 1.3992
Batch 90/248, train_loss: 0.2694, step time: 1.4151
Batch 91/248, train_loss: 0.3518, step time: 1.4054
Batch 92/248, train_loss: 0.6947, step time: 1.4154
Batch 93/248, train_loss: 0.1497, step time: 1.3907
Batch 94/248, train_loss: 0.3133, step time: 1.3817
Batch 95/248, train_loss: 0.1937, step time: 1.3728
Batch 96/248, train_loss: 0.1365, step time: 1.3685
Batch 97/248, train_loss: 0.5710, step time: 1.3771
Batch 98/248, train_loss: 0.1095, step time: 1.3636
Batch 99/248, train_loss: 0.3017, step time: 1.3899
Batch 100/248, train_loss: 0.3428, step time: 1.3857
Batch 101/248, train_loss: 0.0555, step time: 1.3668
Batch 102/248, train_loss: 0.2779, step time: 1.3960
Batch 103/248, train_loss: 0.3621, step time: 1.3731
Batch 104/248, train_loss: 0.2992, step time: 1.4012
Batch 105/248, train_loss: 0.0848, step time: 1.3962
Batch 106/248, train_loss: 0.1412, step time: 1.4067
Batch 107/248, train_loss: 0.3200, step time: 1.4058
Batch 108/248, train_loss: 0.6084, step time: 1.3861
Batch 109/248, train_loss: 0.9039, step time: 1.4113
Batch 110/248, train_loss: 0.9228, step time: 1.4014
Batch 111/248, train_loss: 0.0949, step time: 1.3693
Batch 112/248, train_loss: 0.1108, step time: 1.3801
Batch 113/248, train_loss: 0.8752, step time: 1.3814
Batch 114/248, train_loss: 0.1142, step time: 1.3985
Batch 115/248, train_loss: 0.1203, step time: 1.3759
Batch 116/248, train_loss: 0.0641, step time: 1.3665
Batch 117/248, train_loss: 0.4911, step time: 1.4002
Batch 118/248, train_loss: 0.1637, step time: 1.3760
Batch 119/248, train_loss: 0.3159, step time: 1.3789
Batch 120/248, train_loss: 0.2233, step time: 1.3886
Batch 121/248, train_loss: 0.2765, step time: 1.3992
Batch 122/248, train_loss: 0.4307, step time: 1.3814
Batch 123/248, train_loss: 0.0664, step time: 1.4050
Batch 124/248, train_loss: 0.2771, step time: 1.3749
Batch 125/248, train_loss: 0.6404, step time: 1.3907
Batch 126/248, train_loss: 0.2643, step time: 1.4132
Batch 127/248, train_loss: 0.1183, step time: 1.3730
Batch 128/248, train_loss: 0.1629, step time: 1.4017
Batch 129/248, train_loss: 0.1012, step time: 1.3905
Batch 130/248, train_loss: 0.0978, step time: 1.4000
Batch 131/248, train_loss: 0.4162, step time: 1.3948
Batch 132/248, train_loss: 0.2777, step time: 1.3660
Batch 133/248, train_loss: 0.2370, step time: 1.4078
Batch 134/248, train_loss: 0.9392, step time: 1.3691
Batch 135/248, train_loss: 0.1809, step time: 1.3996
Batch 136/248, train_loss: 0.1716, step time: 1.3780
Batch 137/248, train_loss: 0.1353, step time: 1.4013
Batch 138/248, train_loss: 0.0688, step time: 1.3868
Batch 139/248, train_loss: 0.3970, step time: 1.4097
Batch 140/248, train_loss: 0.1479, step time: 1.3937
Batch 141/248, train_loss: 0.1467, step time: 1.3660
Batch 142/248, train_loss: 0.5675, step time: 1.4002
Batch 143/248, train_loss: 0.2334, step time: 1.3696
Batch 144/248, train_loss: 0.1222, step time: 1.3627
Batch 145/248, train_loss: 0.0635, step time: 1.3648
Batch 146/248, train_loss: 0.5299, step time: 1.4121
Batch 147/248, train_loss: 0.0428, step time: 1.3631
Batch 148/248, train_loss: 0.9337, step time: 1.3630
Batch 149/248, train_loss: 0.1333, step time: 1.3720
Batch 150/248, train_loss: 0.5977, step time: 1.3801
```

Batch 151/248, train_loss: 0.2658, step time: 1.3829
Batch 152/248, train_loss: 0.0522, step time: 1.3956
Batch 153/248, train_loss: 0.1982, step time: 1.3900
Batch 154/248, train_loss: 0.5506, step time: 1.3917
Batch 155/248, train_loss: 0.0931, step time: 1.3744
Batch 156/248, train_loss: 0.1309, step time: 1.4046
Batch 157/248, train_loss: 0.3598, step time: 1.3654
Batch 158/248, train_loss: 0.9886, step time: 1.3976
Batch 159/248, train_loss: 0.4779, step time: 1.3711
Batch 160/248, train_loss: 0.1129, step time: 1.3729
Batch 161/248, train_loss: 0.0861, step time: 1.3647
Batch 162/248, train_loss: 0.0660, step time: 1.3834
Batch 163/248, train_loss: 0.1674, step time: 1.3778
Batch 164/248, train_loss: 0.2786, step time: 1.3705
Batch 165/248, train_loss: 0.5076, step time: 1.3933
Batch 166/248, train_loss: 0.0966, step time: 1.3789
Batch 167/248, train_loss: 0.1605, step time: 1.3863
Batch 168/248, train_loss: 0.1421, step time: 1.3568
Batch 169/248, train_loss: 0.1122, step time: 1.3895
Batch 170/248, train_loss: 0.5847, step time: 1.3737
Batch 171/248, train_loss: 0.0880, step time: 1.3583
Batch 172/248, train_loss: 0.4334, step time: 1.3957
Batch 173/248, train_loss: 0.1227, step time: 1.4023
Batch 174/248, train_loss: 0.4460, step time: 1.3872
Batch 175/248, train_loss: 0.1356, step time: 1.3910
Batch 176/248, train_loss: 0.3819, step time: 1.3734
Batch 177/248, train_loss: 0.2312, step time: 1.3861
Batch 178/248, train_loss: 0.2127, step time: 1.4041
Batch 179/248, train_loss: 0.0640, step time: 1.3633
Batch 180/248, train_loss: 0.3806, step time: 1.3854
Batch 181/248, train_loss: 0.1036, step time: 1.3809
Batch 182/248, train_loss: 0.9230, step time: 1.3855
Batch 183/248, train_loss: 0.0963, step time: 1.3676
Batch 184/248, train_loss: 0.1972, step time: 1.3854
Batch 185/248, train_loss: 0.0914, step time: 1.3803
Batch 186/248, train_loss: 0.0776, step time: 1.3853
Batch 187/248, train_loss: 0.1956, step time: 1.3828
Batch 188/248, train_loss: 0.2036, step time: 1.3849
Batch 189/248, train_loss: 0.5124, step time: 1.3721
Batch 190/248, train_loss: 0.1192, step time: 1.3714
Batch 191/248, train_loss: 0.6428, step time: 1.3871
Batch 192/248, train_loss: 0.3029, step time: 1.4000
Batch 193/248, train_loss: 0.2533, step time: 1.3870
Batch 194/248, train_loss: 0.0820, step time: 1.3857
Batch 195/248, train_loss: 0.6747, step time: 1.3786
Batch 196/248, train_loss: 0.6373, step time: 1.3987
Batch 197/248, train_loss: 0.1801, step time: 1.3995
Batch 198/248, train_loss: 0.9720, step time: 1.4205
Batch 199/248, train_loss: 0.1589, step time: 1.3725
Batch 200/248, train_loss: 0.1310, step time: 1.3981
Batch 201/248, train_loss: 0.1155, step time: 1.3747
Batch 202/248, train_loss: 0.4665, step time: 1.3744
Batch 203/248, train_loss: 0.3496, step time: 1.4097
Batch 204/248, train_loss: 0.0947, step time: 1.3754
Batch 205/248, train_loss: 0.2545, step time: 1.3712
Batch 206/248, train_loss: 0.4952, step time: 1.3877
Batch 207/248, train_loss: 0.1390, step time: 1.3658
Batch 208/248, train_loss: 0.1402, step time: 1.4019
Batch 209/248, train_loss: 0.1523, step time: 1.4050
Batch 210/248, train_loss: 0.0647, step time: 1.3976
Batch 211/248, train_loss: 0.0874, step time: 1.3990
Batch 212/248, train_loss: 0.2793, step time: 1.3818
Batch 213/248, train_loss: 0.1899, step time: 1.3861
Batch 214/248, train_loss: 0.1147, step time: 1.3717
Batch 215/248, train_loss: 0.3390, step time: 1.4053
Batch 216/248, train_loss: 0.2235, step time: 1.3873
Batch 217/248, train_loss: 0.2672, step time: 1.4118
Batch 218/248, train_loss: 0.7087, step time: 1.4167
Batch 219/248, train_loss: 0.0760, step time: 1.4037
Batch 220/248, train_loss: 0.2170, step time: 1.3691
Batch 221/248, train_loss: 0.3145, step time: 1.4134
Batch 222/248, train_loss: 0.1985, step time: 1.3963
Batch 223/248, train_loss: 0.0537, step time: 1.3628
Batch 224/248, train_loss: 0.1128, step time: 1.3605
Batch 225/248, train_loss: 0.2164, step time: 1.3915
Batch 226/248, train_loss: 0.2978, step time: 1.3609
Batch 227/248, train_loss: 0.1037, step time: 1.3647
Batch 228/248, train_loss: 0.1438, step time: 1.3949
Batch 229/248, train_loss: 0.0860, step time: 1.3566
Batch 230/248, train_loss: 0.0617, step time: 1.3650
Batch 231/248, train_loss: 0.3464, step time: 1.3848
Batch 232/248, train_loss: 0.0698, step time: 1.3785
Batch 233/248, train_loss: 0.9811, step time: 1.3743
Batch 234/248, train_loss: 0.4565, step time: 1.4136

```
Batch 235/248, train_loss: 0.2120, step time: 1.4128
Batch 236/248, train_loss: 0.7669, step time: 1.4012
Batch 237/248, train_loss: 0.1342, step time: 1.3646
Batch 238/248, train_loss: 0.1068, step time: 1.3742
Batch 239/248, train_loss: 0.0571, step time: 1.3679
Batch 240/248, train_loss: 0.3834, step time: 1.3726
Batch 241/248, train_loss: 0.8151, step time: 1.3998
Batch 242/248, train_loss: 0.1701, step time: 1.3994
Batch 243/248, train_loss: 0.4696, step time: 1.3698
Batch 244/248, train_loss: 0.3999, step time: 1.3751
Batch 245/248, train_loss: 0.0725, step time: 1.3900
Batch 246/248, train_loss: 0.6225, step time: 1.3918
Batch 247/248, train_loss: 0.0757, step time: 1.3676
Batch 248/248, train_loss: 0.9993, step time: 1.3686
```

Labels

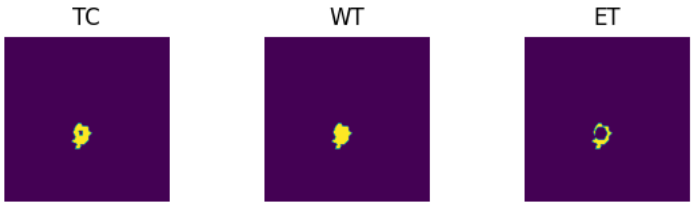


Predictions

VAL

```
Batch 1/31, val_loss: 0.8374
Batch 2/31, val_loss: 0.9966
Batch 3/31, val_loss: 0.9714
Batch 4/31, val_loss: 0.9491
Batch 5/31, val_loss: 0.9948
Batch 6/31, val_loss: 0.7094
Batch 7/31, val_loss: 0.8571
Batch 8/31, val_loss: 0.9727
Batch 9/31, val_loss: 0.6947
Batch 10/31, val_loss: 0.9118
Batch 11/31, val_loss: 0.8176
Batch 12/31, val_loss: 0.9750
Batch 13/31, val_loss: 0.9994
Batch 14/31, val_loss: 0.9426
Batch 15/31, val_loss: 0.9863
Batch 16/31, val_loss: 0.9714
Batch 17/31, val_loss: 0.9722
Batch 18/31, val_loss: 0.9537
Batch 19/31, val_loss: 0.7437
Batch 20/31, val_loss: 0.8540
Batch 21/31, val_loss: 0.8826
Batch 22/31, val_loss: 0.9689
Batch 23/31, val_loss: 0.9736
Batch 24/31, val_loss: 0.7412
Batch 25/31, val_loss: 0.8014
Batch 26/31, val_loss: 0.9216
Batch 27/31, val_loss: 0.9788
Batch 28/31, val_loss: 0.7455
Batch 29/31, val_loss: 0.9797
Batch 30/31, val_loss: 0.9630
Batch 31/31, val_loss: 0.9734
```

Labels



Predictions

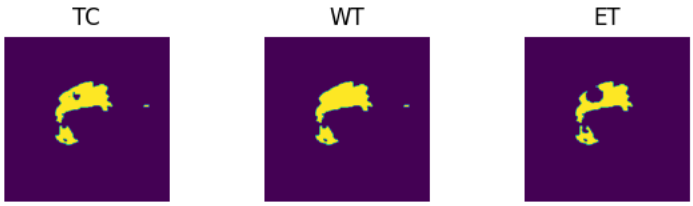
```
epoch 46
   average train loss: 0.2920
   average validation loss: 0.9045
   saved as best model: True
   current mean dice: 0.6003
   current TC dice: 0.6361
   current WT dice: 0.6444
   current ET dice: 0.5613
Best Mean Metric: 0.6003
time consuming of epoch 46 is: 1682.6902
----------
epoch 47/100
TRAIN
   Batch 1/248, train_loss: 0.1004, step time: 1.4434
   Batch 2/248, train_loss: 0.7095, step time: 1.4006
   Batch 3/248, train_loss: 0.4412, step time: 1.3993
   Batch 4/248, train_loss: 0.9573, step time: 1.3864
   Batch 5/248, train_loss: 0.3158, step time: 1.4011
   Batch 6/248, train_loss: 0.2306, step time: 1.3836
   Batch 7/248, train_loss: 0.0668, step time: 1.3789
   Batch 8/248, train_loss: 0.6913, step time: 1.3870
   Batch 9/248, train_loss: 0.0423, step time: 1.3680
   Batch 10/248, train_loss: 0.1959, step time: 1.3816
   Batch 11/248, train_loss: 0.2002, step time: 1.4071
   Batch 12/248, train_loss: 0.3815, step time: 1.3856
   Batch 13/248, train_loss: 0.3091, step time: 1.3936
   Batch 14/248, train_loss: 0.0790, step time: 1.3982
   Batch 15/248, train_loss: 0.3112, step time: 1.3927
   Batch 16/248, train_loss: 0.1512, step time: 1.3672
   Batch 17/248, train_loss: 0.2369, step time: 1.3869
   Batch 18/248, train_loss: 0.3025, step time: 1.4012
   Batch 19/248, train_loss: 0.1884, step time: 1.3887
   Batch 20/248, train_loss: 0.0967, step time: 1.3916
   Batch 21/248, train_loss: 0.0438, step time: 1.3733
   Batch 22/248, train_loss: 0.9501, step time: 1.3926
   Batch 23/248, train_loss: 0.6035, step time: 1.4040
   Batch 24/248, train_loss: 0.0958, step time: 1.4024
   Batch 25/248, train_loss: 0.0644, step time: 1.3792
   Batch 26/248, train_loss: 0.4015, step time: 1.3916
   Batch 27/248, train_loss: 0.0657, step time: 1.3798
   Batch 28/248, train_loss: 0.1661, step time: 1.3775
   Batch 29/248, train_loss: 0.3722, step time: 1.3910
   Batch 30/248, train_loss: 0.2148, step time: 1.4007
   Batch 31/248, train_loss: 0.3151, step time: 1.3703
   Batch 32/248, train_loss: 0.0771, step time: 1.3847
   Batch 33/248, train_loss: 0.1160, step time: 1.3630
   Batch 34/248, train_loss: 0.0486, step time: 1.3549
   Batch 35/248, train_loss: 0.0754, step time: 1.3763
   Batch 36/248, train_loss: 0.5332, step time: 1.3916
   Batch 37/248, train_loss: 0.1493, step time: 1.3943
   Batch 38/248, train_loss: 0.2893, step time: 1.3920
   Batch 39/248, train_loss: 0.1840, step time: 1.3938
   Batch 40/248, train_loss: 0.7055, step time: 1.3842
   Batch 41/248, train_loss: 0.2074, step time: 1.3858
   Batch 42/248, train_loss: 0.0897, step time: 1.3887
   Batch 43/248, train_loss: 0.0552, step time: 1.4043
   Batch 44/248, train_loss: 0.2525, step time: 1.3816
   Batch 45/248, train_loss: 0.7017, step time: 1.3777
   Batch 46/248, train_loss: 0.1780, step time: 1.3749
   Batch 47/248, train_loss: 0.0765, step time: 1.4079
   Batch 48/248, train_loss: 0.2020, step time: 1.3877
   Batch 49/248, train_loss: 0.4217, step time: 1.3729
   Batch 50/248, train_loss: 0.1365, step time: 1.3929
   Batch 51/248, train_loss: 0.1448, step time: 1.3705
   Batch 52/248, train_loss: 0.1312, step time: 1.4116
   Batch 53/248, train_loss: 0.4154, step time: 1.3772
   Batch 54/248, train_loss: 0.2731, step time: 1.4146
   Batch 55/248, train_loss: 0.2499, step time: 1.3897
   Batch 56/248, train_loss: 0.1715, step time: 1.3932
   Batch 57/248, train_loss: 0.2667, step time: 1.3881
   Batch 58/248, train_loss: 0.0783, step time: 1.3936
   Batch 59/248, train_loss: 0.0831, step time: 1.3791
   Batch 60/248, train_loss: 0.0599, step time: 1.3496
   Batch 61/248, train_loss: 0.0797, step time: 1.3639
   Batch 62/248, train_loss: 0.2218, step time: 1.3793
   Batch 63/248, train_loss: 0.3958, step time: 1.4006
   Batch 64/248, train_loss: 0.3997, step time: 1.3963
   Batch 65/248, train_loss: 0.3405, step time: 1.3904
```

Batch 66/248, train_loss: 0.1300, step time: 1.4042
Batch 67/248, train_loss: 0.0692, step time: 1.3721
Batch 68/248, train_loss: 0.1139, step time: 1.3801
Batch 69/248, train_loss: 0.4352, step time: 1.3976
Batch 70/248, train_loss: 0.1477, step time: 1.4078
Batch 71/248, train_loss: 0.1424, step time: 1.3927
Batch 72/248, train_loss: 0.0502, step time: 1.3609
Batch 73/248, train_loss: 0.2760, step time: 1.3704
Batch 74/248, train_loss: 0.9839, step time: 1.3616
Batch 75/248, train_loss: 0.1094, step time: 1.3865
Batch 76/248, train_loss: 0.5851, step time: 1.3891
Batch 77/248, train_loss: 0.9845, step time: 1.3953
Batch 78/248, train_loss: 0.1002, step time: 1.3794
Batch 79/248, train_loss: 0.1498, step time: 1.3903
Batch 80/248, train_loss: 0.2007, step time: 1.3842
Batch 81/248, train_loss: 0.1240, step time: 1.3874
Batch 82/248, train_loss: 0.0859, step time: 1.3796
Batch 83/248, train_loss: 0.5378, step time: 1.4090
Batch 84/248, train_loss: 0.2549, step time: 1.3897
Batch 85/248, train_loss: 0.3486, step time: 1.3982
Batch 86/248, train_loss: 0.4893, step time: 1.3612
Batch 87/248, train_loss: 0.7783, step time: 1.3990
Batch 88/248, train_loss: 0.3649, step time: 1.3616
Batch 89/248, train_loss: 0.0968, step time: 1.3704
Batch 90/248, train_loss: 0.2887, step time: 1.3707
Batch 91/248, train_loss: 0.4098, step time: 1.3853
Batch 92/248, train_loss: 0.6645, step time: 1.3786
Batch 93/248, train_loss: 0.1522, step time: 1.3879
Batch 94/248, train_loss: 0.2543, step time: 1.3971
Batch 95/248, train_loss: 0.1816, step time: 1.3897
Batch 96/248, train_loss: 0.1308, step time: 1.3727
Batch 97/248, train_loss: 0.5456, step time: 1.4193
Batch 98/248, train_loss: 0.1053, step time: 1.3860
Batch 99/248, train_loss: 0.3021, step time: 1.3768
Batch 100/248, train_loss: 0.2770, step time: 1.4024
Batch 101/248, train_loss: 0.0561, step time: 1.3735
Batch 102/248, train_loss: 0.1258, step time: 1.3836
Batch 103/248, train_loss: 0.2942, step time: 1.3846
Batch 104/248, train_loss: 0.2968, step time: 1.3687
Batch 105/248, train_loss: 0.0741, step time: 1.3861
Batch 106/248, train_loss: 0.1839, step time: 1.3940
Batch 107/248, train_loss: 0.2626, step time: 1.4019
Batch 108/248, train_loss: 0.6644, step time: 1.3756
Batch 109/248, train_loss: 0.9258, step time: 1.4118
Batch 110/248, train_loss: 0.8382, step time: 1.3818
Batch 111/248, train_loss: 0.0967, step time: 1.3787
Batch 112/248, train_loss: 0.1487, step time: 1.4050
Batch 113/248, train_loss: 0.5038, step time: 1.3776
Batch 114/248, train_loss: 0.1191, step time: 1.3897
Batch 115/248, train_loss: 0.1547, step time: 1.3912
Batch 116/248, train_loss: 0.0688, step time: 1.3853
Batch 117/248, train_loss: 0.8027, step time: 1.3853
Batch 118/248, train_loss: 0.1850, step time: 1.3650
Batch 119/248, train_loss: 0.2827, step time: 1.3587
Batch 120/248, train_loss: 0.2055, step time: 1.3969
Batch 121/248, train_loss: 0.2799, step time: 1.3734
Batch 122/248, train_loss: 0.5055, step time: 1.3829
Batch 123/248, train_loss: 0.0598, step time: 1.3923
Batch 124/248, train_loss: 0.2687, step time: 1.3644
Batch 125/248, train_loss: 0.6494, step time: 1.4035
Batch 126/248, train_loss: 0.4585, step time: 1.3869
Batch 127/248, train_loss: 0.1108, step time: 1.3836
Batch 128/248, train_loss: 0.1589, step time: 1.4044
Batch 129/248, train_loss: 0.0771, step time: 1.3697
Batch 130/248, train_loss: 0.0966, step time: 1.3973
Batch 131/248, train_loss: 0.5715, step time: 1.3800
Batch 132/248, train_loss: 0.2284, step time: 1.4086
Batch 133/248, train_loss: 0.0961, step time: 1.3870
Batch 134/248, train_loss: 0.8791, step time: 1.3883
Batch 135/248, train_loss: 0.2826, step time: 1.3812
Batch 136/248, train_loss: 0.1532, step time: 1.3734
Batch 137/248, train_loss: 0.1087, step time: 1.3803
Batch 138/248, train_loss: 0.0776, step time: 1.3914
Batch 139/248, train_loss: 0.1937, step time: 1.3630
Batch 140/248, train_loss: 0.1394, step time: 1.3935
Batch 141/248, train_loss: 0.1357, step time: 1.3746
Batch 142/248, train_loss: 0.5237, step time: 1.3993
Batch 143/248, train_loss: 0.2406, step time: 1.3827
Batch 144/248, train_loss: 0.1010, step time: 1.3766
Batch 145/248, train_loss: 0.0534, step time: 1.3893
Batch 146/248, train_loss: 0.3730, step time: 1.3814
Batch 147/248, train_loss: 0.0469, step time: 1.3666
Batch 148/248, train_loss: 0.9260, step time: 1.3733
Batch 149/248, train_loss: 0.1204, step time: 1.3971

Batch 150/248, train_loss: 0.5941, step time: 1.3727
Batch 151/248, train_loss: 0.3486, step time: 1.3925
Batch 152/248, train_loss: 0.0510, step time: 1.3981
Batch 153/248, train_loss: 0.2341, step time: 1.3826
Batch 154/248, train_loss: 0.5849, step time: 1.4053
Batch 155/248, train_loss: 0.1084, step time: 1.4067
Batch 156/248, train_loss: 0.2367, step time: 1.4011
Batch 157/248, train_loss: 0.3384, step time: 1.3744
Batch 158/248, train_loss: 0.9140, step time: 1.3768
Batch 159/248, train_loss: 0.4660, step time: 1.3979
Batch 160/248, train_loss: 0.0883, step time: 1.4046
Batch 161/248, train_loss: 0.0746, step time: 1.3925
Batch 162/248, train_loss: 0.0688, step time: 1.3788
Batch 163/248, train_loss: 0.1489, step time: 1.3879
Batch 164/248, train_loss: 0.2812, step time: 1.3701
Batch 165/248, train_loss: 0.5508, step time: 1.4043
Batch 166/248, train_loss: 0.1089, step time: 1.3683
Batch 167/248, train_loss: 0.1601, step time: 1.3681
Batch 168/248, train_loss: 0.1519, step time: 1.3775
Batch 169/248, train_loss: 0.1103, step time: 1.3769
Batch 170/248, train_loss: 0.5675, step time: 1.3879
Batch 171/248, train_loss: 0.1055, step time: 1.3917
Batch 172/248, train_loss: 0.7441, step time: 1.3947
Batch 173/248, train_loss: 0.1047, step time: 1.3891
Batch 174/248, train_loss: 0.7629, step time: 1.3744
Batch 175/248, train_loss: 0.1278, step time: 1.3881
Batch 176/248, train_loss: 0.3428, step time: 1.4072
Batch 177/248, train_loss: 0.9902, step time: 1.3753
Batch 178/248, train_loss: 0.2579, step time: 1.3885
Batch 179/248, train_loss: 0.1624, step time: 1.3756
Batch 180/248, train_loss: 0.3939, step time: 1.3818
Batch 181/248, train_loss: 0.0864, step time: 1.3807
Batch 182/248, train_loss: 0.9306, step time: 1.3813
Batch 183/248, train_loss: 0.0989, step time: 1.4065
Batch 184/248, train_loss: 0.2329, step time: 1.3725
Batch 185/248, train_loss: 0.1029, step time: 1.3763
Batch 186/248, train_loss: 0.0842, step time: 1.3874
Batch 187/248, train_loss: 0.2035, step time: 1.3882
Batch 188/248, train_loss: 0.2089, step time: 1.3775
Batch 189/248, train_loss: 0.5222, step time: 1.3687
Batch 190/248, train_loss: 0.1314, step time: 1.3725
Batch 191/248, train_loss: 0.7097, step time: 1.3854
Batch 192/248, train_loss: 0.2404, step time: 1.3986
Batch 193/248, train_loss: 0.2563, step time: 1.3744
Batch 194/248, train_loss: 0.0863, step time: 1.3824
Batch 195/248, train_loss: 0.6241, step time: 1.3919
Batch 196/248, train_loss: 0.9417, step time: 1.4132
Batch 197/248, train_loss: 0.1710, step time: 1.3993
Batch 198/248, train_loss: 0.9931, step time: 1.3649
Batch 199/248, train_loss: 0.1429, step time: 1.3862
Batch 200/248, train_loss: 0.1222, step time: 1.3942
Batch 201/248, train_loss: 0.1205, step time: 1.3690
Batch 202/248, train_loss: 0.4371, step time: 1.4016
Batch 203/248, train_loss: 0.3525, step time: 1.3976
Batch 204/248, train_loss: 0.1006, step time: 1.3713
Batch 205/248, train_loss: 0.2651, step time: 1.3690
Batch 206/248, train_loss: 0.5046, step time: 1.3718
Batch 207/248, train_loss: 0.0853, step time: 1.3964
Batch 208/248, train_loss: 0.1402, step time: 1.3743
Batch 209/248, train_loss: 0.1328, step time: 1.3902
Batch 210/248, train_loss: 0.0581, step time: 1.3916
Batch 211/248, train_loss: 0.0790, step time: 1.3660
Batch 212/248, train_loss: 0.2443, step time: 1.3899
Batch 213/248, train_loss: 0.1800, step time: 1.3650
Batch 214/248, train_loss: 0.0789, step time: 1.3606
Batch 215/248, train_loss: 0.3081, step time: 1.3821
Batch 216/248, train_loss: 0.2397, step time: 1.3807
Batch 217/248, train_loss: 0.2678, step time: 1.4123
Batch 218/248, train_loss: 0.8194, step time: 1.3882
Batch 219/248, train_loss: 0.0779, step time: 1.3799
Batch 220/248, train_loss: 0.2070, step time: 1.3927
Batch 221/248, train_loss: 0.2443, step time: 1.3794
Batch 222/248, train_loss: 0.2183, step time: 1.3679
Batch 223/248, train_loss: 0.0487, step time: 1.3804
Batch 224/248, train_loss: 0.1001, step time: 1.3605
Batch 225/248, train_loss: 0.3055, step time: 1.3931
Batch 226/248, train_loss: 0.1248, step time: 1.3978
Batch 227/248, train_loss: 0.0843, step time: 1.3730
Batch 228/248, train_loss: 0.1568, step time: 1.3747
Batch 229/248, train_loss: 0.0933, step time: 1.3618
Batch 230/248, train_loss: 0.0662, step time: 1.3873
Batch 231/248, train_loss: 0.3713, step time: 1.3834
Batch 232/248, train_loss: 0.0724, step time: 1.3674
Batch 233/248, train_loss: 0.9464, step time: 1.3731
Batch 234/248, train_loss: 0.4189, step time: 1.3799

```
Batch 235/248, train_loss: 0.1996, step time: 1.3758
Batch 236/248, train_loss: 0.8178, step time: 1.4118
Batch 237/248, train_loss: 0.1353, step time: 1.3759
Batch 238/248, train_loss: 0.1005, step time: 1.3890
Batch 239/248, train_loss: 0.0940, step time: 1.3719
Batch 240/248, train_loss: 0.3751, step time: 1.3801
Batch 241/248, train_loss: 0.7434, step time: 1.3838
Batch 242/248, train_loss: 0.1513, step time: 1.3764
Batch 243/248, train_loss: 0.4202, step time: 1.3632
Batch 244/248, train_loss: 0.4129, step time: 1.3938
Batch 245/248, train_loss: 0.0749, step time: 1.3697
Batch 246/248, train_loss: 0.6177, step time: 1.3799
Batch 247/248, train_loss: 0.0811, step time: 1.3949
Batch 248/248, train_loss: 0.9994, step time: 1.3798
```

Labels

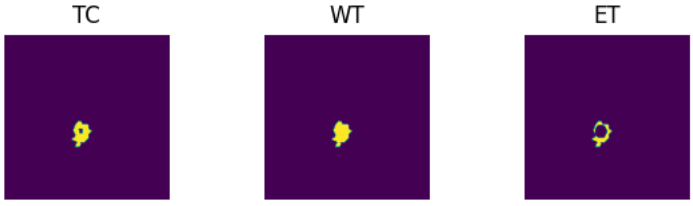


Predictions

VAL

```
Batch 1/31, val_loss: 0.8392
Batch 2/31, val_loss: 0.9917
Batch 3/31, val_loss: 0.9716
Batch 4/31, val_loss: 0.9466
Batch 5/31, val_loss: 0.9923
Batch 6/31, val_loss: 0.6982
Batch 7/31, val_loss: 0.8325
Batch 8/31, val_loss: 0.9620
Batch 9/31, val_loss: 0.6984
Batch 10/31, val_loss: 0.9117
Batch 11/31, val_loss: 0.8187
Batch 12/31, val_loss: 0.9754
Batch 13/31, val_loss: 0.9990
Batch 14/31, val_loss: 0.9475
Batch 15/31, val_loss: 0.9864
Batch 16/31, val_loss: 0.9714
Batch 17/31, val_loss: 0.9702
Batch 18/31, val_loss: 0.9445
Batch 19/31, val_loss: 0.7406
Batch 20/31, val_loss: 0.8602
Batch 21/31, val_loss: 0.8833
Batch 22/31, val_loss: 0.9699
Batch 23/31, val_loss: 0.9714
Batch 24/31, val_loss: 0.7468
Batch 25/31, val_loss: 0.8003
Batch 26/31, val_loss: 0.9237
Batch 27/31, val_loss: 0.9791
Batch 28/31, val_loss: 0.7455
Batch 29/31, val_loss: 0.9814
Batch 30/31, val_loss: 0.9656
Batch 31/31, val_loss: 0.9729
```

Labels



Predictions

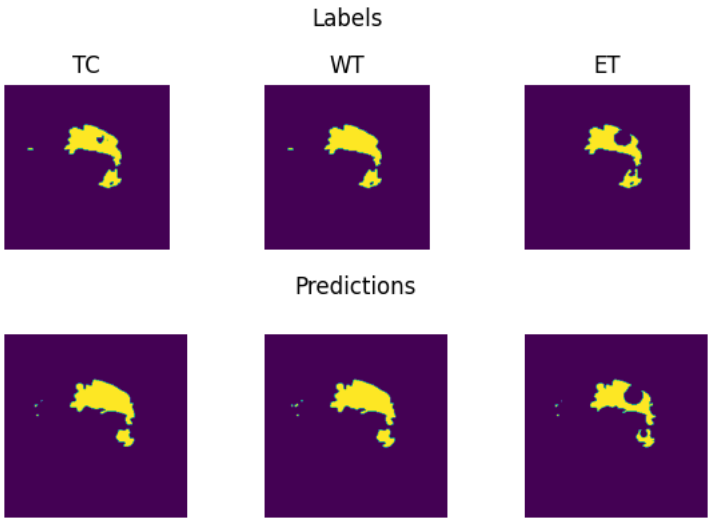
  

```
epoch 47
   average train loss: 0.2921
   average validation loss: 0.9032
   saved as best model: False
   current mean dice: 0.5938
   current TC dice: 0.6302
   current WT dice: 0.6388
   current ET dice: 0.5484
Best Mean Metric: 0.6003
time consuming of epoch 47 is: 1687.3641
----------
epoch 48/100
TRAIN
   Batch 1/248, train_loss: 0.0711, step time: 1.4491
   Batch 2/248, train_loss: 0.7257, step time: 1.4110
   Batch 3/248, train_loss: 0.3974, step time: 1.3819
   Batch 4/248, train_loss: 0.9310, step time: 1.3909
   Batch 5/248, train_loss: 0.1887, step time: 1.3798
   Batch 6/248, train_loss: 0.2120, step time: 1.3787
   Batch 7/248, train_loss: 0.0622, step time: 1.3940
   Batch 8/248, train_loss: 0.6281, step time: 1.4016
   Batch 9/248, train_loss: 0.0438, step time: 1.3728
   Batch 10/248, train_loss: 0.2314, step time: 1.3922
   Batch 11/248, train_loss: 0.1911, step time: 1.3831
   Batch 12/248, train_loss: 0.3636, step time: 1.3857
   Batch 13/248, train_loss: 0.2978, step time: 1.3836
   Batch 14/248, train_loss: 0.1041, step time: 1.3787
   Batch 15/248, train_loss: 0.3384, step time: 1.3921
   Batch 16/248, train_loss: 0.1842, step time: 1.3587
   Batch 17/248, train_loss: 0.2361, step time: 1.3971
   Batch 18/248, train_loss: 0.3017, step time: 1.3894
   Batch 19/248, train_loss: 0.1352, step time: 1.3698
   Batch 20/248, train_loss: 0.2856, step time: 1.3756
   Batch 21/248, train_loss: 0.0443, step time: 1.3883
   Batch 22/248, train_loss: 0.9465, step time: 1.4023
   Batch 23/248, train_loss: 0.6389, step time: 1.4116
   Batch 24/248, train_loss: 0.0889, step time: 1.3666
   Batch 25/248, train_loss: 0.0600, step time: 1.3823
   Batch 26/248, train_loss: 0.4031, step time: 1.3876
   Batch 27/248, train_loss: 0.0643, step time: 1.3886
   Batch 28/248, train_loss: 0.1652, step time: 1.3965
   Batch 29/248, train_loss: 0.3605, step time: 1.3833
   Batch 30/248, train_loss: 0.3119, step time: 1.3895
   Batch 31/248, train_loss: 0.4589, step time: 1.4122
   Batch 32/248, train_loss: 0.0700, step time: 1.3946
   Batch 33/248, train_loss: 0.1317, step time: 1.3792
   Batch 34/248, train_loss: 0.0381, step time: 1.3688
   Batch 35/248, train_loss: 0.0625, step time: 1.3928
   Batch 36/248, train_loss: 0.4587, step time: 1.3960
   Batch 37/248, train_loss: 0.1563, step time: 1.3884
   Batch 38/248, train_loss: 0.2811, step time: 1.3877
   Batch 39/248, train_loss: 0.2025, step time: 1.4049
   Batch 40/248, train_loss: 0.7351, step time: 1.3922
   Batch 41/248, train_loss: 0.2753, step time: 1.3706
   Batch 42/248, train_loss: 0.0893, step time: 1.3766
   Batch 43/248, train_loss: 0.0439, step time: 1.3809
   Batch 44/248, train_loss: 0.2702, step time: 1.3870
   Batch 45/248, train_loss: 0.7539, step time: 1.4144
   Batch 46/248, train_loss: 0.1582, step time: 1.3753
   Batch 47/248, train_loss: 0.0886, step time: 1.3943
   Batch 48/248, train_loss: 0.1843, step time: 1.3857
   Batch 49/248, train_loss: 0.3452, step time: 1.3813
   Batch 50/248, train_loss: 0.1269, step time: 1.3999
   Batch 51/248, train_loss: 0.1617, step time: 1.3857
   Batch 52/248, train_loss: 0.1274, step time: 1.3744
   Batch 53/248, train_loss: 0.3669, step time: 1.4116
   Batch 54/248, train_loss: 0.2474, step time: 1.4149
   Batch 55/248, train_loss: 0.2607, step time: 1.3879
   Batch 56/248, train_loss: 0.1664, step time: 1.3894
   Batch 57/248, train_loss: 0.2526, step time: 1.4047
   Batch 58/248, train_loss: 0.0675, step time: 1.3814
   Batch 59/248, train_loss: 0.0903, step time: 1.3947
   Batch 60/248, train_loss: 0.0624, step time: 1.3773
   Batch 61/248, train_loss: 0.0767, step time: 1.3615
   Batch 62/248, train_loss: 0.1998, step time: 1.3819
   Batch 63/248, train_loss: 0.3890, step time: 1.3584
   Batch 64/248, train_loss: 0.5177, step time: 1.3697
```

```
Batch 65/248, train_loss: 0.6300, step time: 1.3677
Batch 66/248, train_loss: 0.1720, step time: 1.3654
Batch 67/248, train_loss: 0.0706, step time: 1.3815
Batch 68/248, train_loss: 0.1005, step time: 1.3957
Batch 69/248, train_loss: 0.5073, step time: 1.3974
Batch 70/248, train_loss: 0.1846, step time: 1.4034
Batch 71/248, train_loss: 0.1342, step time: 1.3732
Batch 72/248, train_loss: 0.0496, step time: 1.3870
Batch 73/248, train_loss: 0.1370, step time: 1.3803
Batch 74/248, train_loss: 0.9878, step time: 1.3960
Batch 75/248, train_loss: 0.1197, step time: 1.4022
Batch 76/248, train_loss: 0.6146, step time: 1.3900
Batch 77/248, train_loss: 0.7279, step time: 1.4036
Batch 78/248, train_loss: 0.1043, step time: 1.3641
Batch 79/248, train_loss: 0.1469, step time: 1.4008
Batch 80/248, train_loss: 0.1881, step time: 1.3872
Batch 81/248, train_loss: 0.1362, step time: 1.4088
Batch 82/248, train_loss: 0.0822, step time: 1.3866
Batch 83/248, train_loss: 0.4790, step time: 1.3834
Batch 84/248, train_loss: 0.2317, step time: 1.4019
Batch 85/248, train_loss: 0.3562, step time: 1.3651
Batch 86/248, train_loss: 0.3017, step time: 1.4002
Batch 87/248, train_loss: 0.8263, step time: 1.3821
Batch 88/248, train_loss: 0.3600, step time: 1.3866
Batch 89/248, train_loss: 0.0722, step time: 1.3720
Batch 90/248, train_loss: 0.2299, step time: 1.4096
Batch 91/248, train_loss: 0.4029, step time: 1.3877
Batch 92/248, train_loss: 0.6550, step time: 1.3954
Batch 93/248, train_loss: 0.1370, step time: 1.3679
Batch 94/248, train_loss: 0.3171, step time: 1.3942
Batch 95/248, train_loss: 0.1853, step time: 1.3743
Batch 96/248, train_loss: 0.1264, step time: 1.3899
Batch 97/248, train_loss: 0.5172, step time: 1.4138
Batch 98/248, train_loss: 0.1013, step time: 1.3656
Batch 99/248, train_loss: 0.3001, step time: 1.3853
Batch 100/248, train_loss: 0.2949, step time: 1.3878
Batch 101/248, train_loss: 0.0448, step time: 1.3522
Batch 102/248, train_loss: 0.0968, step time: 1.3758
Batch 103/248, train_loss: 0.4177, step time: 1.3749
Batch 104/248, train_loss: 0.3215, step time: 1.3586
Batch 105/248, train_loss: 0.0805, step time: 1.3845
Batch 106/248, train_loss: 0.1299, step time: 1.3997
Batch 107/248, train_loss: 0.2860, step time: 1.3864
Batch 108/248, train_loss: 0.5323, step time: 1.3989
Batch 109/248, train_loss: 0.9343, step time: 1.3869
Batch 110/248, train_loss: 0.4112, step time: 1.3840
Batch 111/248, train_loss: 0.0872, step time: 1.3749
Batch 112/248, train_loss: 0.1053, step time: 1.3986
Batch 113/248, train_loss: 0.4956, step time: 1.3897
Batch 114/248, train_loss: 0.1171, step time: 1.3924
Batch 115/248, train_loss: 0.1707, step time: 1.3762
Batch 116/248, train_loss: 0.0641, step time: 1.3577
Batch 117/248, train_loss: 0.5143, step time: 1.3894
Batch 118/248, train_loss: 0.8788, step time: 1.3871
Batch 119/248, train_loss: 0.3076, step time: 1.3803
Batch 120/248, train_loss: 0.2440, step time: 1.3817
Batch 121/248, train_loss: 0.2584, step time: 1.3880
Batch 122/248, train_loss: 0.4307, step time: 1.4019
Batch 123/248, train_loss: 0.0596, step time: 1.3940
Batch 124/248, train_loss: 0.3176, step time: 1.3834
Batch 125/248, train_loss: 0.5119, step time: 1.3871
Batch 126/248, train_loss: 0.2462, step time: 1.4036
Batch 127/248, train_loss: 0.1105, step time: 1.3857
Batch 128/248, train_loss: 0.1368, step time: 1.3930
Batch 129/248, train_loss: 0.1147, step time: 1.3837
Batch 130/248, train_loss: 0.0804, step time: 1.3949
Batch 131/248, train_loss: 0.4173, step time: 1.3890
Batch 132/248, train_loss: 0.2080, step time: 1.3967
Batch 133/248, train_loss: 0.1250, step time: 1.3869
Batch 134/248, train_loss: 0.9415, step time: 1.3753
Batch 135/248, train_loss: 0.2108, step time: 1.3855
Batch 136/248, train_loss: 0.1749, step time: 1.4041
Batch 137/248, train_loss: 0.1099, step time: 1.3636
Batch 138/248, train_loss: 0.1089, step time: 1.3797
Batch 139/248, train_loss: 0.1259, step time: 1.3943
Batch 140/248, train_loss: 0.1721, step time: 1.4097
Batch 141/248, train_loss: 0.1509, step time: 1.4080
Batch 142/248, train_loss: 0.5655, step time: 1.3841
Batch 143/248, train_loss: 0.2262, step time: 1.3732
Batch 144/248, train_loss: 0.1008, step time: 1.3721
Batch 145/248, train_loss: 0.0529, step time: 1.3569
Batch 146/248, train_loss: 0.3906, step time: 1.3970
Batch 147/248, train_loss: 0.0450, step time: 1.3926
Batch 148/248, train_loss: 0.6022, step time: 1.3950
Batch 149/248, train_loss: 0.1232, step time: 1.3982
```

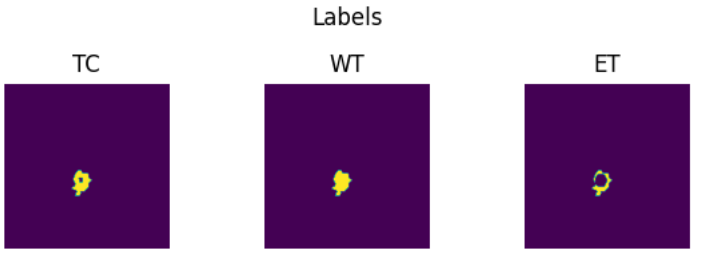
```
Batch 150/248, train_loss: 0.5818, step time: 1.3668
Batch 151/248, train_loss: 0.3376, step time: 1.3773
Batch 152/248, train_loss: 0.0437, step time: 1.3762
Batch 153/248, train_loss: 0.1925, step time: 1.3911
Batch 154/248, train_loss: 0.5620, step time: 1.3873
Batch 155/248, train_loss: 0.0921, step time: 1.3973
Batch 156/248, train_loss: 0.1479, step time: 1.4108
Batch 157/248, train_loss: 0.3693, step time: 1.4038
Batch 158/248, train_loss: 0.9253, step time: 1.3838
Batch 159/248, train_loss: 0.4160, step time: 1.3900
Batch 160/248, train_loss: 0.0779, step time: 1.3599
Batch 161/248, train_loss: 0.0732, step time: 1.3909
Batch 162/248, train_loss: 0.0789, step time: 1.3677
Batch 163/248, train_loss: 0.1335, step time: 1.3949
Batch 164/248, train_loss: 0.3138, step time: 1.3787
Batch 165/248, train_loss: 0.6247, step time: 1.3938
Batch 166/248, train_loss: 0.0913, step time: 1.3877
Batch 167/248, train_loss: 0.1609, step time: 1.3766
Batch 168/248, train_loss: 0.1635, step time: 1.3908
Batch 169/248, train_loss: 0.0736, step time: 1.3711
Batch 170/248, train_loss: 0.5964, step time: 1.3781
Batch 171/248, train_loss: 0.1390, step time: 1.4008
Batch 172/248, train_loss: 0.4985, step time: 1.3879
Batch 173/248, train_loss: 0.0861, step time: 1.3785
Batch 174/248, train_loss: 0.8218, step time: 1.4106
Batch 175/248, train_loss: 0.4116, step time: 1.3705
Batch 176/248, train_loss: 0.3829, step time: 1.4037
Batch 177/248, train_loss: 0.2626, step time: 1.3958
Batch 178/248, train_loss: 0.2273, step time: 1.4063
Batch 179/248, train_loss: 0.0631, step time: 1.3558
Batch 180/248, train_loss: 0.4728, step time: 1.3695
Batch 181/248, train_loss: 0.0850, step time: 1.3612
Batch 182/248, train_loss: 0.9099, step time: 1.3845
Batch 183/248, train_loss: 0.1212, step time: 1.3951
Batch 184/248, train_loss: 0.3355, step time: 1.3839
Batch 185/248, train_loss: 0.1210, step time: 1.3835
Batch 186/248, train_loss: 0.1042, step time: 1.4006
Batch 187/248, train_loss: 0.2208, step time: 1.4063
Batch 188/248, train_loss: 0.1975, step time: 1.3738
Batch 189/248, train_loss: 0.5941, step time: 1.4000
Batch 190/248, train_loss: 0.1489, step time: 1.3802
Batch 191/248, train_loss: 0.7179, step time: 1.3810
Batch 192/248, train_loss: 0.2360, step time: 1.3739
Batch 193/248, train_loss: 0.2375, step time: 1.3807
Batch 194/248, train_loss: 0.0874, step time: 1.3758
Batch 195/248, train_loss: 0.6047, step time: 1.3940
Batch 196/248, train_loss: 0.6503, step time: 1.3815
Batch 197/248, train_loss: 0.1898, step time: 1.3834
Batch 198/248, train_loss: 0.9988, step time: 1.3671
Batch 199/248, train_loss: 0.1535, step time: 1.3751
Batch 200/248, train_loss: 0.1240, step time: 1.3932
Batch 201/248, train_loss: 0.1099, step time: 1.3657
Batch 202/248, train_loss: 0.4446, step time: 1.3852
Batch 203/248, train_loss: 0.4027, step time: 1.3679
Batch 204/248, train_loss: 0.0864, step time: 1.3668
Batch 205/248, train_loss: 0.2950, step time: 1.3657
Batch 206/248, train_loss: 0.4131, step time: 1.3925
Batch 207/248, train_loss: 0.1200, step time: 1.3756
Batch 208/248, train_loss: 0.1223, step time: 1.3651
Batch 209/248, train_loss: 0.1351, step time: 1.3652
Batch 210/248, train_loss: 0.0618, step time: 1.3601
Batch 211/248, train_loss: 0.0854, step time: 1.3974
Batch 212/248, train_loss: 0.2331, step time: 1.3867
Batch 213/248, train_loss: 0.1574, step time: 1.3699
Batch 214/248, train_loss: 0.0843, step time: 1.3729
Batch 215/248, train_loss: 0.3892, step time: 1.3853
Batch 216/248, train_loss: 0.2113, step time: 1.3805
Batch 217/248, train_loss: 0.2782, step time: 1.4222
Batch 218/248, train_loss: 0.7251, step time: 1.3784
Batch 219/248, train_loss: 0.0739, step time: 1.3787
Batch 220/248, train_loss: 0.2043, step time: 1.4079
Batch 221/248, train_loss: 0.2538, step time: 1.4070
Batch 222/248, train_loss: 0.2366, step time: 1.3887
Batch 223/248, train_loss: 0.0424, step time: 1.3766
Batch 224/248, train_loss: 0.0872, step time: 1.3906
Batch 225/248, train_loss: 0.2512, step time: 1.3980
Batch 226/248, train_loss: 0.1376, step time: 1.3856
Batch 227/248, train_loss: 0.0942, step time: 1.3794
Batch 228/248, train_loss: 0.1392, step time: 1.3842
Batch 229/248, train_loss: 0.0931, step time: 1.3737
Batch 230/248, train_loss: 0.0892, step time: 1.4012
Batch 231/248, train_loss: 0.9200, step time: 1.3984
Batch 232/248, train_loss: 0.0711, step time: 1.3807
Batch 233/248, train_loss: 0.9798, step time: 1.3903
Batch 234/248, train_loss: 0.4708, step time: 1.4056
```

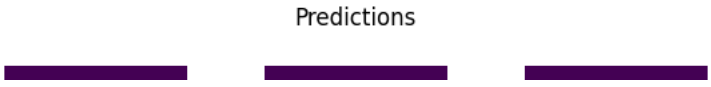
```
Batch 235/248, train_loss: 0.2134, step time: 1.4013
Batch 236/248, train_loss: 0.7973, step time: 1.3814
Batch 237/248, train_loss: 0.1367, step time: 1.3956
Batch 238/248, train_loss: 0.1012, step time: 1.3689
Batch 239/248, train_loss: 0.1935, step time: 1.3860
Batch 240/248, train_loss: 0.3616, step time: 1.3937
Batch 241/248, train_loss: 0.7411, step time: 1.3800
Batch 242/248, train_loss: 0.1827, step time: 1.3796
Batch 243/248, train_loss: 0.4192, step time: 1.3857
Batch 244/248, train_loss: 0.3788, step time: 1.3752
Batch 245/248, train_loss: 0.0973, step time: 1.3673
Batch 246/248, train_loss: 0.6038, step time: 1.3740
Batch 247/248, train_loss: 0.0795, step time: 1.3588
Batch 248/248, train_loss: 0.9999, step time: 1.3489
```



VAL

```
Batch 1/31, val_loss: 0.8305
Batch 2/31, val_loss: 0.9947
Batch 3/31, val_loss: 0.9723
Batch 4/31, val_loss: 0.9504
Batch 5/31, val_loss: 0.9943
Batch 6/31, val_loss: 0.6840
Batch 7/31, val_loss: 0.8293
Batch 8/31, val_loss: 0.9725
Batch 9/31, val_loss: 0.6898
Batch 10/31, val_loss: 0.9116
Batch 11/31, val_loss: 0.8183
Batch 12/31, val_loss: 0.9776
Batch 13/31, val_loss: 0.9913
Batch 14/31, val_loss: 0.9625
Batch 15/31, val_loss: 0.9866
Batch 16/31, val_loss: 0.9716
Batch 17/31, val_loss: 0.9707
Batch 18/31, val_loss: 0.9371
Batch 19/31, val_loss: 0.7449
Batch 20/31, val_loss: 0.8420
Batch 21/31, val_loss: 0.8789
Batch 22/31, val_loss: 0.9683
Batch 23/31, val_loss: 0.9732
Batch 24/31, val_loss: 0.7334
Batch 25/31, val_loss: 0.8046
Batch 26/31, val_loss: 0.9215
Batch 27/31, val_loss: 0.9799
Batch 28/31, val_loss: 0.7479
Batch 29/31, val_loss: 0.9810
Batch 30/31, val_loss: 0.9662
Batch 31/31, val_loss: 0.9726
```





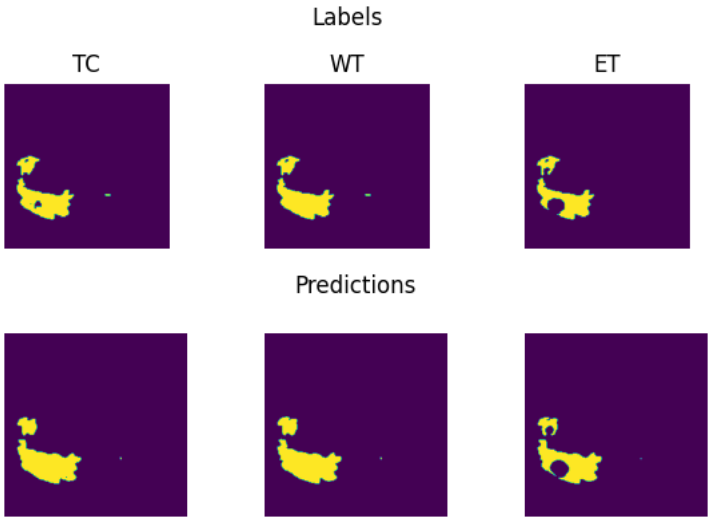
  

```
epoch 48
   average train loss: 0.2877
   average validation loss: 0.9019
   saved as best model: False
   current mean dice: 0.5626
   current TC dice: 0.5895
   current WT dice: 0.5973
   current ET dice: 0.5386
Best Mean Metric: 0.6003
time consuming of epoch 48 is: 1678.8594
----------
epoch 49/100
TRAIN
   Batch 1/248, train_loss: 0.1043, step time: 1.4457
   Batch 2/248, train_loss: 0.7395, step time: 1.3869
   Batch 3/248, train_loss: 0.4451, step time: 1.3625
   Batch 4/248, train_loss: 0.9975, step time: 1.3593
   Batch 5/248, train_loss: 0.2450, step time: 1.3659
   Batch 6/248, train_loss: 0.1898, step time: 1.3830
   Batch 7/248, train_loss: 0.0619, step time: 1.3965
   Batch 8/248, train_loss: 0.7210, step time: 1.3835
   Batch 9/248, train_loss: 0.0491, step time: 1.3815
   Batch 10/248, train_loss: 0.2074, step time: 1.3823
   Batch 11/248, train_loss: 0.1814, step time: 1.4089
   Batch 12/248, train_loss: 0.3318, step time: 1.4232
   Batch 13/248, train_loss: 0.2784, step time: 1.4195
   Batch 14/248, train_loss: 0.0454, step time: 1.3904
   Batch 15/248, train_loss: 0.3261, step time: 1.3616
   Batch 16/248, train_loss: 0.1946, step time: 1.3702
   Batch 17/248, train_loss: 0.2236, step time: 1.3861
   Batch 18/248, train_loss: 0.2836, step time: 1.3859
   Batch 19/248, train_loss: 0.1262, step time: 1.3763
   Batch 20/248, train_loss: 0.2427, step time: 1.3673
   Batch 21/248, train_loss: 0.0464, step time: 1.3738
   Batch 22/248, train_loss: 0.9019, step time: 1.4005
   Batch 23/248, train_loss: 0.6076, step time: 1.3936
   Batch 24/248, train_loss: 0.0805, step time: 1.4050
   Batch 25/248, train_loss: 0.0626, step time: 1.3843
   Batch 26/248, train_loss: 0.3645, step time: 1.3806
   Batch 27/248, train_loss: 0.0624, step time: 1.3899
   Batch 28/248, train_loss: 0.1556, step time: 1.4040
   Batch 29/248, train_loss: 0.4197, step time: 1.4023
   Batch 30/248, train_loss: 0.5335, step time: 1.4060
   Batch 31/248, train_loss: 0.4061, step time: 1.3667
   Batch 32/248, train_loss: 0.0663, step time: 1.3898
   Batch 33/248, train_loss: 0.0705, step time: 1.3583
   Batch 34/248, train_loss: 0.0409, step time: 1.3866
   Batch 35/248, train_loss: 0.0569, step time: 1.3846
   Batch 36/248, train_loss: 0.4961, step time: 1.3893
   Batch 37/248, train_loss: 0.1824, step time: 1.3691
   Batch 38/248, train_loss: 0.3140, step time: 1.3887
   Batch 39/248, train_loss: 0.2430, step time: 1.4067
   Batch 40/248, train_loss: 0.7643, step time: 1.4123
   Batch 41/248, train_loss: 0.5159, step time: 1.3745
   Batch 42/248, train_loss: 0.0771, step time: 1.3681
   Batch 43/248, train_loss: 0.0671, step time: 1.4010
   Batch 44/248, train_loss: 0.1529, step time: 1.3830
   Batch 45/248, train_loss: 0.6175, step time: 1.3606
   Batch 46/248, train_loss: 0.1765, step time: 1.3915
   Batch 47/248, train_loss: 0.0782, step time: 1.3812
   Batch 48/248, train_loss: 0.1724, step time: 1.3877
   Batch 49/248, train_loss: 0.4200, step time: 1.4044
   Batch 50/248, train_loss: 0.1436, step time: 1.3968
   Batch 51/248, train_loss: 0.1595, step time: 1.3986
   Batch 52/248, train_loss: 0.1581, step time: 1.4012
   Batch 53/248, train_loss: 0.3862, step time: 1.3944
   Batch 54/248, train_loss: 0.2641, step time: 1.3986
   Batch 55/248, train_loss: 0.2758, step time: 1.3813
   Batch 56/248, train_loss: 0.1968, step time: 1.4019
   Batch 57/248, train_loss: 0.2081, step time: 1.3856
   Batch 58/248, train_loss: 0.0739, step time: 1.3987
   Batch 59/248, train_loss: 0.0875, step time: 1.3647
   Batch 60/248, train_loss: 0.0691, step time: 1.3653
   Batch 61/248, train_loss: 0.0811, step time: 1.3868
   Batch 62/248, train_loss: 0.2302, step time: 1.3609
   Batch 63/248, train_loss: 0.4005, step time: 1.4088
   Batch 64/248, train_loss: 0.4477, step time: 1.3769
```

```
Batch 65/248, train_loss: 0.5738, step time: 1.3778
Batch 66/248, train_loss: 0.1469, step time: 1.3851
Batch 67/248, train_loss: 0.0749, step time: 1.3890
Batch 68/248, train_loss: 0.1308, step time: 1.3791
Batch 69/248, train_loss: 0.5990, step time: 1.4197
Batch 70/248, train_loss: 0.1455, step time: 1.3965
Batch 71/248, train_loss: 0.1284, step time: 1.3699
Batch 72/248, train_loss: 0.0605, step time: 1.3967
Batch 73/248, train_loss: 0.5327, step time: 1.4077
Batch 74/248, train_loss: 0.9349, step time: 1.3753
Batch 75/248, train_loss: 0.1211, step time: 1.3703
Batch 76/248, train_loss: 0.6109, step time: 1.4015
Batch 77/248, train_loss: 0.7715, step time: 1.3718
Batch 78/248, train_loss: 0.1333, step time: 1.3757
Batch 79/248, train_loss: 0.1525, step time: 1.3812
Batch 80/248, train_loss: 0.1726, step time: 1.3768
Batch 81/248, train_loss: 0.1191, step time: 1.3968
Batch 82/248, train_loss: 0.0863, step time: 1.3896
Batch 83/248, train_loss: 0.5039, step time: 1.3962
Batch 84/248, train_loss: 0.2175, step time: 1.3782
Batch 85/248, train_loss: 0.3418, step time: 1.3855
Batch 86/248, train_loss: 0.2197, step time: 1.3919
Batch 87/248, train_loss: 0.7868, step time: 1.3980
Batch 88/248, train_loss: 0.3483, step time: 1.3860
Batch 89/248, train_loss: 0.0765, step time: 1.3716
Batch 90/248, train_loss: 0.2201, step time: 1.3774
Batch 91/248, train_loss: 0.3375, step time: 1.3909
Batch 92/248, train_loss: 0.8319, step time: 1.4089
Batch 93/248, train_loss: 0.1462, step time: 1.3787
Batch 94/248, train_loss: 0.2554, step time: 1.4017
Batch 95/248, train_loss: 0.1608, step time: 1.3906
Batch 96/248, train_loss: 0.1397, step time: 1.3572
Batch 97/248, train_loss: 0.5518, step time: 1.4016
Batch 98/248, train_loss: 0.1148, step time: 1.3690
Batch 99/248, train_loss: 0.3487, step time: 1.3959
Batch 100/248, train_loss: 0.2591, step time: 1.4054
Batch 101/248, train_loss: 0.0490, step time: 1.3590
Batch 102/248, train_loss: 0.1695, step time: 1.3771
Batch 103/248, train_loss: 0.3824, step time: 1.3738
Batch 104/248, train_loss: 0.2593, step time: 1.3831
Batch 105/248, train_loss: 0.0878, step time: 1.3601
Batch 106/248, train_loss: 0.1234, step time: 1.3704
Batch 107/248, train_loss: 0.2625, step time: 1.3953
Batch 108/248, train_loss: 0.5443, step time: 1.3894
Batch 109/248, train_loss: 0.9957, step time: 1.3654
Batch 110/248, train_loss: 0.5690, step time: 1.3842
Batch 111/248, train_loss: 0.0903, step time: 1.3940
Batch 112/248, train_loss: 0.1601, step time: 1.3786
Batch 113/248, train_loss: 0.5361, step time: 1.4033
Batch 114/248, train_loss: 0.1173, step time: 1.3932
Batch 115/248, train_loss: 0.1227, step time: 1.3953
Batch 116/248, train_loss: 0.0812, step time: 1.3892
Batch 117/248, train_loss: 0.6004, step time: 1.4020
Batch 118/248, train_loss: 0.1521, step time: 1.3920
Batch 119/248, train_loss: 0.2895, step time: 1.3877
Batch 120/248, train_loss: 0.2718, step time: 1.4067
Batch 121/248, train_loss: 0.2588, step time: 1.3841
Batch 122/248, train_loss: 0.4939, step time: 1.4113
Batch 123/248, train_loss: 0.0772, step time: 1.3614
Batch 124/248, train_loss: 0.2914, step time: 1.4019
Batch 125/248, train_loss: 0.4808, step time: 1.3763
Batch 126/248, train_loss: 0.1701, step time: 1.3629
Batch 127/248, train_loss: 0.1265, step time: 1.3944
Batch 128/248, train_loss: 0.1565, step time: 1.3767
Batch 129/248, train_loss: 0.1007, step time: 1.3741
Batch 130/248, train_loss: 0.0887, step time: 1.3937
Batch 131/248, train_loss: 0.5142, step time: 1.3740
Batch 132/248, train_loss: 0.1736, step time: 1.3862
Batch 133/248, train_loss: 0.0822, step time: 1.3912
Batch 134/248, train_loss: 0.8658, step time: 1.3996
Batch 135/248, train_loss: 0.2024, step time: 1.3887
Batch 136/248, train_loss: 0.1370, step time: 1.3601
Batch 137/248, train_loss: 0.1010, step time: 1.3546
Batch 138/248, train_loss: 0.0700, step time: 1.3531
Batch 139/248, train_loss: 0.1338, step time: 1.3772
Batch 140/248, train_loss: 0.1684, step time: 1.4000
Batch 141/248, train_loss: 0.1364, step time: 1.3764
Batch 142/248, train_loss: 0.4927, step time: 1.4098
Batch 143/248, train_loss: 0.2278, step time: 1.3888
Batch 144/248, train_loss: 0.1235, step time: 1.3703
Batch 145/248, train_loss: 0.0554, step time: 1.3644
Batch 146/248, train_loss: 0.5327, step time: 1.3647
Batch 147/248, train_loss: 0.0458, step time: 1.3779
Batch 148/248, train_loss: 0.4925, step time: 1.4071
Batch 149/248, train_loss: 0.1208, step time: 1.3807
```

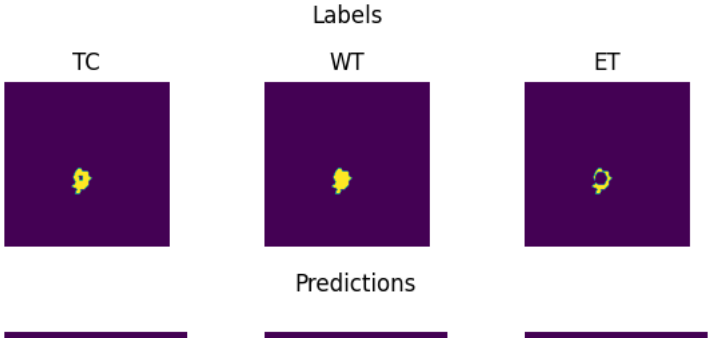
Batch 150/248, train_loss: 0.6030, step time: 1.3739
Batch 151/248, train_loss: 0.2330, step time: 1.3606
Batch 152/248, train_loss: 0.0446, step time: 1.3843
Batch 153/248, train_loss: 0.1824, step time: 1.3682
Batch 154/248, train_loss: 0.5046, step time: 1.4071
Batch 155/248, train_loss: 0.0815, step time: 1.3875
Batch 156/248, train_loss: 0.1356, step time: 1.3852
Batch 157/248, train_loss: 0.3409, step time: 1.3929
Batch 158/248, train_loss: 0.9261, step time: 1.4036
Batch 159/248, train_loss: 0.4072, step time: 1.3967
Batch 160/248, train_loss: 0.0947, step time: 1.3716
Batch 161/248, train_loss: 0.1226, step time: 1.3732
Batch 162/248, train_loss: 0.0627, step time: 1.3783
Batch 163/248, train_loss: 0.1544, step time: 1.4099
Batch 164/248, train_loss: 0.3146, step time: 1.3860
Batch 165/248, train_loss: 0.5502, step time: 1.4060
Batch 166/248, train_loss: 0.1172, step time: 1.3765
Batch 167/248, train_loss: 0.1855, step time: 1.4010
Batch 168/248, train_loss: 0.1334, step time: 1.3776
Batch 169/248, train_loss: 0.0923, step time: 1.3820
Batch 170/248, train_loss: 0.5930, step time: 1.3811
Batch 171/248, train_loss: 0.0910, step time: 1.3802
Batch 172/248, train_loss: 0.4444, step time: 1.3701
Batch 173/248, train_loss: 0.1087, step time: 1.3748
Batch 174/248, train_loss: 0.4313, step time: 1.3669
Batch 175/248, train_loss: 0.1066, step time: 1.3726
Batch 176/248, train_loss: 0.3870, step time: 1.3816
Batch 177/248, train_loss: 0.3156, step time: 1.4154
Batch 178/248, train_loss: 0.2417, step time: 1.4021
Batch 179/248, train_loss: 0.0714, step time: 1.3613
Batch 180/248, train_loss: 0.3707, step time: 1.4005
Batch 181/248, train_loss: 0.0827, step time: 1.3663
Batch 182/248, train_loss: 0.8810, step time: 1.4033
Batch 183/248, train_loss: 0.1107, step time: 1.3874
Batch 184/248, train_loss: 0.2735, step time: 1.3870
Batch 185/248, train_loss: 0.0978, step time: 1.3835
Batch 186/248, train_loss: 0.0783, step time: 1.3811
Batch 187/248, train_loss: 0.1706, step time: 1.3893
Batch 188/248, train_loss: 0.2307, step time: 1.3994
Batch 189/248, train_loss: 0.6286, step time: 1.3681
Batch 190/248, train_loss: 0.1336, step time: 1.3791
Batch 191/248, train_loss: 0.7289, step time: 1.3617
Batch 192/248, train_loss: 0.2136, step time: 1.3730
Batch 193/248, train_loss: 0.2268, step time: 1.3996
Batch 194/248, train_loss: 0.1144, step time: 1.3850
Batch 195/248, train_loss: 0.6535, step time: 1.3985
Batch 196/248, train_loss: 0.7587, step time: 1.4148
Batch 197/248, train_loss: 0.1856, step time: 1.3959
Batch 198/248, train_loss: 0.9787, step time: 1.3764
Batch 199/248, train_loss: 0.1335, step time: 1.3948
Batch 200/248, train_loss: 0.1171, step time: 1.3671
Batch 201/248, train_loss: 0.1110, step time: 1.3619
Batch 202/248, train_loss: 0.5210, step time: 1.3630
Batch 203/248, train_loss: 0.3844, step time: 1.3670
Batch 204/248, train_loss: 0.1067, step time: 1.3875
Batch 205/248, train_loss: 0.2643, step time: 1.3641
Batch 206/248, train_loss: 0.3491, step time: 1.4045
Batch 207/248, train_loss: 0.0664, step time: 1.3671
Batch 208/248, train_loss: 0.2348, step time: 1.4106
Batch 209/248, train_loss: 0.1334, step time: 1.3790
Batch 210/248, train_loss: 0.0736, step time: 1.4007
Batch 211/248, train_loss: 0.0762, step time: 1.3681
Batch 212/248, train_loss: 0.2426, step time: 1.3989
Batch 213/248, train_loss: 0.1712, step time: 1.3719
Batch 214/248, train_loss: 0.0745, step time: 1.3859
Batch 215/248, train_loss: 0.3544, step time: 1.3693
Batch 216/248, train_loss: 0.2031, step time: 1.3733
Batch 217/248, train_loss: 0.2630, step time: 1.3918
Batch 218/248, train_loss: 0.7197, step time: 1.3697
Batch 219/248, train_loss: 0.0620, step time: 1.3671
Batch 220/248, train_loss: 0.2069, step time: 1.3811
Batch 221/248, train_loss: 0.2392, step time: 1.3695
Batch 222/248, train_loss: 0.2659, step time: 1.3888
Batch 223/248, train_loss: 0.0427, step time: 1.3526
Batch 224/248, train_loss: 0.0928, step time: 1.3736
Batch 225/248, train_loss: 0.1872, step time: 1.3961
Batch 226/248, train_loss: 0.1183, step time: 1.3926
Batch 227/248, train_loss: 0.0888, step time: 1.3706
Batch 228/248, train_loss: 0.1491, step time: 1.3857
Batch 229/248, train_loss: 0.1010, step time: 1.3622
Batch 230/248, train_loss: 0.0849, step time: 1.3601
Batch 231/248, train_loss: 0.8165, step time: 1.3604
Batch 232/248, train_loss: 0.0893, step time: 1.3793
Batch 233/248, train_loss: 0.9671, step time: 1.3741

```
Batch 234/248, train_loss: 0.4341, step time: 1.3743
Batch 235/248, train_loss: 0.2027, step time: 1.3814
Batch 236/248, train_loss: 0.7552, step time: 1.3736
Batch 237/248, train_loss: 0.1477, step time: 1.3867
Batch 238/248, train_loss: 0.0858, step time: 1.3723
Batch 239/248, train_loss: 0.0602, step time: 1.3661
Batch 240/248, train_loss: 0.3992, step time: 1.4045
Batch 241/248, train_loss: 0.7592, step time: 1.3656
Batch 242/248, train_loss: 0.1451, step time: 1.3555
Batch 243/248, train_loss: 0.4357, step time: 1.3602
Batch 244/248, train_loss: 0.3884, step time: 1.3931
Batch 245/248, train_loss: 0.0708, step time: 1.3611
Batch 246/248, train_loss: 0.5316, step time: 1.3839
Batch 247/248, train_loss: 0.0727, step time: 1.3773
Batch 248/248, train_loss: 1.0000, step time: 1.3715
```

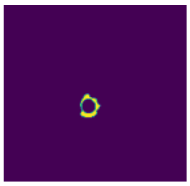


VAL

```
Batch 1/31, val_loss: 0.8381
Batch 2/31, val_loss: 0.9919
Batch 3/31, val_loss: 0.9677
Batch 4/31, val_loss: 0.9464
Batch 5/31, val_loss: 0.9917
Batch 6/31, val_loss: 0.6987
Batch 7/31, val_loss: 0.8184
Batch 8/31, val_loss: 0.9591
Batch 9/31, val_loss: 0.6934
Batch 10/31, val_loss: 0.9102
Batch 11/31, val_loss: 0.8182
Batch 12/31, val_loss: 0.9771
Batch 13/31, val_loss: 0.9713
Batch 14/31, val_loss: 0.9572
Batch 15/31, val_loss: 0.9862
Batch 16/31, val_loss: 0.9709
Batch 17/31, val_loss: 0.9668
Batch 18/31, val_loss: 0.9359
Batch 19/31, val_loss: 0.7396
Batch 20/31, val_loss: 0.8525
Batch 21/31, val_loss: 0.8769
Batch 22/31, val_loss: 0.9613
Batch 23/31, val_loss: 0.9696
Batch 24/31, val_loss: 0.7410
Batch 25/31, val_loss: 0.7993
Batch 26/31, val_loss: 0.9235
Batch 27/31, val_loss: 0.9787
Batch 28/31, val_loss: 0.7467
Batch 29/31, val_loss: 0.9820
Batch 30/31, val_loss: 0.9660
Batch 31/31, val_loss: 0.9731
```







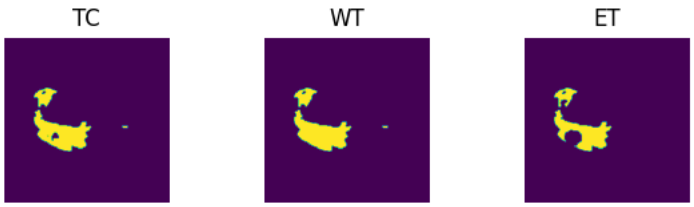
```
epoch 49
   average train loss: 0.2825
   average validation loss: 0.9003
   saved as best model: False
   current mean dice: 0.5929
   current TC dice: 0.6280
   current WT dice: 0.6304
   current ET dice: 0.5592
Best Mean Metric: 0.6003
time consuming of epoch 49 is: 1668.7538
----------
epoch 50/100
TRAIN
   Batch 1/248, train_loss: 0.0748, step time: 1.4226
   Batch 2/248, train_loss: 0.7458, step time: 1.3750
   Batch 3/248, train_loss: 0.4726, step time: 1.4021
   Batch 4/248, train_loss: 0.9870, step time: 1.3820
   Batch 5/248, train_loss: 0.2004, step time: 1.3819
   Batch 6/248, train_loss: 0.5362, step time: 1.3895
   Batch 7/248, train_loss: 0.0620, step time: 1.3950
   Batch 8/248, train_loss: 0.6993, step time: 1.3861
   Batch 9/248, train_loss: 0.0408, step time: 1.3776
   Batch 10/248, train_loss: 0.2619, step time: 1.3735
   Batch 11/248, train_loss: 0.1666, step time: 1.3846
   Batch 12/248, train_loss: 0.3632, step time: 1.3870
   Batch 13/248, train_loss: 0.2626, step time: 1.3913
   Batch 14/248, train_loss: 0.0596, step time: 1.3500
   Batch 15/248, train_loss: 0.3406, step time: 1.3606
   Batch 16/248, train_loss: 0.1510, step time: 1.3722
   Batch 17/248, train_loss: 0.2348, step time: 1.3639
   Batch 18/248, train_loss: 0.3364, step time: 1.3882
   Batch 19/248, train_loss: 0.2395, step time: 1.3733
   Batch 20/248, train_loss: 0.1886, step time: 1.3939
   Batch 21/248, train_loss: 0.0512, step time: 1.3571
   Batch 22/248, train_loss: 0.8378, step time: 1.3630
   Batch 23/248, train_loss: 0.7985, step time: 1.3902
   Batch 24/248, train_loss: 0.0937, step time: 1.3655
   Batch 25/248, train_loss: 0.0572, step time: 1.3866
   Batch 26/248, train_loss: 0.4084, step time: 1.3850
   Batch 27/248, train_loss: 0.0768, step time: 1.3993
   Batch 28/248, train_loss: 0.1595, step time: 1.3820
   Batch 29/248, train_loss: 0.3474, step time: 1.3803
   Batch 30/248, train_loss: 0.2076, step time: 1.3934
   Batch 31/248, train_loss: 0.4692, step time: 1.4024
   Batch 32/248, train_loss: 0.0794, step time: 1.3730
   Batch 33/248, train_loss: 0.0681, step time: 1.3988
   Batch 34/248, train_loss: 0.0420, step time: 1.3739
   Batch 35/248, train_loss: 0.0766, step time: 1.3611
   Batch 36/248, train_loss: 0.7121, step time: 1.3760
   Batch 37/248, train_loss: 0.1515, step time: 1.3937
   Batch 38/248, train_loss: 0.2852, step time: 1.3790
   Batch 39/248, train_loss: 0.1897, step time: 1.3626
   Batch 40/248, train_loss: 0.7085, step time: 1.3756
   Batch 41/248, train_loss: 0.1674, step time: 1.3688
   Batch 42/248, train_loss: 0.0761, step time: 1.3842
   Batch 43/248, train_loss: 0.0549, step time: 1.3668
   Batch 44/248, train_loss: 0.1387, step time: 1.4001
   Batch 45/248, train_loss: 0.6180, step time: 1.4059
   Batch 46/248, train_loss: 0.1532, step time: 1.3948
   Batch 47/248, train_loss: 0.0720, step time: 1.4027
   Batch 48/248, train_loss: 0.2722, step time: 1.3745
   Batch 49/248, train_loss: 0.3739, step time: 1.3649
   Batch 50/248, train_loss: 0.1261, step time: 1.3870
   Batch 51/248, train_loss: 0.1307, step time: 1.3714
   Batch 52/248, train_loss: 0.1225, step time: 1.3964
   Batch 53/248, train_loss: 0.3592, step time: 1.3888
   Batch 54/248, train_loss: 0.2366, step time: 1.3955
   Batch 55/248, train_loss: 0.2429, step time: 1.4101
   Batch 56/248, train_loss: 0.1780, step time: 1.3837
   Batch 57/248, train_loss: 0.2119, step time: 1.3659
   Batch 58/248, train_loss: 0.0763, step time: 1.3953
   Batch 59/248, train_loss: 0.0742, step time: 1.3743
   Batch 60/248, train_loss: 0.0605, step time: 1.3956
   Batch 61/248, train_loss: 0.0750, step time: 1.3861
   Batch 62/248, train_loss: 0.2130, step time: 1.3848
   Batch 63/248, train_loss: 0.4297, step time: 1.3640
   Batch 64/248, train_loss: 0.4112, step time: 1.3657
```

Batch 64/248, train_loss: 0.4112, step time: 1.3897
Batch 65/248, train_loss: 0.2451, step time: 1.3629
Batch 66/248, train_loss: 0.1785, step time: 1.3812
Batch 67/248, train_loss: 0.0785, step time: 1.3815
Batch 68/248, train_loss: 0.0903, step time: 1.4000
Batch 69/248, train_loss: 0.5400, step time: 1.4138
Batch 70/248, train_loss: 0.1292, step time: 1.3743
Batch 71/248, train_loss: 0.1253, step time: 1.3920
Batch 72/248, train_loss: 0.0564, step time: 1.3816
Batch 73/248, train_loss: 0.1096, step time: 1.3605
Batch 74/248, train_loss: 0.6078, step time: 1.3662
Batch 75/248, train_loss: 0.1206, step time: 1.3697
Batch 76/248, train_loss: 0.6123, step time: 1.3976
Batch 77/248, train_loss: 0.7211, step time: 1.3881
Batch 78/248, train_loss: 0.1009, step time: 1.3784
Batch 79/248, train_loss: 0.1507, step time: 1.4045
Batch 80/248, train_loss: 0.1944, step time: 1.3750
Batch 81/248, train_loss: 0.1481, step time: 1.3939
Batch 82/248, train_loss: 0.0765, step time: 1.3907
Batch 83/248, train_loss: 0.5166, step time: 1.3709
Batch 84/248, train_loss: 0.3160, step time: 1.3701
Batch 85/248, train_loss: 0.3528, step time: 1.3601
Batch 86/248, train_loss: 0.2047, step time: 1.3642
Batch 87/248, train_loss: 0.8799, step time: 1.3816
Batch 88/248, train_loss: 0.3324, step time: 1.3660
Batch 89/248, train_loss: 0.0703, step time: 1.3921
Batch 90/248, train_loss: 0.2812, step time: 1.3837
Batch 91/248, train_loss: 0.3678, step time: 1.3928
Batch 92/248, train_loss: 0.9094, step time: 1.4091
Batch 93/248, train_loss: 0.1625, step time: 1.3835
Batch 94/248, train_loss: 0.3225, step time: 1.3862
Batch 95/248, train_loss: 0.1697, step time: 1.3734
Batch 96/248, train_loss: 0.1449, step time: 1.3747
Batch 97/248, train_loss: 0.9752, step time: 1.3907
Batch 98/248, train_loss: 0.1748, step time: 1.3861
Batch 99/248, train_loss: 0.5578, step time: 1.3815
Batch 100/248, train_loss: 0.2353, step time: 1.3934
Batch 101/248, train_loss: 0.0467, step time: 1.3476
Batch 102/248, train_loss: 0.1049, step time: 1.3760
Batch 103/248, train_loss: 0.3969, step time: 1.3669
Batch 104/248, train_loss: 0.2881, step time: 1.3692
Batch 105/248, train_loss: 0.2998, step time: 1.4020
Batch 106/248, train_loss: 0.1169, step time: 1.3831
Batch 107/248, train_loss: 0.2544, step time: 1.3656
Batch 108/248, train_loss: 0.6487, step time: 1.3701
Batch 109/248, train_loss: 0.9875, step time: 1.3734
Batch 110/248, train_loss: 0.3784, step time: 1.3846
Batch 111/248, train_loss: 0.0845, step time: 1.3679
Batch 112/248, train_loss: 0.1096, step time: 1.3804
Batch 113/248, train_loss: 0.5570, step time: 1.3836
Batch 114/248, train_loss: 0.1179, step time: 1.3982
Batch 115/248, train_loss: 0.1297, step time: 1.3802
Batch 116/248, train_loss: 0.0664, step time: 1.3917
Batch 117/248, train_loss: 0.6886, step time: 1.3940
Batch 118/248, train_loss: 0.2168, step time: 1.3728
Batch 119/248, train_loss: 0.2646, step time: 1.3573
Batch 120/248, train_loss: 0.2125, step time: 1.3741
Batch 121/248, train_loss: 0.2706, step time: 1.3580
Batch 122/248, train_loss: 0.4194, step time: 1.3837
Batch 123/248, train_loss: 0.0657, step time: 1.3850
Batch 124/248, train_loss: 0.2734, step time: 1.3770
Batch 125/248, train_loss: 0.6745, step time: 1.3922
Batch 126/248, train_loss: 0.2057, step time: 1.3884
Batch 127/248, train_loss: 0.0939, step time: 1.3847
Batch 128/248, train_loss: 0.1478, step time: 1.4042
Batch 129/248, train_loss: 0.0885, step time: 1.3932
Batch 130/248, train_loss: 0.1040, step time: 1.3808
Batch 131/248, train_loss: 0.4208, step time: 1.3911
Batch 132/248, train_loss: 0.2897, step time: 1.3817
Batch 133/248, train_loss: 0.1734, step time: 1.3807
Batch 134/248, train_loss: 0.8868, step time: 1.3675
Batch 135/248, train_loss: 0.3349, step time: 1.3756
Batch 136/248, train_loss: 0.1187, step time: 1.3686
Batch 137/248, train_loss: 0.1475, step time: 1.3689
Batch 138/248, train_loss: 0.0884, step time: 1.3686
Batch 139/248, train_loss: 0.2384, step time: 1.3766
Batch 140/248, train_loss: 0.2190, step time: 1.3934
Batch 141/248, train_loss: 0.1355, step time: 1.3763
Batch 142/248, train_loss: 0.6765, step time: 1.3800
Batch 143/248, train_loss: 0.2274, step time: 1.3660
Batch 144/248, train_loss: 0.1148, step time: 1.3679
Batch 145/248, train_loss: 0.0736, step time: 1.3475
Batch 146/248, train_loss: 0.3490, step time: 1.3925
Batch 147/248, train_loss: 0.0443, step time: 1.3634
Batch 148/248, train_loss: 0.4896, step time: 1.3798
Batch 149/248, train_loss: 0.4388, step time: 1.3877

```
Batch 149/248, train_loss: 0.1309, step time: 1.3657
Batch 150/248, train_loss: 0.5848, step time: 1.4029
Batch 151/248, train_loss: 0.3158, step time: 1.4104
Batch 152/248, train_loss: 0.0550, step time: 1.3707
Batch 153/248, train_loss: 0.2318, step time: 1.3842
Batch 154/248, train_loss: 0.5966, step time: 1.3960
Batch 155/248, train_loss: 0.0974, step time: 1.3705
Batch 156/248, train_loss: 0.1296, step time: 1.3678
Batch 157/248, train_loss: 0.2831, step time: 1.3583
Batch 158/248, train_loss: 0.9629, step time: 1.4017
Batch 159/248, train_loss: 0.4867, step time: 1.3752
Batch 160/248, train_loss: 0.1174, step time: 1.4017
Batch 161/248, train_loss: 0.1168, step time: 1.3922
Batch 162/248, train_loss: 0.1000, step time: 1.3727
Batch 163/248, train_loss: 0.1884, step time: 1.3838
Batch 164/248, train_loss: 0.2417, step time: 1.3867
Batch 165/248, train_loss: 0.6195, step time: 1.3795
Batch 166/248, train_loss: 0.1192, step time: 1.3791
Batch 167/248, train_loss: 0.1893, step time: 1.3956
Batch 168/248, train_loss: 0.1510, step time: 1.3930
Batch 169/248, train_loss: 0.0997, step time: 1.3882
Batch 170/248, train_loss: 0.6252, step time: 1.3693
Batch 171/248, train_loss: 0.0958, step time: 1.3977
Batch 172/248, train_loss: 0.3854, step time: 1.4057
Batch 173/248, train_loss: 0.0969, step time: 1.3894
Batch 174/248, train_loss: 0.3980, step time: 1.3905
Batch 175/248, train_loss: 0.1528, step time: 1.3720
Batch 176/248, train_loss: 0.3487, step time: 1.3739
Batch 177/248, train_loss: 0.2490, step time: 1.4117
Batch 178/248, train_loss: 0.2562, step time: 1.3645
Batch 179/248, train_loss: 0.0674, step time: 1.3905
Batch 180/248, train_loss: 0.4122, step time: 1.3702
Batch 181/248, train_loss: 0.0917, step time: 1.3881
Batch 182/248, train_loss: 0.8940, step time: 1.3718
Batch 183/248, train_loss: 0.0916, step time: 1.3550
Batch 184/248, train_loss: 0.2146, step time: 1.3764
Batch 185/248, train_loss: 0.1239, step time: 1.3811
Batch 186/248, train_loss: 0.0980, step time: 1.4019
Batch 187/248, train_loss: 0.1797, step time: 1.3814
Batch 188/248, train_loss: 0.2149, step time: 1.3986
Batch 189/248, train_loss: 0.5677, step time: 1.3690
Batch 190/248, train_loss: 0.1321, step time: 1.3594
Batch 191/248, train_loss: 0.6211, step time: 1.3921
Batch 192/248, train_loss: 0.2907, step time: 1.3776
Batch 193/248, train_loss: 0.2533, step time: 1.4005
Batch 194/248, train_loss: 0.0952, step time: 1.3827
Batch 195/248, train_loss: 0.5897, step time: 1.3697
Batch 196/248, train_loss: 0.6996, step time: 1.3878
Batch 197/248, train_loss: 0.1651, step time: 1.3904
Batch 198/248, train_loss: 0.8108, step time: 1.3862
Batch 199/248, train_loss: 0.1513, step time: 1.3943
Batch 200/248, train_loss: 0.1270, step time: 1.3995
Batch 201/248, train_loss: 0.1233, step time: 1.4016
Batch 202/248, train_loss: 0.4879, step time: 1.4053
Batch 203/248, train_loss: 0.3923, step time: 1.4081
Batch 204/248, train_loss: 0.0973, step time: 1.3783
Batch 205/248, train_loss: 0.2325, step time: 1.3872
Batch 206/248, train_loss: 0.6788, step time: 1.4024
Batch 207/248, train_loss: 0.1037, step time: 1.3591
Batch 208/248, train_loss: 0.1840, step time: 1.4053
Batch 209/248, train_loss: 0.1856, step time: 1.3925
Batch 210/248, train_loss: 0.0637, step time: 1.3683
Batch 211/248, train_loss: 0.0781, step time: 1.3890
Batch 212/248, train_loss: 0.2360, step time: 1.3941
Batch 213/248, train_loss: 0.1463, step time: 1.3814
Batch 214/248, train_loss: 0.0780, step time: 1.3933
Batch 215/248, train_loss: 0.3570, step time: 1.3809
Batch 216/248, train_loss: 0.1825, step time: 1.3731
Batch 217/248, train_loss: 0.3478, step time: 1.4180
Batch 218/248, train_loss: 0.7261, step time: 1.4097
Batch 219/248, train_loss: 0.0648, step time: 1.3904
Batch 220/248, train_loss: 0.2011, step time: 1.3724
Batch 221/248, train_loss: 0.2526, step time: 1.3898
Batch 222/248, train_loss: 0.2034, step time: 1.3940
Batch 223/248, train_loss: 0.0477, step time: 1.3644
Batch 224/248, train_loss: 0.0912, step time: 1.3471
Batch 225/248, train_loss: 0.3360, step time: 1.3699
Batch 226/248, train_loss: 0.1306, step time: 1.3629
Batch 227/248, train_loss: 0.0976, step time: 1.3548
Batch 228/248, train_loss: 0.1498, step time: 1.3662
Batch 229/248, train_loss: 0.0922, step time: 1.3641
Batch 230/248, train_loss: 0.0714, step time: 1.3692
Batch 231/248, train_loss: 0.8329, step time: 1.3807
Batch 232/248, train_loss: 0.0824, step time: 1.3657
Batch 233/248, train_loss: 0.9576, step time: 1.3752
```

```
Batch 234/248, train_loss: 0.4118, step time: 1.3993
Batch 235/248, train_loss: 0.2592, step time: 1.3963
Batch 236/248, train_loss: 0.7501, step time: 1.4102
Batch 237/248, train_loss: 0.1233, step time: 1.3614
Batch 238/248, train_loss: 0.0846, step time: 1.3780
Batch 239/248, train_loss: 0.0500, step time: 1.3737
Batch 240/248, train_loss: 0.3213, step time: 1.3650
Batch 241/248, train_loss: 0.9494, step time: 1.3976
Batch 242/248, train_loss: 0.1419, step time: 1.3955
Batch 243/248, train_loss: 0.4733, step time: 1.3934
Batch 244/248, train_loss: 0.4103, step time: 1.3713
Batch 245/248, train_loss: 0.0854, step time: 1.3845
Batch 246/248, train_loss: 0.5720, step time: 1.3902
Batch 247/248, train_loss: 0.0714, step time: 1.3854
Batch 248/248, train_loss: 0.9996, step time: 1.3615
```

Labels

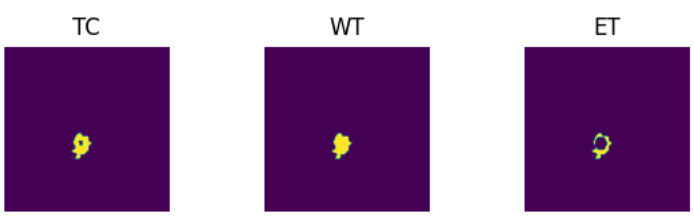


Predictions

VAL

```
Batch 1/31, val_loss: 0.8328
Batch 2/31, val_loss: 0.9892
Batch 3/31, val_loss: 0.9640
Batch 4/31, val_loss: 0.9395
Batch 5/31, val_loss: 0.9919
Batch 6/31, val_loss: 0.6957
Batch 7/31, val_loss: 0.8177
Batch 8/31, val_loss: 0.9512
Batch 9/31, val_loss: 0.6935
Batch 10/31, val_loss: 0.9127
Batch 11/31, val_loss: 0.8159
Batch 12/31, val_loss: 0.9754
Batch 13/31, val_loss: 0.9930
Batch 14/31, val_loss: 0.9543
Batch 15/31, val_loss: 0.9858
Batch 16/31, val_loss: 0.9719
Batch 17/31, val_loss: 0.9726
Batch 18/31, val_loss: 0.9377
Batch 19/31, val_loss: 0.7361
Batch 20/31, val_loss: 0.8535
Batch 21/31, val_loss: 0.8688
Batch 22/31, val_loss: 0.9647
Batch 23/31, val_loss: 0.9690
Batch 24/31, val_loss: 0.7430
Batch 25/31, val_loss: 0.7983
Batch 26/31, val_loss: 0.9257
Batch 27/31, val_loss: 0.9771
Batch 28/31, val_loss: 0.7453
Batch 29/31, val_loss: 0.9816
Batch 30/31, val_loss: 0.9637
Batch 31/31, val_loss: 0.9741
```

Labels



Predictions

```
epoch 50
   average train loss: 0.2865
   average validation loss: 0.8999
   saved as best model: False
   current mean dice: 0.5781
   current TC dice: 0.6102
   current WT dice: 0.6156
   current ET dice: 0.5441
Best Mean Metric: 0.6003
time consuming of epoch 50 is: 1684.5230
----------
epoch 51/100
TRAIN
   Batch 1/248, train_loss: 0.0768, step time: 1.4439
   Batch 2/248, train_loss: 0.6705, step time: 1.3717
   Batch 3/248, train_loss: 0.3788, step time: 1.4147
   Batch 4/248, train_loss: 0.9956, step time: 1.3714
   Batch 5/248, train_loss: 0.2267, step time: 1.3886
   Batch 6/248, train_loss: 0.2284, step time: 1.4050
   Batch 7/248, train_loss: 0.0841, step time: 1.3691
   Batch 8/248, train_loss: 0.7043, step time: 1.3647
   Batch 9/248, train_loss: 0.0351, step time: 1.3808
   Batch 10/248, train_loss: 0.2487, step time: 1.3867
   Batch 11/248, train_loss: 0.2035, step time: 1.3682
   Batch 12/248, train_loss: 0.3970, step time: 1.3673
   Batch 13/248, train_loss: 0.2932, step time: 1.3658
   Batch 14/248, train_loss: 0.0560, step time: 1.3800
   Batch 15/248, train_loss: 0.3356, step time: 1.3884
   Batch 16/248, train_loss: 0.1484, step time: 1.3589
   Batch 17/248, train_loss: 0.2357, step time: 1.3967
   Batch 18/248, train_loss: 0.2832, step time: 1.3723
   Batch 19/248, train_loss: 0.0993, step time: 1.3667
   Batch 20/248, train_loss: 0.1695, step time: 1.3688
   Batch 21/248, train_loss: 0.0561, step time: 1.3945
   Batch 22/248, train_loss: 0.7261, step time: 1.3647
   Batch 23/248, train_loss: 0.4839, step time: 1.3918
   Batch 24/248, train_loss: 0.0984, step time: 1.3864
   Batch 25/248, train_loss: 0.0532, step time: 1.3793
   Batch 26/248, train_loss: 0.4257, step time: 1.4042
   Batch 27/248, train_loss: 0.0974, step time: 1.3997
   Batch 28/248, train_loss: 0.1827, step time: 1.3802
   Batch 29/248, train_loss: 0.3670, step time: 1.3618
   Batch 30/248, train_loss: 0.5359, step time: 1.3778
   Batch 31/248, train_loss: 0.2999, step time: 1.4148
   Batch 32/248, train_loss: 0.0772, step time: 1.3895
   Batch 33/248, train_loss: 0.1069, step time: 1.4054
   Batch 34/248, train_loss: 0.0428, step time: 1.3857
   Batch 35/248, train_loss: 0.0688, step time: 1.3954
   Batch 36/248, train_loss: 0.8996, step time: 1.4062
   Batch 37/248, train_loss: 0.1508, step time: 1.3587
   Batch 38/248, train_loss: 0.2775, step time: 1.3801
   Batch 39/248, train_loss: 0.1947, step time: 1.3716
   Batch 40/248, train_loss: 0.7945, step time: 1.3852
   Batch 41/248, train_loss: 0.5365, step time: 1.3671
   Batch 42/248, train_loss: 0.0755, step time: 1.3644
```