

MIScnn: Kidney Tumor Segmentation Challenge 2019

We want to perform a 3-fold cross-validation for kidney tumor segmentation on the Kidney Tumor Segmentation Challenge 2019 (KITS19) data set. To achieve this, we are using our newly developed framework for medical image segmentation. MIScnn: A Framework for Medical Image Segmentation with Convolutional Neural Networks and Deep Learning.

The aim of MIScnn is to provide an intuitive API allowing fast building of medical image segmentation pipelines including data I/O, preprocessing, data augmentation, patch-wise analysis, metrics, a library with state-of-the-art deep learning models and model utilization like training, prediction as well as fully automatic evaluation (e.g. cross-validation). Even so, high configurability and multiple open interfaces allow full pipeline customization. MIScnn is based on Keras with Tensorflow as backend.

More information about MIScnn can be found in the publication or on the Git repository: <https://github.com/frankkramer-lab/MIScnn>

The task of the KITS19 challenge was to compute a semantic segmentation of arterial phase abdominal CT scans from 300 kidney cancer patients. Each pixel had to be labeled into one of three classes: Background, kidney or tumor. The original scans have an image resolution of 512x512 and on average 216 slices (highest slice number is 1059).

The data for the KITS19 challenge can be found here: <https://github.com/neheller/kits19>

Tensorflow Configurations

Before using the MIScnn pipeline, we throttle the Tensorflow Memory hunger by using the RAM growth option.

This result into a dyanmic growth of required RAM instead of allocating all available RAM without even using it.

Also, we are specify on which GPU Tensorflow should be executed.

Obviously, we can skip this paragraph if don't need to share you GPUs with other people ;)

```
In [96]: import PIL
print(PIL.__version__)
import tensorflow
print(tensorflow.__version__)
```

8.3.2
2.7.0

```
In [97]: import tensorflow as tf
import os
os.environ["CUDA_VISIBLE_DEVICES"] = "0"

import tensorflow as tf
physical_devices = tf.config.list_physical_devices('GPU')
tf.config.experimental.set_memory_growth(physical_devices[0], True)
```

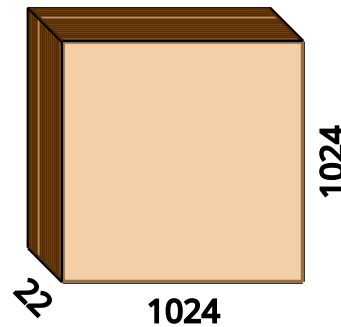
Create a Data I/O class for the KITS19 files

The first step in the MIScnn pipeline is to establish a Data I/O. MIScnn offers the utilization of custom Data I/O interfaces for fast integration of your specific data structure into the pipeline. The KITS19 CT scans are encoded in NIfTI format, therefore we are going to deploy a Data I/O class with the NIfTI interface for handling the NIfTI format.

```
In [98]: # Library import
# from miscnn.data_loading.interfaces import Image_interface
# from miscnn.data_loading.interfaces.nifti_io \
#     import NIFTI_interface
# from miscnn.data_loading.data_io import Data_IO
import glob
import dask
from dask_image import imread
a = imread.imread('/home/jmamede/lamin/training/automatic_22um/source/22um/MDM_Lanim5')
# a = dask.array.moveaxis(a,0,2)
# a = dask.array.moveaxis(a,1,2)
a
```

Out[98]:

	Array	Chunk
Bytes	44.00 MiB	2.00 MiB
Shape	(22, 1024, 1024)	(1, 1024, 1024)
Dask graph	22 chunks in 3 graph layers	
Data type	uint16 numpy.ndarray	



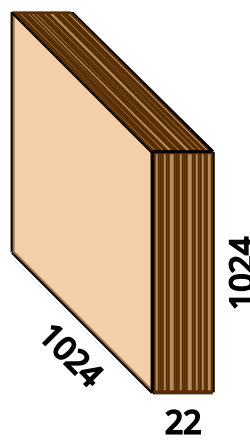
```
In [99]: data_source = '/home/jmamede/lamin/training/automatic_22um/source/22um/*source.tif'
# data_target = '/home/jmamede/lamin/training/target_old/*target.tif'
files_source = glob.glob(data_source)
files_source.sort()
files_source
# files_target = glob.glob(data_target)
files_target = []
for _file in files_source:
    files_target.append(_file.strip('_source.tif')+'_target.tif')
files_target

imread_source = []
imread_target = []
for _file in files_source:
    a = imread.imread(_file)
    a = dask.array.moveaxis(a,0,2)
    a = dask.array.moveaxis(a,0,1)
    imread_source.append(a)
for _file in files_target:
    a = imread.imread(_file)
    a = dask.array.moveaxis(a,0,2)
    a = dask.array.moveaxis(a,0,1)
    imread_target.append(a)
```

```
In [100.. a = imread_source[0]
a
```

Out[100...

	Array	Chunk
Bytes	44.00 MiB	2.00 MiB
Shape	(1024, 1024, 22)	(1024, 1024, 1)
Dask graph	22 chunks in 5 graph layers	
Data type	uint16 numpy.ndarray	



```
In [101.. # from dask.image import imread
# Create dictionary containing the data se

# dict = {"1": (imread_source[0], imread_target[0]),
#         "2": (imread_source[1], imread_target[1])}
dict = {}
for i in range(len(imread_source)):
    dict[i] = (imread_source[i], imread_target[i])

# Import Data IO Interface and pass dictionary to it
from miscnn.data_loading.data_io import Data_IO
from miscnn.data_loading.interfaces import Dictionary_interface
interface = Dictionary_interface(dict, channels=1,
                                classes=3, three_dim=True)

# Pass Interface to Data IO class
data_path = "/home/jmamede/lamin/training/automatic_22um/source/22um/"
data_io = Data_IO(interface, data_path)
```

In []:

```
In [102.. # Initialize the NIFTI I/O interface and configure the images as one channel (grayscale)
#background, llung, rlung, nasal
# interface = Image_interface(classes=4,
#                             img_type="rgb",
#                             img_format="tif",
#                             )

# interface = NIFTI_interface(
#                             channels=1,
#                             classes=3,
#                             three_dim=True,
#                             )

## channels=2, three_dim=True, classes=multi-class
## Specify the kits19 data directory
## data_path = "/home/jmamede/Data/monkeys/data/"
## Create the Data I/O object
## data_io = Data_IO(interface, data_path, output_path="/home/jmamede/Data/monkeys/p
# data_io = Data_IO(interface, data_path,
##                             output_path="/home/jmamede/Data/monkeys/predictions", batch_pat
#
```

Now, let's test how many samples we can access through our Data I/O Interface. We are trying to print out all accessible sample ID's.

Loading [MathJax]/extensions/Safe.js = data_io.get_indiceslist()

```
sample_list.sort()
print("All samples: " + str(sample_list))
```

```
All samples: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42]
```

```
In [105.. import pims
# pims.Frame(data_io.sample_loader(1).img_data[:, :, :, 0])
```

Create and configure a Data Augmentation class

After the Data I/O Interface initialization, the Data Augmentation class can be configured.

A Preprocessor object with default parameters automatically initialize a Data Augmentation class with default values, but here we initialize it by hand to illustrate the exact workflow of the MIScnn pipeline.

The parameters for the Data Augmentation configure which augmentation techniques should be applied to the data set.

In this case, we are using all possible augmentation techniques in order to run extensive data augmentation and avoid overfitting.

```
In [106.. # Library import
from miscnn.processing.data_augmentation import Data_Augmentation

# Create and configure the Data Augmentation class
data_aug = Data_Augmentation(cycles=2, scaling=True, rotations=True, elastic_deform=True,
                             brightness=True, contrast=True, gamma=True, gaussian_noi
```

Select Subfunctions for the Preprocessing

For the Preprocessor class, we are now going to define which Subfunctions we want to execute on our data set. Subfunctions are pre- and postprocessing functions which will be applied on the data in order to boost performance. It is possible to add already provided Subfunctions from MIScnn or implement custom Subfunctions and pass these to the MIScnn pipeline.

Here, we are initializing three state-of-the-art preprocessing methods.

- **Pixel Value Normalization:** Pixel values will be normalized through the Z-Score formula.
- **Clipping:** Pixel value ranges will be clipped according to a provided min/max value. This is advisable through the consistency of CT scan pixel value ranges.
- **Resampling:** MRT and CT images can have different voxel spacings (slice thickness). Therefore a normalization of these voxel spacings to a common scale is required. The resampling process lead also to a smaller image size.

At the end, we are adding all Subfunction objects to a list, which will be passed to the Preprocessor class.

```
In [107.. # Library imports
from miscnn.processing.subfunctions.normalization import Normalization
from miscnn.processing.subfunctions.clipping import Clipping
from miscnn.processing.subfunctions.resampling import Resampling
```

```
# Create a pixel value normalization Subfunction through Z-Score
sf_normalize = Normalization(mode='z-score')
```

```
# Create a clipping Subfunction between -79 and 304
```

```
clipping = Clipping(min=-79, max=304)
```

```

# Create a resampling Subfunction to voxel spacing 3.22 x 1.62 x 1.62
# sf_resample = Resampling((3.22, 1.62, 1.62))
sf_resample = Resampling((0.25, 0.21364028, 0.21364028))

# Assemble Subfunction classes into a list
# Be aware that the Subfunctions will be executed according to the list order!
subfunctions = [sf_resample,
                sf_clipping,
                sf_normalize]

```

Create and configure a Preprocessor class

Finally, we can initialize the Preprocessor class.

Therefore, we are passing our Data I/O Interface, the Data Augmentation object and our list of Subfunctions.

Additionally, we configure our Preprocessor to create batches on-the-fly (prepare_batches=False) by random cropping patches with size 80x160x160 out of the image.

Also a batch should contain 2 patches.

After the initialization, we adjust the overlap between patches for prediction to increase prediction accuracy.

```

In [108.. # Library import
from miscnn.processing.preprocessor import Preprocessor

# Create and configure the Preprocessor class
pp = Preprocessor(data_io, data_aug=data_aug, batch_size=1, subfunctions=subfunctions,
                 prepare_batches=False, analysis="patchwise-crop", patch_shape=(22,
                 use_multiprocessing=True)

# Adjust the patch overlap for predictions
pp.patchwise_overlap = ( 22, 48, 48)

```

Create a Neural Network model

Now it's time to initialize our final object: The Neural Network.

With the Neural Network class, we are able to run training and prediction operations. But before, we have to decide which Neural Network Architecture and Metric we want to use.

In order to show the simplicity and performance of MIScnn, we stick with the simple 3D U-Net Architecture for our Neural Network without any special tricks or optimizations. For training, we are using the Dice-Crossentropy (sum of soft Dice and categorical crossentropy) as loss, but also passing the soft Dice and the Tversky Loss as additional metrics for performance evaluation.

With the batch_queue_size and number of workers, we are able to specify the parallel prepared batches and the number of threads for multi-process batch generation.

```

In [109.. # Library import
from miscnn.neural_network.model import Neural_Network
from miscnn.neural_network.metrics import dice_soft, dice_crossentropy, tversky_loss

# Create the Neural Network model
model = Neural_Network(preprocessor=pp, loss=tversky_loss, metrics=[dice_soft, dice_c
                        batch_queue_size=3, workers=3, learning_rate=0.0001)

```



```

65 except Exception as e: # pylint: disable=broad-exception
66     filtered_tb = _process_traceback_frames(e.__traceback__)
--> 67     raise e.with_traceback(filtered_tb) from None
68 finally:
69     del filtered_tb

```

File ~/anaconda3/envs/miscnn/lib/python3.8/site-packages/keras/layers/merge.py:525, in Concatenate.build(self, input_shape)

```

522 unique_dims = set(
523     shape[axis] for shape in shape_set if shape[axis] is not None)
524 if len(unique_dims) > 1:
--> 525     raise ValueError(err_msg)

```

ValueError: A `Concatenate` layer requires inputs with matching shapes except for the concatenation axis. Received: input_shape=[(None, 4, 128, 128, 128), (None, 5, 128, 128, 128)]

Callbacks

Due to MIScnn is based on Keras, we are able to use the powerful Callback mechanics of Keras. With Callback functions, we are able to interfere in the training process. This possibility can be used for simple additional output of visualization of training metrics or for more adjustments of the training parameters during the runtime.

Here, we are using the ReduceLRonPlateau Callback from Keras. This Callback automatically reduce the learning rate if no loss improvement happens in the last 20 epochs.

```

In [ ]: # Define Callbacks
from tensorflow.keras.callbacks import ReduceLRonPlateau
cb_lr = ReduceLRonPlateau(monitor='loss', factor=0.1, patience=20, verbose=1, mode='min',
                           min_lr=0.00001)
from tensorflow.keras.callbacks import EarlyStopping
cb_es = EarlyStopping(monitor='loss', min_delta=0, patience=150, verbose=1, mode='min')

```

Sample List Preprocessing

Now, we are creating a list of sample ID's for running our cross-validation.

At first, we will exclude all samples which were labeled as suspicious by the KiTS19 Challenge organizer and Fabian Isensee (Winner of the KiTS19 Challenge).

By default, all accessible samples are used, but in order to save time, we are just using the first 120 samples (without the samples which were marked as suspicious).

```

In [12]: # Exclude suspicious samples from data set
# del sample_list[133]
# del sample_list[125]
# del sample_list[68]
# del sample_list[37]
# del sample_list[23]
# del sample_list[15]

# Create the validation sample ID list
validation_samples = sample_list[1]
# Output validation samples
print("Validation samples: " + str(validation_samples))

```

Validation samples: ['02D128_14D', '02D128_1D', '32268_2H', '32268_3D', '35269_1D', '35269_7D']

Out[13]: 'A16N082_3D'

```
In [14]: sample_list = data_io.get_indiceslist()
         model.train(sample_list[7:20], epochs=10)
```

Epoch 1/10

```
2022-08-19 10:42:07.275179: I tensorflow/stream_executor/cuda/cuda_dnn.cc:366] Loaded
cuDNN version 8401
```

```
13/13 [=====] - 33s 803ms/step - loss: 3.4030 - dice_soft: 0.
1493 - dice_crossentropy: 2.7372
```

Epoch 2/10

```
13/13 [=====] - 13s 954ms/step - loss: 3.2405 - dice_soft: 0.
1899 - dice_crossentropy: 3.4704
```

Epoch 3/10

```
13/13 [=====] - 12s 841ms/step - loss: 3.1960 - dice_soft: 0.
2010 - dice_crossentropy: 3.5051
```

Epoch 4/10

```
13/13 [=====] - 13s 816ms/step - loss: 3.1560 - dice_soft: 0.
2110 - dice_crossentropy: 3.4502
```

Epoch 5/10

```
13/13 [=====] - 13s 877ms/step - loss: 3.1847 - dice_soft: 0.
2038 - dice_crossentropy: 4.0832
```

Epoch 6/10

```
13/13 [=====] - 12s 910ms/step - loss: 3.1466 - dice_soft: 0.
2133 - dice_crossentropy: 3.6472
```

Epoch 7/10

```
13/13 [=====] - 13s 902ms/step - loss: 3.1402 - dice_soft: 0.
2150 - dice_crossentropy: 3.5027
```

Epoch 8/10

```
13/13 [=====] - 15s 906ms/step - loss: 3.1286 - dice_soft: 0.
2178 - dice_crossentropy: 3.3821
```

Epoch 9/10

```
13/13 [=====] - 14s 1s/step - loss: 3.1061 - dice_soft: 0.223
5 - dice_crossentropy: 3.6515
```

Epoch 10/10

```
13/13 [=====] - 12s 884ms/step - loss: 3.0809 - dice_soft: 0.
2298 - dice_crossentropy: 3.3788
```

```
In [15]: pred = model.predict(sample_list[14:15], return_output=True)
```

```
In [16]: pred[0].shape
```

Out[16]: (512, 512, 200)

```
In [19]: import napari
         import numpy as np
         v = napari.Viewer()
         v.add_image(np.swapaxes(pred[0],0,2))
```

```
/home/jmamede/anaconda3/envs/miscnn/lib/python3.8/site-packages/napari/_vispy/vispy_ca
mera.py:105: RuntimeWarning: divide by zero encountered in true_divide
  zoom = canvas_size / scale
```

Out[19]: <Image layer 'Image' at 0x7fef686f370>

Perform a 3-fold Cross-Validation

It's time to run the cross-validation. Yepi!

We are running now the `cross_validation` function and define the number of k-folds as 3, the number of epochs and iterations as 350 and 150.

For summary, a cross-validation runs the training and prediction process several times on with different combinations of data set parts. Therefore, this step takes a lot of time...

```
In [21]: validation_samples = sample_list
# Library import
from miscnn.evaluation.cross_validation import cross_validation
# Run cross-validation function
cross_validation(validation_samples, model, k_fold=3, epochs=500, iterations=100,
                 evaluation_path="evaluation", draw_figures=True, callbacks=[cb_lr, c
```

```
constructed data generation
Epoch 1/500
100/100 [=====] - ETA: 0s - loss: 3.2150 - dice_soft: 0.1963
- dice_crossentropy: 3.6685
Epoch 00001: val_loss improved from inf to 3.03387, saving model to evaluation/fold_0/
model.hdf5
100/100 [=====] - 86s 851ms/step - loss: 3.2150 - dice_soft:
0.1963 - dice_crossentropy: 3.6685 - val_loss: 3.0339 - val_dice_soft: 0.2415 - val_di
ce_crossentropy: 1.2161 - lr: 1.0000e-04
Epoch 2/500
100/100 [=====] - ETA: 0s - loss: 3.1120 - dice_soft: 0.2220
- dice_crossentropy: 4.1187
Epoch 00002: val_loss improved from 3.03387 to 3.02328, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 92s 919ms/step - loss: 3.1120 - dice_soft:
0.2220 - dice_crossentropy: 4.1187 - val_loss: 3.0233 - val_dice_soft: 0.2442 - val_di
ce_crossentropy: 1.5929 - lr: 1.0000e-04
Epoch 3/500
100/100 [=====] - ETA: 0s - loss: 3.0200 - dice_soft: 0.2450
- dice_crossentropy: 4.3299
Epoch 00003: val_loss did not improve from 3.02328
100/100 [=====] - 90s 899ms/step - loss: 3.0200 - dice_soft:
0.2450 - dice_crossentropy: 4.3299 - val_loss: 3.1220 - val_dice_soft: 0.2195 - val_di
ce_crossentropy: 4.1342 - lr: 1.0000e-04
Epoch 4/500
100/100 [=====] - ETA: 0s - loss: 2.9638 - dice_soft: 0.2591
- dice_crossentropy: 4.4380
Epoch 00004: val_loss improved from 3.02328 to 3.01050, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 87s 871ms/step - loss: 2.9638 - dice_soft:
0.2591 - dice_crossentropy: 4.4380 - val_loss: 3.0105 - val_dice_soft: 0.2474 - val_di
ce_crossentropy: 1.8516 - lr: 1.0000e-04
Epoch 5/500
100/100 [=====] - ETA: 0s - loss: 2.9320 - dice_soft: 0.2670
- dice_crossentropy: 4.4444
Epoch 00005: val_loss improved from 3.01050 to 2.84403, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 90s 873ms/step - loss: 2.9320 - dice_soft:
0.2670 - dice_crossentropy: 4.4444 - val_loss: 2.8440 - val_dice_soft: 0.2890 - val_di
ce_crossentropy: 3.4005 - lr: 1.0000e-04
Epoch 6/500
100/100 [=====] - ETA: 0s - loss: 2.8491 - dice_soft: 0.2877
- dice_crossentropy: 4.7220
Epoch 00006: val_loss did not improve from 2.84403
100/100 [=====] - 92s 921ms/step - loss: 2.8491 - dice_soft:
0.2877 - dice_crossentropy: 4.7220 - val_loss: 3.0993 - val_dice_soft: 0.2252 - val_di
ce_crossentropy: 4.3767 - lr: 1.0000e-04
Epoch 7/500
100/100 [=====] - ETA: 0s - loss: 2.8056 - dice_soft: 0.2986
- dice_crossentropy: 4.9006
Epoch 00007: val_loss did not improve from 2.84403
100/100 [=====] - 88s 878ms/step - loss: 2.8056 - dice_soft:
0.2986 - dice_crossentropy: 4.9006 - val_loss: 3.0019 - val_dice_soft: 0.2495 - val_di
ce_crossentropy: 0.8101 - lr: 1.0000e-04
Epoch 8/500
100/100 [=====] - ETA: 0s - loss: 2.6704 - dice_soft: 0.3324
- dice_crossentropy: 5.3444
Epoch 00008: val_loss did not improve from 2.84403
100/100 [=====] - 89s 894ms/step - loss: 2.6704 - dice_soft:
0.3324 - dice_crossentropy: 5.3444 - val_loss: 2.9172 - val_dice_soft: 0.2707 - val_di
ce_crossentropy: 4.4150 - lr: 1.0000e-04
Epoch 9/500
100/100 [=====] - ETA: 0s - loss: 2.5368 - dice_soft: 0.3658
- dice_crossentropy: 5.6362
Epoch 00009: val_loss improved from 2.84403 to 2.58623, saving model to evaluation/fol
```

100/100 [=====] - 91s 899ms/step - loss: 2.5368 - dice_soft: 0.3658 - dice_crossentropy: 5.6362 - val_loss: 2.5862 - val_dice_soft: 0.3534 - val_dice_crossentropy: 11.1314 - lr: 1.0000e-04
Epoch 10/500
100/100 [=====] - ETA: 0s - loss: 2.5203 - dice_soft: 0.3699 - dice_crossentropy: 5.9094
Epoch 00010: val_loss improved from 2.58623 to 2.44347, saving model to evaluation/ folder_0/model.hdf5
100/100 [=====] - 91s 882ms/step - loss: 2.5203 - dice_soft: 0.3699 - dice_crossentropy: 5.9094 - val_loss: 2.4435 - val_dice_soft: 0.3891 - val_dice_crossentropy: 11.3304 - lr: 1.0000e-04
Epoch 11/500
100/100 [=====] - ETA: 0s - loss: 2.4418 - dice_soft: 0.3896 - dice_crossentropy: 6.0001
Epoch 00011: val_loss did not improve from 2.44347
100/100 [=====] - 92s 908ms/step - loss: 2.4418 - dice_soft: 0.3896 - dice_crossentropy: 6.0001 - val_loss: 2.4908 - val_dice_soft: 0.3773 - val_dice_crossentropy: 5.7660 - lr: 1.0000e-04
Epoch 12/500
100/100 [=====] - ETA: 0s - loss: 2.4609 - dice_soft: 0.3848 - dice_crossentropy: 5.9276
Epoch 00012: val_loss did not improve from 2.44347
100/100 [=====] - 92s 907ms/step - loss: 2.4609 - dice_soft: 0.3848 - dice_crossentropy: 5.9276 - val_loss: 2.4600 - val_dice_soft: 0.3850 - val_dice_crossentropy: 7.5477 - lr: 1.0000e-04
Epoch 13/500
100/100 [=====] - ETA: 0s - loss: 2.4335 - dice_soft: 0.3916 - dice_crossentropy: 5.9619
Epoch 00013: val_loss did not improve from 2.44347
100/100 [=====] - 88s 862ms/step - loss: 2.4335 - dice_soft: 0.3916 - dice_crossentropy: 5.9619 - val_loss: 2.5515 - val_dice_soft: 0.3621 - val_dice_crossentropy: 3.1970 - lr: 1.0000e-04
Epoch 14/500
100/100 [=====] - ETA: 0s - loss: 2.3190 - dice_soft: 0.4203 - dice_crossentropy: 6.0328
Epoch 00014: val_loss did not improve from 2.44347
100/100 [=====] - 90s 878ms/step - loss: 2.3190 - dice_soft: 0.4203 - dice_crossentropy: 6.0328 - val_loss: 2.4691 - val_dice_soft: 0.3827 - val_dice_crossentropy: 4.4086 - lr: 1.0000e-04
Epoch 15/500
100/100 [=====] - ETA: 0s - loss: 2.3026 - dice_soft: 0.4244 - dice_crossentropy: 5.8825
Epoch 00015: val_loss did not improve from 2.44347
100/100 [=====] - 92s 886ms/step - loss: 2.3026 - dice_soft: 0.4244 - dice_crossentropy: 5.8825 - val_loss: 2.6951 - val_dice_soft: 0.3262 - val_dice_crossentropy: 8.4672 - lr: 1.0000e-04
Epoch 16/500
100/100 [=====] - ETA: 0s - loss: 2.3412 - dice_soft: 0.4147 - dice_crossentropy: 5.9410
Epoch 00016: val_loss did not improve from 2.44347
100/100 [=====] - 89s 876ms/step - loss: 2.3412 - dice_soft: 0.4147 - dice_crossentropy: 5.9410 - val_loss: 2.9389 - val_dice_soft: 0.2653 - val_dice_crossentropy: 7.0709 - lr: 1.0000e-04
Epoch 17/500
100/100 [=====] - ETA: 0s - loss: 2.2646 - dice_soft: 0.4339 - dice_crossentropy: 6.0647
Epoch 00017: val_loss improved from 2.44347 to 2.22042, saving model to evaluation/ folder_0/model.hdf5
100/100 [=====] - 91s 898ms/step - loss: 2.2646 - dice_soft: 0.4339 - dice_crossentropy: 6.0647 - val_loss: 2.2204 - val_dice_soft: 0.4449 - val_dice_crossentropy: 2.6092 - lr: 1.0000e-04
Epoch 18/500
100/100 [=====] - ETA: 0s - loss: 2.3006 - dice_soft: 0.4248 - dice_crossentropy: 5.9057
Epoch 00018: val_loss improved from 2.22042 to 2.09059, saving model to evaluation/ folder_0/model.hdf5

```
100/100 [=====] - 95s 917ms/step - loss: 2.3006 - dice_soft:
0.4248 - dice_crossentropy: 5.9057 - val_loss: 2.0906 - val_dice_soft: 0.4774 - val_dice_crossentropy: 6.1922 - lr: 1.0000e-04
Epoch 19/500
100/100 [=====] - ETA: 0s - loss: 2.2454 - dice_soft: 0.4387
- dice_crossentropy: 5.8560
Epoch 00019: val_loss did not improve from 2.09059
100/100 [=====] - 92s 911ms/step - loss: 2.2454 - dice_soft:
0.4387 - dice_crossentropy: 5.8560 - val_loss: 2.2087 - val_dice_soft: 0.4478 - val_dice_crossentropy: 12.0309 - lr: 1.0000e-04
Epoch 20/500
100/100 [=====] - ETA: 0s - loss: 2.2827 - dice_soft: 0.4293
- dice_crossentropy: 5.6117
Epoch 00020: val_loss did not improve from 2.09059
100/100 [=====] - 88s 869ms/step - loss: 2.2827 - dice_soft:
0.4293 - dice_crossentropy: 5.6117 - val_loss: 2.2685 - val_dice_soft: 0.4329 - val_dice_crossentropy: 4.7951 - lr: 1.0000e-04
Epoch 21/500
100/100 [=====] - ETA: 0s - loss: 2.1912 - dice_soft: 0.4522
- dice_crossentropy: 5.6045
Epoch 00021: val_loss did not improve from 2.09059
100/100 [=====] - 92s 907ms/step - loss: 2.1912 - dice_soft:
0.4522 - dice_crossentropy: 5.6045 - val_loss: 2.5184 - val_dice_soft: 0.3704 - val_dice_crossentropy: 2.1172 - lr: 1.0000e-04
Epoch 22/500
100/100 [=====] - ETA: 0s - loss: 2.2278 - dice_soft: 0.4431
- dice_crossentropy: 5.4746
Epoch 00022: val_loss did not improve from 2.09059
100/100 [=====] - 93s 930ms/step - loss: 2.2278 - dice_soft:
0.4431 - dice_crossentropy: 5.4746 - val_loss: 2.6171 - val_dice_soft: 0.3457 - val_dice_crossentropy: 5.4918 - lr: 1.0000e-04
Epoch 23/500
100/100 [=====] - ETA: 0s - loss: 2.1597 - dice_soft: 0.4601
- dice_crossentropy: 5.4235
Epoch 00023: val_loss did not improve from 2.09059
100/100 [=====] - 91s 875ms/step - loss: 2.1597 - dice_soft:
0.4601 - dice_crossentropy: 5.4235 - val_loss: 2.8491 - val_dice_soft: 0.2877 - val_dice_crossentropy: 7.2360 - lr: 1.0000e-04
Epoch 24/500
100/100 [=====] - ETA: 0s - loss: 2.1410 - dice_soft: 0.4647
- dice_crossentropy: 5.2948
Epoch 00024: val_loss did not improve from 2.09059
100/100 [=====] - 91s 897ms/step - loss: 2.1410 - dice_soft:
0.4647 - dice_crossentropy: 5.2948 - val_loss: 2.4320 - val_dice_soft: 0.3920 - val_dice_crossentropy: 5.6981 - lr: 1.0000e-04
Epoch 25/500
100/100 [=====] - ETA: 0s - loss: 2.1935 - dice_soft: 0.4516
- dice_crossentropy: 5.1748
Epoch 00025: val_loss did not improve from 2.09059
100/100 [=====] - 89s 882ms/step - loss: 2.1935 - dice_soft:
0.4516 - dice_crossentropy: 5.1748 - val_loss: 2.2629 - val_dice_soft: 0.4343 - val_dice_crossentropy: 6.0037 - lr: 1.0000e-04
Epoch 26/500
100/100 [=====] - ETA: 0s - loss: 2.1561 - dice_soft: 0.4610
- dice_crossentropy: 5.1901
Epoch 00026: val_loss did not improve from 2.09059
100/100 [=====] - 92s 895ms/step - loss: 2.1561 - dice_soft:
0.4610 - dice_crossentropy: 5.1901 - val_loss: 2.2422 - val_dice_soft: 0.4395 - val_dice_crossentropy: 1.2035 - lr: 1.0000e-04
Epoch 27/500
100/100 [=====] - ETA: 0s - loss: 2.1807 - dice_soft: 0.4548
- dice_crossentropy: 4.9086
Epoch 00027: val_loss did not improve from 2.09059
100/100 [=====] - 93s 903ms/step - loss: 2.1807 - dice_soft:
0.4548 - dice_crossentropy: 4.9086 - val_loss: 2.4381 - val_dice_soft: 0.3905 - val_dice_crossentropy: 8.3588 - lr: 1.0000e-04
```

Epoch 28/500
100/100 [=====] - ETA: 0s - loss: 2.0585 - dice_soft: 0.4854
- dice_crossentropy: 4.8050
Epoch 00028: val_loss did not improve from 2.09059
100/100 [=====] - 90s 868ms/step - loss: 2.0585 - dice_soft:
0.4854 - dice_crossentropy: 4.8050 - val_loss: 2.5652 - val_dice_soft: 0.3587 - val_di
ce_crossentropy: 2.4602 - lr: 1.0000e-04
Epoch 29/500
100/100 [=====] - ETA: 0s - loss: 2.0714 - dice_soft: 0.4822
- dice_crossentropy: 4.6237
Epoch 00029: val_loss improved from 2.09059 to 1.88903, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 92s 897ms/step - loss: 2.0714 - dice_soft:
0.4822 - dice_crossentropy: 4.6237 - val_loss: 1.8890 - val_dice_soft: 0.5277 - val_di
ce_crossentropy: 3.4410 - lr: 1.0000e-04
Epoch 30/500
100/100 [=====] - ETA: 0s - loss: 2.0953 - dice_soft: 0.4762
- dice_crossentropy: 4.7412
Epoch 00030: val_loss did not improve from 1.88903
100/100 [=====] - 88s 883ms/step - loss: 2.0953 - dice_soft:
0.4762 - dice_crossentropy: 4.7412 - val_loss: 2.0179 - val_dice_soft: 0.4955 - val_di
ce_crossentropy: 4.7500 - lr: 1.0000e-04
Epoch 31/500
100/100 [=====] - ETA: 0s - loss: 2.0516 - dice_soft: 0.4871
- dice_crossentropy: 3.9689
Epoch 00031: val_loss improved from 1.88903 to 1.71217, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 92s 889ms/step - loss: 2.0516 - dice_soft:
0.4871 - dice_crossentropy: 3.9689 - val_loss: 1.7122 - val_dice_soft: 0.5720 - val_di
ce_crossentropy: 2.3634 - lr: 1.0000e-04
Epoch 32/500
100/100 [=====] - ETA: 0s - loss: 2.1003 - dice_soft: 0.4749
- dice_crossentropy: 3.7194
Epoch 00032: val_loss improved from 1.71217 to 1.70960, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 89s 879ms/step - loss: 2.1003 - dice_soft:
0.4749 - dice_crossentropy: 3.7194 - val_loss: 1.7096 - val_dice_soft: 0.5726 - val_di
ce_crossentropy: 1.6141 - lr: 1.0000e-04
Epoch 33/500
100/100 [=====] - ETA: 0s - loss: 2.0689 - dice_soft: 0.4828
- dice_crossentropy: 3.8877
Epoch 00033: val_loss improved from 1.70960 to 1.70695, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 91s 910ms/step - loss: 2.0689 - dice_soft:
0.4828 - dice_crossentropy: 3.8877 - val_loss: 1.7070 - val_dice_soft: 0.5733 - val_di
ce_crossentropy: 3.1151 - lr: 1.0000e-04
Epoch 34/500
100/100 [=====] - ETA: 0s - loss: 2.1196 - dice_soft: 0.4701
- dice_crossentropy: 3.5308
Epoch 00034: val_loss did not improve from 1.70695
100/100 [=====] - 91s 913ms/step - loss: 2.1196 - dice_soft:
0.4701 - dice_crossentropy: 3.5308 - val_loss: 2.6012 - val_dice_soft: 0.3497 - val_di
ce_crossentropy: 1.0690 - lr: 1.0000e-04
Epoch 35/500
100/100 [=====] - ETA: 0s - loss: 1.9914 - dice_soft: 0.5021
- dice_crossentropy: 3.4045
Epoch 00035: val_loss did not improve from 1.70695
100/100 [=====] - 92s 900ms/step - loss: 1.9914 - dice_soft:
0.5021 - dice_crossentropy: 3.4045 - val_loss: 2.0776 - val_dice_soft: 0.4806 - val_di
ce_crossentropy: 0.7260 - lr: 1.0000e-04
Epoch 36/500
100/100 [=====] - ETA: 0s - loss: 2.0570 - dice_soft: 0.4858
- dice_crossentropy: 3.0419
Epoch 00036: val_loss did not improve from 1.70695
100/100 [=====] - 93s 927ms/step - loss: 2.0570 - dice_soft:
crossentropy: 3.0419 - val_loss: 2.1694 - val_dice_soft: 0.4576 - val_di

```
ce_crossentropy: 5.0803 - lr: 1.0000e-04
Epoch 37/500
100/100 [=====] - ETA: 0s - loss: 2.0592 - dice_soft: 0.4852
- dice_crossentropy: 3.1872
Epoch 00037: val_loss did not improve from 1.70695
100/100 [=====] - 90s 887ms/step - loss: 2.0592 - dice_soft:
0.4852 - dice_crossentropy: 3.1872 - val_loss: 2.0011 - val_dice_soft: 0.4997 - val_di
ce_crossentropy: 5.4112 - lr: 1.0000e-04
Epoch 38/500
100/100 [=====] - ETA: 0s - loss: 1.9683 - dice_soft: 0.5079
- dice_crossentropy: 2.7927
Epoch 00038: val_loss improved from 1.70695 to 1.28618, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 90s 888ms/step - loss: 1.9683 - dice_soft:
0.5079 - dice_crossentropy: 2.7927 - val_loss: 1.2862 - val_dice_soft: 0.6785 - val_di
ce_crossentropy: 0.9739 - lr: 1.0000e-04
Epoch 39/500
100/100 [=====] - ETA: 0s - loss: 2.0644 - dice_soft: 0.4839
- dice_crossentropy: 3.2605
Epoch 00039: val_loss did not improve from 1.28618
100/100 [=====] - 90s 902ms/step - loss: 2.0644 - dice_soft:
0.4839 - dice_crossentropy: 3.2605 - val_loss: 1.5421 - val_dice_soft: 0.6145 - val_di
ce_crossentropy: 0.7872 - lr: 1.0000e-04
Epoch 40/500
100/100 [=====] - ETA: 0s - loss: 1.9751 - dice_soft: 0.5062
- dice_crossentropy: 4.4664
Epoch 00040: val_loss did not improve from 1.28618
100/100 [=====] - 92s 911ms/step - loss: 1.9751 - dice_soft:
0.5062 - dice_crossentropy: 4.4664 - val_loss: 1.9203 - val_dice_soft: 0.5199 - val_di
ce_crossentropy: 0.5194 - lr: 1.0000e-04
Epoch 41/500
100/100 [=====] - ETA: 0s - loss: 1.9372 - dice_soft: 0.5157
- dice_crossentropy: 6.3844
Epoch 00041: val_loss improved from 1.28618 to 1.27225, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 95s 912ms/step - loss: 1.9372 - dice_soft:
0.5157 - dice_crossentropy: 6.3844 - val_loss: 1.2723 - val_dice_soft: 0.6819 - val_di
ce_crossentropy: 0.5269 - lr: 1.0000e-04
Epoch 42/500
100/100 [=====] - ETA: 0s - loss: 2.0010 - dice_soft: 0.4997
- dice_crossentropy: 6.2167
Epoch 00042: val_loss did not improve from 1.27225
100/100 [=====] - 90s 885ms/step - loss: 2.0010 - dice_soft:
0.4997 - dice_crossentropy: 6.2167 - val_loss: 1.4635 - val_dice_soft: 0.6341 - val_di
ce_crossentropy: 26.6737 - lr: 1.0000e-04
Epoch 43/500
100/100 [=====] - ETA: 0s - loss: 1.9839 - dice_soft: 0.5040
- dice_crossentropy: 5.7309
Epoch 00043: val_loss did not improve from 1.27225
100/100 [=====] - 94s 930ms/step - loss: 1.9839 - dice_soft:
0.5040 - dice_crossentropy: 5.7309 - val_loss: 1.5861 - val_dice_soft: 0.6035 - val_di
ce_crossentropy: 17.8504 - lr: 1.0000e-04
Epoch 44/500
100/100 [=====] - ETA: 0s - loss: 1.9815 - dice_soft: 0.5046
- dice_crossentropy: 5.2995
Epoch 00044: val_loss did not improve from 1.27225
100/100 [=====] - 91s 902ms/step - loss: 1.9815 - dice_soft:
0.5046 - dice_crossentropy: 5.2995 - val_loss: 2.0096 - val_dice_soft: 0.4976 - val_di
ce_crossentropy: 16.0752 - lr: 1.0000e-04
Epoch 45/500
100/100 [=====] - ETA: 0s - loss: 1.8601 - dice_soft: 0.5350
- dice_crossentropy: 5.4635
Epoch 00045: val_loss did not improve from 1.27225
100/100 [=====] - 91s 895ms/step - loss: 1.8601 - dice_soft:
0.5350 - dice_crossentropy: 5.4635 - val_loss: 2.1136 - val_dice_soft: 0.4716 - val_di
ce_crossentropy: 10.6727 - lr: 1.0000e-04
```

Epoch 46/500
100/100 [=====] - ETA: 0s - loss: 1.8509 - dice_soft: 0.5373
- dice_crossentropy: 5.1211
Epoch 00046: val_loss did not improve from 1.27225
100/100 [=====] - 90s 895ms/step - loss: 1.8509 - dice_soft:
0.5373 - dice_crossentropy: 5.1211 - val_loss: 2.9183 - val_dice_soft: 0.2704 - val_di
ce_crossentropy: 7.4662 - lr: 1.0000e-04
Epoch 47/500
100/100 [=====] - ETA: 0s - loss: 1.8044 - dice_soft: 0.5489
- dice_crossentropy: 4.9169
Epoch 00047: val_loss did not improve from 1.27225
100/100 [=====] - 90s 895ms/step - loss: 1.8044 - dice_soft:
0.5489 - dice_crossentropy: 4.9169 - val_loss: 1.9650 - val_dice_soft: 0.5088 - val_di
ce_crossentropy: 11.1125 - lr: 1.0000e-04
Epoch 48/500
100/100 [=====] - ETA: 0s - loss: 1.9202 - dice_soft: 0.5199
- dice_crossentropy: 4.4179
Epoch 00048: val_loss did not improve from 1.27225
100/100 [=====] - 96s 932ms/step - loss: 1.9202 - dice_soft:
0.5199 - dice_crossentropy: 4.4179 - val_loss: 1.7024 - val_dice_soft: 0.5744 - val_di
ce_crossentropy: 1.1430 - lr: 1.0000e-04
Epoch 49/500
100/100 [=====] - ETA: 0s - loss: 1.9365 - dice_soft: 0.5159
- dice_crossentropy: 4.7203
Epoch 00049: val_loss did not improve from 1.27225
100/100 [=====] - 90s 885ms/step - loss: 1.9365 - dice_soft:
0.5159 - dice_crossentropy: 4.7203 - val_loss: 2.8376 - val_dice_soft: 0.2906 - val_di
ce_crossentropy: 23.2448 - lr: 1.0000e-04
Epoch 50/500
100/100 [=====] - ETA: 0s - loss: 1.8017 - dice_soft: 0.5496
- dice_crossentropy: 4.5383
Epoch 00050: val_loss did not improve from 1.27225
100/100 [=====] - 92s 891ms/step - loss: 1.8017 - dice_soft:
0.5496 - dice_crossentropy: 4.5383 - val_loss: 1.9178 - val_dice_soft: 0.5206 - val_di
ce_crossentropy: 0.8794 - lr: 1.0000e-04
Epoch 51/500
100/100 [=====] - ETA: 0s - loss: 1.7405 - dice_soft: 0.5649
- dice_crossentropy: 4.1448
Epoch 00051: val_loss did not improve from 1.27225
100/100 [=====] - 90s 888ms/step - loss: 1.7405 - dice_soft:
0.5649 - dice_crossentropy: 4.1448 - val_loss: 2.5848 - val_dice_soft: 0.3538 - val_di
ce_crossentropy: 0.6935 - lr: 1.0000e-04
Epoch 52/500
100/100 [=====] - ETA: 0s - loss: 1.8460 - dice_soft: 0.5385
- dice_crossentropy: 4.2569
Epoch 00052: val_loss did not improve from 1.27225
100/100 [=====] - 89s 875ms/step - loss: 1.8460 - dice_soft:
0.5385 - dice_crossentropy: 4.2569 - val_loss: 1.3844 - val_dice_soft: 0.6539 - val_di
ce_crossentropy: 38.3613 - lr: 1.0000e-04
Epoch 53/500
100/100 [=====] - ETA: 0s - loss: 1.8506 - dice_soft: 0.5373
- dice_crossentropy: 4.1483
Epoch 00053: val_loss did not improve from 1.27225
100/100 [=====] - 95s 928ms/step - loss: 1.8506 - dice_soft:
0.5373 - dice_crossentropy: 4.1483 - val_loss: 1.5510 - val_dice_soft: 0.6123 - val_di
ce_crossentropy: 27.6191 - lr: 1.0000e-04
Epoch 54/500
100/100 [=====] - ETA: 0s - loss: 1.6730 - dice_soft: 0.5818
- dice_crossentropy: 3.2748
Epoch 00054: val_loss improved from 1.27225 to 0.81141, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 91s 888ms/step - loss: 1.6730 - dice_soft:
0.5818 - dice_crossentropy: 3.2748 - val_loss: 0.8114 - val_dice_soft: 0.7971 - val_di
ce_crossentropy: 0.3884 - lr: 1.0000e-04
Epoch 55/500

- dice_crossentropy: 3.0126
Epoch 00055: val_loss improved from 0.81141 to 0.79608, saving model to evaluation/fold_0/model.hdf5
100/100 [=====] - 90s 871ms/step - loss: 1.7076 - dice_soft: 0.5731 - dice_crossentropy: 3.0126 - val_loss: 0.7961 - val_dice_soft: 0.8010 - val_dice_crossentropy: 0.6622 - lr: 1.0000e-04
Epoch 56/500
100/100 [=====] - ETA: 0s - loss: 1.7121 - dice_soft: 0.5720 - dice_crossentropy: 2.4218
Epoch 00056: val_loss did not improve from 0.79608
100/100 [=====] - 90s 876ms/step - loss: 1.7121 - dice_soft: 0.5720 - dice_crossentropy: 2.4218 - val_loss: 1.5878 - val_dice_soft: 0.6030 - val_dice_crossentropy: 0.5501 - lr: 1.0000e-04
Epoch 57/500
100/100 [=====] - ETA: 0s - loss: 1.8366 - dice_soft: 0.5408 - dice_crossentropy: 1.1495
Epoch 00057: val_loss did not improve from 0.79608
100/100 [=====] - 89s 864ms/step - loss: 1.8366 - dice_soft: 0.5408 - dice_crossentropy: 1.1495 - val_loss: 1.4706 - val_dice_soft: 0.6324 - val_dice_crossentropy: 0.5240 - lr: 1.0000e-04
Epoch 58/500
100/100 [=====] - ETA: 0s - loss: 1.6113 - dice_soft: 0.5972 - dice_crossentropy: 0.7242
Epoch 00058: val_loss did not improve from 0.79608
100/100 [=====] - 92s 890ms/step - loss: 1.6113 - dice_soft: 0.5972 - dice_crossentropy: 0.7242 - val_loss: 2.5659 - val_dice_soft: 0.3585 - val_dice_crossentropy: 0.6520 - lr: 1.0000e-04
Epoch 59/500
100/100 [=====] - ETA: 0s - loss: 1.5816 - dice_soft: 0.6046 - dice_crossentropy: 0.6517
Epoch 00059: val_loss did not improve from 0.79608
100/100 [=====] - 88s 856ms/step - loss: 1.5816 - dice_soft: 0.6046 - dice_crossentropy: 0.6517 - val_loss: 0.8079 - val_dice_soft: 0.7980 - val_dice_crossentropy: 0.9932 - lr: 1.0000e-04
Epoch 60/500
100/100 [=====] - ETA: 0s - loss: 1.5205 - dice_soft: 0.6199 - dice_crossentropy: 0.6332
Epoch 00060: val_loss did not improve from 0.79608
100/100 [=====] - 91s 906ms/step - loss: 1.5205 - dice_soft: 0.6199 - dice_crossentropy: 0.6332 - val_loss: 1.8468 - val_dice_soft: 0.5383 - val_dice_crossentropy: 0.7634 - lr: 1.0000e-04
Epoch 61/500
100/100 [=====] - ETA: 0s - loss: 1.5527 - dice_soft: 0.6118 - dice_crossentropy: 0.6646
Epoch 00061: val_loss did not improve from 0.79608
100/100 [=====] - 92s 911ms/step - loss: 1.5527 - dice_soft: 0.6118 - dice_crossentropy: 0.6646 - val_loss: 1.2015 - val_dice_soft: 0.6996 - val_dice_crossentropy: 0.6884 - lr: 1.0000e-04
Epoch 62/500
100/100 [=====] - ETA: 0s - loss: 1.5193 - dice_soft: 0.6202 - dice_crossentropy: 0.6425
Epoch 00062: val_loss did not improve from 0.79608
100/100 [=====] - 93s 883ms/step - loss: 1.5193 - dice_soft: 0.6202 - dice_crossentropy: 0.6425 - val_loss: 1.5202 - val_dice_soft: 0.6199 - val_dice_crossentropy: 0.5307 - lr: 1.0000e-04
Epoch 63/500
100/100 [=====] - ETA: 0s - loss: 1.6002 - dice_soft: 0.5999 - dice_crossentropy: 0.6214
Epoch 00063: val_loss improved from 0.79608 to 0.77481, saving model to evaluation/fold_0/model.hdf5
100/100 [=====] - 91s 907ms/step - loss: 1.6002 - dice_soft: 0.5999 - dice_crossentropy: 0.6214 - val_loss: 0.7748 - val_dice_soft: 0.8063 - val_dice_crossentropy: 0.7365 - lr: 1.0000e-04
Epoch 64/500
100/100 [=====] - ETA: 0s - loss: 1.4496 - dice_soft: 0.6376 - dice_crossentropy: 0.5874

Epoch 00064: val_loss did not improve from 0.77481
100/100 [=====] - 88s 866ms/step - loss: 1.4496 - dice_soft:
0.6376 - dice_crossentropy: 0.5874 - val_loss: 1.8764 - val_dice_soft: 0.5309 - val_di
ce_crossentropy: 0.6061 - lr: 1.0000e-04
Epoch 65/500
100/100 [=====] - ETA: 0s - loss: 1.6232 - dice_soft: 0.5942
- dice_crossentropy: 0.6208
Epoch 00065: val_loss did not improve from 0.77481
100/100 [=====] - 91s 913ms/step - loss: 1.6232 - dice_soft:
0.5942 - dice_crossentropy: 0.6208 - val_loss: 0.8244 - val_dice_soft: 0.7939 - val_di
ce_crossentropy: 0.5410 - lr: 1.0000e-04
Epoch 66/500
100/100 [=====] - ETA: 0s - loss: 1.5599 - dice_soft: 0.6100
- dice_crossentropy: 0.6227
Epoch 00066: val_loss did not improve from 0.77481
100/100 [=====] - 88s 865ms/step - loss: 1.5599 - dice_soft:
0.6100 - dice_crossentropy: 0.6227 - val_loss: 1.9008 - val_dice_soft: 0.5248 - val_di
ce_crossentropy: 0.6544 - lr: 1.0000e-04
Epoch 67/500
100/100 [=====] - ETA: 0s - loss: 1.5145 - dice_soft: 0.6214
- dice_crossentropy: 0.6255
Epoch 00067: val_loss did not improve from 0.77481
100/100 [=====] - 93s 896ms/step - loss: 1.5145 - dice_soft:
0.6214 - dice_crossentropy: 0.6255 - val_loss: 1.8882 - val_dice_soft: 0.5279 - val_di
ce_crossentropy: 0.6991 - lr: 1.0000e-04
Epoch 68/500
100/100 [=====] - ETA: 0s - loss: 1.5897 - dice_soft: 0.6026
- dice_crossentropy: 0.6547
Epoch 00068: val_loss did not improve from 0.77481
100/100 [=====] - 95s 940ms/step - loss: 1.5897 - dice_soft:
0.6026 - dice_crossentropy: 0.6547 - val_loss: 1.2318 - val_dice_soft: 0.6921 - val_di
ce_crossentropy: 0.5978 - lr: 1.0000e-04
Epoch 69/500
100/100 [=====] - ETA: 0s - loss: 1.6129 - dice_soft: 0.5968
- dice_crossentropy: 0.6278
Epoch 00069: val_loss did not improve from 0.77481
100/100 [=====] - 90s 887ms/step - loss: 1.6129 - dice_soft:
0.5968 - dice_crossentropy: 0.6278 - val_loss: 1.4168 - val_dice_soft: 0.6458 - val_di
ce_crossentropy: 9.5017 - lr: 1.0000e-04
Epoch 70/500
100/100 [=====] - ETA: 0s - loss: 1.6890 - dice_soft: 0.5778
- dice_crossentropy: 0.6654
Epoch 00070: val_loss did not improve from 0.77481
100/100 [=====] - 91s 879ms/step - loss: 1.6890 - dice_soft:
0.5778 - dice_crossentropy: 0.6654 - val_loss: 1.6142 - val_dice_soft: 0.5964 - val_di
ce_crossentropy: 0.8035 - lr: 1.0000e-04
Epoch 71/500
100/100 [=====] - ETA: 0s - loss: 1.5123 - dice_soft: 0.6219
- dice_crossentropy: 0.5955
Epoch 00071: val_loss did not improve from 0.77481
100/100 [=====] - 91s 899ms/step - loss: 1.5123 - dice_soft:
0.6219 - dice_crossentropy: 0.5955 - val_loss: 2.2019 - val_dice_soft: 0.4495 - val_di
ce_crossentropy: 0.7225 - lr: 1.0000e-04
Epoch 72/500
100/100 [=====] - ETA: 0s - loss: 1.5552 - dice_soft: 0.6112
- dice_crossentropy: 0.6063
Epoch 00072: val_loss improved from 0.77481 to 0.76322, saving model to evaluation/fold_0/model.hdf5
100/100 [=====] - 92s 898ms/step - loss: 1.5552 - dice_soft:
0.6112 - dice_crossentropy: 0.6063 - val_loss: 0.7632 - val_dice_soft: 0.8092 - val_di
ce_crossentropy: 0.4603 - lr: 1.0000e-04
Epoch 73/500
100/100 [=====] - ETA: 0s - loss: 1.4809 - dice_soft: 0.6298
- dice_crossentropy: 0.5976
Epoch 00073: val_loss did not improve from 0.76322
100/100 [=====] - 92s 897ms/step - loss: 1.4809 - dice_soft:

0.6298 - dice_crossentropy: 0.5976 - val_loss: 1.6564 - val_dice_soft: 0.5859 - val_dice_crossentropy: 0.5513 - lr: 1.0000e-04
Epoch 74/500
100/100 [=====] - ETA: 0s - loss: 1.5369 - dice_soft: 0.6158 - dice_crossentropy: 0.5987
Epoch 00074: val_loss did not improve from 0.76322
100/100 [=====] - 92s 925ms/step - loss: 1.5369 - dice_soft: 0.6158 - dice_crossentropy: 0.5987 - val_loss: 2.7829 - val_dice_soft: 0.3043 - val_dice_crossentropy: 0.7097 - lr: 1.0000e-04
Epoch 75/500
100/100 [=====] - ETA: 0s - loss: 1.4737 - dice_soft: 0.6316 - dice_crossentropy: 0.5790
Epoch 00075: val_loss did not improve from 0.76322
100/100 [=====] - 90s 902ms/step - loss: 1.4737 - dice_soft: 0.6316 - dice_crossentropy: 0.5790 - val_loss: 2.1210 - val_dice_soft: 0.4697 - val_dice_crossentropy: 0.6413 - lr: 1.0000e-04
Epoch 76/500
100/100 [=====] - ETA: 0s - loss: 1.4894 - dice_soft: 0.6276 - dice_crossentropy: 0.5747
Epoch 00076: val_loss did not improve from 0.76322
100/100 [=====] - 94s 905ms/step - loss: 1.4894 - dice_soft: 0.6276 - dice_crossentropy: 0.5747 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_dice_crossentropy: 0.7500 - lr: 1.0000e-04
Epoch 77/500
100/100 [=====] - ETA: 0s - loss: 1.5242 - dice_soft: 0.6189 - dice_crossentropy: 0.5773
Epoch 00077: val_loss did not improve from 0.76322
100/100 [=====] - 90s 901ms/step - loss: 1.5242 - dice_soft: 0.6189 - dice_crossentropy: 0.5773 - val_loss: 1.9125 - val_dice_soft: 0.5219 - val_dice_crossentropy: 0.6474 - lr: 1.0000e-04
Epoch 78/500
100/100 [=====] - ETA: 0s - loss: 1.5756 - dice_soft: 0.6061 - dice_crossentropy: 0.5899
Epoch 00078: val_loss did not improve from 0.76322
100/100 [=====] - 91s 889ms/step - loss: 1.5756 - dice_soft: 0.6061 - dice_crossentropy: 0.5899 - val_loss: 1.9508 - val_dice_soft: 0.5123 - val_dice_crossentropy: 0.7011 - lr: 1.0000e-04
Epoch 79/500
100/100 [=====] - ETA: 0s - loss: 1.5059 - dice_soft: 0.6235 - dice_crossentropy: 0.5870
Epoch 00079: val_loss did not improve from 0.76322
100/100 [=====] - 90s 879ms/step - loss: 1.5059 - dice_soft: 0.6235 - dice_crossentropy: 0.5870 - val_loss: 1.1295 - val_dice_soft: 0.7176 - val_dice_crossentropy: 0.6470 - lr: 1.0000e-04
Epoch 80/500
100/100 [=====] - ETA: 0s - loss: 1.4312 - dice_soft: 0.6422 - dice_crossentropy: 0.5632
Epoch 00080: val_loss did not improve from 0.76322
100/100 [=====] - 91s 884ms/step - loss: 1.4312 - dice_soft: 0.6422 - dice_crossentropy: 0.5632 - val_loss: 1.8961 - val_dice_soft: 0.5260 - val_dice_crossentropy: 0.6559 - lr: 1.0000e-04
Epoch 81/500
100/100 [=====] - ETA: 0s - loss: 1.4168 - dice_soft: 0.6458 - dice_crossentropy: 0.5701
Epoch 00081: val_loss did not improve from 0.76322
100/100 [=====] - 90s 870ms/step - loss: 1.4168 - dice_soft: 0.6458 - dice_crossentropy: 0.5701 - val_loss: 2.2198 - val_dice_soft: 0.4451 - val_dice_crossentropy: 0.5876 - lr: 1.0000e-04
Epoch 82/500
100/100 [=====] - ETA: 0s - loss: 1.5423 - dice_soft: 0.6144 - dice_crossentropy: 0.5877
Epoch 00082: val_loss did not improve from 0.76322
100/100 [=====] - 90s 889ms/step - loss: 1.5423 - dice_soft: 0.6144 - dice_crossentropy: 0.5877 - val_loss: 1.2191 - val_dice_soft: 0.6952 - val_dice_crossentropy: 0.6885 - lr: 1.0000e-04

```
100/100 [=====] - ETA: 0s - loss: 1.6122 - dice_soft: 0.5969
- dice_crossentropy: 0.6152
Epoch 00083: val_loss did not improve from 0.76322
100/100 [=====] - 92s 898ms/step - loss: 1.6122 - dice_soft:
0.5969 - dice_crossentropy: 0.6152 - val_loss: 2.0191 - val_dice_soft: 0.4952 - val_di
ce_crossentropy: 0.6397 - lr: 1.0000e-04
Epoch 84/500
100/100 [=====] - ETA: 0s - loss: 1.6515 - dice_soft: 0.5871
- dice_crossentropy: 0.5974
Epoch 00084: val_loss did not improve from 0.76322
100/100 [=====] - 90s 897ms/step - loss: 1.6515 - dice_soft:
0.5871 - dice_crossentropy: 0.5974 - val_loss: 1.4449 - val_dice_soft: 0.6388 - val_di
ce_crossentropy: 0.5047 - lr: 1.0000e-04
Epoch 85/500
100/100 [=====] - ETA: 0s - loss: 1.4555 - dice_soft: 0.6361
- dice_crossentropy: 0.5827
Epoch 00085: val_loss did not improve from 0.76322
100/100 [=====] - 90s 872ms/step - loss: 1.4555 - dice_soft:
0.6361 - dice_crossentropy: 0.5827 - val_loss: 1.6936 - val_dice_soft: 0.5766 - val_di
ce_crossentropy: 0.5555 - lr: 1.0000e-04
Epoch 86/500
100/100 [=====] - ETA: 0s - loss: 1.5343 - dice_soft: 0.6164
- dice_crossentropy: 0.5988
Epoch 00086: val_loss did not improve from 0.76322
100/100 [=====] - 89s 887ms/step - loss: 1.5343 - dice_soft:
0.6164 - dice_crossentropy: 0.5988 - val_loss: 1.2703 - val_dice_soft: 0.6824 - val_di
ce_crossentropy: 0.6621 - lr: 1.0000e-04
Epoch 87/500
100/100 [=====] - ETA: 0s - loss: 1.5744 - dice_soft: 0.6064
- dice_crossentropy: 0.5957
Epoch 00087: val_loss improved from 0.76322 to 0.71846, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 94s 922ms/step - loss: 1.5744 - dice_soft:
0.6064 - dice_crossentropy: 0.5957 - val_loss: 0.7185 - val_dice_soft: 0.8204 - val_di
ce_crossentropy: 0.4948 - lr: 1.0000e-04
Epoch 88/500
100/100 [=====] - ETA: 0s - loss: 1.4760 - dice_soft: 0.6310
- dice_crossentropy: 0.5741
Epoch 00088: val_loss did not improve from 0.71846
100/100 [=====] - 88s 870ms/step - loss: 1.4760 - dice_soft:
0.6310 - dice_crossentropy: 0.5741 - val_loss: 1.8559 - val_dice_soft: 0.5360 - val_di
ce_crossentropy: 0.6721 - lr: 1.0000e-04
Epoch 89/500
100/100 [=====] - ETA: 0s - loss: 1.4862 - dice_soft: 0.6285
- dice_crossentropy: 0.5698
Epoch 00089: val_loss did not improve from 0.71846
100/100 [=====] - 91s 887ms/step - loss: 1.4862 - dice_soft:
0.6285 - dice_crossentropy: 0.5698 - val_loss: 1.0794 - val_dice_soft: 0.7302 - val_di
ce_crossentropy: 0.7642 - lr: 1.0000e-04
Epoch 90/500
100/100 [=====] - ETA: 0s - loss: 1.5417 - dice_soft: 0.6146
- dice_crossentropy: 0.5762
Epoch 00090: val_loss did not improve from 0.71846
100/100 [=====] - 87s 852ms/step - loss: 1.5417 - dice_soft:
0.6146 - dice_crossentropy: 0.5762 - val_loss: 0.7689 - val_dice_soft: 0.8078 - val_di
ce_crossentropy: 0.6753 - lr: 1.0000e-04
Epoch 91/500
100/100 [=====] - ETA: 0s - loss: 1.5667 - dice_soft: 0.6083
- dice_crossentropy: 0.5817
Epoch 00091: val_loss did not improve from 0.71846
100/100 [=====] - 88s 872ms/step - loss: 1.5667 - dice_soft:
0.6083 - dice_crossentropy: 0.5817 - val_loss: 1.8758 - val_dice_soft: 0.5311 - val_di
ce_crossentropy: 0.7048 - lr: 1.0000e-04
Epoch 92/500
100/100 [=====] - ETA: 0s - loss: 1.5280 - dice_soft: 0.6180
- dice_crossentropy: 0.5712
```

Epoch 00092: val_loss did not improve from 0.71846
100/100 [=====] - 90s 883ms/step - loss: 1.5280 - dice_soft:
0.6180 - dice_crossentropy: 0.5712 - val_loss: 0.9093 - val_dice_soft: 0.7727 - val_di
ce_crossentropy: 0.4971 - lr: 1.0000e-04
Epoch 93/500
100/100 [=====] - ETA: 0s - loss: 1.5234 - dice_soft: 0.6191
- dice_crossentropy: 0.5660
Epoch 00093: val_loss did not improve from 0.71846
100/100 [=====] - 90s 883ms/step - loss: 1.5234 - dice_soft:
0.6191 - dice_crossentropy: 0.5660 - val_loss: 1.0451 - val_dice_soft: 0.7387 - val_di
ce_crossentropy: 0.3975 - lr: 1.0000e-04
Epoch 94/500
100/100 [=====] - ETA: 0s - loss: 1.5232 - dice_soft: 0.6192
- dice_crossentropy: 0.5787
Epoch 00094: val_loss did not improve from 0.71846
100/100 [=====] - 92s 884ms/step - loss: 1.5232 - dice_soft:
0.6192 - dice_crossentropy: 0.5787 - val_loss: 1.8855 - val_dice_soft: 0.5286 - val_di
ce_crossentropy: 0.6449 - lr: 1.0000e-04
Epoch 95/500
100/100 [=====] - ETA: 0s - loss: 1.4951 - dice_soft: 0.6262
- dice_crossentropy: 0.5543
Epoch 00095: val_loss did not improve from 0.71846
100/100 [=====] - 91s 891ms/step - loss: 1.4951 - dice_soft:
0.6262 - dice_crossentropy: 0.5543 - val_loss: 2.1054 - val_dice_soft: 0.4736 - val_di
ce_crossentropy: 0.7745 - lr: 1.0000e-04
Epoch 96/500
100/100 [=====] - ETA: 0s - loss: 1.5524 - dice_soft: 0.6119
- dice_crossentropy: 0.5583
Epoch 00096: val_loss did not improve from 0.71846
100/100 [=====] - 88s 883ms/step - loss: 1.5524 - dice_soft:
0.6119 - dice_crossentropy: 0.5583 - val_loss: 1.8446 - val_dice_soft: 0.5389 - val_di
ce_crossentropy: 0.7694 - lr: 1.0000e-04
Epoch 97/500
100/100 [=====] - ETA: 0s - loss: 1.4295 - dice_soft: 0.6426
- dice_crossentropy: 0.5298
Epoch 00097: val_loss did not improve from 0.71846
100/100 [=====] - 89s 870ms/step - loss: 1.4295 - dice_soft:
0.6426 - dice_crossentropy: 0.5298 - val_loss: 2.0224 - val_dice_soft: 0.4944 - val_di
ce_crossentropy: 0.5516 - lr: 1.0000e-04
Epoch 98/500
100/100 [=====] - ETA: 0s - loss: 1.4407 - dice_soft: 0.6398
- dice_crossentropy: 0.5352
Epoch 00098: val_loss did not improve from 0.71846
100/100 [=====] - 91s 893ms/step - loss: 1.4407 - dice_soft:
0.6398 - dice_crossentropy: 0.5352 - val_loss: 1.8449 - val_dice_soft: 0.5388 - val_di
ce_crossentropy: 0.6890 - lr: 1.0000e-04
Epoch 99/500
100/100 [=====] - ETA: 0s - loss: 1.4298 - dice_soft: 0.6426
- dice_crossentropy: 0.5428
Epoch 00099: val_loss did not improve from 0.71846
100/100 [=====] - 89s 886ms/step - loss: 1.4298 - dice_soft:
0.6426 - dice_crossentropy: 0.5428 - val_loss: 1.8930 - val_dice_soft: 0.5268 - val_di
ce_crossentropy: 0.7074 - lr: 1.0000e-04
Epoch 100/500
100/100 [=====] - ETA: 0s - loss: 1.4470 - dice_soft: 0.6382
- dice_crossentropy: 0.5502
Epoch 00100: val_loss did not improve from 0.71846
100/100 [=====] - 90s 871ms/step - loss: 1.4470 - dice_soft:
0.6382 - dice_crossentropy: 0.5502 - val_loss: 0.7329 - val_dice_soft: 0.8168 - val_di
ce_crossentropy: 0.5154 - lr: 1.0000e-04
Epoch 101/500
100/100 [=====] - ETA: 0s - loss: 1.4862 - dice_soft: 0.6285
- dice_crossentropy: 0.5661
Epoch 00101: ReduceLROnPlateau reducing learning rate to 1e-05.

100/100 [=====] - 89s 867ms/step - loss: 1.4862 - dice_soft: 0.6285 - dice_crossentropy: 0.5661 - val_loss: 1.6739 - val_dice_soft: 0.5815 - val_dice_crossentropy: 0.4990 - lr: 1.0000e-04
Epoch 102/500
100/100 [=====] - ETA: 0s - loss: 1.4357 - dice_soft: 0.6411 - dice_crossentropy: 0.5439
Epoch 00102: val_loss did not improve from 0.71846
100/100 [=====] - 90s 872ms/step - loss: 1.4357 - dice_soft: 0.6411 - dice_crossentropy: 0.5439 - val_loss: 2.9991 - val_dice_soft: 0.2502 - val_dice_crossentropy: 0.7798 - lr: 1.0000e-05
Epoch 103/500
100/100 [=====] - ETA: 0s - loss: 1.4582 - dice_soft: 0.6354 - dice_crossentropy: 0.5577
Epoch 00103: val_loss did not improve from 0.71846
100/100 [=====] - 92s 892ms/step - loss: 1.4582 - dice_soft: 0.6354 - dice_crossentropy: 0.5577 - val_loss: 1.1539 - val_dice_soft: 0.7115 - val_dice_crossentropy: 0.5571 - lr: 1.0000e-05
Epoch 104/500
100/100 [=====] - ETA: 0s - loss: 1.4346 - dice_soft: 0.6414 - dice_crossentropy: 0.5430
Epoch 00104: val_loss did not improve from 0.71846
100/100 [=====] - 92s 888ms/step - loss: 1.4346 - dice_soft: 0.6414 - dice_crossentropy: 0.5430 - val_loss: 0.7219 - val_dice_soft: 0.8195 - val_dice_crossentropy: 0.5153 - lr: 1.0000e-05
Epoch 105/500
100/100 [=====] - ETA: 0s - loss: 1.5237 - dice_soft: 0.6191 - dice_crossentropy: 0.5562
Epoch 00105: val_loss did not improve from 0.71846
100/100 [=====] - 91s 905ms/step - loss: 1.5237 - dice_soft: 0.6191 - dice_crossentropy: 0.5562 - val_loss: 0.8798 - val_dice_soft: 0.7801 - val_dice_crossentropy: 0.4614 - lr: 1.0000e-05
Epoch 106/500
100/100 [=====] - ETA: 0s - loss: 1.4883 - dice_soft: 0.6279 - dice_crossentropy: 0.5563
Epoch 00106: val_loss did not improve from 0.71846
100/100 [=====] - 93s 899ms/step - loss: 1.4883 - dice_soft: 0.6279 - dice_crossentropy: 0.5563 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_dice_crossentropy: 0.7500 - lr: 1.0000e-05
Epoch 107/500
100/100 [=====] - ETA: 0s - loss: 1.4371 - dice_soft: 0.6407 - dice_crossentropy: 0.5348
Epoch 00107: val_loss did not improve from 0.71846
100/100 [=====] - 91s 880ms/step - loss: 1.4371 - dice_soft: 0.6407 - dice_crossentropy: 0.5348 - val_loss: 1.1057 - val_dice_soft: 0.7236 - val_dice_crossentropy: 0.5471 - lr: 1.0000e-05
Epoch 108/500
100/100 [=====] - ETA: 0s - loss: 1.4210 - dice_soft: 0.6447 - dice_crossentropy: 0.5325
Epoch 00108: val_loss did not improve from 0.71846
100/100 [=====] - 90s 896ms/step - loss: 1.4210 - dice_soft: 0.6447 - dice_crossentropy: 0.5325 - val_loss: 2.1260 - val_dice_soft: 0.4685 - val_dice_crossentropy: 0.6414 - lr: 1.0000e-05
Epoch 109/500
100/100 [=====] - ETA: 0s - loss: 1.2755 - dice_soft: 0.6811 - dice_crossentropy: 0.4947
Epoch 00109: val_loss improved from 0.71846 to 0.66355, saving model to evaluation/fold_0/model.hdf5
100/100 [=====] - 91s 892ms/step - loss: 1.2755 - dice_soft: 0.6811 - dice_crossentropy: 0.4947 - val_loss: 0.6635 - val_dice_soft: 0.8341 - val_dice_crossentropy: 0.6058 - lr: 1.0000e-05
Epoch 110/500
100/100 [=====] - ETA: 0s - loss: 1.3928 - dice_soft: 0.6518 - dice_crossentropy: 0.5063
Epoch 00110: val_loss did not improve from 0.66355
100/100 [=====] - 91s 888ms/step - loss: 1.3928 - dice_soft: 0.6518 - dice_crossentropy: 0.5063 - val_loss: 1.2321 - val_dice_soft: 0.6920 - val_dice_crossentropy: 0.5063

ice_crossentropy: 0.6137 - lr: 1.0000e-05
Epoch 111/500
100/100 [=====] - ETA: 0s - loss: 1.4246 - dice_soft: 0.6439
- dice_crossentropy: 0.5337
Epoch 00111: val_loss did not improve from 0.66355
100/100 [=====] - 91s 903ms/step - loss: 1.4246 - dice_soft:
0.6439 - dice_crossentropy: 0.5337 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7500 - lr: 1.0000e-05
Epoch 112/500
100/100 [=====] - ETA: 0s - loss: 1.3079 - dice_soft: 0.6730
- dice_crossentropy: 0.5089
Epoch 00112: val_loss did not improve from 0.66355
100/100 [=====] - 94s 932ms/step - loss: 1.3079 - dice_soft:
0.6730 - dice_crossentropy: 0.5089 - val_loss: 2.4792 - val_dice_soft: 0.3802 - val_d
ice_crossentropy: 0.6448 - lr: 1.0000e-05
Epoch 113/500
100/100 [=====] - ETA: 0s - loss: 1.3947 - dice_soft: 0.6513
- dice_crossentropy: 0.5108
Epoch 00113: val_loss did not improve from 0.66355
100/100 [=====] - 87s 847ms/step - loss: 1.3947 - dice_soft:
0.6513 - dice_crossentropy: 0.5108 - val_loss: 2.2761 - val_dice_soft: 0.4310 - val_d
ice_crossentropy: 0.6818 - lr: 1.0000e-05
Epoch 114/500
100/100 [=====] - ETA: 0s - loss: 1.3654 - dice_soft: 0.6587
- dice_crossentropy: 0.5073
Epoch 00114: val_loss did not improve from 0.66355
100/100 [=====] - 89s 864ms/step - loss: 1.3654 - dice_soft:
0.6587 - dice_crossentropy: 0.5073 - val_loss: 1.8138 - val_dice_soft: 0.5465 - val_d
ice_crossentropy: 0.5736 - lr: 1.0000e-05
Epoch 115/500
100/100 [=====] - ETA: 0s - loss: 1.3132 - dice_soft: 0.6717
- dice_crossentropy: 0.4920
Epoch 00115: val_loss did not improve from 0.66355
100/100 [=====] - 90s 878ms/step - loss: 1.3132 - dice_soft:
0.6717 - dice_crossentropy: 0.4920 - val_loss: 1.8106 - val_dice_soft: 0.5474 - val_d
ice_crossentropy: 0.6759 - lr: 1.0000e-05
Epoch 116/500
100/100 [=====] - ETA: 0s - loss: 1.4649 - dice_soft: 0.6338
- dice_crossentropy: 0.5403
Epoch 00116: val_loss did not improve from 0.66355
100/100 [=====] - 88s 872ms/step - loss: 1.4649 - dice_soft:
0.6338 - dice_crossentropy: 0.5403 - val_loss: 1.1233 - val_dice_soft: 0.7192 - val_d
ice_crossentropy: 0.4087 - lr: 1.0000e-05
Epoch 117/500
100/100 [=====] - ETA: 0s - loss: 1.3948 - dice_soft: 0.6513
- dice_crossentropy: 0.5026
Epoch 00117: val_loss did not improve from 0.66355
100/100 [=====] - 90s 904ms/step - loss: 1.3948 - dice_soft:
0.6513 - dice_crossentropy: 0.5026 - val_loss: 1.4376 - val_dice_soft: 0.6406 - val_d
ice_crossentropy: 0.6711 - lr: 1.0000e-05
Epoch 118/500
100/100 [=====] - ETA: 0s - loss: 1.4015 - dice_soft: 0.6496
- dice_crossentropy: 0.5247
Epoch 00118: val_loss did not improve from 0.66355
100/100 [=====] - 91s 901ms/step - loss: 1.4015 - dice_soft:
0.6496 - dice_crossentropy: 0.5247 - val_loss: 1.0894 - val_dice_soft: 0.7276 - val_d
ice_crossentropy: 0.4859 - lr: 1.0000e-05
Epoch 119/500
100/100 [=====] - ETA: 0s - loss: 1.3885 - dice_soft: 0.6529
- dice_crossentropy: 0.5205
Epoch 00119: val_loss improved from 0.66355 to 0.65008, saving model to evaluation/fold_0/model.hdf5
100/100 [=====] - 89s 865ms/step - loss: 1.3885 - dice_soft:
0.6529 - dice_crossentropy: 0.5205 - val_loss: 0.6501 - val_dice_soft: 0.8375 - val_d
ice_crossentropy: 0.4249 - lr: 1.0000e-05


```
100/100 [=====] - ETA: 0s - loss: 1.4572 - dice_soft: 0.6357
- dice_crossentropy: 0.5254
Epoch 00120: val_loss did not improve from 0.65008
100/100 [=====] - 90s 899ms/step - loss: 1.4572 - dice_soft:
0.6357 - dice_crossentropy: 0.5254 - val_loss: 0.7899 - val_dice_soft: 0.8025 - val_d
ice_crossentropy: 0.5976 - lr: 1.0000e-05
Epoch 121/500
100/100 [=====] - ETA: 0s - loss: 1.3935 - dice_soft: 0.6516
- dice_crossentropy: 0.5174
Epoch 00121: val_loss improved from 0.65008 to 0.62230, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 90s 883ms/step - loss: 1.3935 - dice_soft:
0.6516 - dice_crossentropy: 0.5174 - val_loss: 0.6223 - val_dice_soft: 0.8444 - val_d
ice_crossentropy: 0.5142 - lr: 1.0000e-05
Epoch 122/500
100/100 [=====] - ETA: 0s - loss: 1.4117 - dice_soft: 0.6471
- dice_crossentropy: 0.5257
Epoch 00122: val_loss did not improve from 0.62230
100/100 [=====] - 88s 885ms/step - loss: 1.4117 - dice_soft:
0.6471 - dice_crossentropy: 0.5257 - val_loss: 1.6697 - val_dice_soft: 0.5826 - val_d
ice_crossentropy: 0.6513 - lr: 1.0000e-05
Epoch 123/500
100/100 [=====] - ETA: 0s - loss: 1.3706 - dice_soft: 0.6573
- dice_crossentropy: 0.5127
Epoch 00123: val_loss did not improve from 0.62230
100/100 [=====] - 90s 865ms/step - loss: 1.3706 - dice_soft:
0.6573 - dice_crossentropy: 0.5127 - val_loss: 1.6313 - val_dice_soft: 0.5922 - val_d
ice_crossentropy: 0.5007 - lr: 1.0000e-05
Epoch 124/500
100/100 [=====] - ETA: 0s - loss: 1.3457 - dice_soft: 0.6636
- dice_crossentropy: 0.5130
Epoch 00124: val_loss did not improve from 0.62230
100/100 [=====] - 93s 909ms/step - loss: 1.3457 - dice_soft:
0.6636 - dice_crossentropy: 0.5130 - val_loss: 0.6282 - val_dice_soft: 0.8430 - val_d
ice_crossentropy: 0.5491 - lr: 1.0000e-05
Epoch 125/500
100/100 [=====] - ETA: 0s - loss: 1.3119 - dice_soft: 0.6720
- dice_crossentropy: 0.5089
Epoch 00125: val_loss did not improve from 0.62230
100/100 [=====] - 92s 899ms/step - loss: 1.3119 - dice_soft:
0.6720 - dice_crossentropy: 0.5089 - val_loss: 0.7936 - val_dice_soft: 0.8016 - val_d
ice_crossentropy: 0.4831 - lr: 1.0000e-05
Epoch 126/500
100/100 [=====] - ETA: 0s - loss: 1.2673 - dice_soft: 0.6832
- dice_crossentropy: 0.4887
Epoch 00126: val_loss did not improve from 0.62230
100/100 [=====] - 91s 885ms/step - loss: 1.2673 - dice_soft:
0.6832 - dice_crossentropy: 0.4887 - val_loss: 1.5190 - val_dice_soft: 0.6202 - val_d
ice_crossentropy: 0.5194 - lr: 1.0000e-05
Epoch 127/500
100/100 [=====] - ETA: 0s - loss: 1.3211 - dice_soft: 0.6697
- dice_crossentropy: 0.4998
Epoch 00127: val_loss did not improve from 0.62230
100/100 [=====] - 90s 894ms/step - loss: 1.3211 - dice_soft:
0.6697 - dice_crossentropy: 0.4998 - val_loss: 1.4053 - val_dice_soft: 0.6487 - val_d
ice_crossentropy: 0.4929 - lr: 1.0000e-05
Epoch 128/500
100/100 [=====] - ETA: 0s - loss: 1.3861 - dice_soft: 0.6535
- dice_crossentropy: 0.5062
Epoch 00128: val_loss did not improve from 0.62230
100/100 [=====] - 89s 860ms/step - loss: 1.3861 - dice_soft:
0.6535 - dice_crossentropy: 0.5062 - val_loss: 1.4032 - val_dice_soft: 0.6492 - val_d
ice_crossentropy: 0.5964 - lr: 1.0000e-05
Epoch 129/500
100/100 [=====] - ETA: 0s - loss: 1.4229 - dice_soft: 0.6443
- dice_crossentropy: 0.5259
```

Epoch 00129: val_loss did not improve from 0.62230
100/100 [=====] - 91s 904ms/step - loss: 1.4229 - dice_soft:
0.6443 - dice_crossentropy: 0.5259 - val_loss: 1.2469 - val_dice_soft: 0.6883 - val_d
ice_crossentropy: 0.7379 - lr: 1.0000e-05
Epoch 130/500
100/100 [=====] - ETA: 0s - loss: 1.4236 - dice_soft: 0.6441
- dice_crossentropy: 0.5375
Epoch 00130: val_loss did not improve from 0.62230
100/100 [=====] - 89s 886ms/step - loss: 1.4236 - dice_soft:
0.6441 - dice_crossentropy: 0.5375 - val_loss: 0.6906 - val_dice_soft: 0.8273 - val_d
ice_crossentropy: 0.6289 - lr: 1.0000e-05
Epoch 131/500
100/100 [=====] - ETA: 0s - loss: 1.3340 - dice_soft: 0.6665
- dice_crossentropy: 0.5016
Epoch 00131: val_loss did not improve from 0.62230
100/100 [=====] - 90s 875ms/step - loss: 1.3340 - dice_soft:
0.6665 - dice_crossentropy: 0.5016 - val_loss: 0.7484 - val_dice_soft: 0.8129 - val_d
ice_crossentropy: 0.5945 - lr: 1.0000e-05
Epoch 132/500
100/100 [=====] - ETA: 0s - loss: 1.3929 - dice_soft: 0.6518
- dice_crossentropy: 0.5155
Epoch 00132: val_loss did not improve from 0.62230
100/100 [=====] - 92s 908ms/step - loss: 1.3929 - dice_soft:
0.6518 - dice_crossentropy: 0.5155 - val_loss: 1.4487 - val_dice_soft: 0.6378 - val_d
ice_crossentropy: 0.5403 - lr: 1.0000e-05
Epoch 133/500
100/100 [=====] - ETA: 0s - loss: 1.4223 - dice_soft: 0.6444
- dice_crossentropy: 0.5152
Epoch 00133: val_loss did not improve from 0.62230
100/100 [=====] - 89s 871ms/step - loss: 1.4223 - dice_soft:
0.6444 - dice_crossentropy: 0.5152 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7510 - lr: 1.0000e-05
Epoch 134/500
100/100 [=====] - ETA: 0s - loss: 1.3893 - dice_soft: 0.6527
- dice_crossentropy: 0.4999
Epoch 00134: val_loss did not improve from 0.62230
100/100 [=====] - 90s 896ms/step - loss: 1.3893 - dice_soft:
0.6527 - dice_crossentropy: 0.4999 - val_loss: 0.7030 - val_dice_soft: 0.8242 - val_d
ice_crossentropy: 0.5678 - lr: 1.0000e-05
Epoch 135/500
100/100 [=====] - ETA: 0s - loss: 1.2750 - dice_soft: 0.6813
- dice_crossentropy: 0.4961
Epoch 00135: val_loss did not improve from 0.62230
100/100 [=====] - 89s 884ms/step - loss: 1.2750 - dice_soft:
0.6813 - dice_crossentropy: 0.4961 - val_loss: 1.8216 - val_dice_soft: 0.5446 - val_d
ice_crossentropy: 0.6987 - lr: 1.0000e-05
Epoch 136/500
100/100 [=====] - ETA: 0s - loss: 1.3107 - dice_soft: 0.6723
- dice_crossentropy: 0.5034
Epoch 00136: val_loss did not improve from 0.62230
100/100 [=====] - 91s 889ms/step - loss: 1.3107 - dice_soft:
0.6723 - dice_crossentropy: 0.5034 - val_loss: 1.8243 - val_dice_soft: 0.5439 - val_d
ice_crossentropy: 0.5258 - lr: 1.0000e-05
Epoch 137/500
100/100 [=====] - ETA: 0s - loss: 1.4056 - dice_soft: 0.6486
- dice_crossentropy: 0.5226
Epoch 00137: val_loss did not improve from 0.62230
100/100 [=====] - 91s 899ms/step - loss: 1.4056 - dice_soft:
0.6486 - dice_crossentropy: 0.5226 - val_loss: 2.7176 - val_dice_soft: 0.3206 - val_d
ice_crossentropy: 0.6936 - lr: 1.0000e-05
Epoch 138/500
100/100 [=====] - ETA: 0s - loss: 1.4056 - dice_soft: 0.6486
- dice_crossentropy: 0.5201
Epoch 00138: val_loss did not improve from 0.62230
100/100 [=====] - 92s 886ms/step - loss: 1.4056 - dice_soft:
dice_crossentropy: 0.5201 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d

ice_crossentropy: 0.7500 - lr: 1.0000e-05
Epoch 139/500
100/100 [=====] - ETA: 0s - loss: 1.4102 - dice_soft: 0.6474
- dice_crossentropy: 0.5218
Epoch 00139: val_loss did not improve from 0.62230
100/100 [=====] - 94s 932ms/step - loss: 1.4102 - dice_soft:
0.6474 - dice_crossentropy: 0.5218 - val_loss: 1.1313 - val_dice_soft: 0.7172 - val_d
ice_crossentropy: 0.5144 - lr: 1.0000e-05
Epoch 140/500
100/100 [=====] - ETA: 0s - loss: 1.4048 - dice_soft: 0.6488
- dice_crossentropy: 0.5244
Epoch 00140: val_loss did not improve from 0.62230
100/100 [=====] - 92s 914ms/step - loss: 1.4048 - dice_soft:
0.6488 - dice_crossentropy: 0.5244 - val_loss: 0.6563 - val_dice_soft: 0.8359 - val_d
ice_crossentropy: 0.5681 - lr: 1.0000e-05
Epoch 141/500
100/100 [=====] - ETA: 0s - loss: 1.4004 - dice_soft: 0.6499
- dice_crossentropy: 0.5118
Epoch 00141: val_loss did not improve from 0.62230
100/100 [=====] - 92s 908ms/step - loss: 1.4004 - dice_soft:
0.6499 - dice_crossentropy: 0.5118 - val_loss: 1.5420 - val_dice_soft: 0.6145 - val_d
ice_crossentropy: 0.5986 - lr: 1.0000e-05
Epoch 142/500
100/100 [=====] - ETA: 0s - loss: 1.4743 - dice_soft: 0.6314
- dice_crossentropy: 0.5387
Epoch 00142: val_loss did not improve from 0.62230
100/100 [=====] - 89s 871ms/step - loss: 1.4743 - dice_soft:
0.6314 - dice_crossentropy: 0.5387 - val_loss: 0.9820 - val_dice_soft: 0.7545 - val_d
ice_crossentropy: 0.4838 - lr: 1.0000e-05
Epoch 143/500
100/100 [=====] - ETA: 0s - loss: 1.2654 - dice_soft: 0.6836
- dice_crossentropy: 0.4897
Epoch 00143: val_loss did not improve from 0.62230
100/100 [=====] - 89s 869ms/step - loss: 1.2654 - dice_soft:
0.6836 - dice_crossentropy: 0.4897 - val_loss: 1.7677 - val_dice_soft: 0.5581 - val_d
ice_crossentropy: 0.6619 - lr: 1.0000e-05
Epoch 144/500
100/100 [=====] - ETA: 0s - loss: 1.4332 - dice_soft: 0.6417
- dice_crossentropy: 0.5203
Epoch 00144: val_loss did not improve from 0.62230
100/100 [=====] - 90s 894ms/step - loss: 1.4332 - dice_soft:
0.6417 - dice_crossentropy: 0.5203 - val_loss: 1.3932 - val_dice_soft: 0.6517 - val_d
ice_crossentropy: 0.6137 - lr: 1.0000e-05
Epoch 145/500
100/100 [=====] - ETA: 0s - loss: 1.4942 - dice_soft: 0.6264
- dice_crossentropy: 0.5262
Epoch 00145: val_loss did not improve from 0.62230
100/100 [=====] - 92s 906ms/step - loss: 1.4942 - dice_soft:
0.6264 - dice_crossentropy: 0.5262 - val_loss: 2.5960 - val_dice_soft: 0.3510 - val_d
ice_crossentropy: 0.7293 - lr: 1.0000e-05
Epoch 146/500
100/100 [=====] - ETA: 0s - loss: 1.4358 - dice_soft: 0.6410
- dice_crossentropy: 0.5154
Epoch 00146: val_loss did not improve from 0.62230
100/100 [=====] - 89s 885ms/step - loss: 1.4358 - dice_soft:
0.6410 - dice_crossentropy: 0.5154 - val_loss: 0.9271 - val_dice_soft: 0.7682 - val_d
ice_crossentropy: 0.4333 - lr: 1.0000e-05
Epoch 147/500
100/100 [=====] - ETA: 0s - loss: 1.3211 - dice_soft: 0.6697
- dice_crossentropy: 0.5046
Epoch 00147: val_loss did not improve from 0.62230
100/100 [=====] - 91s 906ms/step - loss: 1.3211 - dice_soft:
0.6697 - dice_crossentropy: 0.5046 - val_loss: 1.3054 - val_dice_soft: 0.6737 - val_d
ice_crossentropy: 0.3737 - lr: 1.0000e-05
Epoch 148/500

- dice_crossentropy: 0.5062
Epoch 00148: val_loss did not improve from 0.62230
100/100 [=====] - 90s 892ms/step - loss: 1.3629 - dice_soft:
0.6593 - dice_crossentropy: 0.5062 - val_loss: 2.9707 - val_dice_soft: 0.2573 - val_d
ice_crossentropy: 0.7473 - lr: 1.0000e-05
Epoch 149/500
100/100 [=====] - ETA: 0s - loss: 1.2673 - dice_soft: 0.6832
- dice_crossentropy: 0.4850
Epoch 00149: val_loss did not improve from 0.62230
100/100 [=====] - 89s 871ms/step - loss: 1.2673 - dice_soft:
0.6832 - dice_crossentropy: 0.4850 - val_loss: 0.6766 - val_dice_soft: 0.8309 - val_d
ice_crossentropy: 0.6834 - lr: 1.0000e-05
Epoch 150/500
100/100 [=====] - ETA: 0s - loss: 1.3902 - dice_soft: 0.6525
- dice_crossentropy: 0.5152
Epoch 00150: val_loss did not improve from 0.62230
100/100 [=====] - 92s 919ms/step - loss: 1.3902 - dice_soft:
0.6525 - dice_crossentropy: 0.5152 - val_loss: 1.4312 - val_dice_soft: 0.6422 - val_d
ice_crossentropy: 0.4923 - lr: 1.0000e-05
Epoch 151/500
100/100 [=====] - ETA: 0s - loss: 1.3981 - dice_soft: 0.6505
- dice_crossentropy: 0.5043
Epoch 00151: val_loss did not improve from 0.62230
100/100 [=====] - 91s 886ms/step - loss: 1.3981 - dice_soft:
0.6505 - dice_crossentropy: 0.5043 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7500 - lr: 1.0000e-05
Epoch 152/500
100/100 [=====] - ETA: 0s - loss: 1.3645 - dice_soft: 0.6589
- dice_crossentropy: 0.5203
Epoch 00152: val_loss did not improve from 0.62230
100/100 [=====] - 91s 907ms/step - loss: 1.3645 - dice_soft:
0.6589 - dice_crossentropy: 0.5203 - val_loss: 1.0959 - val_dice_soft: 0.7260 - val_d
ice_crossentropy: 0.3720 - lr: 1.0000e-05
Epoch 153/500
100/100 [=====] - ETA: 0s - loss: 1.4649 - dice_soft: 0.6338
- dice_crossentropy: 0.5202
Epoch 00153: val_loss did not improve from 0.62230
100/100 [=====] - 91s 882ms/step - loss: 1.4649 - dice_soft:
0.6338 - dice_crossentropy: 0.5202 - val_loss: 1.8012 - val_dice_soft: 0.5497 - val_d
ice_crossentropy: 0.6501 - lr: 1.0000e-05
Epoch 154/500
100/100 [=====] - ETA: 0s - loss: 1.4192 - dice_soft: 0.6452
- dice_crossentropy: 0.5206
Epoch 00154: val_loss did not improve from 0.62230
100/100 [=====] - 91s 889ms/step - loss: 1.4192 - dice_soft:
0.6452 - dice_crossentropy: 0.5206 - val_loss: 0.6822 - val_dice_soft: 0.8294 - val_d
ice_crossentropy: 0.5228 - lr: 1.0000e-05
Epoch 155/500
100/100 [=====] - ETA: 0s - loss: 1.3165 - dice_soft: 0.6709
- dice_crossentropy: 0.4992
Epoch 00155: val_loss did not improve from 0.62230
100/100 [=====] - 93s 926ms/step - loss: 1.3165 - dice_soft:
0.6709 - dice_crossentropy: 0.4992 - val_loss: 0.6463 - val_dice_soft: 0.8384 - val_d
ice_crossentropy: 0.5255 - lr: 1.0000e-05
Epoch 156/500
100/100 [=====] - ETA: 0s - loss: 1.4919 - dice_soft: 0.6270
- dice_crossentropy: 0.5097
Epoch 00156: val_loss did not improve from 0.62230
100/100 [=====] - 87s 854ms/step - loss: 1.4919 - dice_soft:
0.6270 - dice_crossentropy: 0.5097 - val_loss: 1.6738 - val_dice_soft: 0.5816 - val_d
ice_crossentropy: 0.5470 - lr: 1.0000e-05
Epoch 157/500
100/100 [=====] - ETA: 0s - loss: 1.4463 - dice_soft: 0.6384
- dice_crossentropy: 0.5221
Epoch 00157: val_loss did not improve from 0.62230
100/100 [=====] - 90s 897ms/step - loss: 1.4463 - dice_soft:

0.6384 - dice_crossentropy: 0.5221 - val_loss: 2.6625 - val_dice_soft: 0.3344 - val_dice_crossentropy: 0.7005 - lr: 1.0000e-05
Epoch 158/500
100/100 [=====] - ETA: 0s - loss: 1.4776 - dice_soft: 0.6306
- dice_crossentropy: 0.5249
Epoch 00158: val_loss did not improve from 0.62230
100/100 [=====] - 91s 883ms/step - loss: 1.4776 - dice_soft:
0.6306 - dice_crossentropy: 0.5249 - val_loss: 0.6647 - val_dice_soft: 0.8338 - val_dice_crossentropy: 0.6897 - lr: 1.0000e-05
Epoch 159/500
100/100 [=====] - ETA: 0s - loss: 1.2523 - dice_soft: 0.6869
- dice_crossentropy: 0.4752
Epoch 00159: val_loss did not improve from 0.62230
100/100 [=====] - 91s 892ms/step - loss: 1.2523 - dice_soft:
0.6869 - dice_crossentropy: 0.4752 - val_loss: 0.6323 - val_dice_soft: 0.8419 - val_dice_crossentropy: 0.3879 - lr: 1.0000e-05
Epoch 160/500
100/100 [=====] - ETA: 0s - loss: 1.2859 - dice_soft: 0.6785
- dice_crossentropy: 0.4845
Epoch 00160: val_loss did not improve from 0.62230
100/100 [=====] - 89s 894ms/step - loss: 1.2859 - dice_soft:
0.6785 - dice_crossentropy: 0.4845 - val_loss: 1.8199 - val_dice_soft: 0.5450 - val_dice_crossentropy: 0.6114 - lr: 1.0000e-05
Epoch 161/500
100/100 [=====] - ETA: 0s - loss: 1.4530 - dice_soft: 0.6367
- dice_crossentropy: 0.5176
Epoch 00161: val_loss did not improve from 0.62230
100/100 [=====] - 91s 879ms/step - loss: 1.4530 - dice_soft:
0.6367 - dice_crossentropy: 0.5176 - val_loss: 1.8374 - val_dice_soft: 0.5406 - val_dice_crossentropy: 0.7157 - lr: 1.0000e-05
Epoch 162/500
100/100 [=====] - ETA: 0s - loss: 1.3590 - dice_soft: 0.6602
- dice_crossentropy: 0.4969
Epoch 00162: val_loss did not improve from 0.62230
100/100 [=====] - 88s 878ms/step - loss: 1.3590 - dice_soft:
0.6602 - dice_crossentropy: 0.4969 - val_loss: 0.9621 - val_dice_soft: 0.7595 - val_dice_crossentropy: 0.5393 - lr: 1.0000e-05
Epoch 163/500
100/100 [=====] - ETA: 0s - loss: 1.3955 - dice_soft: 0.6511
- dice_crossentropy: 0.5146
Epoch 00163: val_loss did not improve from 0.62230
100/100 [=====] - 90s 888ms/step - loss: 1.3955 - dice_soft:
0.6511 - dice_crossentropy: 0.5146 - val_loss: 1.3554 - val_dice_soft: 0.6611 - val_dice_crossentropy: 0.5456 - lr: 1.0000e-05
Epoch 164/500
100/100 [=====] - ETA: 0s - loss: 1.3586 - dice_soft: 0.6603
- dice_crossentropy: 0.5048
Epoch 00164: val_loss improved from 0.62230 to 0.58854, saving model to evaluation/old_model/model.hdf5
100/100 [=====] - 94s 923ms/step - loss: 1.3586 - dice_soft:
0.6603 - dice_crossentropy: 0.5048 - val_loss: 0.5885 - val_dice_soft: 0.8529 - val_dice_crossentropy: 0.5306 - lr: 1.0000e-05
Epoch 165/500
100/100 [=====] - ETA: 0s - loss: 1.5165 - dice_soft: 0.6209
- dice_crossentropy: 0.5252
Epoch 00165: val_loss did not improve from 0.58854
100/100 [=====] - 91s 890ms/step - loss: 1.5165 - dice_soft:
0.6209 - dice_crossentropy: 0.5252 - val_loss: 0.6748 - val_dice_soft: 0.8313 - val_dice_crossentropy: 0.4529 - lr: 1.0000e-05
Epoch 166/500
100/100 [=====] - ETA: 0s - loss: 1.4311 - dice_soft: 0.6422
- dice_crossentropy: 0.5161
Epoch 00166: val_loss did not improve from 0.58854
100/100 [=====] - 92s 899ms/step - loss: 1.4311 - dice_soft:
0.6422 - dice_crossentropy: 0.5161 - val_loss: 0.6968 - val_dice_soft: 0.8258 - val_dice_crossentropy: 0.4720 - lr: 1.0000e-05

Epoch 167/500
100/100 [=====] - ETA: 0s - loss: 1.5084 - dice_soft: 0.6229
- dice_crossentropy: 0.5340
Epoch 00167: val_loss did not improve from 0.58854
100/100 [=====] - 89s 893ms/step - loss: 1.5084 - dice_soft:
0.6229 - dice_crossentropy: 0.5340 - val_loss: 1.1565 - val_dice_soft: 0.7109 - val_d
ice_crossentropy: 0.5808 - lr: 1.0000e-05
Epoch 168/500
100/100 [=====] - ETA: 0s - loss: 1.3843 - dice_soft: 0.6539
- dice_crossentropy: 0.5048
Epoch 00168: val_loss did not improve from 0.58854
100/100 [=====] - 91s 884ms/step - loss: 1.3843 - dice_soft:
0.6539 - dice_crossentropy: 0.5048 - val_loss: 0.6703 - val_dice_soft: 0.8324 - val_d
ice_crossentropy: 0.5465 - lr: 1.0000e-05
Epoch 169/500
100/100 [=====] - ETA: 0s - loss: 1.3569 - dice_soft: 0.6608
- dice_crossentropy: 0.5066
Epoch 00169: val_loss did not improve from 0.58854
100/100 [=====] - 95s 916ms/step - loss: 1.3569 - dice_soft:
0.6608 - dice_crossentropy: 0.5066 - val_loss: 0.6612 - val_dice_soft: 0.8347 - val_d
ice_crossentropy: 0.5810 - lr: 1.0000e-05
Epoch 170/500
100/100 [=====] - ETA: 0s - loss: 1.3399 - dice_soft: 0.6650
- dice_crossentropy: 0.4921
Epoch 00170: val_loss did not improve from 0.58854
100/100 [=====] - 91s 881ms/step - loss: 1.3399 - dice_soft:
0.6650 - dice_crossentropy: 0.4921 - val_loss: 1.8449 - val_dice_soft: 0.5388 - val_d
ice_crossentropy: 0.6095 - lr: 1.0000e-05
Epoch 171/500
100/100 [=====] - ETA: 0s - loss: 1.2879 - dice_soft: 0.6780
- dice_crossentropy: 0.4774
Epoch 00171: val_loss did not improve from 0.58854
100/100 [=====] - 93s 896ms/step - loss: 1.2879 - dice_soft:
0.6780 - dice_crossentropy: 0.4774 - val_loss: 2.4891 - val_dice_soft: 0.3777 - val_d
ice_crossentropy: 0.6315 - lr: 1.0000e-05
Epoch 172/500
100/100 [=====] - ETA: 0s - loss: 1.3783 - dice_soft: 0.6554
- dice_crossentropy: 0.5062
Epoch 00172: val_loss did not improve from 0.58854
100/100 [=====] - 91s 885ms/step - loss: 1.3783 - dice_soft:
0.6554 - dice_crossentropy: 0.5062 - val_loss: 0.6783 - val_dice_soft: 0.8304 - val_d
ice_crossentropy: 0.5755 - lr: 1.0000e-05
Epoch 173/500
100/100 [=====] - ETA: 0s - loss: 1.4095 - dice_soft: 0.6476
- dice_crossentropy: 0.5073
Epoch 00173: val_loss did not improve from 0.58854
100/100 [=====] - 89s 870ms/step - loss: 1.4095 - dice_soft:
0.6476 - dice_crossentropy: 0.5073 - val_loss: 0.8820 - val_dice_soft: 0.7795 - val_d
ice_crossentropy: 0.5060 - lr: 1.0000e-05
Epoch 174/500
100/100 [=====] - ETA: 0s - loss: 1.3452 - dice_soft: 0.6637
- dice_crossentropy: 0.4898
Epoch 00174: val_loss did not improve from 0.58854
100/100 [=====] - 88s 879ms/step - loss: 1.3452 - dice_soft:
0.6637 - dice_crossentropy: 0.4898 - val_loss: 0.7771 - val_dice_soft: 0.8057 - val_d
ice_crossentropy: 0.4652 - lr: 1.0000e-05
Epoch 175/500
100/100 [=====] - ETA: 0s - loss: 1.3695 - dice_soft: 0.6576
- dice_crossentropy: 0.5097
Epoch 00175: val_loss did not improve from 0.58854
100/100 [=====] - 90s 893ms/step - loss: 1.3695 - dice_soft:
0.6576 - dice_crossentropy: 0.5097 - val_loss: 0.6769 - val_dice_soft: 0.8308 - val_d
ice_crossentropy: 0.6139 - lr: 1.0000e-05
Epoch 176/500
100/100 [=====] - ETA: 0s - loss: 1.3407 - dice_soft: 0.6648
- dice_crossentropy: 0.4962

Epoch 00176: val_loss did not improve from 0.58854
100/100 [=====] - 91s 898ms/step - loss: 1.3407 - dice_soft:
0.6648 - dice_crossentropy: 0.4962 - val_loss: 0.6797 - val_dice_soft: 0.8301 - val_d
ice_crossentropy: 0.6624 - lr: 1.0000e-05
Epoch 177/500
100/100 [=====] - ETA: 0s - loss: 1.4480 - dice_soft: 0.6380
- dice_crossentropy: 0.5058
Epoch 00177: val_loss did not improve from 0.58854
100/100 [=====] - 89s 891ms/step - loss: 1.4480 - dice_soft:
0.6380 - dice_crossentropy: 0.5058 - val_loss: 2.0364 - val_dice_soft: 0.4909 - val_d
ice_crossentropy: 0.7190 - lr: 1.0000e-05
Epoch 178/500
100/100 [=====] - ETA: 0s - loss: 1.2688 - dice_soft: 0.6828
- dice_crossentropy: 0.4856
Epoch 00178: val_loss did not improve from 0.58854
100/100 [=====] - 92s 880ms/step - loss: 1.2688 - dice_soft:
0.6828 - dice_crossentropy: 0.4856 - val_loss: 1.7241 - val_dice_soft: 0.5690 - val_d
ice_crossentropy: 0.5068 - lr: 1.0000e-05
Epoch 179/500
100/100 [=====] - ETA: 0s - loss: 1.3676 - dice_soft: 0.6581
- dice_crossentropy: 0.5028
Epoch 00179: val_loss did not improve from 0.58854
100/100 [=====] - 91s 878ms/step - loss: 1.3676 - dice_soft:
0.6581 - dice_crossentropy: 0.5028 - val_loss: 0.8130 - val_dice_soft: 0.7967 - val_d
ice_crossentropy: 0.3452 - lr: 1.0000e-05
Epoch 180/500
100/100 [=====] - ETA: 0s - loss: 1.3961 - dice_soft: 0.6510
- dice_crossentropy: 0.4980
Epoch 00180: val_loss did not improve from 0.58854
100/100 [=====] - 88s 867ms/step - loss: 1.3961 - dice_soft:
0.6510 - dice_crossentropy: 0.4980 - val_loss: 1.9709 - val_dice_soft: 0.5073 - val_d
ice_crossentropy: 0.5350 - lr: 1.0000e-05
Epoch 181/500
100/100 [=====] - ETA: 0s - loss: 1.4508 - dice_soft: 0.6373
- dice_crossentropy: 0.5293
Epoch 00181: val_loss did not improve from 0.58854
100/100 [=====] - 95s 917ms/step - loss: 1.4508 - dice_soft:
0.6373 - dice_crossentropy: 0.5293 - val_loss: 1.8343 - val_dice_soft: 0.5414 - val_d
ice_crossentropy: 0.7215 - lr: 1.0000e-05
Epoch 182/500
100/100 [=====] - ETA: 0s - loss: 1.4201 - dice_soft: 0.6450
- dice_crossentropy: 0.5167
Epoch 00182: val_loss did not improve from 0.58854
100/100 [=====] - 89s 885ms/step - loss: 1.4201 - dice_soft:
0.6450 - dice_crossentropy: 0.5167 - val_loss: 0.6748 - val_dice_soft: 0.8313 - val_d
ice_crossentropy: 0.4318 - lr: 1.0000e-05
Epoch 183/500
100/100 [=====] - ETA: 0s - loss: 1.4206 - dice_soft: 0.6448
- dice_crossentropy: 0.5148
Epoch 00183: val_loss did not improve from 0.58854
100/100 [=====] - 89s 880ms/step - loss: 1.4206 - dice_soft:
0.6448 - dice_crossentropy: 0.5148 - val_loss: 1.1689 - val_dice_soft: 0.7078 - val_d
ice_crossentropy: 0.6510 - lr: 1.0000e-05
Epoch 184/500
100/100 [=====] - ETA: 0s - loss: 1.4002 - dice_soft: 0.6499
- dice_crossentropy: 0.5037
Epoch 00184: val_loss did not improve from 0.58854
100/100 [=====] - 91s 906ms/step - loss: 1.4002 - dice_soft:
0.6499 - dice_crossentropy: 0.5037 - val_loss: 1.8420 - val_dice_soft: 0.5395 - val_d
ice_crossentropy: 0.7475 - lr: 1.0000e-05
Epoch 185/500
100/100 [=====] - ETA: 0s - loss: 1.3001 - dice_soft: 0.6750
- dice_crossentropy: 0.4858
Epoch 00185: val_loss did not improve from 0.58854
100/100 [=====] - 90s 877ms/step - loss: 1.3001 - dice_soft:
0.6750 - dice_crossentropy: 0.4858 - val_loss: 2.8552 - val_dice_soft: 0.2862 - val_d

ice_crossentropy: 0.7216 - lr: 1.0000e-05
Epoch 186/500
100/100 [=====] - ETA: 0s - loss: 1.4061 - dice_soft: 0.6485
- dice_crossentropy: 0.5169
Epoch 00186: val_loss did not improve from 0.58854
100/100 [=====] - 90s 883ms/step - loss: 1.4061 - dice_soft:
0.6485 - dice_crossentropy: 0.5169 - val_loss: 0.8530 - val_dice_soft: 0.7867 - val_d
ice_crossentropy: 0.5519 - lr: 1.0000e-05
Epoch 187/500
100/100 [=====] - ETA: 0s - loss: 1.3734 - dice_soft: 0.6567
- dice_crossentropy: 0.5042
Epoch 00187: val_loss did not improve from 0.58854
100/100 [=====] - 88s 872ms/step - loss: 1.3734 - dice_soft:
0.6567 - dice_crossentropy: 0.5042 - val_loss: 1.0099 - val_dice_soft: 0.7475 - val_d
ice_crossentropy: 0.3859 - lr: 1.0000e-05
Epoch 188/500
100/100 [=====] - ETA: 0s - loss: 1.3616 - dice_soft: 0.6596
- dice_crossentropy: 0.4979
Epoch 00188: val_loss did not improve from 0.58854
100/100 [=====] - 89s 869ms/step - loss: 1.3616 - dice_soft:
0.6596 - dice_crossentropy: 0.4979 - val_loss: 2.6343 - val_dice_soft: 0.3414 - val_d
ice_crossentropy: 0.6783 - lr: 1.0000e-05
Epoch 189/500
100/100 [=====] - ETA: 0s - loss: 1.2765 - dice_soft: 0.6809
- dice_crossentropy: 0.4862
Epoch 00189: val_loss did not improve from 0.58854
100/100 [=====] - 92s 903ms/step - loss: 1.2765 - dice_soft:
0.6809 - dice_crossentropy: 0.4862 - val_loss: 0.8871 - val_dice_soft: 0.7782 - val_d
ice_crossentropy: 0.5443 - lr: 1.0000e-05
Epoch 190/500
100/100 [=====] - ETA: 0s - loss: 1.4246 - dice_soft: 0.6439
- dice_crossentropy: 0.5112
Epoch 00190: val_loss did not improve from 0.58854
100/100 [=====] - 92s 884ms/step - loss: 1.4246 - dice_soft:
0.6439 - dice_crossentropy: 0.5112 - val_loss: 0.8647 - val_dice_soft: 0.7838 - val_d
ice_crossentropy: 0.3290 - lr: 1.0000e-05
Epoch 191/500
100/100 [=====] - ETA: 0s - loss: 1.2875 - dice_soft: 0.6781
- dice_crossentropy: 0.4828
Epoch 00191: val_loss did not improve from 0.58854
100/100 [=====] - 91s 909ms/step - loss: 1.2875 - dice_soft:
0.6781 - dice_crossentropy: 0.4828 - val_loss: 0.8926 - val_dice_soft: 0.7769 - val_d
ice_crossentropy: 0.3827 - lr: 1.0000e-05
Epoch 192/500
100/100 [=====] - ETA: 0s - loss: 1.3692 - dice_soft: 0.6577
- dice_crossentropy: 0.5002
Epoch 00192: val_loss did not improve from 0.58854
100/100 [=====] - 89s 880ms/step - loss: 1.3692 - dice_soft:
0.6577 - dice_crossentropy: 0.5002 - val_loss: 1.8214 - val_dice_soft: 0.5447 - val_d
ice_crossentropy: 0.6419 - lr: 1.0000e-05
Epoch 193/500
100/100 [=====] - ETA: 0s - loss: 1.3623 - dice_soft: 0.6594
- dice_crossentropy: 0.5064
Epoch 00193: val_loss did not improve from 0.58854
100/100 [=====] - 91s 876ms/step - loss: 1.3623 - dice_soft:
0.6594 - dice_crossentropy: 0.5064 - val_loss: 0.6809 - val_dice_soft: 0.8298 - val_d
ice_crossentropy: 0.6094 - lr: 1.0000e-05
Epoch 194/500
100/100 [=====] - ETA: 0s - loss: 1.3816 - dice_soft: 0.6546
- dice_crossentropy: 0.4985
Epoch 00194: val_loss did not improve from 0.58854
100/100 [=====] - 93s 919ms/step - loss: 1.3816 - dice_soft:
0.6546 - dice_crossentropy: 0.4985 - val_loss: 2.5155 - val_dice_soft: 0.3711 - val_d
ice_crossentropy: 0.6875 - lr: 1.0000e-05
Epoch 195/500
100/100 [=====] - ETA: 0s - loss: 1.4392 - dice_soft: 0.6402

- dice_crossentropy: 0.5100
Epoch 00195: val_loss did not improve from 0.58854
100/100 [=====] - 88s 876ms/step - loss: 1.4392 - dice_soft:
0.6402 - dice_crossentropy: 0.5100 - val_loss: 1.7582 - val_dice_soft: 0.5604 - val_d
ice_crossentropy: 0.5501 - lr: 1.0000e-05
Epoch 196/500
100/100 [=====] - ETA: 0s - loss: 1.3721 - dice_soft: 0.6570
- dice_crossentropy: 0.5133
Epoch 00196: val_loss did not improve from 0.58854
100/100 [=====] - 87s 862ms/step - loss: 1.3721 - dice_soft:
0.6570 - dice_crossentropy: 0.5133 - val_loss: 1.8938 - val_dice_soft: 0.5266 - val_d
ice_crossentropy: 0.7038 - lr: 1.0000e-05
Epoch 197/500
100/100 [=====] - ETA: 0s - loss: 1.4124 - dice_soft: 0.6469
- dice_crossentropy: 0.5057
Epoch 00197: val_loss did not improve from 0.58854
100/100 [=====] - 89s 882ms/step - loss: 1.4124 - dice_soft:
0.6469 - dice_crossentropy: 0.5057 - val_loss: 1.1270 - val_dice_soft: 0.7182 - val_d
ice_crossentropy: 0.5536 - lr: 1.0000e-05
Epoch 198/500
100/100 [=====] - ETA: 0s - loss: 1.3059 - dice_soft: 0.6735
- dice_crossentropy: 0.4852
Epoch 00198: val_loss did not improve from 0.58854
100/100 [=====] - 90s 865ms/step - loss: 1.3059 - dice_soft:
0.6735 - dice_crossentropy: 0.4852 - val_loss: 1.8630 - val_dice_soft: 0.5343 - val_d
ice_crossentropy: 0.5679 - lr: 1.0000e-05
Epoch 199/500
100/100 [=====] - ETA: 0s - loss: 1.3451 - dice_soft: 0.6637
- dice_crossentropy: 0.4825
Epoch 00199: val_loss did not improve from 0.58854
100/100 [=====] - 91s 888ms/step - loss: 1.3451 - dice_soft:
0.6637 - dice_crossentropy: 0.4825 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7500 - lr: 1.0000e-05
Epoch 200/500
100/100 [=====] - ETA: 0s - loss: 1.2962 - dice_soft: 0.6759
- dice_crossentropy: 0.4913
Epoch 00200: val_loss did not improve from 0.58854
100/100 [=====] - 92s 906ms/step - loss: 1.2962 - dice_soft:
0.6759 - dice_crossentropy: 0.4913 - val_loss: 2.0526 - val_dice_soft: 0.4869 - val_d
ice_crossentropy: 0.7523 - lr: 1.0000e-05
Epoch 201/500
100/100 [=====] - ETA: 0s - loss: 1.3783 - dice_soft: 0.6554
- dice_crossentropy: 0.4940
Epoch 00201: val_loss did not improve from 0.58854
100/100 [=====] - 88s 875ms/step - loss: 1.3783 - dice_soft:
0.6554 - dice_crossentropy: 0.4940 - val_loss: 2.9738 - val_dice_soft: 0.2566 - val_d
ice_crossentropy: 0.7455 - lr: 1.0000e-05
Epoch 202/500
100/100 [=====] - ETA: 0s - loss: 1.3858 - dice_soft: 0.6536
- dice_crossentropy: 0.4961
Epoch 00202: val_loss did not improve from 0.58854
100/100 [=====] - 89s 864ms/step - loss: 1.3858 - dice_soft:
0.6536 - dice_crossentropy: 0.4961 - val_loss: 1.8192 - val_dice_soft: 0.5452 - val_d
ice_crossentropy: 0.6440 - lr: 1.0000e-05
Epoch 203/500
100/100 [=====] - ETA: 0s - loss: 1.2615 - dice_soft: 0.6846
- dice_crossentropy: 0.4689
Epoch 00203: val_loss did not improve from 0.58854
100/100 [=====] - 92s 893ms/step - loss: 1.2615 - dice_soft:
0.6846 - dice_crossentropy: 0.4689 - val_loss: 0.6473 - val_dice_soft: 0.8382 - val_d
ice_crossentropy: 0.5774 - lr: 1.0000e-05
Epoch 204/500
100/100 [=====] - ETA: 0s - loss: 1.3194 - dice_soft: 0.6701
- dice_crossentropy: 0.4881
Epoch 00204: val_loss did not improve from 0.58854
100/100 [=====] - 87s 872ms/step - loss: 1.3194 - dice_soft:

0.6701 - dice_crossentropy: 0.4881 - val_loss: 2.1584 - val_dice_soft: 0.4604 - val_dice_crossentropy: 0.7020 - lr: 1.0000e-05
Epoch 205/500
100/100 [=====] - ETA: 0s - loss: 1.3735 - dice_soft: 0.6566
- dice_crossentropy: 0.4986
Epoch 00205: val_loss did not improve from 0.58854
100/100 [=====] - 90s 902ms/step - loss: 1.3735 - dice_soft:
0.6566 - dice_crossentropy: 0.4986 - val_loss: 0.6395 - val_dice_soft: 0.8401 - val_dice_crossentropy: 0.5275 - lr: 1.0000e-05
Epoch 206/500
100/100 [=====] - ETA: 0s - loss: 1.2631 - dice_soft: 0.6842
- dice_crossentropy: 0.4826
Epoch 00206: val_loss did not improve from 0.58854
100/100 [=====] - 90s 856ms/step - loss: 1.2631 - dice_soft:
0.6842 - dice_crossentropy: 0.4826 - val_loss: 1.6006 - val_dice_soft: 0.5999 - val_dice_crossentropy: 0.5325 - lr: 1.0000e-05
Epoch 207/500
100/100 [=====] - ETA: 0s - loss: 1.3309 - dice_soft: 0.6673
- dice_crossentropy: 0.4929
Epoch 00207: val_loss did not improve from 0.58854
100/100 [=====] - 89s 870ms/step - loss: 1.3309 - dice_soft:
0.6673 - dice_crossentropy: 0.4929 - val_loss: 0.6326 - val_dice_soft: 0.8419 - val_dice_crossentropy: 0.5641 - lr: 1.0000e-05
Epoch 208/500
100/100 [=====] - ETA: 0s - loss: 1.2683 - dice_soft: 0.6829
- dice_crossentropy: 0.4796
Epoch 00208: val_loss did not improve from 0.58854
100/100 [=====] - 90s 881ms/step - loss: 1.2683 - dice_soft:
0.6829 - dice_crossentropy: 0.4796 - val_loss: 1.8043 - val_dice_soft: 0.5489 - val_dice_crossentropy: 0.5398 - lr: 1.0000e-05
Epoch 209/500
100/100 [=====] - ETA: 0s - loss: 1.3932 - dice_soft: 0.6517
- dice_crossentropy: 0.5093
Epoch 00209: val_loss did not improve from 0.58854
100/100 [=====] - 88s 867ms/step - loss: 1.3932 - dice_soft:
0.6517 - dice_crossentropy: 0.5093 - val_loss: 0.7456 - val_dice_soft: 0.8136 - val_dice_crossentropy: 0.5188 - lr: 1.0000e-05
Epoch 210/500
100/100 [=====] - ETA: 0s - loss: 1.2455 - dice_soft: 0.6886
- dice_crossentropy: 0.4836
Epoch 00210: val_loss did not improve from 0.58854
100/100 [=====] - 89s 875ms/step - loss: 1.2455 - dice_soft:
0.6886 - dice_crossentropy: 0.4836 - val_loss: 2.8375 - val_dice_soft: 0.2906 - val_dice_crossentropy: 0.7211 - lr: 1.0000e-05
Epoch 211/500
100/100 [=====] - ETA: 0s - loss: 1.4010 - dice_soft: 0.6498
- dice_crossentropy: 0.5062
Epoch 00211: val_loss did not improve from 0.58854
100/100 [=====] - 89s 874ms/step - loss: 1.4010 - dice_soft:
0.6498 - dice_crossentropy: 0.5062 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_dice_crossentropy: 0.7500 - lr: 1.0000e-05
Epoch 212/500
100/100 [=====] - ETA: 0s - loss: 1.5067 - dice_soft: 0.6233
- dice_crossentropy: 0.5159
Epoch 00212: val_loss did not improve from 0.58854
100/100 [=====] - 89s 869ms/step - loss: 1.5067 - dice_soft:
0.6233 - dice_crossentropy: 0.5159 - val_loss: 0.6561 - val_dice_soft: 0.8360 - val_dice_crossentropy: 0.6303 - lr: 1.0000e-05
Epoch 213/500
100/100 [=====] - ETA: 0s - loss: 1.3991 - dice_soft: 0.6502
- dice_crossentropy: 0.4963
Epoch 00213: val_loss did not improve from 0.58854
100/100 [=====] - 89s 894ms/step - loss: 1.3991 - dice_soft:
0.6502 - dice_crossentropy: 0.4963 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_dice_crossentropy: 0.7500 - lr: 1.0000e-05

100/100 [=====] - ETA: 0s - loss: 1.3483 - dice_soft: 0.6629
- dice_crossentropy: 0.4880
Epoch 00214: val_loss did not improve from 0.58854
100/100 [=====] - 92s 901ms/step - loss: 1.3483 - dice_soft:
0.6629 - dice_crossentropy: 0.4880 - val_loss: 1.7553 - val_dice_soft: 0.5612 - val_d
ice_crossentropy: 0.6413 - lr: 1.0000e-05
Epoch 215/500
100/100 [=====] - ETA: 0s - loss: 1.3418 - dice_soft: 0.6645
- dice_crossentropy: 0.4959
Epoch 00215: val_loss did not improve from 0.58854
100/100 [=====] - 92s 869ms/step - loss: 1.3418 - dice_soft:
0.6645 - dice_crossentropy: 0.4959 - val_loss: 0.9637 - val_dice_soft: 0.7591 - val_d
ice_crossentropy: 0.5000 - lr: 1.0000e-05
Epoch 216/500
100/100 [=====] - ETA: 0s - loss: 1.3694 - dice_soft: 0.6577
- dice_crossentropy: 0.4955
Epoch 00216: val_loss did not improve from 0.58854
100/100 [=====] - 88s 865ms/step - loss: 1.3694 - dice_soft:
0.6577 - dice_crossentropy: 0.4955 - val_loss: 1.6705 - val_dice_soft: 0.5824 - val_d
ice_crossentropy: 0.4729 - lr: 1.0000e-05
Epoch 217/500
100/100 [=====] - ETA: 0s - loss: 1.3819 - dice_soft: 0.6545
- dice_crossentropy: 0.5161
Epoch 00217: val_loss did not improve from 0.58854
100/100 [=====] - 91s 869ms/step - loss: 1.3819 - dice_soft:
0.6545 - dice_crossentropy: 0.5161 - val_loss: 1.4673 - val_dice_soft: 0.6332 - val_d
ice_crossentropy: 0.5571 - lr: 1.0000e-05
Epoch 218/500
100/100 [=====] - ETA: 0s - loss: 1.2817 - dice_soft: 0.6796
- dice_crossentropy: 0.4779
Epoch 00218: val_loss did not improve from 0.58854
100/100 [=====] - 91s 909ms/step - loss: 1.2817 - dice_soft:
0.6796 - dice_crossentropy: 0.4779 - val_loss: 0.6443 - val_dice_soft: 0.8389 - val_d
ice_crossentropy: 0.5752 - lr: 1.0000e-05
Epoch 219/500
100/100 [=====] - ETA: 0s - loss: 1.4180 - dice_soft: 0.6455
- dice_crossentropy: 0.5277
Epoch 00219: val_loss did not improve from 0.58854
100/100 [=====] - 89s 890ms/step - loss: 1.4180 - dice_soft:
0.6455 - dice_crossentropy: 0.5277 - val_loss: 2.5644 - val_dice_soft: 0.3589 - val_d
ice_crossentropy: 0.6698 - lr: 1.0000e-05
Epoch 220/500
100/100 [=====] - ETA: 0s - loss: 1.3225 - dice_soft: 0.6694
- dice_crossentropy: 0.4974
Epoch 00220: val_loss did not improve from 0.58854
100/100 [=====] - 93s 897ms/step - loss: 1.3225 - dice_soft:
0.6694 - dice_crossentropy: 0.4974 - val_loss: 2.1367 - val_dice_soft: 0.4658 - val_d
ice_crossentropy: 0.5684 - lr: 1.0000e-05
Epoch 221/500
100/100 [=====] - ETA: 0s - loss: 1.2551 - dice_soft: 0.6862
- dice_crossentropy: 0.4766
Epoch 00221: val_loss did not improve from 0.58854
100/100 [=====] - 88s 878ms/step - loss: 1.2551 - dice_soft:
0.6862 - dice_crossentropy: 0.4766 - val_loss: 2.4483 - val_dice_soft: 0.3879 - val_d
ice_crossentropy: 0.6223 - lr: 1.0000e-05
Epoch 222/500
100/100 [=====] - ETA: 0s - loss: 1.3265 - dice_soft: 0.6684
- dice_crossentropy: 0.4840
Epoch 00222: val_loss did not improve from 0.58854
100/100 [=====] - 90s 869ms/step - loss: 1.3265 - dice_soft:
0.6684 - dice_crossentropy: 0.4840 - val_loss: 1.4408 - val_dice_soft: 0.6398 - val_d
ice_crossentropy: 0.6153 - lr: 1.0000e-05
Epoch 223/500
100/100 [=====] - ETA: 0s - loss: 1.2916 - dice_soft: 0.6771
- dice_crossentropy: 0.4895
Epoch 00223: val_loss did not improve from 0.58854

```
100/100 [=====] - 90s 878ms/step - loss: 1.2916 - dice_soft:
0.6771 - dice_crossentropy: 0.4895 - val_loss: 1.8065 - val_dice_soft: 0.5484 - val_d
ice_crossentropy: 0.6553 - lr: 1.0000e-05
Epoch 224/500
100/100 [=====] - ETA: 0s - loss: 1.3251 - dice_soft: 0.6687
- dice_crossentropy: 0.4948
Epoch 00224: val_loss did not improve from 0.58854
100/100 [=====] - 91s 907ms/step - loss: 1.3251 - dice_soft:
0.6687 - dice_crossentropy: 0.4948 - val_loss: 0.9741 - val_dice_soft: 0.7565 - val_d
ice_crossentropy: 0.3950 - lr: 1.0000e-05
Epoch 225/500
100/100 [=====] - ETA: 0s - loss: 1.3847 - dice_soft: 0.6538
- dice_crossentropy: 0.4968
Epoch 00225: val_loss did not improve from 0.58854
100/100 [=====] - 91s 888ms/step - loss: 1.3847 - dice_soft:
0.6538 - dice_crossentropy: 0.4968 - val_loss: 0.6787 - val_dice_soft: 0.8303 - val_d
ice_crossentropy: 0.5236 - lr: 1.0000e-05
Epoch 226/500
100/100 [=====] - ETA: 0s - loss: 1.3153 - dice_soft: 0.6712
- dice_crossentropy: 0.4806
Epoch 00226: val_loss did not improve from 0.58854
100/100 [=====] - 91s 886ms/step - loss: 1.3153 - dice_soft:
0.6712 - dice_crossentropy: 0.4806 - val_loss: 0.7201 - val_dice_soft: 0.8200 - val_d
ice_crossentropy: 0.6927 - lr: 1.0000e-05
Epoch 227/500
100/100 [=====] - ETA: 0s - loss: 1.3006 - dice_soft: 0.6749
- dice_crossentropy: 0.4927
Epoch 00227: val_loss did not improve from 0.58854
100/100 [=====] - 93s 934ms/step - loss: 1.3006 - dice_soft:
0.6749 - dice_crossentropy: 0.4927 - val_loss: 0.6657 - val_dice_soft: 0.8336 - val_d
ice_crossentropy: 0.5675 - lr: 1.0000e-05
Epoch 228/500
100/100 [=====] - ETA: 0s - loss: 1.2373 - dice_soft: 0.6907
- dice_crossentropy: 0.4778
Epoch 00228: val_loss did not improve from 0.58854
100/100 [=====] - 90s 875ms/step - loss: 1.2373 - dice_soft:
0.6907 - dice_crossentropy: 0.4778 - val_loss: 1.6939 - val_dice_soft: 0.5765 - val_d
ice_crossentropy: 0.5592 - lr: 1.0000e-05
Epoch 229/500
100/100 [=====] - ETA: 0s - loss: 1.2978 - dice_soft: 0.6756
- dice_crossentropy: 0.4774
Epoch 00229: val_loss did not improve from 0.58854
100/100 [=====] - 89s 890ms/step - loss: 1.2978 - dice_soft:
0.6756 - dice_crossentropy: 0.4774 - val_loss: 0.6513 - val_dice_soft: 0.8372 - val_d
ice_crossentropy: 0.5715 - lr: 1.0000e-05
Epoch 230/500
100/100 [=====] - ETA: 0s - loss: 1.3507 - dice_soft: 0.6623
- dice_crossentropy: 0.4958
Epoch 00230: val_loss did not improve from 0.58854
100/100 [=====] - 89s 872ms/step - loss: 1.3507 - dice_soft:
0.6623 - dice_crossentropy: 0.4958 - val_loss: 0.6207 - val_dice_soft: 0.8448 - val_d
ice_crossentropy: 0.5851 - lr: 1.0000e-05
Epoch 231/500
100/100 [=====] - ETA: 0s - loss: 1.3731 - dice_soft: 0.6567
- dice_crossentropy: 0.5114
Epoch 00231: val_loss did not improve from 0.58854
100/100 [=====] - 96s 923ms/step - loss: 1.3731 - dice_soft:
0.6567 - dice_crossentropy: 0.5114 - val_loss: 1.2858 - val_dice_soft: 0.6785 - val_d
ice_crossentropy: 0.4285 - lr: 1.0000e-05
Epoch 232/500
100/100 [=====] - ETA: 0s - loss: 1.3726 - dice_soft: 0.6568
- dice_crossentropy: 0.5005
Epoch 00232: val_loss did not improve from 0.58854
100/100 [=====] - 91s 884ms/step - loss: 1.3726 - dice_soft:
0.6568 - dice_crossentropy: 0.5005 - val_loss: 1.1286 - val_dice_soft: 0.7178 - val_d
ice_crossentropy: 0.5175 - lr: 1.0000e-05
```

Epoch 233/500
100/100 [=====] - ETA: 0s - loss: 1.3835 - dice_soft: 0.6541
- dice_crossentropy: 0.4903
Epoch 00233: val_loss did not improve from 0.58854
100/100 [=====] - 89s 883ms/step - loss: 1.3835 - dice_soft:
0.6541 - dice_crossentropy: 0.4903 - val_loss: 0.6356 - val_dice_soft: 0.8411 - val_d
ice_crossentropy: 0.6001 - lr: 1.0000e-05
Epoch 234/500
100/100 [=====] - ETA: 0s - loss: 1.2573 - dice_soft: 0.6857
- dice_crossentropy: 0.4742
Epoch 00234: val_loss did not improve from 0.58854
100/100 [=====] - 90s 883ms/step - loss: 1.2573 - dice_soft:
0.6857 - dice_crossentropy: 0.4742 - val_loss: 2.6026 - val_dice_soft: 0.3494 - val_d
ice_crossentropy: 0.6582 - lr: 1.0000e-05
Epoch 235/500
100/100 [=====] - ETA: 0s - loss: 1.2416 - dice_soft: 0.6896
- dice_crossentropy: 0.4667
Epoch 00235: val_loss did not improve from 0.58854
100/100 [=====] - 90s 890ms/step - loss: 1.2416 - dice_soft:
0.6896 - dice_crossentropy: 0.4667 - val_loss: 0.7705 - val_dice_soft: 0.8074 - val_d
ice_crossentropy: 0.5873 - lr: 1.0000e-05
Epoch 236/500
100/100 [=====] - ETA: 0s - loss: 1.3465 - dice_soft: 0.6634
- dice_crossentropy: 0.4990
Epoch 00236: val_loss did not improve from 0.58854
100/100 [=====] - 89s 865ms/step - loss: 1.3465 - dice_soft:
0.6634 - dice_crossentropy: 0.4990 - val_loss: 1.1834 - val_dice_soft: 0.7042 - val_d
ice_crossentropy: 0.5892 - lr: 1.0000e-05
Epoch 237/500
100/100 [=====] - ETA: 0s - loss: 1.3926 - dice_soft: 0.6518
- dice_crossentropy: 0.4899
Epoch 00237: val_loss did not improve from 0.58854
100/100 [=====] - 92s 881ms/step - loss: 1.3926 - dice_soft:
0.6518 - dice_crossentropy: 0.4899 - val_loss: 1.8520 - val_dice_soft: 0.5370 - val_d
ice_crossentropy: 0.7271 - lr: 1.0000e-05
Epoch 238/500
100/100 [=====] - ETA: 0s - loss: 1.2290 - dice_soft: 0.6927
- dice_crossentropy: 0.4634
Epoch 00238: val_loss did not improve from 0.58854
100/100 [=====] - 89s 866ms/step - loss: 1.2290 - dice_soft:
0.6927 - dice_crossentropy: 0.4634 - val_loss: 2.8015 - val_dice_soft: 0.2996 - val_d
ice_crossentropy: 0.7425 - lr: 1.0000e-05
Epoch 239/500
100/100 [=====] - ETA: 0s - loss: 1.3437 - dice_soft: 0.6641
- dice_crossentropy: 0.4971
Epoch 00239: val_loss did not improve from 0.58854
100/100 [=====] - 88s 876ms/step - loss: 1.3437 - dice_soft:
0.6641 - dice_crossentropy: 0.4971 - val_loss: 0.6835 - val_dice_soft: 0.8291 - val_d
ice_crossentropy: 0.6721 - lr: 1.0000e-05
Epoch 240/500
100/100 [=====] - ETA: 0s - loss: 1.5253 - dice_soft: 0.6187
- dice_crossentropy: 0.5262
Epoch 00240: val_loss did not improve from 0.58854
100/100 [=====] - 90s 899ms/step - loss: 1.5253 - dice_soft:
0.6187 - dice_crossentropy: 0.5262 - val_loss: 0.6049 - val_dice_soft: 0.8488 - val_d
ice_crossentropy: 0.5273 - lr: 1.0000e-05
Epoch 241/500
100/100 [=====] - ETA: 0s - loss: 1.2864 - dice_soft: 0.6784
- dice_crossentropy: 0.4767
Epoch 00241: val_loss did not improve from 0.58854
100/100 [=====] - 89s 866ms/step - loss: 1.2864 - dice_soft:
0.6784 - dice_crossentropy: 0.4767 - val_loss: 0.6481 - val_dice_soft: 0.8380 - val_d
ice_crossentropy: 0.5029 - lr: 1.0000e-05
Epoch 242/500
100/100 [=====] - ETA: 0s - loss: 1.3742 - dice_soft: 0.6565
- dice_crossentropy: 0.4872

Epoch 00242: val_loss did not improve from 0.58854
100/100 [=====] - 92s 897ms/step - loss: 1.3742 - dice_soft:
0.6565 - dice_crossentropy: 0.4872 - val_loss: 0.6860 - val_dice_soft: 0.8285 - val_d
ice_crossentropy: 0.4847 - lr: 1.0000e-05
Epoch 243/500
100/100 [=====] - ETA: 0s - loss: 1.3366 - dice_soft: 0.6659
- dice_crossentropy: 0.4925
Epoch 00243: val_loss did not improve from 0.58854
100/100 [=====] - 92s 896ms/step - loss: 1.3366 - dice_soft:
0.6659 - dice_crossentropy: 0.4925 - val_loss: 1.8263 - val_dice_soft: 0.5434 - val_d
ice_crossentropy: 0.7145 - lr: 1.0000e-05
Epoch 244/500
100/100 [=====] - ETA: 0s - loss: 1.3020 - dice_soft: 0.6745
- dice_crossentropy: 0.5017
Epoch 00244: val_loss did not improve from 0.58854
100/100 [=====] - 91s 869ms/step - loss: 1.3020 - dice_soft:
0.6745 - dice_crossentropy: 0.5017 - val_loss: 1.7958 - val_dice_soft: 0.5511 - val_d
ice_crossentropy: 0.6284 - lr: 1.0000e-05
Epoch 245/500
100/100 [=====] - ETA: 0s - loss: 1.2663 - dice_soft: 0.6834
- dice_crossentropy: 0.4745
Epoch 00245: val_loss did not improve from 0.58854
100/100 [=====] - 91s 888ms/step - loss: 1.2663 - dice_soft:
0.6834 - dice_crossentropy: 0.4745 - val_loss: 0.6926 - val_dice_soft: 0.8269 - val_d
ice_crossentropy: 0.4274 - lr: 1.0000e-05
Epoch 246/500
100/100 [=====] - ETA: 0s - loss: 1.4180 - dice_soft: 0.6455
- dice_crossentropy: 0.5101
Epoch 00246: val_loss did not improve from 0.58854
100/100 [=====] - 90s 875ms/step - loss: 1.4180 - dice_soft:
0.6455 - dice_crossentropy: 0.5101 - val_loss: 1.3666 - val_dice_soft: 0.6583 - val_d
ice_crossentropy: 0.5305 - lr: 1.0000e-05
Epoch 247/500
100/100 [=====] - ETA: 0s - loss: 1.4359 - dice_soft: 0.6410
- dice_crossentropy: 0.5157
Epoch 00247: val_loss did not improve from 0.58854
100/100 [=====] - 90s 883ms/step - loss: 1.4359 - dice_soft:
0.6410 - dice_crossentropy: 0.5157 - val_loss: 1.8277 - val_dice_soft: 0.5431 - val_d
ice_crossentropy: 0.6575 - lr: 1.0000e-05
Epoch 248/500
100/100 [=====] - ETA: 0s - loss: 1.3503 - dice_soft: 0.6624
- dice_crossentropy: 0.4894
Epoch 00248: val_loss did not improve from 0.58854
100/100 [=====] - 90s 904ms/step - loss: 1.3503 - dice_soft:
0.6624 - dice_crossentropy: 0.4894 - val_loss: 2.8850 - val_dice_soft: 0.2788 - val_d
ice_crossentropy: 0.7662 - lr: 1.0000e-05
Epoch 249/500
100/100 [=====] - ETA: 0s - loss: 1.2873 - dice_soft: 0.6782
- dice_crossentropy: 0.4850
Epoch 00249: val_loss did not improve from 0.58854
100/100 [=====] - 88s 876ms/step - loss: 1.2873 - dice_soft:
0.6782 - dice_crossentropy: 0.4850 - val_loss: 0.6623 - val_dice_soft: 0.8344 - val_d
ice_crossentropy: 0.6022 - lr: 1.0000e-05
Epoch 250/500
100/100 [=====] - ETA: 0s - loss: 1.3724 - dice_soft: 0.6569
- dice_crossentropy: 0.4950
Epoch 00250: val_loss did not improve from 0.58854
100/100 [=====] - 90s 905ms/step - loss: 1.3724 - dice_soft:
0.6569 - dice_crossentropy: 0.4950 - val_loss: 0.6844 - val_dice_soft: 0.8289 - val_d
ice_crossentropy: 0.6275 - lr: 1.0000e-05
Epoch 251/500
100/100 [=====] - ETA: 0s - loss: 1.3074 - dice_soft: 0.6732
- dice_crossentropy: 0.4858
Epoch 00251: val_loss did not improve from 0.58854
100/100 [=====] - 89s 895ms/step - loss: 1.3074 - dice_soft:
dice_crossentropy: 0.4858 - val_loss: 0.9389 - val_dice_soft: 0.7653 - val_d

ice_crossentropy: 0.2975 - lr: 1.0000e-05
Epoch 252/500
100/100 [=====] - ETA: 0s - loss: 1.3173 - dice_soft: 0.6707
- dice_crossentropy: 0.4822
Epoch 00252: val_loss did not improve from 0.58854
100/100 [=====] - 89s 889ms/step - loss: 1.3173 - dice_soft:
0.6707 - dice_crossentropy: 0.4822 - val_loss: 0.7615 - val_dice_soft: 0.8096 - val_d
ice_crossentropy: 0.6188 - lr: 1.0000e-05
Epoch 253/500
100/100 [=====] - ETA: 0s - loss: 1.4342 - dice_soft: 0.6414
- dice_crossentropy: 0.5127
Epoch 00253: val_loss did not improve from 0.58854
100/100 [=====] - 92s 909ms/step - loss: 1.4342 - dice_soft:
0.6414 - dice_crossentropy: 0.5127 - val_loss: 1.8343 - val_dice_soft: 0.5414 - val_d
ice_crossentropy: 0.7118 - lr: 1.0000e-05
Epoch 254/500
100/100 [=====] - ETA: 0s - loss: 1.2776 - dice_soft: 0.6806
- dice_crossentropy: 0.4752
Epoch 00254: val_loss did not improve from 0.58854
100/100 [=====] - 88s 858ms/step - loss: 1.2776 - dice_soft:
0.6806 - dice_crossentropy: 0.4752 - val_loss: 1.8271 - val_dice_soft: 0.5432 - val_d
ice_crossentropy: 0.6776 - lr: 1.0000e-05
Epoch 255/500
100/100 [=====] - ETA: 0s - loss: 1.3225 - dice_soft: 0.6694
- dice_crossentropy: 0.4745
Epoch 00255: val_loss did not improve from 0.58854
100/100 [=====] - 89s 872ms/step - loss: 1.3225 - dice_soft:
0.6694 - dice_crossentropy: 0.4745 - val_loss: 1.3069 - val_dice_soft: 0.6733 - val_d
ice_crossentropy: 0.5472 - lr: 1.0000e-05
Epoch 256/500
100/100 [=====] - ETA: 0s - loss: 1.3969 - dice_soft: 0.6508
- dice_crossentropy: 0.5080
Epoch 00256: val_loss did not improve from 0.58854
100/100 [=====] - 89s 865ms/step - loss: 1.3969 - dice_soft:
0.6508 - dice_crossentropy: 0.5080 - val_loss: 0.6678 - val_dice_soft: 0.8330 - val_d
ice_crossentropy: 0.5000 - lr: 1.0000e-05
Epoch 257/500
100/100 [=====] - ETA: 0s - loss: 1.3536 - dice_soft: 0.6616
- dice_crossentropy: 0.4921
Epoch 00257: val_loss did not improve from 0.58854
100/100 [=====] - 88s 854ms/step - loss: 1.3536 - dice_soft:
0.6616 - dice_crossentropy: 0.4921 - val_loss: 1.8297 - val_dice_soft: 0.5426 - val_d
ice_crossentropy: 0.6652 - lr: 1.0000e-05
Epoch 258/500
100/100 [=====] - ETA: 0s - loss: 1.3217 - dice_soft: 0.6696
- dice_crossentropy: 0.4833
Epoch 00258: val_loss did not improve from 0.58854
100/100 [=====] - 91s 908ms/step - loss: 1.3217 - dice_soft:
0.6696 - dice_crossentropy: 0.4833 - val_loss: 2.1705 - val_dice_soft: 0.4574 - val_d
ice_crossentropy: 0.5759 - lr: 1.0000e-05
Epoch 259/500
100/100 [=====] - ETA: 0s - loss: 1.2697 - dice_soft: 0.6826
- dice_crossentropy: 0.4808
Epoch 00259: val_loss did not improve from 0.58854
100/100 [=====] - 91s 882ms/step - loss: 1.2697 - dice_soft:
0.6826 - dice_crossentropy: 0.4808 - val_loss: 1.8566 - val_dice_soft: 0.5358 - val_d
ice_crossentropy: 0.6138 - lr: 1.0000e-05
Epoch 260/500
100/100 [=====] - ETA: 0s - loss: 1.2763 - dice_soft: 0.6809
- dice_crossentropy: 0.4744
Epoch 00260: val_loss did not improve from 0.58854
100/100 [=====] - 92s 876ms/step - loss: 1.2763 - dice_soft:
0.6809 - dice_crossentropy: 0.4744 - val_loss: 0.7709 - val_dice_soft: 0.8073 - val_d
ice_crossentropy: 0.3123 - lr: 1.0000e-05
Epoch 261/500
100/100 [=====] - ETA: 0s - loss: 1.4095 - dice_soft: 0.6476

- dice_crossentropy: 0.5009
Epoch 00261: val_loss did not improve from 0.58854
100/100 [=====] - 88s 867ms/step - loss: 1.4095 - dice_soft:
0.6476 - dice_crossentropy: 0.5009 - val_loss: 1.3738 - val_dice_soft: 0.6566 - val_d
ice_crossentropy: 0.6071 - lr: 1.0000e-05
Epoch 262/500
100/100 [=====] - ETA: 0s - loss: 1.3652 - dice_soft: 0.6587
- dice_crossentropy: 0.4885
Epoch 00262: val_loss did not improve from 0.58854
100/100 [=====] - 91s 882ms/step - loss: 1.3652 - dice_soft:
0.6587 - dice_crossentropy: 0.4885 - val_loss: 0.7288 - val_dice_soft: 0.8178 - val_d
ice_crossentropy: 0.6210 - lr: 1.0000e-05
Epoch 263/500
100/100 [=====] - ETA: 0s - loss: 1.2726 - dice_soft: 0.6819
- dice_crossentropy: 0.4764
Epoch 00263: val_loss did not improve from 0.58854
100/100 [=====] - 87s 872ms/step - loss: 1.2726 - dice_soft:
0.6819 - dice_crossentropy: 0.4764 - val_loss: 3.0001 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7618 - lr: 1.0000e-05
Epoch 264/500
100/100 [=====] - ETA: 0s - loss: 1.4228 - dice_soft: 0.6443
- dice_crossentropy: 0.5055
Epoch 00264: val_loss did not improve from 0.58854
100/100 [=====] - 88s 880ms/step - loss: 1.4228 - dice_soft:
0.6443 - dice_crossentropy: 0.5055 - val_loss: 0.8893 - val_dice_soft: 0.7777 - val_d
ice_crossentropy: 0.5816 - lr: 1.0000e-05
Epoch 265/500
100/100 [=====] - ETA: 0s - loss: 1.2511 - dice_soft: 0.6872
- dice_crossentropy: 0.4636
Epoch 00265: val_loss did not improve from 0.58854
100/100 [=====] - 91s 909ms/step - loss: 1.2511 - dice_soft:
0.6872 - dice_crossentropy: 0.4636 - val_loss: 1.8994 - val_dice_soft: 0.5252 - val_d
ice_crossentropy: 0.5153 - lr: 1.0000e-05
Epoch 266/500
100/100 [=====] - ETA: 0s - loss: 1.4207 - dice_soft: 0.6448
- dice_crossentropy: 0.4987
Epoch 00266: val_loss did not improve from 0.58854
100/100 [=====] - 92s 892ms/step - loss: 1.4207 - dice_soft:
0.6448 - dice_crossentropy: 0.4987 - val_loss: 1.2482 - val_dice_soft: 0.6880 - val_d
ice_crossentropy: 0.7125 - lr: 1.0000e-05
Epoch 267/500
100/100 [=====] - ETA: 0s - loss: 1.2922 - dice_soft: 0.6769
- dice_crossentropy: 0.4745
Epoch 00267: val_loss did not improve from 0.58854
100/100 [=====] - 89s 869ms/step - loss: 1.2922 - dice_soft:
0.6769 - dice_crossentropy: 0.4745 - val_loss: 0.7772 - val_dice_soft: 0.8057 - val_d
ice_crossentropy: 0.5086 - lr: 1.0000e-05
Epoch 268/500
100/100 [=====] - ETA: 0s - loss: 1.3484 - dice_soft: 0.6629
- dice_crossentropy: 0.4925
Epoch 00268: val_loss did not improve from 0.58854
100/100 [=====] - 88s 882ms/step - loss: 1.3484 - dice_soft:
0.6629 - dice_crossentropy: 0.4925 - val_loss: 1.2499 - val_dice_soft: 0.6875 - val_d
ice_crossentropy: 0.5278 - lr: 1.0000e-05
Epoch 269/500
100/100 [=====] - ETA: 0s - loss: 1.3460 - dice_soft: 0.6635
- dice_crossentropy: 0.4802
Epoch 00269: val_loss did not improve from 0.58854
100/100 [=====] - 88s 865ms/step - loss: 1.3460 - dice_soft:
0.6635 - dice_crossentropy: 0.4802 - val_loss: 0.9980 - val_dice_soft: 0.7505 - val_d
ice_crossentropy: 0.5474 - lr: 1.0000e-05
Epoch 270/500
100/100 [=====] - ETA: 0s - loss: 1.3878 - dice_soft: 0.6530
- dice_crossentropy: 0.4951
Epoch 00270: val_loss did not improve from 0.58854
100/100 [=====] - 89s 883ms/step - loss: 1.3878 - dice_soft:

0.6530 - dice_crossentropy: 0.4951 - val_loss: 1.1363 - val_dice_soft: 0.7159 - val_dice_crossentropy: 0.4878 - lr: 1.0000e-05
Epoch 271/500
100/100 [=====] - ETA: 0s - loss: 1.3119 - dice_soft: 0.6720
- dice_crossentropy: 0.4859
Epoch 00271: val_loss did not improve from 0.58854
100/100 [=====] - 90s 885ms/step - loss: 1.3119 - dice_soft:
0.6720 - dice_crossentropy: 0.4859 - val_loss: 0.6685 - val_dice_soft: 0.8329 - val_dice_crossentropy: 0.4107 - lr: 1.0000e-05
Epoch 272/500
100/100 [=====] - ETA: 0s - loss: 1.3847 - dice_soft: 0.6538
- dice_crossentropy: 0.5029
Epoch 00272: val_loss did not improve from 0.58854
100/100 [=====] - 90s 871ms/step - loss: 1.3847 - dice_soft:
0.6538 - dice_crossentropy: 0.5029 - val_loss: 1.7992 - val_dice_soft: 0.5502 - val_dice_crossentropy: 0.6060 - lr: 1.0000e-05
Epoch 273/500
100/100 [=====] - ETA: 0s - loss: 1.3884 - dice_soft: 0.6529
- dice_crossentropy: 0.5034
Epoch 00273: val_loss did not improve from 0.58854
100/100 [=====] - 89s 868ms/step - loss: 1.3884 - dice_soft:
0.6529 - dice_crossentropy: 0.5034 - val_loss: 1.0474 - val_dice_soft: 0.7381 - val_dice_crossentropy: 0.5534 - lr: 1.0000e-05
Epoch 274/500
100/100 [=====] - ETA: 0s - loss: 1.2897 - dice_soft: 0.6776
- dice_crossentropy: 0.4793
Epoch 00274: val_loss did not improve from 0.58854
100/100 [=====] - 89s 877ms/step - loss: 1.2897 - dice_soft:
0.6776 - dice_crossentropy: 0.4793 - val_loss: 2.7657 - val_dice_soft: 0.3086 - val_dice_crossentropy: 0.7130 - lr: 1.0000e-05
Epoch 275/500
100/100 [=====] - ETA: 0s - loss: 1.3196 - dice_soft: 0.6701
- dice_crossentropy: 0.4844
Epoch 00275: val_loss did not improve from 0.58854
100/100 [=====] - 88s 883ms/step - loss: 1.3196 - dice_soft:
0.6701 - dice_crossentropy: 0.4844 - val_loss: 1.3524 - val_dice_soft: 0.6619 - val_dice_crossentropy: 0.6804 - lr: 1.0000e-05
Epoch 276/500
100/100 [=====] - ETA: 0s - loss: 1.3331 - dice_soft: 0.6667
- dice_crossentropy: 0.4980
Epoch 00276: val_loss did not improve from 0.58854
100/100 [=====] - 92s 916ms/step - loss: 1.3331 - dice_soft:
0.6667 - dice_crossentropy: 0.4980 - val_loss: 0.7016 - val_dice_soft: 0.8246 - val_dice_crossentropy: 0.4647 - lr: 1.0000e-05
Epoch 277/500
100/100 [=====] - ETA: 0s - loss: 1.2787 - dice_soft: 0.6803
- dice_crossentropy: 0.4747
Epoch 00277: val_loss did not improve from 0.58854
100/100 [=====] - 88s 859ms/step - loss: 1.2787 - dice_soft:
0.6803 - dice_crossentropy: 0.4747 - val_loss: 1.4399 - val_dice_soft: 0.6400 - val_dice_crossentropy: 0.5348 - lr: 1.0000e-05
Epoch 278/500
100/100 [=====] - ETA: 0s - loss: 1.2892 - dice_soft: 0.6777
- dice_crossentropy: 0.4849
Epoch 00278: val_loss did not improve from 0.58854
100/100 [=====] - 90s 890ms/step - loss: 1.2892 - dice_soft:
0.6777 - dice_crossentropy: 0.4849 - val_loss: 1.2888 - val_dice_soft: 0.6778 - val_dice_crossentropy: 0.5124 - lr: 1.0000e-05
Epoch 279/500
100/100 [=====] - ETA: 0s - loss: 1.4026 - dice_soft: 0.6494
- dice_crossentropy: 0.5066
Epoch 00279: val_loss did not improve from 0.58854
100/100 [=====] - 90s 888ms/step - loss: 1.4026 - dice_soft:
0.6494 - dice_crossentropy: 0.5066 - val_loss: 0.9306 - val_dice_soft: 0.7673 - val_dice_crossentropy: 0.4865 - lr: 1.0000e-05

```
100/100 [=====] - ETA: 0s - loss: 1.4615 - dice_soft: 0.6346
- dice_crossentropy: 0.5120
Epoch 00280: val_loss did not improve from 0.58854
100/100 [=====] - 89s 873ms/step - loss: 1.4615 - dice_soft:
0.6346 - dice_crossentropy: 0.5120 - val_loss: 0.7672 - val_dice_soft: 0.8082 - val_d
ice_crossentropy: 0.5612 - lr: 1.0000e-05
Epoch 281/500
100/100 [=====] - ETA: 0s - loss: 1.3367 - dice_soft: 0.6658
- dice_crossentropy: 0.4901
Epoch 00281: val_loss did not improve from 0.58854
100/100 [=====] - 90s 894ms/step - loss: 1.3367 - dice_soft:
0.6658 - dice_crossentropy: 0.4901 - val_loss: 1.9287 - val_dice_soft: 0.5178 - val_d
ice_crossentropy: 0.6045 - lr: 1.0000e-05
Epoch 282/500
100/100 [=====] - ETA: 0s - loss: 1.3756 - dice_soft: 0.6561
- dice_crossentropy: 0.4935
Epoch 00282: val_loss did not improve from 0.58854
100/100 [=====] - 89s 864ms/step - loss: 1.3756 - dice_soft:
0.6561 - dice_crossentropy: 0.4935 - val_loss: 0.6740 - val_dice_soft: 0.8315 - val_d
ice_crossentropy: 0.6086 - lr: 1.0000e-05
Epoch 283/500
100/100 [=====] - ETA: 0s - loss: 1.4893 - dice_soft: 0.6277
- dice_crossentropy: 0.5134
Epoch 00283: val_loss did not improve from 0.58854
100/100 [=====] - 89s 861ms/step - loss: 1.4893 - dice_soft:
0.6277 - dice_crossentropy: 0.5134 - val_loss: 1.4385 - val_dice_soft: 0.6404 - val_d
ice_crossentropy: 0.4981 - lr: 1.0000e-05
Epoch 284/500
100/100 [=====] - ETA: 0s - loss: 1.2660 - dice_soft: 0.6835
- dice_crossentropy: 0.4825
Epoch 00284: val_loss did not improve from 0.58854
100/100 [=====] - 91s 910ms/step - loss: 1.2660 - dice_soft:
0.6835 - dice_crossentropy: 0.4825 - val_loss: 1.1106 - val_dice_soft: 0.7224 - val_d
ice_crossentropy: 0.3846 - lr: 1.0000e-05
Epoch 285/500
100/100 [=====] - ETA: 0s - loss: 1.2611 - dice_soft: 0.6847
- dice_crossentropy: 0.4791
Epoch 00285: val_loss did not improve from 0.58854
100/100 [=====] - 91s 881ms/step - loss: 1.2611 - dice_soft:
0.6847 - dice_crossentropy: 0.4791 - val_loss: 1.3597 - val_dice_soft: 0.6601 - val_d
ice_crossentropy: 0.6608 - lr: 1.0000e-05
Epoch 286/500
100/100 [=====] - ETA: 0s - loss: 1.2624 - dice_soft: 0.6844
- dice_crossentropy: 0.4740
Epoch 00286: val_loss did not improve from 0.58854
100/100 [=====] - 89s 861ms/step - loss: 1.2624 - dice_soft:
0.6844 - dice_crossentropy: 0.4740 - val_loss: 0.7212 - val_dice_soft: 0.8197 - val_d
ice_crossentropy: 0.7096 - lr: 1.0000e-05
Epoch 287/500
100/100 [=====] - ETA: 0s - loss: 1.3948 - dice_soft: 0.6513
- dice_crossentropy: 0.5074
Epoch 00287: val_loss did not improve from 0.58854
100/100 [=====] - 92s 910ms/step - loss: 1.3948 - dice_soft:
0.6513 - dice_crossentropy: 0.5074 - val_loss: 0.5892 - val_dice_soft: 0.8527 - val_d
ice_crossentropy: 0.3859 - lr: 1.0000e-05
Epoch 288/500
100/100 [=====] - ETA: 0s - loss: 1.3764 - dice_soft: 0.6559
- dice_crossentropy: 0.4914
Epoch 00288: val_loss did not improve from 0.58854
100/100 [=====] - 90s 892ms/step - loss: 1.3764 - dice_soft:
0.6559 - dice_crossentropy: 0.4914 - val_loss: 1.6044 - val_dice_soft: 0.5989 - val_d
ice_crossentropy: 0.6248 - lr: 1.0000e-05
Epoch 289/500
100/100 [=====] - ETA: 0s - loss: 1.3804 - dice_soft: 0.6549
- dice_crossentropy: 0.4996
Epoch 00289: val_loss did not improve from 0.58854
```

```
100/100 [=====] - 92s 901ms/step - loss: 1.3804 - dice_soft:
0.6549 - dice_crossentropy: 0.4996 - val_loss: 2.1995 - val_dice_soft: 0.4501 - val_d
ice_crossentropy: 0.7099 - lr: 1.0000e-05
Epoch 290/500
100/100 [=====] - ETA: 0s - loss: 1.2300 - dice_soft: 0.6925
- dice_crossentropy: 0.4693
Epoch 00290: val_loss did not improve from 0.58854
100/100 [=====] - 87s 862ms/step - loss: 1.2300 - dice_soft:
0.6925 - dice_crossentropy: 0.4693 - val_loss: 0.7022 - val_dice_soft: 0.8244 - val_d
ice_crossentropy: 0.4854 - lr: 1.0000e-05
Epoch 291/500
100/100 [=====] - ETA: 0s - loss: 1.3846 - dice_soft: 0.6538
- dice_crossentropy: 0.4982
Epoch 00291: val_loss did not improve from 0.58854
100/100 [=====] - 90s 892ms/step - loss: 1.3846 - dice_soft:
0.6538 - dice_crossentropy: 0.4982 - val_loss: 1.6530 - val_dice_soft: 0.5868 - val_d
ice_crossentropy: 0.6706 - lr: 1.0000e-05
Epoch 292/500
100/100 [=====] - ETA: 0s - loss: 1.4210 - dice_soft: 0.6447
- dice_crossentropy: 0.5097
Epoch 00292: val_loss did not improve from 0.58854
100/100 [=====] - 91s 887ms/step - loss: 1.4210 - dice_soft:
0.6447 - dice_crossentropy: 0.5097 - val_loss: 0.7658 - val_dice_soft: 0.8085 - val_d
ice_crossentropy: 0.6725 - lr: 1.0000e-05
Epoch 293/500
100/100 [=====] - ETA: 0s - loss: 1.2779 - dice_soft: 0.6805
- dice_crossentropy: 0.4764
Epoch 00293: val_loss did not improve from 0.58854
100/100 [=====] - 93s 901ms/step - loss: 1.2779 - dice_soft:
0.6805 - dice_crossentropy: 0.4764 - val_loss: 1.7750 - val_dice_soft: 0.5563 - val_d
ice_crossentropy: 0.5927 - lr: 1.0000e-05
Epoch 294/500
100/100 [=====] - ETA: 0s - loss: 1.3358 - dice_soft: 0.6661
- dice_crossentropy: 0.4947
Epoch 00294: val_loss did not improve from 0.58854
100/100 [=====] - 91s 899ms/step - loss: 1.3358 - dice_soft:
0.6661 - dice_crossentropy: 0.4947 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7500 - lr: 1.0000e-05
Epoch 295/500
100/100 [=====] - ETA: 0s - loss: 1.3444 - dice_soft: 0.6639
- dice_crossentropy: 0.4837
Epoch 00295: val_loss did not improve from 0.58854
100/100 [=====] - 90s 872ms/step - loss: 1.3444 - dice_soft:
0.6639 - dice_crossentropy: 0.4837 - val_loss: 1.1551 - val_dice_soft: 0.7112 - val_d
ice_crossentropy: 0.4090 - lr: 1.0000e-05
Epoch 296/500
100/100 [=====] - ETA: 0s - loss: 1.3097 - dice_soft: 0.6726
- dice_crossentropy: 0.4889
Epoch 00296: val_loss did not improve from 0.58854
100/100 [=====] - 88s 876ms/step - loss: 1.3097 - dice_soft:
0.6726 - dice_crossentropy: 0.4889 - val_loss: 2.3909 - val_dice_soft: 0.4023 - val_d
ice_crossentropy: 0.6109 - lr: 1.0000e-05
Epoch 297/500
100/100 [=====] - ETA: 0s - loss: 1.3076 - dice_soft: 0.6731
- dice_crossentropy: 0.4894
Epoch 00297: val_loss did not improve from 0.58854
100/100 [=====] - 89s 889ms/step - loss: 1.3076 - dice_soft:
0.6731 - dice_crossentropy: 0.4894 - val_loss: 1.8468 - val_dice_soft: 0.5383 - val_d
ice_crossentropy: 0.7146 - lr: 1.0000e-05
Epoch 298/500
100/100 [=====] - ETA: 0s - loss: 1.2969 - dice_soft: 0.6758
- dice_crossentropy: 0.4811
Epoch 00298: val_loss did not improve from 0.58854
100/100 [=====] - 93s 917ms/step - loss: 1.2969 - dice_soft:
0.6758 - dice_crossentropy: 0.4811 - val_loss: 0.6358 - val_dice_soft: 0.8410 - val_d
ice_crossentropy: 0.5720 - lr: 1.0000e-05
```

Epoch 299/500
100/100 [=====] - ETA: 0s - loss: 1.3416 - dice_soft: 0.6646
- dice_crossentropy: 0.4903
Epoch 00299: val_loss did not improve from 0.58854
100/100 [=====] - 91s 873ms/step - loss: 1.3416 - dice_soft:
0.6646 - dice_crossentropy: 0.4903 - val_loss: 0.6187 - val_dice_soft: 0.8453 - val_d
ice_crossentropy: 0.5412 - lr: 1.0000e-05
Epoch 300/500
100/100 [=====] - ETA: 0s - loss: 1.2619 - dice_soft: 0.6845
- dice_crossentropy: 0.4708
Epoch 00300: val_loss did not improve from 0.58854
100/100 [=====] - 92s 890ms/step - loss: 1.2619 - dice_soft:
0.6845 - dice_crossentropy: 0.4708 - val_loss: 1.0020 - val_dice_soft: 0.7495 - val_d
ice_crossentropy: 0.4675 - lr: 1.0000e-05
Epoch 301/500
100/100 [=====] - ETA: 0s - loss: 1.2589 - dice_soft: 0.6853
- dice_crossentropy: 0.4647
Epoch 00301: val_loss did not improve from 0.58854
100/100 [=====] - 91s 880ms/step - loss: 1.2589 - dice_soft:
0.6853 - dice_crossentropy: 0.4647 - val_loss: 1.8096 - val_dice_soft: 0.5476 - val_d
ice_crossentropy: 0.6251 - lr: 1.0000e-05
Epoch 302/500
100/100 [=====] - ETA: 0s - loss: 1.3317 - dice_soft: 0.6671
- dice_crossentropy: 0.4922
Epoch 00302: val_loss did not improve from 0.58854
100/100 [=====] - 94s 926ms/step - loss: 1.3317 - dice_soft:
0.6671 - dice_crossentropy: 0.4922 - val_loss: 1.6144 - val_dice_soft: 0.5964 - val_d
ice_crossentropy: 0.5861 - lr: 1.0000e-05
Epoch 303/500
100/100 [=====] - ETA: 0s - loss: 1.3316 - dice_soft: 0.6671
- dice_crossentropy: 0.4774
Epoch 00303: val_loss did not improve from 0.58854
100/100 [=====] - 93s 901ms/step - loss: 1.3316 - dice_soft:
0.6671 - dice_crossentropy: 0.4774 - val_loss: 0.9682 - val_dice_soft: 0.7580 - val_d
ice_crossentropy: 0.4577 - lr: 1.0000e-05
Epoch 304/500
100/100 [=====] - ETA: 0s - loss: 1.4400 - dice_soft: 0.6400
- dice_crossentropy: 0.5074
Epoch 00304: val_loss did not improve from 0.58854
100/100 [=====] - 91s 907ms/step - loss: 1.4400 - dice_soft:
0.6400 - dice_crossentropy: 0.5074 - val_loss: 0.9334 - val_dice_soft: 0.7666 - val_d
ice_crossentropy: 0.5676 - lr: 1.0000e-05
Epoch 305/500
100/100 [=====] - ETA: 0s - loss: 1.3190 - dice_soft: 0.6703
- dice_crossentropy: 0.4826
Epoch 00305: val_loss did not improve from 0.58854
100/100 [=====] - 89s 875ms/step - loss: 1.3190 - dice_soft:
0.6703 - dice_crossentropy: 0.4826 - val_loss: 1.0414 - val_dice_soft: 0.7396 - val_d
ice_crossentropy: 0.4347 - lr: 1.0000e-05
Epoch 306/500
100/100 [=====] - ETA: 0s - loss: 1.2984 - dice_soft: 0.6754
- dice_crossentropy: 0.4770
Epoch 00306: val_loss did not improve from 0.58854
100/100 [=====] - 93s 903ms/step - loss: 1.2984 - dice_soft:
0.6754 - dice_crossentropy: 0.4770 - val_loss: 0.6777 - val_dice_soft: 0.8306 - val_d
ice_crossentropy: 0.4189 - lr: 1.0000e-05
Epoch 307/500
100/100 [=====] - ETA: 0s - loss: 1.2042 - dice_soft: 0.6989
- dice_crossentropy: 0.4665
Epoch 00307: val_loss did not improve from 0.58854
100/100 [=====] - 90s 892ms/step - loss: 1.2042 - dice_soft:
0.6989 - dice_crossentropy: 0.4665 - val_loss: 0.7537 - val_dice_soft: 0.8116 - val_d
ice_crossentropy: 0.4529 - lr: 1.0000e-05
Epoch 308/500
100/100 [=====] - ETA: 0s - loss: 1.3032 - dice_soft: 0.6742
- dice_crossentropy: 0.4746

Epoch 00308: val_loss did not improve from 0.58854
100/100 [=====] - 92s 895ms/step - loss: 1.3032 - dice_soft:
0.6742 - dice_crossentropy: 0.4746 - val_loss: 1.1552 - val_dice_soft: 0.7112 - val_d
ice_crossentropy: 0.5455 - lr: 1.0000e-05
Epoch 309/500
100/100 [=====] - ETA: 0s - loss: 1.2837 - dice_soft: 0.6791
- dice_crossentropy: 0.4842
Epoch 00309: val_loss did not improve from 0.58854
100/100 [=====] - 92s 917ms/step - loss: 1.2837 - dice_soft:
0.6791 - dice_crossentropy: 0.4842 - val_loss: 2.3364 - val_dice_soft: 0.4159 - val_d
ice_crossentropy: 0.6174 - lr: 1.0000e-05
Epoch 310/500
100/100 [=====] - ETA: 0s - loss: 1.3789 - dice_soft: 0.6553
- dice_crossentropy: 0.4969
Epoch 00310: val_loss did not improve from 0.58854
100/100 [=====] - 92s 886ms/step - loss: 1.3789 - dice_soft:
0.6553 - dice_crossentropy: 0.4969 - val_loss: 0.9560 - val_dice_soft: 0.7610 - val_d
ice_crossentropy: 0.5004 - lr: 1.0000e-05
Epoch 311/500
100/100 [=====] - ETA: 0s - loss: 1.3352 - dice_soft: 0.6662
- dice_crossentropy: 0.4858
Epoch 00311: val_loss did not improve from 0.58854
100/100 [=====] - 92s 892ms/step - loss: 1.3352 - dice_soft:
0.6662 - dice_crossentropy: 0.4858 - val_loss: 1.8691 - val_dice_soft: 0.5327 - val_d
ice_crossentropy: 0.6626 - lr: 1.0000e-05
Epoch 312/500
100/100 [=====] - ETA: 0s - loss: 1.3616 - dice_soft: 0.6596
- dice_crossentropy: 0.4914
Epoch 00312: val_loss did not improve from 0.58854
100/100 [=====] - 92s 883ms/step - loss: 1.3616 - dice_soft:
0.6596 - dice_crossentropy: 0.4914 - val_loss: 1.4495 - val_dice_soft: 0.6376 - val_d
ice_crossentropy: 0.5862 - lr: 1.0000e-05
Epoch 313/500
100/100 [=====] - ETA: 0s - loss: 1.2914 - dice_soft: 0.6772
- dice_crossentropy: 0.4837
Epoch 00313: val_loss did not improve from 0.58854
100/100 [=====] - 91s 892ms/step - loss: 1.2914 - dice_soft:
0.6772 - dice_crossentropy: 0.4837 - val_loss: 0.6702 - val_dice_soft: 0.8325 - val_d
ice_crossentropy: 0.6536 - lr: 1.0000e-05
Epoch 314/500
100/100 [=====] - ETA: 0s - loss: 1.3788 - dice_soft: 0.6553
- dice_crossentropy: 0.4902
Epoch 00314: val_loss did not improve from 0.58854
100/100 [=====] - 91s 914ms/step - loss: 1.3788 - dice_soft:
0.6553 - dice_crossentropy: 0.4902 - val_loss: 2.1419 - val_dice_soft: 0.4645 - val_d
ice_crossentropy: 0.5862 - lr: 1.0000e-05
Epoch 315/500
100/100 [=====] - ETA: 0s - loss: 1.4878 - dice_soft: 0.6280
- dice_crossentropy: 0.5099
Epoch 00315: val_loss did not improve from 0.58854
100/100 [=====] - 92s 901ms/step - loss: 1.4878 - dice_soft:
0.6280 - dice_crossentropy: 0.5099 - val_loss: 0.6692 - val_dice_soft: 0.8327 - val_d
ice_crossentropy: 0.6791 - lr: 1.0000e-05
Epoch 316/500
100/100 [=====] - ETA: 0s - loss: 1.3766 - dice_soft: 0.6559
- dice_crossentropy: 0.4953
Epoch 00316: val_loss did not improve from 0.58854
100/100 [=====] - 88s 865ms/step - loss: 1.3766 - dice_soft:
0.6559 - dice_crossentropy: 0.4953 - val_loss: 0.7209 - val_dice_soft: 0.8198 - val_d
ice_crossentropy: 0.5362 - lr: 1.0000e-05
Epoch 317/500
100/100 [=====] - ETA: 0s - loss: 1.3216 - dice_soft: 0.6696
- dice_crossentropy: 0.4837
Epoch 00317: val_loss did not improve from 0.58854
100/100 [=====] - 91s 890ms/step - loss: 1.3216 - dice_soft:
dice_crossentropy: 0.4837 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d

ice_crossentropy: 0.7500 - lr: 1.0000e-05
Epoch 318/500
100/100 [=====] - ETA: 0s - loss: 1.2515 - dice_soft: 0.6871
- dice_crossentropy: 0.4605
Epoch 00318: val_loss did not improve from 0.58854
100/100 [=====] - 92s 918ms/step - loss: 1.2515 - dice_soft:
0.6871 - dice_crossentropy: 0.4605 - val_loss: 0.7737 - val_dice_soft: 0.8066 - val_d
ice_crossentropy: 0.4468 - lr: 1.0000e-05
Epoch 319/500
100/100 [=====] - ETA: 0s - loss: 1.3865 - dice_soft: 0.6534
- dice_crossentropy: 0.4945
Epoch 00319: val_loss did not improve from 0.58854
100/100 [=====] - 93s 924ms/step - loss: 1.3865 - dice_soft:
0.6534 - dice_crossentropy: 0.4945 - val_loss: 0.9527 - val_dice_soft: 0.7618 - val_d
ice_crossentropy: 0.7696 - lr: 1.0000e-05
Epoch 320/500
100/100 [=====] - ETA: 0s - loss: 1.2295 - dice_soft: 0.6926
- dice_crossentropy: 0.4680
Epoch 00320: val_loss did not improve from 0.58854
100/100 [=====] - 90s 900ms/step - loss: 1.2295 - dice_soft:
0.6926 - dice_crossentropy: 0.4680 - val_loss: 0.6826 - val_dice_soft: 0.8294 - val_d
ice_crossentropy: 0.6511 - lr: 1.0000e-05
Epoch 321/500
100/100 [=====] - ETA: 0s - loss: 1.3321 - dice_soft: 0.6670
- dice_crossentropy: 0.4919
Epoch 00321: val_loss did not improve from 0.58854
100/100 [=====] - 90s 901ms/step - loss: 1.3321 - dice_soft:
0.6670 - dice_crossentropy: 0.4919 - val_loss: 1.3993 - val_dice_soft: 0.6502 - val_d
ice_crossentropy: 0.5690 - lr: 1.0000e-05
Epoch 322/500
100/100 [=====] - ETA: 0s - loss: 1.4129 - dice_soft: 0.6468
- dice_crossentropy: 0.5077
Epoch 00322: val_loss did not improve from 0.58854
100/100 [=====] - 91s 880ms/step - loss: 1.4129 - dice_soft:
0.6468 - dice_crossentropy: 0.5077 - val_loss: 0.9740 - val_dice_soft: 0.7565 - val_d
ice_crossentropy: 0.5195 - lr: 1.0000e-05
Epoch 323/500
100/100 [=====] - ETA: 0s - loss: 1.3010 - dice_soft: 0.6748
- dice_crossentropy: 0.4846
Epoch 00323: val_loss did not improve from 0.58854
100/100 [=====] - 91s 900ms/step - loss: 1.3010 - dice_soft:
0.6748 - dice_crossentropy: 0.4846 - val_loss: 1.9934 - val_dice_soft: 0.5017 - val_d
ice_crossentropy: 0.5272 - lr: 1.0000e-05
Epoch 324/500
100/100 [=====] - ETA: 0s - loss: 1.3852 - dice_soft: 0.6537
- dice_crossentropy: 0.4871
Epoch 00324: val_loss did not improve from 0.58854
100/100 [=====] - 89s 885ms/step - loss: 1.3852 - dice_soft:
0.6537 - dice_crossentropy: 0.4871 - val_loss: 0.6408 - val_dice_soft: 0.8398 - val_d
ice_crossentropy: 0.5086 - lr: 1.0000e-05
Epoch 325/500
100/100 [=====] - ETA: 0s - loss: 1.4233 - dice_soft: 0.6442
- dice_crossentropy: 0.5115
Epoch 00325: val_loss did not improve from 0.58854
100/100 [=====] - 90s 895ms/step - loss: 1.4233 - dice_soft:
0.6442 - dice_crossentropy: 0.5115 - val_loss: 1.4255 - val_dice_soft: 0.6436 - val_d
ice_crossentropy: 0.3905 - lr: 1.0000e-05
Epoch 326/500
100/100 [=====] - ETA: 0s - loss: 1.3617 - dice_soft: 0.6596
- dice_crossentropy: 0.4829
Epoch 00326: val_loss did not improve from 0.58854
100/100 [=====] - 92s 919ms/step - loss: 1.3617 - dice_soft:
0.6596 - dice_crossentropy: 0.4829 - val_loss: 0.7140 - val_dice_soft: 0.8215 - val_d
ice_crossentropy: 0.4334 - lr: 1.0000e-05
Epoch 327/500

- dice_crossentropy: 0.4919
Epoch 00327: val_loss did not improve from 0.58854
100/100 [=====] - 93s 890ms/step - loss: 1.3842 - dice_soft:
0.6539 - dice_crossentropy: 0.4919 - val_loss: 1.8153 - val_dice_soft: 0.5462 - val_d
ice_crossentropy: 0.6741 - lr: 1.0000e-05
Epoch 328/500
100/100 [=====] - ETA: 0s - loss: 1.3111 - dice_soft: 0.6722
- dice_crossentropy: 0.4757
Epoch 00328: val_loss did not improve from 0.58854
100/100 [=====] - 88s 873ms/step - loss: 1.3111 - dice_soft:
0.6722 - dice_crossentropy: 0.4757 - val_loss: 0.7692 - val_dice_soft: 0.8077 - val_d
ice_crossentropy: 0.4605 - lr: 1.0000e-05
Epoch 329/500
100/100 [=====] - ETA: 0s - loss: 1.2876 - dice_soft: 0.6781
- dice_crossentropy: 0.4711
Epoch 00329: val_loss did not improve from 0.58854
100/100 [=====] - 91s 902ms/step - loss: 1.2876 - dice_soft:
0.6781 - dice_crossentropy: 0.4711 - val_loss: 2.7450 - val_dice_soft: 0.3138 - val_d
ice_crossentropy: 0.7089 - lr: 1.0000e-05
Epoch 330/500
100/100 [=====] - ETA: 0s - loss: 1.2339 - dice_soft: 0.6915
- dice_crossentropy: 0.4718
Epoch 00330: val_loss did not improve from 0.58854
100/100 [=====] - 89s 866ms/step - loss: 1.2339 - dice_soft:
0.6915 - dice_crossentropy: 0.4718 - val_loss: 0.8987 - val_dice_soft: 0.7753 - val_d
ice_crossentropy: 0.3946 - lr: 1.0000e-05
Epoch 331/500
100/100 [=====] - ETA: 0s - loss: 1.3306 - dice_soft: 0.6673
- dice_crossentropy: 0.4914
Epoch 00331: val_loss did not improve from 0.58854
100/100 [=====] - 94s 920ms/step - loss: 1.3306 - dice_soft:
0.6673 - dice_crossentropy: 0.4914 - val_loss: 0.6267 - val_dice_soft: 0.8433 - val_d
ice_crossentropy: 0.6072 - lr: 1.0000e-05
Epoch 332/500
100/100 [=====] - ETA: 0s - loss: 1.3224 - dice_soft: 0.6694
- dice_crossentropy: 0.4847
Epoch 00332: val_loss did not improve from 0.58854
100/100 [=====] - 91s 884ms/step - loss: 1.3224 - dice_soft:
0.6694 - dice_crossentropy: 0.4847 - val_loss: 0.6497 - val_dice_soft: 0.8376 - val_d
ice_crossentropy: 0.4218 - lr: 1.0000e-05
Epoch 333/500
100/100 [=====] - ETA: 0s - loss: 1.2913 - dice_soft: 0.6772
- dice_crossentropy: 0.4809
Epoch 00333: val_loss did not improve from 0.58854
100/100 [=====] - 90s 871ms/step - loss: 1.2913 - dice_soft:
0.6772 - dice_crossentropy: 0.4809 - val_loss: 0.8295 - val_dice_soft: 0.7926 - val_d
ice_crossentropy: 0.5668 - lr: 1.0000e-05
Epoch 334/500
100/100 [=====] - ETA: 0s - loss: 1.3580 - dice_soft: 0.6605
- dice_crossentropy: 0.4932
Epoch 00334: val_loss did not improve from 0.58854
100/100 [=====] - 91s 887ms/step - loss: 1.3580 - dice_soft:
0.6605 - dice_crossentropy: 0.4932 - val_loss: 0.6463 - val_dice_soft: 0.8384 - val_d
ice_crossentropy: 0.5540 - lr: 1.0000e-05
Epoch 335/500
100/100 [=====] - ETA: 0s - loss: 1.3046 - dice_soft: 0.6739
- dice_crossentropy: 0.4816
Epoch 00335: val_loss did not improve from 0.58854
100/100 [=====] - 93s 923ms/step - loss: 1.3046 - dice_soft:
0.6739 - dice_crossentropy: 0.4816 - val_loss: 1.8810 - val_dice_soft: 0.5298 - val_d
ice_crossentropy: 0.6046 - lr: 1.0000e-05
Epoch 336/500
100/100 [=====] - ETA: 0s - loss: 1.2890 - dice_soft: 0.6777
- dice_crossentropy: 0.4721
Epoch 00336: val_loss improved from 0.58854 to 0.56201, saving model to evaluation/fo

100/100 [=====] - 90s 881ms/step - loss: 1.2890 - dice_soft:
0.6777 - dice_crossentropy: 0.4721 - val_loss: 0.5620 - val_dice_soft: 0.8595 - val_d
ice_crossentropy: 0.4910 - lr: 1.0000e-05
Epoch 337/500
100/100 [=====] - ETA: 0s - loss: 1.3126 - dice_soft: 0.6719
- dice_crossentropy: 0.4796
Epoch 00337: val_loss did not improve from 0.56201
100/100 [=====] - 89s 885ms/step - loss: 1.3126 - dice_soft:
0.6719 - dice_crossentropy: 0.4796 - val_loss: 1.8247 - val_dice_soft: 0.5438 - val_d
ice_crossentropy: 0.6960 - lr: 1.0000e-05
Epoch 338/500
100/100 [=====] - ETA: 0s - loss: 1.3676 - dice_soft: 0.6581
- dice_crossentropy: 0.4867
Epoch 00338: val_loss did not improve from 0.56201
100/100 [=====] - 91s 881ms/step - loss: 1.3676 - dice_soft:
0.6581 - dice_crossentropy: 0.4867 - val_loss: 1.8673 - val_dice_soft: 0.5332 - val_d
ice_crossentropy: 0.6412 - lr: 1.0000e-05
Epoch 339/500
100/100 [=====] - ETA: 0s - loss: 1.2102 - dice_soft: 0.6974
- dice_crossentropy: 0.4602
Epoch 00339: val_loss did not improve from 0.56201
100/100 [=====] - 89s 888ms/step - loss: 1.2102 - dice_soft:
0.6974 - dice_crossentropy: 0.4602 - val_loss: 1.3186 - val_dice_soft: 0.6703 - val_d
ice_crossentropy: 0.5494 - lr: 1.0000e-05
Epoch 340/500
100/100 [=====] - ETA: 0s - loss: 1.3488 - dice_soft: 0.6628
- dice_crossentropy: 0.4836
Epoch 00340: val_loss did not improve from 0.56201
100/100 [=====] - 89s 873ms/step - loss: 1.3488 - dice_soft:
0.6628 - dice_crossentropy: 0.4836 - val_loss: 0.7447 - val_dice_soft: 0.8138 - val_d
ice_crossentropy: 0.4900 - lr: 1.0000e-05
Epoch 341/500
100/100 [=====] - ETA: 0s - loss: 1.2106 - dice_soft: 0.6973
- dice_crossentropy: 0.4523
Epoch 00341: val_loss did not improve from 0.56201
100/100 [=====] - 89s 883ms/step - loss: 1.2106 - dice_soft:
0.6973 - dice_crossentropy: 0.4523 - val_loss: 0.8511 - val_dice_soft: 0.7872 - val_d
ice_crossentropy: 0.4530 - lr: 1.0000e-05
Epoch 342/500
100/100 [=====] - ETA: 0s - loss: 1.3655 - dice_soft: 0.6586
- dice_crossentropy: 0.4848
Epoch 00342: val_loss did not improve from 0.56201
100/100 [=====] - 89s 880ms/step - loss: 1.3655 - dice_soft:
0.6586 - dice_crossentropy: 0.4848 - val_loss: 0.6211 - val_dice_soft: 0.8447 - val_d
ice_crossentropy: 0.4695 - lr: 1.0000e-05
Epoch 343/500
100/100 [=====] - ETA: 0s - loss: 1.3540 - dice_soft: 0.6615
- dice_crossentropy: 0.4891
Epoch 00343: val_loss did not improve from 0.56201
100/100 [=====] - 93s 916ms/step - loss: 1.3540 - dice_soft:
0.6615 - dice_crossentropy: 0.4891 - val_loss: 1.4360 - val_dice_soft: 0.6410 - val_d
ice_crossentropy: 0.6242 - lr: 1.0000e-05
Epoch 344/500
100/100 [=====] - ETA: 0s - loss: 1.3450 - dice_soft: 0.6638
- dice_crossentropy: 0.4887
Epoch 00344: val_loss did not improve from 0.56201
100/100 [=====] - 89s 888ms/step - loss: 1.3450 - dice_soft:
0.6638 - dice_crossentropy: 0.4887 - val_loss: 0.7656 - val_dice_soft: 0.8086 - val_d
ice_crossentropy: 0.2767 - lr: 1.0000e-05
Epoch 345/500
100/100 [=====] - ETA: 0s - loss: 1.4648 - dice_soft: 0.6338
- dice_crossentropy: 0.5056
Epoch 00345: val_loss did not improve from 0.56201
100/100 [=====] - 92s 888ms/step - loss: 1.4648 - dice_soft:
0.6338 - dice_crossentropy: 0.5056 - val_loss: 0.6066 - val_dice_soft: 0.8484 - val_d
ice_crossentropy: 0.3510 - lr: 1.0000e-05

Epoch 346/500
100/100 [=====] - ETA: 0s - loss: 1.1703 - dice_soft: 0.7074
- dice_crossentropy: 0.4599
Epoch 00346: val_loss did not improve from 0.56201
100/100 [=====] - 89s 890ms/step - loss: 1.1703 - dice_soft:
0.7074 - dice_crossentropy: 0.4599 - val_loss: 1.9364 - val_dice_soft: 0.5159 - val_d
ice_crossentropy: 0.5686 - lr: 1.0000e-05
Epoch 347/500
100/100 [=====] - ETA: 0s - loss: 1.3483 - dice_soft: 0.6629
- dice_crossentropy: 0.4914
Epoch 00347: val_loss did not improve from 0.56201
100/100 [=====] - 92s 889ms/step - loss: 1.3483 - dice_soft:
0.6629 - dice_crossentropy: 0.4914 - val_loss: 0.6191 - val_dice_soft: 0.8452 - val_d
ice_crossentropy: 0.6017 - lr: 1.0000e-05
Epoch 348/500
100/100 [=====] - ETA: 0s - loss: 1.3308 - dice_soft: 0.6673
- dice_crossentropy: 0.4902
Epoch 00348: val_loss did not improve from 0.56201
100/100 [=====] - 91s 868ms/step - loss: 1.3308 - dice_soft:
0.6673 - dice_crossentropy: 0.4902 - val_loss: 0.6878 - val_dice_soft: 0.8280 - val_d
ice_crossentropy: 0.5544 - lr: 1.0000e-05
Epoch 349/500
100/100 [=====] - ETA: 0s - loss: 1.2793 - dice_soft: 0.6802
- dice_crossentropy: 0.4746
Epoch 00349: val_loss did not improve from 0.56201
100/100 [=====] - 93s 923ms/step - loss: 1.2793 - dice_soft:
0.6802 - dice_crossentropy: 0.4746 - val_loss: 1.6902 - val_dice_soft: 0.5775 - val_d
ice_crossentropy: 0.6216 - lr: 1.0000e-05
Epoch 350/500
100/100 [=====] - ETA: 0s - loss: 1.2967 - dice_soft: 0.6758
- dice_crossentropy: 0.4769
Epoch 00350: val_loss did not improve from 0.56201
100/100 [=====] - 89s 883ms/step - loss: 1.2967 - dice_soft:
0.6758 - dice_crossentropy: 0.4769 - val_loss: 0.6635 - val_dice_soft: 0.8341 - val_d
ice_crossentropy: 0.6106 - lr: 1.0000e-05
Epoch 351/500
100/100 [=====] - ETA: 0s - loss: 1.2860 - dice_soft: 0.6785
- dice_crossentropy: 0.4752
Epoch 00351: val_loss did not improve from 0.56201
100/100 [=====] - 89s 868ms/step - loss: 1.2860 - dice_soft:
0.6785 - dice_crossentropy: 0.4752 - val_loss: 1.8330 - val_dice_soft: 0.5418 - val_d
ice_crossentropy: 0.7096 - lr: 1.0000e-05
Epoch 352/500
100/100 [=====] - ETA: 0s - loss: 1.2778 - dice_soft: 0.6806
- dice_crossentropy: 0.4668
Epoch 00352: val_loss did not improve from 0.56201
100/100 [=====] - 90s 876ms/step - loss: 1.2778 - dice_soft:
0.6806 - dice_crossentropy: 0.4668 - val_loss: 0.6785 - val_dice_soft: 0.8304 - val_d
ice_crossentropy: 0.6264 - lr: 1.0000e-05
Epoch 353/500
100/100 [=====] - ETA: 0s - loss: 1.3033 - dice_soft: 0.6742
- dice_crossentropy: 0.4882
Epoch 00353: val_loss did not improve from 0.56201
100/100 [=====] - 88s 874ms/step - loss: 1.3033 - dice_soft:
0.6742 - dice_crossentropy: 0.4882 - val_loss: 1.6203 - val_dice_soft: 0.5949 - val_d
ice_crossentropy: 0.4986 - lr: 1.0000e-05
Epoch 354/500
100/100 [=====] - ETA: 0s - loss: 1.2965 - dice_soft: 0.6759
- dice_crossentropy: 0.4728
Epoch 00354: val_loss did not improve from 0.56201
100/100 [=====] - 93s 887ms/step - loss: 1.2965 - dice_soft:
0.6759 - dice_crossentropy: 0.4728 - val_loss: 0.6593 - val_dice_soft: 0.8352 - val_d
ice_crossentropy: 0.5013 - lr: 1.0000e-05
Epoch 355/500
100/100 [=====] - ETA: 0s - loss: 1.2027 - dice_soft: 0.6993
- dice_crossentropy: 0.4510

Epoch 00355: val_loss did not improve from 0.56201
100/100 [=====] - 91s 903ms/step - loss: 1.2027 - dice_soft:
0.6993 - dice_crossentropy: 0.4510 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7501 - lr: 1.0000e-05
Epoch 356/500
100/100 [=====] - ETA: 0s - loss: 1.3455 - dice_soft: 0.6636
- dice_crossentropy: 0.4889
Epoch 00356: val_loss did not improve from 0.56201
100/100 [=====] - 94s 900ms/step - loss: 1.3455 - dice_soft:
0.6636 - dice_crossentropy: 0.4889 - val_loss: 1.3817 - val_dice_soft: 0.6546 - val_d
ice_crossentropy: 0.6109 - lr: 1.0000e-05
Epoch 357/500
100/100 [=====] - ETA: 0s - loss: 1.3221 - dice_soft: 0.6695
- dice_crossentropy: 0.4808
Epoch 00357: val_loss did not improve from 0.56201
100/100 [=====] - 91s 891ms/step - loss: 1.3221 - dice_soft:
0.6695 - dice_crossentropy: 0.4808 - val_loss: 0.9063 - val_dice_soft: 0.7734 - val_d
ice_crossentropy: 0.5294 - lr: 1.0000e-05
Epoch 358/500
100/100 [=====] - ETA: 0s - loss: 1.2861 - dice_soft: 0.6785
- dice_crossentropy: 0.4862
Epoch 00358: val_loss did not improve from 0.56201
100/100 [=====] - 89s 888ms/step - loss: 1.2861 - dice_soft:
0.6785 - dice_crossentropy: 0.4862 - val_loss: 1.3898 - val_dice_soft: 0.6526 - val_d
ice_crossentropy: 0.3818 - lr: 1.0000e-05
Epoch 359/500
100/100 [=====] - ETA: 0s - loss: 1.2702 - dice_soft: 0.6825
- dice_crossentropy: 0.4819
Epoch 00359: val_loss did not improve from 0.56201
100/100 [=====] - 90s 902ms/step - loss: 1.2702 - dice_soft:
0.6825 - dice_crossentropy: 0.4819 - val_loss: 0.9815 - val_dice_soft: 0.7546 - val_d
ice_crossentropy: 0.4447 - lr: 1.0000e-05
Epoch 360/500
100/100 [=====] - ETA: 0s - loss: 1.2623 - dice_soft: 0.6844
- dice_crossentropy: 0.4545
Epoch 00360: val_loss did not improve from 0.56201
100/100 [=====] - 92s 911ms/step - loss: 1.2623 - dice_soft:
0.6844 - dice_crossentropy: 0.4545 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7501 - lr: 1.0000e-05
Epoch 361/500
100/100 [=====] - ETA: 0s - loss: 1.3852 - dice_soft: 0.6537
- dice_crossentropy: 0.4941
Epoch 00361: val_loss did not improve from 0.56201
100/100 [=====] - 87s 874ms/step - loss: 1.3852 - dice_soft:
0.6537 - dice_crossentropy: 0.4941 - val_loss: 1.3352 - val_dice_soft: 0.6662 - val_d
ice_crossentropy: 0.4165 - lr: 1.0000e-05
Epoch 362/500
100/100 [=====] - ETA: 0s - loss: 1.3160 - dice_soft: 0.6710
- dice_crossentropy: 0.4814
Epoch 00362: val_loss did not improve from 0.56201
100/100 [=====] - 92s 893ms/step - loss: 1.3160 - dice_soft:
0.6710 - dice_crossentropy: 0.4814 - val_loss: 1.0955 - val_dice_soft: 0.7261 - val_d
ice_crossentropy: 0.5505 - lr: 1.0000e-05
Epoch 363/500
100/100 [=====] - ETA: 0s - loss: 1.3949 - dice_soft: 0.6513
- dice_crossentropy: 0.4872
Epoch 00363: val_loss did not improve from 0.56201
100/100 [=====] - 91s 864ms/step - loss: 1.3949 - dice_soft:
0.6513 - dice_crossentropy: 0.4872 - val_loss: 1.5863 - val_dice_soft: 0.6034 - val_d
ice_crossentropy: 0.5284 - lr: 1.0000e-05
Epoch 364/500
100/100 [=====] - ETA: 0s - loss: 1.1955 - dice_soft: 0.7011
- dice_crossentropy: 0.4509
Epoch 00364: val_loss did not improve from 0.56201
100/100 [=====] - 91s 881ms/step - loss: 1.1955 - dice_soft:
0.7011 - dice_crossentropy: 0.4509 - val_loss: 0.5655 - val_dice_soft: 0.8586 - val_d

ice_crossentropy: 0.4717 - lr: 1.0000e-05
Epoch 365/500
100/100 [=====] - ETA: 0s - loss: 1.3158 - dice_soft: 0.6710
- dice_crossentropy: 0.4799
Epoch 00365: val_loss did not improve from 0.56201
100/100 [=====] - 89s 878ms/step - loss: 1.3158 - dice_soft:
0.6710 - dice_crossentropy: 0.4799 - val_loss: 2.0402 - val_dice_soft: 0.4900 - val_d
ice_crossentropy: 0.5739 - lr: 1.0000e-05
Epoch 366/500
100/100 [=====] - ETA: 0s - loss: 1.2785 - dice_soft: 0.6804
- dice_crossentropy: 0.4760
Epoch 00366: val_loss did not improve from 0.56201
100/100 [=====] - 89s 879ms/step - loss: 1.2785 - dice_soft:
0.6804 - dice_crossentropy: 0.4760 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7501 - lr: 1.0000e-05
Epoch 367/500
100/100 [=====] - ETA: 0s - loss: 1.3125 - dice_soft: 0.6719
- dice_crossentropy: 0.4779
Epoch 00367: val_loss did not improve from 0.56201
100/100 [=====] - 89s 890ms/step - loss: 1.3125 - dice_soft:
0.6719 - dice_crossentropy: 0.4779 - val_loss: 1.8445 - val_dice_soft: 0.5389 - val_d
ice_crossentropy: 0.6490 - lr: 1.0000e-05
Epoch 368/500
100/100 [=====] - ETA: 0s - loss: 1.3065 - dice_soft: 0.6734
- dice_crossentropy: 0.4851
Epoch 00368: val_loss did not improve from 0.56201
100/100 [=====] - 91s 895ms/step - loss: 1.3065 - dice_soft:
0.6734 - dice_crossentropy: 0.4851 - val_loss: 3.0000 - val_dice_soft: 0.2501 - val_d
ice_crossentropy: 0.7499 - lr: 1.0000e-05
Epoch 369/500
100/100 [=====] - ETA: 0s - loss: 1.2786 - dice_soft: 0.6804
- dice_crossentropy: 0.4616
Epoch 00369: val_loss did not improve from 0.56201
100/100 [=====] - 90s 882ms/step - loss: 1.2786 - dice_soft:
0.6804 - dice_crossentropy: 0.4616 - val_loss: 0.7054 - val_dice_soft: 0.8237 - val_d
ice_crossentropy: 0.6182 - lr: 1.0000e-05
Epoch 370/500
100/100 [=====] - ETA: 0s - loss: 1.2915 - dice_soft: 0.6771
- dice_crossentropy: 0.4777
Epoch 00370: val_loss did not improve from 0.56201
100/100 [=====] - 88s 875ms/step - loss: 1.2915 - dice_soft:
0.6771 - dice_crossentropy: 0.4777 - val_loss: 1.1583 - val_dice_soft: 0.7104 - val_d
ice_crossentropy: 0.3650 - lr: 1.0000e-05
Epoch 371/500
100/100 [=====] - ETA: 0s - loss: 1.3592 - dice_soft: 0.6602
- dice_crossentropy: 0.4851
Epoch 00371: val_loss did not improve from 0.56201
100/100 [=====] - 90s 877ms/step - loss: 1.3592 - dice_soft:
0.6602 - dice_crossentropy: 0.4851 - val_loss: 1.8114 - val_dice_soft: 0.5472 - val_d
ice_crossentropy: 0.6567 - lr: 1.0000e-05
Epoch 372/500
100/100 [=====] - ETA: 0s - loss: 1.2310 - dice_soft: 0.6923
- dice_crossentropy: 0.4690
Epoch 00372: val_loss did not improve from 0.56201
100/100 [=====] - 92s 893ms/step - loss: 1.2310 - dice_soft:
0.6923 - dice_crossentropy: 0.4690 - val_loss: 0.7534 - val_dice_soft: 0.8116 - val_d
ice_crossentropy: 0.5867 - lr: 1.0000e-05
Epoch 373/500
100/100 [=====] - ETA: 0s - loss: 1.2604 - dice_soft: 0.6849
- dice_crossentropy: 0.4677
Epoch 00373: val_loss did not improve from 0.56201
100/100 [=====] - 88s 871ms/step - loss: 1.2604 - dice_soft:
0.6849 - dice_crossentropy: 0.4677 - val_loss: 0.6729 - val_dice_soft: 0.8318 - val_d
ice_crossentropy: 0.5544 - lr: 1.0000e-05
Epoch 374/500
100/100 [=====] - ETA: 0s - loss: 1.3890 - dice_soft: 0.6528

- dice_crossentropy: 0.4871
Epoch 00374: val_loss did not improve from 0.56201
100/100 [=====] - 93s 934ms/step - loss: 1.3890 - dice_soft:
0.6528 - dice_crossentropy: 0.4871 - val_loss: 0.6957 - val_dice_soft: 0.8261 - val_d
ice_crossentropy: 0.6785 - lr: 1.0000e-05
Epoch 375/500
100/100 [=====] - ETA: 0s - loss: 1.2305 - dice_soft: 0.6924
- dice_crossentropy: 0.4668
Epoch 00375: val_loss did not improve from 0.56201
100/100 [=====] - 88s 873ms/step - loss: 1.2305 - dice_soft:
0.6924 - dice_crossentropy: 0.4668 - val_loss: 1.8249 - val_dice_soft: 0.5438 - val_d
ice_crossentropy: 0.6678 - lr: 1.0000e-05
Epoch 376/500
100/100 [=====] - ETA: 0s - loss: 1.2850 - dice_soft: 0.6787
- dice_crossentropy: 0.4641
Epoch 00376: val_loss did not improve from 0.56201
100/100 [=====] - 88s 881ms/step - loss: 1.2850 - dice_soft:
0.6787 - dice_crossentropy: 0.4641 - val_loss: 1.8458 - val_dice_soft: 0.5386 - val_d
ice_crossentropy: 0.6683 - lr: 1.0000e-05
Epoch 377/500
100/100 [=====] - ETA: 0s - loss: 1.3966 - dice_soft: 0.6509
- dice_crossentropy: 0.4991
Epoch 00377: val_loss did not improve from 0.56201
100/100 [=====] - 92s 914ms/step - loss: 1.3966 - dice_soft:
0.6509 - dice_crossentropy: 0.4991 - val_loss: 1.3931 - val_dice_soft: 0.6517 - val_d
ice_crossentropy: 0.5271 - lr: 1.0000e-05
Epoch 378/500
100/100 [=====] - ETA: 0s - loss: 1.2881 - dice_soft: 0.6780
- dice_crossentropy: 0.4748
Epoch 00378: val_loss did not improve from 0.56201
100/100 [=====] - 90s 876ms/step - loss: 1.2881 - dice_soft:
0.6780 - dice_crossentropy: 0.4748 - val_loss: 2.5646 - val_dice_soft: 0.3589 - val_d
ice_crossentropy: 0.6460 - lr: 1.0000e-05
Epoch 379/500
100/100 [=====] - ETA: 0s - loss: 1.2560 - dice_soft: 0.6860
- dice_crossentropy: 0.4763
Epoch 00379: val_loss did not improve from 0.56201
100/100 [=====] - 88s 872ms/step - loss: 1.2560 - dice_soft:
0.6860 - dice_crossentropy: 0.4763 - val_loss: 0.7457 - val_dice_soft: 0.8136 - val_d
ice_crossentropy: 0.4638 - lr: 1.0000e-05
Epoch 380/500
100/100 [=====] - ETA: 0s - loss: 1.2711 - dice_soft: 0.6822
- dice_crossentropy: 0.4644
Epoch 00380: val_loss did not improve from 0.56201
100/100 [=====] - 93s 928ms/step - loss: 1.2711 - dice_soft:
0.6822 - dice_crossentropy: 0.4644 - val_loss: 2.4763 - val_dice_soft: 0.3809 - val_d
ice_crossentropy: 0.6354 - lr: 1.0000e-05
Epoch 381/500
100/100 [=====] - ETA: 0s - loss: 1.3418 - dice_soft: 0.6645
- dice_crossentropy: 0.4802
Epoch 00381: val_loss did not improve from 0.56201
100/100 [=====] - 89s 882ms/step - loss: 1.3418 - dice_soft:
0.6645 - dice_crossentropy: 0.4802 - val_loss: 1.8472 - val_dice_soft: 0.5382 - val_d
ice_crossentropy: 0.5321 - lr: 1.0000e-05
Epoch 382/500
100/100 [=====] - ETA: 0s - loss: 1.2678 - dice_soft: 0.6831
- dice_crossentropy: 0.4714
Epoch 00382: val_loss did not improve from 0.56201
100/100 [=====] - 90s 889ms/step - loss: 1.2678 - dice_soft:
0.6831 - dice_crossentropy: 0.4714 - val_loss: 1.2991 - val_dice_soft: 0.6752 - val_d
ice_crossentropy: 0.3681 - lr: 1.0000e-05
Epoch 383/500
100/100 [=====] - ETA: 0s - loss: 1.3931 - dice_soft: 0.6517
- dice_crossentropy: 0.4773
Epoch 00383: val_loss did not improve from 0.56201
100/100 [=====] - 89s 890ms/step - loss: 1.3931 - dice_soft:

0.6517 - dice_crossentropy: 0.4773 - val_loss: 0.6697 - val_dice_soft: 0.8326 - val_dice_crossentropy: 0.4574 - lr: 1.0000e-05
Epoch 384/500
100/100 [=====] - ETA: 0s - loss: 1.1910 - dice_soft: 0.7022
- dice_crossentropy: 0.4557
Epoch 00384: val_loss did not improve from 0.56201
100/100 [=====] - 88s 883ms/step - loss: 1.1910 - dice_soft:
0.7022 - dice_crossentropy: 0.4557 - val_loss: 0.6699 - val_dice_soft: 0.8325 - val_dice_crossentropy: 0.6286 - lr: 1.0000e-05
Epoch 385/500
100/100 [=====] - ETA: 0s - loss: 1.2144 - dice_soft: 0.6964
- dice_crossentropy: 0.4622
Epoch 00385: val_loss did not improve from 0.56201
100/100 [=====] - 89s 886ms/step - loss: 1.2144 - dice_soft:
0.6964 - dice_crossentropy: 0.4622 - val_loss: 1.8460 - val_dice_soft: 0.5385 - val_dice_crossentropy: 0.5611 - lr: 1.0000e-05
Epoch 386/500
100/100 [=====] - ETA: 0s - loss: 1.2778 - dice_soft: 0.6805
- dice_crossentropy: 0.4594
Epoch 00386: val_loss did not improve from 0.56201
100/100 [=====] - 88s 853ms/step - loss: 1.2778 - dice_soft:
0.6805 - dice_crossentropy: 0.4594 - val_loss: 0.6959 - val_dice_soft: 0.8260 - val_dice_crossentropy: 0.6581 - lr: 1.0000e-05
Epoch 387/500
100/100 [=====] - ETA: 0s - loss: 1.3801 - dice_soft: 0.6550
- dice_crossentropy: 0.4953
Epoch 00387: val_loss did not improve from 0.56201
100/100 [=====] - 92s 899ms/step - loss: 1.3801 - dice_soft:
0.6550 - dice_crossentropy: 0.4953 - val_loss: 2.9999 - val_dice_soft: 0.2501 - val_dice_crossentropy: 0.7499 - lr: 1.0000e-05
Epoch 388/500
100/100 [=====] - ETA: 0s - loss: 1.3362 - dice_soft: 0.6659
- dice_crossentropy: 0.4850
Epoch 00388: val_loss did not improve from 0.56201
100/100 [=====] - 88s 879ms/step - loss: 1.3362 - dice_soft:
0.6659 - dice_crossentropy: 0.4850 - val_loss: 3.0000 - val_dice_soft: 0.2501 - val_dice_crossentropy: 0.7499 - lr: 1.0000e-05
Epoch 389/500
100/100 [=====] - ETA: 0s - loss: 1.4325 - dice_soft: 0.6419
- dice_crossentropy: 0.5033
Epoch 00389: val_loss did not improve from 0.56201
100/100 [=====] - 90s 900ms/step - loss: 1.4325 - dice_soft:
0.6419 - dice_crossentropy: 0.5033 - val_loss: 1.4196 - val_dice_soft: 0.6451 - val_dice_crossentropy: 0.5540 - lr: 1.0000e-05
Epoch 390/500
100/100 [=====] - ETA: 0s - loss: 1.3052 - dice_soft: 0.6737
- dice_crossentropy: 0.4741
Epoch 00390: val_loss did not improve from 0.56201
100/100 [=====] - 92s 912ms/step - loss: 1.3052 - dice_soft:
0.6737 - dice_crossentropy: 0.4741 - val_loss: 1.9551 - val_dice_soft: 0.5112 - val_dice_crossentropy: 0.5637 - lr: 1.0000e-05
Epoch 391/500
100/100 [=====] - ETA: 0s - loss: 1.3783 - dice_soft: 0.6554
- dice_crossentropy: 0.4940
Epoch 00391: val_loss did not improve from 0.56201
100/100 [=====] - 90s 874ms/step - loss: 1.3783 - dice_soft:
0.6554 - dice_crossentropy: 0.4940 - val_loss: 1.7896 - val_dice_soft: 0.5526 - val_dice_crossentropy: 0.5099 - lr: 1.0000e-05
Epoch 392/500
100/100 [=====] - ETA: 0s - loss: 1.2650 - dice_soft: 0.6837
- dice_crossentropy: 0.4589
Epoch 00392: val_loss did not improve from 0.56201
100/100 [=====] - 89s 885ms/step - loss: 1.2650 - dice_soft:
0.6837 - dice_crossentropy: 0.4589 - val_loss: 0.6832 - val_dice_soft: 0.8292 - val_dice_crossentropy: 0.5662 - lr: 1.0000e-05

100/100 [=====] - ETA: 0s - loss: 1.2078 - dice_soft: 0.6981
- dice_crossentropy: 0.4562
Epoch 00393: val_loss did not improve from 0.56201
100/100 [=====] - 89s 885ms/step - loss: 1.2078 - dice_soft:
0.6981 - dice_crossentropy: 0.4562 - val_loss: 1.8205 - val_dice_soft: 0.5449 - val_d
ice_crossentropy: 0.6560 - lr: 1.0000e-05
Epoch 394/500
100/100 [=====] - ETA: 0s - loss: 1.2194 - dice_soft: 0.6952
- dice_crossentropy: 0.4606
Epoch 00394: val_loss did not improve from 0.56201
100/100 [=====] - 93s 928ms/step - loss: 1.2194 - dice_soft:
0.6952 - dice_crossentropy: 0.4606 - val_loss: 0.5968 - val_dice_soft: 0.8508 - val_d
ice_crossentropy: 0.5578 - lr: 1.0000e-05
Epoch 395/500
100/100 [=====] - ETA: 0s - loss: 1.2223 - dice_soft: 0.6944
- dice_crossentropy: 0.4584
Epoch 00395: val_loss did not improve from 0.56201
100/100 [=====] - 90s 905ms/step - loss: 1.2223 - dice_soft:
0.6944 - dice_crossentropy: 0.4584 - val_loss: 1.5543 - val_dice_soft: 0.6114 - val_d
ice_crossentropy: 0.6040 - lr: 1.0000e-05
Epoch 396/500
100/100 [=====] - ETA: 0s - loss: 1.3058 - dice_soft: 0.6736
- dice_crossentropy: 0.4737
Epoch 00396: val_loss did not improve from 0.56201
100/100 [=====] - 92s 901ms/step - loss: 1.3058 - dice_soft:
0.6736 - dice_crossentropy: 0.4737 - val_loss: 1.8693 - val_dice_soft: 0.5327 - val_d
ice_crossentropy: 0.5724 - lr: 1.0000e-05
Epoch 397/500
100/100 [=====] - ETA: 0s - loss: 1.2318 - dice_soft: 0.6920
- dice_crossentropy: 0.4574
Epoch 00397: val_loss did not improve from 0.56201
100/100 [=====] - 87s 858ms/step - loss: 1.2318 - dice_soft:
0.6920 - dice_crossentropy: 0.4574 - val_loss: 0.6599 - val_dice_soft: 0.8350 - val_d
ice_crossentropy: 0.4712 - lr: 1.0000e-05
Epoch 398/500
100/100 [=====] - ETA: 0s - loss: 1.2593 - dice_soft: 0.6852
- dice_crossentropy: 0.4848
Epoch 00398: val_loss did not improve from 0.56201
100/100 [=====] - 91s 883ms/step - loss: 1.2593 - dice_soft:
0.6852 - dice_crossentropy: 0.4848 - val_loss: 1.7189 - val_dice_soft: 0.5703 - val_d
ice_crossentropy: 0.5157 - lr: 1.0000e-05
Epoch 399/500
100/100 [=====] - ETA: 0s - loss: 1.2799 - dice_soft: 0.6800
- dice_crossentropy: 0.4701
Epoch 00399: val_loss did not improve from 0.56201
100/100 [=====] - 90s 875ms/step - loss: 1.2799 - dice_soft:
0.6800 - dice_crossentropy: 0.4701 - val_loss: 1.5663 - val_dice_soft: 0.6084 - val_d
ice_crossentropy: 0.4828 - lr: 1.0000e-05
Epoch 400/500
100/100 [=====] - ETA: 0s - loss: 1.2661 - dice_soft: 0.6835
- dice_crossentropy: 0.4590
Epoch 00400: val_loss did not improve from 0.56201
100/100 [=====] - 89s 887ms/step - loss: 1.2661 - dice_soft:
0.6835 - dice_crossentropy: 0.4590 - val_loss: 1.2042 - val_dice_soft: 0.6989 - val_d
ice_crossentropy: 0.6242 - lr: 1.0000e-05
Epoch 401/500
100/100 [=====] - ETA: 0s - loss: 1.2736 - dice_soft: 0.6816
- dice_crossentropy: 0.4694
Epoch 00401: val_loss did not improve from 0.56201
100/100 [=====] - 94s 917ms/step - loss: 1.2736 - dice_soft:
0.6816 - dice_crossentropy: 0.4694 - val_loss: 1.8118 - val_dice_soft: 0.5471 - val_d
ice_crossentropy: 0.5112 - lr: 1.0000e-05
Epoch 402/500
100/100 [=====] - ETA: 0s - loss: 1.3544 - dice_soft: 0.6614
- dice_crossentropy: 0.4777
Epoch 00402: val_loss did not improve from 0.56201

```
100/100 [=====] - 87s 861ms/step - loss: 1.3544 - dice_soft:
0.6614 - dice_crossentropy: 0.4777 - val_loss: 0.6350 - val_dice_soft: 0.8412 - val_d
ice_crossentropy: 0.5962 - lr: 1.0000e-05
Epoch 403/500
100/100 [=====] - ETA: 0s - loss: 1.3569 - dice_soft: 0.6608
- dice_crossentropy: 0.4819
Epoch 00403: val_loss did not improve from 0.56201
100/100 [=====] - 92s 893ms/step - loss: 1.3569 - dice_soft:
0.6608 - dice_crossentropy: 0.4819 - val_loss: 0.7289 - val_dice_soft: 0.8178 - val_d
ice_crossentropy: 0.3794 - lr: 1.0000e-05
Epoch 404/500
100/100 [=====] - ETA: 0s - loss: 1.3336 - dice_soft: 0.6666
- dice_crossentropy: 0.4820
Epoch 00404: val_loss did not improve from 0.56201
100/100 [=====] - 88s 877ms/step - loss: 1.3336 - dice_soft:
0.6666 - dice_crossentropy: 0.4820 - val_loss: 1.9893 - val_dice_soft: 0.5027 - val_d
ice_crossentropy: 0.5778 - lr: 1.0000e-05
Epoch 405/500
100/100 [=====] - ETA: 0s - loss: 1.3499 - dice_soft: 0.6625
- dice_crossentropy: 0.4802
Epoch 00405: val_loss did not improve from 0.56201
100/100 [=====] - 87s 866ms/step - loss: 1.3499 - dice_soft:
0.6625 - dice_crossentropy: 0.4802 - val_loss: 0.7213 - val_dice_soft: 0.8197 - val_d
ice_crossentropy: 0.4584 - lr: 1.0000e-05
Epoch 406/500
100/100 [=====] - ETA: 0s - loss: 1.4444 - dice_soft: 0.6389
- dice_crossentropy: 0.5151
Epoch 00406: val_loss did not improve from 0.56201
100/100 [=====] - 90s 902ms/step - loss: 1.4444 - dice_soft:
0.6389 - dice_crossentropy: 0.5151 - val_loss: 1.4997 - val_dice_soft: 0.6251 - val_d
ice_crossentropy: 0.4046 - lr: 1.0000e-05
Epoch 407/500
100/100 [=====] - ETA: 0s - loss: 1.2311 - dice_soft: 0.6922
- dice_crossentropy: 0.4652
Epoch 00407: val_loss did not improve from 0.56201
100/100 [=====] - 86s 856ms/step - loss: 1.2311 - dice_soft:
0.6922 - dice_crossentropy: 0.4652 - val_loss: 1.8025 - val_dice_soft: 0.5494 - val_d
ice_crossentropy: 0.6863 - lr: 1.0000e-05
Epoch 408/500
100/100 [=====] - ETA: 0s - loss: 1.4143 - dice_soft: 0.6464
- dice_crossentropy: 0.5016
Epoch 00408: val_loss did not improve from 0.56201
100/100 [=====] - 90s 881ms/step - loss: 1.4143 - dice_soft:
0.6464 - dice_crossentropy: 0.5016 - val_loss: 1.8859 - val_dice_soft: 0.5285 - val_d
ice_crossentropy: 0.5916 - lr: 1.0000e-05
Epoch 409/500
100/100 [=====] - ETA: 0s - loss: 1.2289 - dice_soft: 0.6928
- dice_crossentropy: 0.4477
Epoch 00409: val_loss did not improve from 0.56201
100/100 [=====] - 90s 884ms/step - loss: 1.2289 - dice_soft:
0.6928 - dice_crossentropy: 0.4477 - val_loss: 1.8152 - val_dice_soft: 0.5462 - val_d
ice_crossentropy: 0.6173 - lr: 1.0000e-05
Epoch 410/500
100/100 [=====] - ETA: 0s - loss: 1.2723 - dice_soft: 0.6819
- dice_crossentropy: 0.4717
Epoch 00410: val_loss did not improve from 0.56201
100/100 [=====] - 91s 900ms/step - loss: 1.2723 - dice_soft:
0.6819 - dice_crossentropy: 0.4717 - val_loss: 3.0000 - val_dice_soft: 0.2501 - val_d
ice_crossentropy: 0.7499 - lr: 1.0000e-05
Epoch 411/500
100/100 [=====] - ETA: 0s - loss: 1.2114 - dice_soft: 0.6972
- dice_crossentropy: 0.4658
Epoch 00411: val_loss did not improve from 0.56201
100/100 [=====] - 90s 890ms/step - loss: 1.2114 - dice_soft:
0.6972 - dice_crossentropy: 0.4658 - val_loss: 0.6069 - val_dice_soft: 0.8483 - val_d
ice_crossentropy: 0.4721 - lr: 1.0000e-05
```


Epoch 412/500
100/100 [=====] - ETA: 0s - loss: 1.3283 - dice_soft: 0.6679
- dice_crossentropy: 0.4790
Epoch 00412: val_loss did not improve from 0.56201
100/100 [=====] - 91s 910ms/step - loss: 1.3283 - dice_soft:
0.6679 - dice_crossentropy: 0.4790 - val_loss: 0.8298 - val_dice_soft: 0.7925 - val_d
ice_crossentropy: 0.5662 - lr: 1.0000e-05
Epoch 413/500
100/100 [=====] - ETA: 0s - loss: 1.3630 - dice_soft: 0.6593
- dice_crossentropy: 0.4853
Epoch 00413: val_loss did not improve from 0.56201
100/100 [=====] - 92s 891ms/step - loss: 1.3630 - dice_soft:
0.6593 - dice_crossentropy: 0.4853 - val_loss: 0.6699 - val_dice_soft: 0.8325 - val_d
ice_crossentropy: 0.6961 - lr: 1.0000e-05
Epoch 414/500
100/100 [=====] - ETA: 0s - loss: 1.2082 - dice_soft: 0.6979
- dice_crossentropy: 0.4614
Epoch 00414: val_loss did not improve from 0.56201
100/100 [=====] - 89s 869ms/step - loss: 1.2082 - dice_soft:
0.6979 - dice_crossentropy: 0.4614 - val_loss: 0.8326 - val_dice_soft: 0.7918 - val_d
ice_crossentropy: 0.6278 - lr: 1.0000e-05
Epoch 415/500
100/100 [=====] - ETA: 0s - loss: 1.2080 - dice_soft: 0.6980
- dice_crossentropy: 0.4531
Epoch 00415: val_loss did not improve from 0.56201
100/100 [=====] - 93s 934ms/step - loss: 1.2080 - dice_soft:
0.6980 - dice_crossentropy: 0.4531 - val_loss: 0.6512 - val_dice_soft: 0.8372 - val_d
ice_crossentropy: 0.5783 - lr: 1.0000e-05
Epoch 416/500
100/100 [=====] - ETA: 0s - loss: 1.3614 - dice_soft: 0.6597
- dice_crossentropy: 0.4824
Epoch 00416: val_loss did not improve from 0.56201
100/100 [=====] - 89s 874ms/step - loss: 1.3614 - dice_soft:
0.6597 - dice_crossentropy: 0.4824 - val_loss: 2.5778 - val_dice_soft: 0.3556 - val_d
ice_crossentropy: 0.6479 - lr: 1.0000e-05
Epoch 417/500
100/100 [=====] - ETA: 0s - loss: 1.3492 - dice_soft: 0.6627
- dice_crossentropy: 0.4793
Epoch 00417: val_loss did not improve from 0.56201
100/100 [=====] - 89s 894ms/step - loss: 1.3492 - dice_soft:
0.6627 - dice_crossentropy: 0.4793 - val_loss: 1.4267 - val_dice_soft: 0.6433 - val_d
ice_crossentropy: 0.5425 - lr: 1.0000e-05
Epoch 418/500
100/100 [=====] - ETA: 0s - loss: 1.3284 - dice_soft: 0.6679
- dice_crossentropy: 0.4637
Epoch 00418: val_loss did not improve from 0.56201
100/100 [=====] - 93s 926ms/step - loss: 1.3284 - dice_soft:
0.6679 - dice_crossentropy: 0.4637 - val_loss: 0.6308 - val_dice_soft: 0.8423 - val_d
ice_crossentropy: 0.5163 - lr: 1.0000e-05
Epoch 419/500
100/100 [=====] - ETA: 0s - loss: 1.2853 - dice_soft: 0.6787
- dice_crossentropy: 0.4670
Epoch 00419: val_loss did not improve from 0.56201
100/100 [=====] - 88s 862ms/step - loss: 1.2853 - dice_soft:
0.6787 - dice_crossentropy: 0.4670 - val_loss: 0.5885 - val_dice_soft: 0.8529 - val_d
ice_crossentropy: 0.3873 - lr: 1.0000e-05
Epoch 420/500
100/100 [=====] - ETA: 0s - loss: 1.2510 - dice_soft: 0.6873
- dice_crossentropy: 0.4572
Epoch 00420: val_loss did not improve from 0.56201
100/100 [=====] - 92s 892ms/step - loss: 1.2510 - dice_soft:
0.6873 - dice_crossentropy: 0.4572 - val_loss: 0.6983 - val_dice_soft: 0.8254 - val_d
ice_crossentropy: 0.6783 - lr: 1.0000e-05
Epoch 421/500
100/100 [=====] - ETA: 0s - loss: 1.2583 - dice_soft: 0.6854
- dice_crossentropy: 0.4577

Epoch 00421: val_loss did not improve from 0.56201
100/100 [=====] - 92s 912ms/step - loss: 1.2583 - dice_soft:
0.6854 - dice_crossentropy: 0.4577 - val_loss: 1.3957 - val_dice_soft: 0.6511 - val_d
ice_crossentropy: 0.6058 - lr: 1.0000e-05
Epoch 422/500
100/100 [=====] - ETA: 0s - loss: 1.2858 - dice_soft: 0.6786
- dice_crossentropy: 0.4740
Epoch 00422: val_loss did not improve from 0.56201
100/100 [=====] - 89s 894ms/step - loss: 1.2858 - dice_soft:
0.6786 - dice_crossentropy: 0.4740 - val_loss: 0.6379 - val_dice_soft: 0.8405 - val_d
ice_crossentropy: 0.4389 - lr: 1.0000e-05
Epoch 423/500
100/100 [=====] - ETA: 0s - loss: 1.3277 - dice_soft: 0.6681
- dice_crossentropy: 0.4750
Epoch 00423: val_loss did not improve from 0.56201
100/100 [=====] - 90s 881ms/step - loss: 1.3277 - dice_soft:
0.6681 - dice_crossentropy: 0.4750 - val_loss: 2.1776 - val_dice_soft: 0.4556 - val_d
ice_crossentropy: 0.6210 - lr: 1.0000e-05
Epoch 424/500
100/100 [=====] - ETA: 0s - loss: 1.1949 - dice_soft: 0.7013
- dice_crossentropy: 0.4524
Epoch 00424: val_loss did not improve from 0.56201
100/100 [=====] - 89s 880ms/step - loss: 1.1949 - dice_soft:
0.7013 - dice_crossentropy: 0.4524 - val_loss: 0.7177 - val_dice_soft: 0.8206 - val_d
ice_crossentropy: 0.4611 - lr: 1.0000e-05
Epoch 425/500
100/100 [=====] - ETA: 0s - loss: 1.3505 - dice_soft: 0.6624
- dice_crossentropy: 0.4840
Epoch 00425: val_loss did not improve from 0.56201
100/100 [=====] - 94s 907ms/step - loss: 1.3505 - dice_soft:
0.6624 - dice_crossentropy: 0.4840 - val_loss: 1.6021 - val_dice_soft: 0.5995 - val_d
ice_crossentropy: 0.5071 - lr: 1.0000e-05
Epoch 426/500
100/100 [=====] - ETA: 0s - loss: 1.5407 - dice_soft: 0.6148
- dice_crossentropy: 0.5222
Epoch 00426: val_loss did not improve from 0.56201
100/100 [=====] - 92s 919ms/step - loss: 1.5407 - dice_soft:
0.6148 - dice_crossentropy: 0.5222 - val_loss: 2.3485 - val_dice_soft: 0.4129 - val_d
ice_crossentropy: 0.5948 - lr: 1.0000e-05
Epoch 427/500
100/100 [=====] - ETA: 0s - loss: 1.3202 - dice_soft: 0.6700
- dice_crossentropy: 0.4738
Epoch 00427: val_loss did not improve from 0.56201
100/100 [=====] - 91s 893ms/step - loss: 1.3202 - dice_soft:
0.6700 - dice_crossentropy: 0.4738 - val_loss: 0.6270 - val_dice_soft: 0.8432 - val_d
ice_crossentropy: 0.5920 - lr: 1.0000e-05
Epoch 428/500
100/100 [=====] - ETA: 0s - loss: 1.2494 - dice_soft: 0.6877
- dice_crossentropy: 0.4630
Epoch 00428: val_loss did not improve from 0.56201
100/100 [=====] - 89s 884ms/step - loss: 1.2494 - dice_soft:
0.6877 - dice_crossentropy: 0.4630 - val_loss: 3.0001 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7743 - lr: 1.0000e-05
Epoch 429/500
100/100 [=====] - ETA: 0s - loss: 1.3849 - dice_soft: 0.6538
- dice_crossentropy: 0.4787
Epoch 00429: val_loss did not improve from 0.56201
100/100 [=====] - 91s 879ms/step - loss: 1.3849 - dice_soft:
0.6538 - dice_crossentropy: 0.4787 - val_loss: 2.9999 - val_dice_soft: 0.2501 - val_d
ice_crossentropy: 0.7499 - lr: 1.0000e-05
Epoch 430/500
100/100 [=====] - ETA: 0s - loss: 1.2214 - dice_soft: 0.6947
- dice_crossentropy: 0.4600
Epoch 00430: val_loss did not improve from 0.56201
100/100 [=====] - 89s 878ms/step - loss: 1.2214 - dice_soft:
0.6947 - dice_crossentropy: 0.4600 - val_loss: 1.0279 - val_dice_soft: 0.7430 - val_d

ice_crossentropy: 0.4351 - lr: 1.0000e-05
Epoch 431/500
100/100 [=====] - ETA: 0s - loss: 1.2612 - dice_soft: 0.6847
- dice_crossentropy: 0.4653
Epoch 00431: val_loss did not improve from 0.56201
100/100 [=====] - 88s 881ms/step - loss: 1.2612 - dice_soft:
0.6847 - dice_crossentropy: 0.4653 - val_loss: 2.5000 - val_dice_soft: 0.3750 - val_d
ice_crossentropy: 0.6460 - lr: 1.0000e-05
Epoch 432/500
100/100 [=====] - ETA: 0s - loss: 1.3144 - dice_soft: 0.6714
- dice_crossentropy: 0.4843
Epoch 00432: val_loss did not improve from 0.56201
100/100 [=====] - 92s 889ms/step - loss: 1.3144 - dice_soft:
0.6714 - dice_crossentropy: 0.4843 - val_loss: 1.8288 - val_dice_soft: 0.5428 - val_d
ice_crossentropy: 0.6781 - lr: 1.0000e-05
Epoch 433/500
100/100 [=====] - ETA: 0s - loss: 1.2567 - dice_soft: 0.6858
- dice_crossentropy: 0.4615
Epoch 00433: val_loss did not improve from 0.56201
100/100 [=====] - 90s 877ms/step - loss: 1.2567 - dice_soft:
0.6858 - dice_crossentropy: 0.4615 - val_loss: 0.8660 - val_dice_soft: 0.7835 - val_d
ice_crossentropy: 0.5183 - lr: 1.0000e-05
Epoch 434/500
100/100 [=====] - ETA: 0s - loss: 1.2695 - dice_soft: 0.6826
- dice_crossentropy: 0.4569
Epoch 00434: val_loss did not improve from 0.56201
100/100 [=====] - 91s 873ms/step - loss: 1.2695 - dice_soft:
0.6826 - dice_crossentropy: 0.4569 - val_loss: 1.8078 - val_dice_soft: 0.5481 - val_d
ice_crossentropy: 0.6989 - lr: 1.0000e-05
Epoch 435/500
100/100 [=====] - ETA: 0s - loss: 1.4137 - dice_soft: 0.6466
- dice_crossentropy: 0.4925
Epoch 00435: val_loss did not improve from 0.56201
100/100 [=====] - 91s 889ms/step - loss: 1.4137 - dice_soft:
0.6466 - dice_crossentropy: 0.4925 - val_loss: 0.6584 - val_dice_soft: 0.8354 - val_d
ice_crossentropy: 0.6168 - lr: 1.0000e-05
Epoch 436/500
100/100 [=====] - ETA: 0s - loss: 1.3623 - dice_soft: 0.6594
- dice_crossentropy: 0.4925
Epoch 00436: val_loss did not improve from 0.56201
100/100 [=====] - 90s 879ms/step - loss: 1.3623 - dice_soft:
0.6594 - dice_crossentropy: 0.4925 - val_loss: 1.8482 - val_dice_soft: 0.5380 - val_d
ice_crossentropy: 0.6242 - lr: 1.0000e-05
Epoch 437/500
100/100 [=====] - ETA: 0s - loss: 1.1936 - dice_soft: 0.7016
- dice_crossentropy: 0.4455
Epoch 00437: val_loss did not improve from 0.56201
100/100 [=====] - 93s 910ms/step - loss: 1.1936 - dice_soft:
0.7016 - dice_crossentropy: 0.4455 - val_loss: 2.5103 - val_dice_soft: 0.3724 - val_d
ice_crossentropy: 0.6877 - lr: 1.0000e-05
Epoch 438/500
100/100 [=====] - ETA: 0s - loss: 1.2895 - dice_soft: 0.6776
- dice_crossentropy: 0.4560
Epoch 00438: val_loss did not improve from 0.56201
100/100 [=====] - 86s 859ms/step - loss: 1.2895 - dice_soft:
0.6776 - dice_crossentropy: 0.4560 - val_loss: 1.8422 - val_dice_soft: 0.5395 - val_d
ice_crossentropy: 0.7011 - lr: 1.0000e-05
Epoch 439/500
100/100 [=====] - ETA: 0s - loss: 1.2909 - dice_soft: 0.6773
- dice_crossentropy: 0.4759
Epoch 00439: val_loss did not improve from 0.56201
100/100 [=====] - 90s 882ms/step - loss: 1.2909 - dice_soft:
0.6773 - dice_crossentropy: 0.4759 - val_loss: 2.9999 - val_dice_soft: 0.2501 - val_d
ice_crossentropy: 0.7499 - lr: 1.0000e-05
Epoch 440/500
100/100 [=====] - ETA: 0s - loss: 1.4413 - dice_soft: 0.6397

- dice_crossentropy: 0.5000
Epoch 00440: val_loss did not improve from 0.56201
100/100 [=====] - 92s 910ms/step - loss: 1.4413 - dice_soft:
0.6397 - dice_crossentropy: 0.5000 - val_loss: 2.0772 - val_dice_soft: 0.4807 - val_d
ice_crossentropy: 0.5803 - lr: 1.0000e-05
Epoch 441/500
100/100 [=====] - ETA: 0s - loss: 1.2768 - dice_soft: 0.6808
- dice_crossentropy: 0.4626
Epoch 00441: val_loss did not improve from 0.56201
100/100 [=====] - 91s 895ms/step - loss: 1.2768 - dice_soft:
0.6808 - dice_crossentropy: 0.4626 - val_loss: 1.3626 - val_dice_soft: 0.6594 - val_d
ice_crossentropy: 0.5471 - lr: 1.0000e-05
Epoch 442/500
100/100 [=====] - ETA: 0s - loss: 1.2663 - dice_soft: 0.6834
- dice_crossentropy: 0.4677
Epoch 00442: val_loss did not improve from 0.56201
100/100 [=====] - 90s 877ms/step - loss: 1.2663 - dice_soft:
0.6834 - dice_crossentropy: 0.4677 - val_loss: 0.9805 - val_dice_soft: 0.7549 - val_d
ice_crossentropy: 0.3858 - lr: 1.0000e-05
Epoch 443/500
100/100 [=====] - ETA: 0s - loss: 1.3605 - dice_soft: 0.6599
- dice_crossentropy: 0.4710
Epoch 00443: val_loss did not improve from 0.56201
100/100 [=====] - 91s 872ms/step - loss: 1.3605 - dice_soft:
0.6599 - dice_crossentropy: 0.4710 - val_loss: 1.2876 - val_dice_soft: 0.6781 - val_d
ice_crossentropy: 0.3608 - lr: 1.0000e-05
Epoch 444/500
100/100 [=====] - ETA: 0s - loss: 1.3484 - dice_soft: 0.6629
- dice_crossentropy: 0.4838
Epoch 00444: val_loss did not improve from 0.56201
100/100 [=====] - 89s 892ms/step - loss: 1.3484 - dice_soft:
0.6629 - dice_crossentropy: 0.4838 - val_loss: 0.9845 - val_dice_soft: 0.7539 - val_d
ice_crossentropy: 0.3748 - lr: 1.0000e-05
Epoch 445/500
100/100 [=====] - ETA: 0s - loss: 1.3255 - dice_soft: 0.6686
- dice_crossentropy: 0.4717
Epoch 00445: val_loss did not improve from 0.56201
100/100 [=====] - 89s 877ms/step - loss: 1.3255 - dice_soft:
0.6686 - dice_crossentropy: 0.4717 - val_loss: 1.0559 - val_dice_soft: 0.7360 - val_d
ice_crossentropy: 0.4255 - lr: 1.0000e-05
Epoch 446/500
100/100 [=====] - ETA: 0s - loss: 1.2862 - dice_soft: 0.6784
- dice_crossentropy: 0.4666
Epoch 00446: val_loss did not improve from 0.56201
100/100 [=====] - 89s 881ms/step - loss: 1.2862 - dice_soft:
0.6784 - dice_crossentropy: 0.4666 - val_loss: 2.2634 - val_dice_soft: 0.4342 - val_d
ice_crossentropy: 0.5714 - lr: 1.0000e-05
Epoch 447/500
100/100 [=====] - ETA: 0s - loss: 1.2912 - dice_soft: 0.6772
- dice_crossentropy: 0.4640
Epoch 00447: val_loss did not improve from 0.56201
100/100 [=====] - 89s 885ms/step - loss: 1.2912 - dice_soft:
0.6772 - dice_crossentropy: 0.4640 - val_loss: 0.7039 - val_dice_soft: 0.8240 - val_d
ice_crossentropy: 0.5249 - lr: 1.0000e-05
Epoch 448/500
100/100 [=====] - ETA: 0s - loss: 1.3448 - dice_soft: 0.6638
- dice_crossentropy: 0.4776
Epoch 00448: val_loss did not improve from 0.56201
100/100 [=====] - 93s 909ms/step - loss: 1.3448 - dice_soft:
0.6638 - dice_crossentropy: 0.4776 - val_loss: 0.8760 - val_dice_soft: 0.7810 - val_d
ice_crossentropy: 0.4124 - lr: 1.0000e-05
Epoch 449/500
100/100 [=====] - ETA: 0s - loss: 1.3045 - dice_soft: 0.6739
- dice_crossentropy: 0.4656
Epoch 00449: val_loss did not improve from 0.56201
100/100 [=====] - 91s 900ms/step - loss: 1.3045 - dice_soft:

0.6739 - dice_crossentropy: 0.4656 - val_loss: 1.8199 - val_dice_soft: 0.5451 - val_dice_crossentropy: 0.6840 - lr: 1.0000e-05
Epoch 450/500
100/100 [=====] - ETA: 0s - loss: 1.2476 - dice_soft: 0.6881
- dice_crossentropy: 0.4671
Epoch 00450: val_loss did not improve from 0.56201
100/100 [=====] - 90s 881ms/step - loss: 1.2476 - dice_soft:
0.6881 - dice_crossentropy: 0.4671 - val_loss: 1.7800 - val_dice_soft: 0.5550 - val_dice_crossentropy: 0.6649 - lr: 1.0000e-05
Epoch 451/500
100/100 [=====] - ETA: 0s - loss: 1.3222 - dice_soft: 0.6695
- dice_crossentropy: 0.4634
Epoch 00451: val_loss did not improve from 0.56201
100/100 [=====] - 90s 874ms/step - loss: 1.3222 - dice_soft:
0.6695 - dice_crossentropy: 0.4634 - val_loss: 2.5580 - val_dice_soft: 0.3605 - val_dice_crossentropy: 0.6527 - lr: 1.0000e-05
Epoch 452/500
100/100 [=====] - ETA: 0s - loss: 1.2270 - dice_soft: 0.6932
- dice_crossentropy: 0.4609
Epoch 00452: val_loss did not improve from 0.56201
100/100 [=====] - 87s 865ms/step - loss: 1.2270 - dice_soft:
0.6932 - dice_crossentropy: 0.4609 - val_loss: 2.9999 - val_dice_soft: 0.2501 - val_dice_crossentropy: 0.7499 - lr: 1.0000e-05
Epoch 453/500
100/100 [=====] - ETA: 0s - loss: 1.2298 - dice_soft: 0.6925
- dice_crossentropy: 0.4512
Epoch 00453: val_loss did not improve from 0.56201
100/100 [=====] - 91s 887ms/step - loss: 1.2298 - dice_soft:
0.6925 - dice_crossentropy: 0.4512 - val_loss: 0.6483 - val_dice_soft: 0.8379 - val_dice_crossentropy: 0.4805 - lr: 1.0000e-05
Epoch 454/500
100/100 [=====] - ETA: 0s - loss: 1.3743 - dice_soft: 0.6564
- dice_crossentropy: 0.4825
Epoch 00454: val_loss did not improve from 0.56201
100/100 [=====] - 92s 907ms/step - loss: 1.3743 - dice_soft:
0.6564 - dice_crossentropy: 0.4825 - val_loss: 0.6535 - val_dice_soft: 0.8366 - val_dice_crossentropy: 0.5790 - lr: 1.0000e-05
Epoch 455/500
100/100 [=====] - ETA: 0s - loss: 1.3743 - dice_soft: 0.6564
- dice_crossentropy: 0.4924
Epoch 00455: val_loss did not improve from 0.56201
100/100 [=====] - 85s 851ms/step - loss: 1.3743 - dice_soft:
0.6564 - dice_crossentropy: 0.4924 - val_loss: 0.7254 - val_dice_soft: 0.8187 - val_dice_crossentropy: 0.5853 - lr: 1.0000e-05
Epoch 456/500
100/100 [=====] - ETA: 0s - loss: 1.3807 - dice_soft: 0.6548
- dice_crossentropy: 0.4870
Epoch 00456: val_loss did not improve from 0.56201
100/100 [=====] - 92s 892ms/step - loss: 1.3807 - dice_soft:
0.6548 - dice_crossentropy: 0.4870 - val_loss: 1.3652 - val_dice_soft: 0.6587 - val_dice_crossentropy: 0.4817 - lr: 1.0000e-05
Epoch 457/500
100/100 [=====] - ETA: 0s - loss: 1.2070 - dice_soft: 0.6982
- dice_crossentropy: 0.4486
Epoch 00457: val_loss did not improve from 0.56201
100/100 [=====] - 89s 890ms/step - loss: 1.2070 - dice_soft:
0.6982 - dice_crossentropy: 0.4486 - val_loss: 1.7985 - val_dice_soft: 0.5504 - val_dice_crossentropy: 0.6493 - lr: 1.0000e-05
Epoch 458/500
100/100 [=====] - ETA: 0s - loss: 1.2601 - dice_soft: 0.6850
- dice_crossentropy: 0.4617
Epoch 00458: val_loss did not improve from 0.56201
100/100 [=====] - 91s 887ms/step - loss: 1.2601 - dice_soft:
0.6850 - dice_crossentropy: 0.4617 - val_loss: 1.8795 - val_dice_soft: 0.5301 - val_dice_crossentropy: 0.5389 - lr: 1.0000e-05

```
100/100 [=====] - ETA: 0s - loss: 1.2577 - dice_soft: 0.6856
- dice_crossentropy: 0.4636
Epoch 00459: val_loss did not improve from 0.56201
100/100 [=====] - 88s 877ms/step - loss: 1.2577 - dice_soft:
0.6856 - dice_crossentropy: 0.4636 - val_loss: 0.6730 - val_dice_soft: 0.8317 - val_d
ice_crossentropy: 0.4747 - lr: 1.0000e-05
Epoch 460/500
100/100 [=====] - ETA: 0s - loss: 1.2582 - dice_soft: 0.6854
- dice_crossentropy: 0.4697
Epoch 00460: val_loss did not improve from 0.56201
100/100 [=====] - 92s 916ms/step - loss: 1.2582 - dice_soft:
0.6854 - dice_crossentropy: 0.4697 - val_loss: 3.0000 - val_dice_soft: 0.2501 - val_d
ice_crossentropy: 0.7499 - lr: 1.0000e-05
Epoch 461/500
100/100 [=====] - ETA: 0s - loss: 1.2902 - dice_soft: 0.6775
- dice_crossentropy: 0.4597
Epoch 00461: val_loss did not improve from 0.56201
100/100 [=====] - 91s 902ms/step - loss: 1.2902 - dice_soft:
0.6775 - dice_crossentropy: 0.4597 - val_loss: 0.6313 - val_dice_soft: 0.8422 - val_d
ice_crossentropy: 0.4625 - lr: 1.0000e-05
Epoch 462/500
100/100 [=====] - ETA: 0s - loss: 1.2368 - dice_soft: 0.6908
- dice_crossentropy: 0.4576
Epoch 00462: val_loss did not improve from 0.56201
100/100 [=====] - 91s 883ms/step - loss: 1.2368 - dice_soft:
0.6908 - dice_crossentropy: 0.4576 - val_loss: 3.0000 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7504 - lr: 1.0000e-05
Epoch 463/500
100/100 [=====] - ETA: 0s - loss: 1.2211 - dice_soft: 0.6947
- dice_crossentropy: 0.4585
Epoch 00463: val_loss did not improve from 0.56201
100/100 [=====] - 91s 892ms/step - loss: 1.2211 - dice_soft:
0.6947 - dice_crossentropy: 0.4585 - val_loss: 1.4423 - val_dice_soft: 0.6394 - val_d
ice_crossentropy: 0.4714 - lr: 1.0000e-05
Epoch 464/500
100/100 [=====] - ETA: 0s - loss: 1.2884 - dice_soft: 0.6779
- dice_crossentropy: 0.4719
Epoch 00464: val_loss did not improve from 0.56201
100/100 [=====] - 91s 895ms/step - loss: 1.2884 - dice_soft:
0.6779 - dice_crossentropy: 0.4719 - val_loss: 0.6615 - val_dice_soft: 0.8346 - val_d
ice_crossentropy: 0.5418 - lr: 1.0000e-05
Epoch 465/500
100/100 [=====] - ETA: 0s - loss: 1.3618 - dice_soft: 0.6595
- dice_crossentropy: 0.4799
Epoch 00465: val_loss did not improve from 0.56201
100/100 [=====] - 90s 875ms/step - loss: 1.3618 - dice_soft:
0.6595 - dice_crossentropy: 0.4799 - val_loss: 2.1981 - val_dice_soft: 0.4505 - val_d
ice_crossentropy: 0.5887 - lr: 1.0000e-05
Epoch 466/500
100/100 [=====] - ETA: 0s - loss: 1.1869 - dice_soft: 0.7033
- dice_crossentropy: 0.4494
Epoch 00466: val_loss did not improve from 0.56201
100/100 [=====] - 91s 903ms/step - loss: 1.1869 - dice_soft:
0.7033 - dice_crossentropy: 0.4494 - val_loss: 0.7025 - val_dice_soft: 0.8244 - val_d
ice_crossentropy: 0.6740 - lr: 1.0000e-05
Epoch 467/500
100/100 [=====] - ETA: 0s - loss: 1.3595 - dice_soft: 0.6601
- dice_crossentropy: 0.4858
Epoch 00467: val_loss did not improve from 0.56201
100/100 [=====] - 93s 909ms/step - loss: 1.3595 - dice_soft:
0.6601 - dice_crossentropy: 0.4858 - val_loss: 1.7931 - val_dice_soft: 0.5517 - val_d
ice_crossentropy: 0.6662 - lr: 1.0000e-05
Epoch 468/500
100/100 [=====] - ETA: 0s - loss: 1.3116 - dice_soft: 0.6721
- dice_crossentropy: 0.4819
Epoch 00468: val_loss did not improve from 0.56201
```

```
100/100 [=====] - 89s 875ms/step - loss: 1.3116 - dice_soft:
 0.6721 - dice_crossentropy: 0.4819 - val_loss: 0.6432 - val_dice_soft: 0.8392 - val_d
ice_crossentropy: 0.5996 - lr: 1.0000e-05
Epoch 469/500
100/100 [=====] - ETA: 0s - loss: 1.2820 - dice_soft: 0.6795
 - dice_crossentropy: 0.4681
Epoch 00469: val_loss did not improve from 0.56201
100/100 [=====] - 91s 884ms/step - loss: 1.2820 - dice_soft:
 0.6795 - dice_crossentropy: 0.4681 - val_loss: 1.0322 - val_dice_soft: 0.7419 - val_d
ice_crossentropy: 0.4660 - lr: 1.0000e-05
Epoch 470/500
100/100 [=====] - ETA: 0s - loss: 1.3157 - dice_soft: 0.6711
 - dice_crossentropy: 0.4838
Epoch 00470: val_loss did not improve from 0.56201
100/100 [=====] - 91s 901ms/step - loss: 1.3157 - dice_soft:
 0.6711 - dice_crossentropy: 0.4838 - val_loss: 1.5310 - val_dice_soft: 0.6172 - val_d
ice_crossentropy: 0.4366 - lr: 1.0000e-05
Epoch 471/500
100/100 [=====] - ETA: 0s - loss: 1.3108 - dice_soft: 0.6723
 - dice_crossentropy: 0.4717
Epoch 00471: val_loss did not improve from 0.56201
100/100 [=====] - 89s 880ms/step - loss: 1.3108 - dice_soft:
 0.6723 - dice_crossentropy: 0.4717 - val_loss: 1.1644 - val_dice_soft: 0.7089 - val_d
ice_crossentropy: 0.4623 - lr: 1.0000e-05
Epoch 472/500
100/100 [=====] - ETA: 0s - loss: 1.2605 - dice_soft: 0.6849
 - dice_crossentropy: 0.4589
Epoch 00472: val_loss did not improve from 0.56201
100/100 [=====] - 88s 871ms/step - loss: 1.2605 - dice_soft:
 0.6849 - dice_crossentropy: 0.4589 - val_loss: 2.5544 - val_dice_soft: 0.3614 - val_d
ice_crossentropy: 0.6933 - lr: 1.0000e-05
Epoch 473/500
100/100 [=====] - ETA: 0s - loss: 1.2523 - dice_soft: 0.6869
 - dice_crossentropy: 0.4723
Epoch 00473: val_loss did not improve from 0.56201
100/100 [=====] - 90s 887ms/step - loss: 1.2523 - dice_soft:
 0.6869 - dice_crossentropy: 0.4723 - val_loss: 0.6056 - val_dice_soft: 0.8486 - val_d
ice_crossentropy: 0.5469 - lr: 1.0000e-05
Epoch 474/500
100/100 [=====] - ETA: 0s - loss: 1.3481 - dice_soft: 0.6630
 - dice_crossentropy: 0.4728
Epoch 00474: val_loss did not improve from 0.56201
100/100 [=====] - 95s 905ms/step - loss: 1.3481 - dice_soft:
 0.6630 - dice_crossentropy: 0.4728 - val_loss: 0.6303 - val_dice_soft: 0.8424 - val_d
ice_crossentropy: 0.5469 - lr: 1.0000e-05
Epoch 475/500
100/100 [=====] - ETA: 0s - loss: 1.1411 - dice_soft: 0.7147
 - dice_crossentropy: 0.4336
Epoch 00475: val_loss did not improve from 0.56201
100/100 [=====] - 88s 870ms/step - loss: 1.1411 - dice_soft:
 0.7147 - dice_crossentropy: 0.4336 - val_loss: 0.8894 - val_dice_soft: 0.7776 - val_d
ice_crossentropy: 0.6137 - lr: 1.0000e-05
Epoch 476/500
100/100 [=====] - ETA: 0s - loss: 1.3052 - dice_soft: 0.6737
 - dice_crossentropy: 0.4680
Epoch 00476: val_loss did not improve from 0.56201
100/100 [=====] - 91s 880ms/step - loss: 1.3052 - dice_soft:
 0.6737 - dice_crossentropy: 0.4680 - val_loss: 3.0001 - val_dice_soft: 0.2500 - val_d
ice_crossentropy: 0.7580 - lr: 1.0000e-05
Epoch 477/500
100/100 [=====] - ETA: 0s - loss: 1.2539 - dice_soft: 0.6865
 - dice_crossentropy: 0.4525
Epoch 00477: val_loss did not improve from 0.56201
100/100 [=====] - 93s 895ms/step - loss: 1.2539 - dice_soft:
 0.6865 - dice_crossentropy: 0.4525 - val_loss: 1.5110 - val_dice_soft: 0.6222 - val_d
ice_crossentropy: 0.5478 - lr: 1.0000e-05
```

Epoch 478/500
100/100 [=====] - ETA: 0s - loss: 1.2933 - dice_soft: 0.6767
- dice_crossentropy: 0.4879
Epoch 00478: val_loss did not improve from 0.56201
100/100 [=====] - 90s 891ms/step - loss: 1.2933 - dice_soft:
0.6767 - dice_crossentropy: 0.4879 - val_loss: 2.1852 - val_dice_soft: 0.4537 - val_d
ice_crossentropy: 0.5705 - lr: 1.0000e-05
Epoch 479/500
100/100 [=====] - ETA: 0s - loss: 1.3623 - dice_soft: 0.6594
- dice_crossentropy: 0.4825
Epoch 00479: val_loss did not improve from 0.56201
100/100 [=====] - 89s 892ms/step - loss: 1.3623 - dice_soft:
0.6594 - dice_crossentropy: 0.4825 - val_loss: 0.7469 - val_dice_soft: 0.8133 - val_d
ice_crossentropy: 0.6273 - lr: 1.0000e-05
Epoch 480/500
100/100 [=====] - ETA: 0s - loss: 1.2272 - dice_soft: 0.6932
- dice_crossentropy: 0.4563
Epoch 00480: val_loss did not improve from 0.56201
100/100 [=====] - 90s 900ms/step - loss: 1.2272 - dice_soft:
0.6932 - dice_crossentropy: 0.4563 - val_loss: 1.5483 - val_dice_soft: 0.6129 - val_d
ice_crossentropy: 0.6459 - lr: 1.0000e-05
Epoch 481/500
100/100 [=====] - ETA: 0s - loss: 1.3127 - dice_soft: 0.6718
- dice_crossentropy: 0.4802
Epoch 00481: val_loss did not improve from 0.56201
100/100 [=====] - 90s 875ms/step - loss: 1.3127 - dice_soft:
0.6718 - dice_crossentropy: 0.4802 - val_loss: 0.7304 - val_dice_soft: 0.8174 - val_d
ice_crossentropy: 0.6172 - lr: 1.0000e-05
Epoch 482/500
100/100 [=====] - ETA: 0s - loss: 1.2848 - dice_soft: 0.6788
- dice_crossentropy: 0.4764
Epoch 00482: val_loss did not improve from 0.56201
100/100 [=====] - 91s 903ms/step - loss: 1.2848 - dice_soft:
0.6788 - dice_crossentropy: 0.4764 - val_loss: 1.8583 - val_dice_soft: 0.5354 - val_d
ice_crossentropy: 0.5411 - lr: 1.0000e-05
Epoch 483/500
100/100 [=====] - ETA: 0s - loss: 1.4289 - dice_soft: 0.6428
- dice_crossentropy: 0.4895
Epoch 00483: val_loss did not improve from 0.56201
100/100 [=====] - 90s 901ms/step - loss: 1.4289 - dice_soft:
0.6428 - dice_crossentropy: 0.4895 - val_loss: 1.0035 - val_dice_soft: 0.7491 - val_d
ice_crossentropy: 0.4022 - lr: 1.0000e-05
Epoch 484/500
100/100 [=====] - ETA: 0s - loss: 1.1767 - dice_soft: 0.7058
- dice_crossentropy: 0.4408
Epoch 00484: val_loss did not improve from 0.56201
100/100 [=====] - 89s 895ms/step - loss: 1.1767 - dice_soft:
0.7058 - dice_crossentropy: 0.4408 - val_loss: 0.6908 - val_dice_soft: 0.8273 - val_d
ice_crossentropy: 0.6363 - lr: 1.0000e-05
Epoch 485/500
100/100 [=====] - ETA: 0s - loss: 1.3024 - dice_soft: 0.6744
- dice_crossentropy: 0.4607
Epoch 00485: val_loss did not improve from 0.56201
100/100 [=====] - 88s 861ms/step - loss: 1.3024 - dice_soft:
0.6744 - dice_crossentropy: 0.4607 - val_loss: 2.2315 - val_dice_soft: 0.4421 - val_d
ice_crossentropy: 0.5817 - lr: 1.0000e-05
Epoch 486/500
100/100 [=====] - ETA: 0s - loss: 1.3292 - dice_soft: 0.6677
- dice_crossentropy: 0.4704
Epoch 00486: val_loss did not improve from 0.56201
100/100 [=====] - 90s 886ms/step - loss: 1.3292 - dice_soft:
0.6677 - dice_crossentropy: 0.4704 - val_loss: 3.0000 - val_dice_soft: 0.2501 - val_d
ice_crossentropy: 0.7500 - lr: 1.0000e-05
Epoch 487/500
100/100 [=====] - ETA: 0s - loss: 1.3666 - dice_soft: 0.6583
- dice_crossentropy: 0.4813

Epoch 00487: val_loss did not improve from 0.56201
100/100 [=====] - 89s 887ms/step - loss: 1.3666 - dice_soft:
0.6583 - dice_crossentropy: 0.4813 - val_loss: 0.6521 - val_dice_soft: 0.8370 - val_d
ice_crossentropy: 0.5839 - lr: 1.0000e-05
Epoch 488/500
100/100 [=====] - ETA: 0s - loss: 1.3117 - dice_soft: 0.6721
- dice_crossentropy: 0.4705
Epoch 00488: val_loss did not improve from 0.56201
100/100 [=====] - 91s 887ms/step - loss: 1.3117 - dice_soft:
0.6721 - dice_crossentropy: 0.4705 - val_loss: 2.5296 - val_dice_soft: 0.3676 - val_d
ice_crossentropy: 0.6331 - lr: 1.0000e-05
Epoch 489/500
100/100 [=====] - ETA: 0s - loss: 1.2350 - dice_soft: 0.6913
- dice_crossentropy: 0.4507
Epoch 00489: val_loss did not improve from 0.56201
100/100 [=====] - 85s 850ms/step - loss: 1.2350 - dice_soft:
0.6913 - dice_crossentropy: 0.4507 - val_loss: 0.6148 - val_dice_soft: 0.8463 - val_d
ice_crossentropy: 0.5389 - lr: 1.0000e-05
Epoch 490/500
100/100 [=====] - ETA: 0s - loss: 1.4224 - dice_soft: 0.6444
- dice_crossentropy: 0.5053
Epoch 00490: val_loss did not improve from 0.56201
100/100 [=====] - 90s 894ms/step - loss: 1.4224 - dice_soft:
0.6444 - dice_crossentropy: 0.5053 - val_loss: 0.8147 - val_dice_soft: 0.7963 - val_d
ice_crossentropy: 0.3452 - lr: 1.0000e-05
Epoch 491/500
100/100 [=====] - ETA: 0s - loss: 1.4413 - dice_soft: 0.6397
- dice_crossentropy: 0.4851
Epoch 00491: val_loss did not improve from 0.56201
100/100 [=====] - 89s 884ms/step - loss: 1.4413 - dice_soft:
0.6397 - dice_crossentropy: 0.4851 - val_loss: 0.6543 - val_dice_soft: 0.8364 - val_d
ice_crossentropy: 0.6257 - lr: 1.0000e-05
Epoch 492/500
100/100 [=====] - ETA: 0s - loss: 1.2233 - dice_soft: 0.6942
- dice_crossentropy: 0.4601
Epoch 00492: val_loss did not improve from 0.56201
100/100 [=====] - 91s 903ms/step - loss: 1.2233 - dice_soft:
0.6942 - dice_crossentropy: 0.4601 - val_loss: 1.0480 - val_dice_soft: 0.7380 - val_d
ice_crossentropy: 0.3641 - lr: 1.0000e-05
Epoch 493/500
100/100 [=====] - ETA: 0s - loss: 1.3456 - dice_soft: 0.6636
- dice_crossentropy: 0.4807
Epoch 00493: val_loss did not improve from 0.56201
100/100 [=====] - 90s 878ms/step - loss: 1.3456 - dice_soft:
0.6636 - dice_crossentropy: 0.4807 - val_loss: 1.0967 - val_dice_soft: 0.7258 - val_d
ice_crossentropy: 0.5335 - lr: 1.0000e-05
Epoch 494/500
100/100 [=====] - ETA: 0s - loss: 1.3433 - dice_soft: 0.6642
- dice_crossentropy: 0.4763
Epoch 00494: val_loss did not improve from 0.56201
100/100 [=====] - 90s 898ms/step - loss: 1.3433 - dice_soft:
0.6642 - dice_crossentropy: 0.4763 - val_loss: 1.0666 - val_dice_soft: 0.7333 - val_d
ice_crossentropy: 0.5239 - lr: 1.0000e-05
Epoch 495/500
100/100 [=====] - ETA: 0s - loss: 1.2339 - dice_soft: 0.6915
- dice_crossentropy: 0.4642
Epoch 00495: val_loss did not improve from 0.56201
100/100 [=====] - 92s 911ms/step - loss: 1.2339 - dice_soft:
0.6915 - dice_crossentropy: 0.4642 - val_loss: 0.7872 - val_dice_soft: 0.8032 - val_d
ice_crossentropy: 0.4346 - lr: 1.0000e-05
Epoch 496/500
100/100 [=====] - ETA: 0s - loss: 1.2652 - dice_soft: 0.6837
- dice_crossentropy: 0.4689
Epoch 00496: val_loss did not improve from 0.56201
100/100 [=====] - 90s 879ms/step - loss: 1.2652 - dice_soft:
0.6837 - dice_crossentropy: 0.4689 - val_loss: 1.0437 - val_dice_soft: 0.7391 - val_d

```
ice_crossentropy: 0.4831 - lr: 1.0000e-05
Epoch 497/500
100/100 [=====] - ETA: 0s - loss: 1.3463 - dice_soft: 0.6634
- dice_crossentropy: 0.4692
Epoch 00497: val_loss did not improve from 0.56201
100/100 [=====] - 91s 903ms/step - loss: 1.3463 - dice_soft:
0.6634 - dice_crossentropy: 0.4692 - val_loss: 1.8477 - val_dice_soft: 0.5381 - val_d
ice_crossentropy: 0.6824 - lr: 1.0000e-05
Epoch 498/500
100/100 [=====] - ETA: 0s - loss: 1.3148 - dice_soft: 0.6713
- dice_crossentropy: 0.4667
Epoch 00498: val_loss did not improve from 0.56201
100/100 [=====] - 91s 876ms/step - loss: 1.3148 - dice_soft:
0.6713 - dice_crossentropy: 0.4667 - val_loss: 2.4932 - val_dice_soft: 0.3767 - val_d
ice_crossentropy: 0.6653 - lr: 1.0000e-05
Epoch 499/500
100/100 [=====] - ETA: 0s - loss: 1.3257 - dice_soft: 0.6686
- dice_crossentropy: 0.4727
Epoch 00499: val_loss improved from 0.56201 to 0.53365, saving model to evaluation/fol
d_0/model.hdf5
100/100 [=====] - 92s 909ms/step - loss: 1.3257 - dice_soft:
0.6686 - dice_crossentropy: 0.4727 - val_loss: 0.5336 - val_dice_soft: 0.8666 - val_d
ice_crossentropy: 0.4797 - lr: 1.0000e-05
Epoch 500/500
100/100 [=====] - ETA: 0s - loss: 1.3731 - dice_soft: 0.6567
- dice_crossentropy: 0.4926
Epoch 00500: val_loss did not improve from 0.53365
100/100 [=====] - 91s 914ms/step - loss: 1.3731 - dice_soft:
0.6567 - dice_crossentropy: 0.4926 - val_loss: 1.9321 - val_dice_soft: 0.5170 - val_d
ice_crossentropy: 0.6700 - lr: 1.0000e-05
/home/jmamede/.local/lib/python3.8/site-packages/keras/optimizer_v2/adam.py:105: UserW
arning: The `lr` argument is deprecated, use `learning_rate` instead.
super(Adam, self).__init__(name, **kwargs)
```

```
constructed data generation
Epoch 1/500
100/100 [=====] - ETA: 0s - loss: 3.2081 - dice_soft: 0.1980
- dice_crossentropy: 3.6502
Epoch 00001: val_loss improved from inf to 3.09118, saving model to evaluation/fold_1/
model.hdf5
100/100 [=====] - 92s 900ms/step - loss: 3.2081 - dice_soft:
0.1980 - dice_crossentropy: 3.6502 - val_loss: 3.0912 - val_dice_soft: 0.2285 - val_di
ce_crossentropy: 1.3980 - lr: 1.0000e-04
Epoch 2/500
100/100 [=====] - ETA: 0s - loss: 3.0625 - dice_soft: 0.2344
- dice_crossentropy: 3.7247
Epoch 00002: val_loss improved from 3.09118 to 3.02143, saving model to evaluation/fol
d_1/model.hdf5
100/100 [=====] - 92s 921ms/step - loss: 3.0625 - dice_soft:
0.2344 - dice_crossentropy: 3.7247 - val_loss: 3.0214 - val_dice_soft: 0.2444 - val_di
ce_crossentropy: 1.8246 - lr: 1.0000e-04
Epoch 3/500
100/100 [=====] - ETA: 0s - loss: 2.9628 - dice_soft: 0.2593
- dice_crossentropy: 4.2995
Epoch 00003: val_loss did not improve from 3.02143
100/100 [=====] - 87s 859ms/step - loss: 2.9628 - dice_soft:
0.2593 - dice_crossentropy: 4.2995 - val_loss: 3.0329 - val_dice_soft: 0.2417 - val_di
ce_crossentropy: 1.3620 - lr: 1.0000e-04
Epoch 4/500
100/100 [=====] - ETA: 0s - loss: 2.8250 - dice_soft: 0.2937
- dice_crossentropy: 4.9674
Epoch 00004: val_loss improved from 3.02143 to 3.01187, saving model to evaluation/fol
d_1/model.hdf5
100/100 [=====] - 94s 933ms/step - loss: 2.8250 - dice_soft:
0.2937 - dice_crossentropy: 4.9674 - val_loss: 3.0119 - val_dice_soft: 0.2460 - val_di
ce_crossentropy: 1.8479 - lr: 1.0000e-04
Epoch 5/500
100/100 [=====] - ETA: 0s - loss: 2.7257 - dice_soft: 0.3186
- dice_crossentropy: 5.5071
Epoch 00005: val_loss improved from 3.01187 to 2.96509, saving model to evaluation/fol
d_1/model.hdf5
100/100 [=====] - 90s 896ms/step - loss: 2.7257 - dice_soft:
0.3186 - dice_crossentropy: 5.5071 - val_loss: 2.9651 - val_dice_soft: 0.2554 - val_di
ce_crossentropy: 1.9620 - lr: 1.0000e-04
Epoch 6/500
100/100 [=====] - ETA: 0s - loss: 2.6021 - dice_soft: 0.3495
- dice_crossentropy: 5.8109
Epoch 00006: val_loss improved from 2.96509 to 2.65204, saving model to evaluation/fol
d_1/model.hdf5
100/100 [=====] - 92s 918ms/step - loss: 2.6021 - dice_soft:
0.3495 - dice_crossentropy: 5.8109 - val_loss: 2.6520 - val_dice_soft: 0.3240 - val_di
ce_crossentropy: 2.9512 - lr: 1.0000e-04
Epoch 7/500
100/100 [=====] - ETA: 0s - loss: 2.5685 - dice_soft: 0.3579
- dice_crossentropy: 6.0103
Epoch 00007: val_loss improved from 2.65204 to 2.45106, saving model to evaluation/fol
d_1/model.hdf5
100/100 [=====] - 91s 906ms/step - loss: 2.5685 - dice_soft:
0.3579 - dice_crossentropy: 6.0103 - val_loss: 2.4511 - val_dice_soft: 0.3975 - val_di
ce_crossentropy: 7.5784 - lr: 1.0000e-04
Epoch 8/500
100/100 [=====] - ETA: 0s - loss: 2.5563 - dice_soft: 0.3609
- dice_crossentropy: 6.2259
Epoch 00008: val_loss did not improve from 2.45106
100/100 [=====] - 91s 876ms/step - loss: 2.5563 - dice_soft:
0.3609 - dice_crossentropy: 6.2259 - val_loss: 2.5495 - val_dice_soft: 0.3798 - val_di
ce_crossentropy: 5.3707 - lr: 1.0000e-04
Epoch 9/500
100/100 [=====] - ETA: 0s - loss: 2.4810 - dice_soft: 0.3797
- dice_crossentropy: 6.2788
```

Epoch 00009: val_loss improved from 2.45106 to 2.37829, saving model to evaluation/fo
d_1/model.hdf5
100/100 [=====] - 95s 924ms/step - loss: 2.4810 - dice_soft:
0.3797 - dice_crossentropy: 6.2788 - val_loss: 2.3783 - val_dice_soft: 0.4174 - val_di
ce_crossentropy: 6.8529 - lr: 1.0000e-04
Epoch 10/500
100/100 [=====] - ETA: 0s - loss: 2.4177 - dice_soft: 0.3956
- dice_crossentropy: 6.4107
Epoch 00010: val_loss improved from 2.37829 to 2.02818, saving model to evaluation/fo
d_1/model.hdf5
100/100 [=====] - 90s 872ms/step - loss: 2.4177 - dice_soft:
0.3956 - dice_crossentropy: 6.4107 - val_loss: 2.0282 - val_dice_soft: 0.5066 - val_di
ce_crossentropy: 5.8266 - lr: 1.0000e-04
Epoch 11/500
100/100 [=====] - ETA: 0s - loss: 2.3069 - dice_soft: 0.4233
- dice_crossentropy: 6.2916
Epoch 00011: val_loss did not improve from 2.02818
100/100 [=====] - 91s 902ms/step - loss: 2.3069 - dice_soft:
0.4233 - dice_crossentropy: 6.2916 - val_loss: 2.5260 - val_dice_soft: 0.4125 - val_di
ce_crossentropy: 4.6069 - lr: 1.0000e-04
Epoch 12/500
100/100 [=====] - ETA: 0s - loss: 2.3559 - dice_soft: 0.4110
- dice_crossentropy: 6.3021
Epoch 00012: val_loss did not improve from 2.02818
100/100 [=====] - 90s 868ms/step - loss: 2.3559 - dice_soft:
0.4110 - dice_crossentropy: 6.3021 - val_loss: 2.3340 - val_dice_soft: 0.3979 - val_di
ce_crossentropy: 6.0539 - lr: 1.0000e-04
Epoch 13/500
100/100 [=====] - ETA: 0s - loss: 2.3424 - dice_soft: 0.4144
- dice_crossentropy: 6.3203
Epoch 00013: val_loss did not improve from 2.02818
100/100 [=====] - 92s 903ms/step - loss: 2.3424 - dice_soft:
0.4144 - dice_crossentropy: 6.3203 - val_loss: 2.2224 - val_dice_soft: 0.4490 - val_di
ce_crossentropy: 5.5667 - lr: 1.0000e-04
Epoch 14/500
100/100 [=====] - ETA: 0s - loss: 2.2890 - dice_soft: 0.4278
- dice_crossentropy: 6.2949
Epoch 00014: val_loss did not improve from 2.02818
100/100 [=====] - 95s 929ms/step - loss: 2.2890 - dice_soft:
0.4278 - dice_crossentropy: 6.2949 - val_loss: 2.5866 - val_dice_soft: 0.3501 - val_di
ce_crossentropy: 3.3777 - lr: 1.0000e-04
Epoch 15/500
100/100 [=====] - ETA: 0s - loss: 2.2864 - dice_soft: 0.4284
- dice_crossentropy: 6.1426
Epoch 00015: val_loss did not improve from 2.02818
100/100 [=====] - 95s 902ms/step - loss: 2.2864 - dice_soft:
0.4284 - dice_crossentropy: 6.1426 - val_loss: 2.4309 - val_dice_soft: 0.4068 - val_di
ce_crossentropy: 5.9398 - lr: 1.0000e-04
Epoch 16/500
100/100 [=====] - ETA: 0s - loss: 2.2641 - dice_soft: 0.4340
- dice_crossentropy: 5.9502
Epoch 00016: val_loss did not improve from 2.02818
100/100 [=====] - 92s 905ms/step - loss: 2.2641 - dice_soft:
0.4340 - dice_crossentropy: 5.9502 - val_loss: 2.5780 - val_dice_soft: 0.3539 - val_di
ce_crossentropy: 3.1576 - lr: 1.0000e-04
Epoch 17/500
100/100 [=====] - ETA: 0s - loss: 2.3089 - dice_soft: 0.4228
- dice_crossentropy: 5.9297
Epoch 00017: val_loss did not improve from 2.02818
100/100 [=====] - 93s 897ms/step - loss: 2.3089 - dice_soft:
0.4228 - dice_crossentropy: 5.9297 - val_loss: 2.7067 - val_dice_soft: 0.3040 - val_di
ce_crossentropy: 2.7597 - lr: 1.0000e-04
Epoch 18/500
100/100 [=====] - ETA: 0s - loss: 2.2672 - dice_soft: 0.4332
- dice_crossentropy: 6.0472

```
100/100 [=====] - 91s 893ms/step - loss: 2.2672 - dice_soft:
0.4332 - dice_crossentropy: 6.0472 - val_loss: 2.8134 - val_dice_soft: 0.2986 - val_dice_crossentropy: 4.0841 - lr: 1.0000e-04
Epoch 19/500
100/100 [=====] - ETA: 0s - loss: 2.2435 - dice_soft: 0.4391
- dice_crossentropy: 5.9504
Epoch 00019: val_loss did not improve from 2.02818
100/100 [=====] - 89s 879ms/step - loss: 2.2435 - dice_soft:
0.4391 - dice_crossentropy: 5.9504 - val_loss: 2.0473 - val_dice_soft: 0.4868 - val_dice_crossentropy: 5.0173 - lr: 1.0000e-04
Epoch 20/500
100/100 [=====] - ETA: 0s - loss: 2.1594 - dice_soft: 0.4602
- dice_crossentropy: 5.6804
Epoch 00020: val_loss did not improve from 2.02818
100/100 [=====] - 89s 893ms/step - loss: 2.1594 - dice_soft:
0.4602 - dice_crossentropy: 5.6804 - val_loss: 2.5318 - val_dice_soft: 0.3528 - val_dice_crossentropy: 3.2275 - lr: 1.0000e-04
Epoch 21/500
100/100 [=====] - ETA: 0s - loss: 2.1504 - dice_soft: 0.4624
- dice_crossentropy: 5.5961
Epoch 00021: val_loss did not improve from 2.02818
100/100 [=====] - 91s 900ms/step - loss: 2.1504 - dice_soft:
0.4624 - dice_crossentropy: 5.5961 - val_loss: 2.2052 - val_dice_soft: 0.4368 - val_dice_crossentropy: 6.0584 - lr: 1.0000e-04
Epoch 22/500
100/100 [=====] - ETA: 0s - loss: 2.1144 - dice_soft: 0.4714
- dice_crossentropy: 5.5045
Epoch 00022: val_loss did not improve from 2.02818
100/100 [=====] - 90s 894ms/step - loss: 2.1144 - dice_soft:
0.4714 - dice_crossentropy: 5.5045 - val_loss: 2.4476 - val_dice_soft: 0.4147 - val_dice_crossentropy: 3.9512 - lr: 1.0000e-04
Epoch 23/500
100/100 [=====] - ETA: 0s - loss: 2.2356 - dice_soft: 0.4411
- dice_crossentropy: 5.4717
Epoch 00023: val_loss did not improve from 2.02818
100/100 [=====] - 92s 893ms/step - loss: 2.2356 - dice_soft:
0.4411 - dice_crossentropy: 5.4717 - val_loss: 2.1032 - val_dice_soft: 0.4972 - val_dice_crossentropy: 5.3814 - lr: 1.0000e-04
Epoch 24/500
100/100 [=====] - ETA: 0s - loss: 2.0950 - dice_soft: 0.4763
- dice_crossentropy: 5.2891
Epoch 00024: val_loss did not improve from 2.02818
100/100 [=====] - 90s 894ms/step - loss: 2.0950 - dice_soft:
0.4763 - dice_crossentropy: 5.2891 - val_loss: 2.0873 - val_dice_soft: 0.5066 - val_dice_crossentropy: 3.0076 - lr: 1.0000e-04
Epoch 25/500
100/100 [=====] - ETA: 0s - loss: 2.0492 - dice_soft: 0.4877
- dice_crossentropy: 5.0389
Epoch 00025: val_loss improved from 2.02818 to 2.02795, saving model to evaluation/fo
ld_1/model.hdf5
100/100 [=====] - 93s 930ms/step - loss: 2.0492 - dice_soft:
0.4877 - dice_crossentropy: 5.0389 - val_loss: 2.0279 - val_dice_soft: 0.4496 - val_dice_crossentropy: 3.6569 - lr: 1.0000e-04
Epoch 26/500
100/100 [=====] - ETA: 0s - loss: 2.0584 - dice_soft: 0.4854
- dice_crossentropy: 5.2848
Epoch 00026: val_loss did not improve from 2.02795
100/100 [=====] - 91s 903ms/step - loss: 2.0584 - dice_soft:
0.4854 - dice_crossentropy: 5.2848 - val_loss: 2.2253 - val_dice_soft: 0.4271 - val_dice_crossentropy: 5.3814 - lr: 1.0000e-04
Epoch 27/500
100/100 [=====] - ETA: 0s - loss: 2.0684 - dice_soft: 0.4829
- dice_crossentropy: 4.9531
Epoch 00027: val_loss did not improve from 2.02795
100/100 [=====] - 93s 932ms/step - loss: 2.0684 - dice_soft:
crossentropy: 4.9531 - val_loss: 2.2339 - val_dice_soft: 0.4365 - val_dice
```

```
ce_crossentropy: 2.2446 - lr: 1.0000e-04
Epoch 28/500
100/100 [=====] - ETA: 0s - loss: 2.0606 - dice_soft: 0.4848
- dice_crossentropy: 4.5075
Epoch 00028: val_loss did not improve from 2.02795
100/100 [=====] - 91s 910ms/step - loss: 2.0606 - dice_soft:
0.4848 - dice_crossentropy: 4.5075 - val_loss: 2.4847 - val_dice_soft: 0.3697 - val_di
ce_crossentropy: 1.9806 - lr: 1.0000e-04
Epoch 29/500
100/100 [=====] - ETA: 0s - loss: 1.9956 - dice_soft: 0.5011
- dice_crossentropy: 4.2946
Epoch 00029: val_loss did not improve from 2.02795
100/100 [=====] - 94s 902ms/step - loss: 1.9956 - dice_soft:
0.5011 - dice_crossentropy: 4.2946 - val_loss: 2.3455 - val_dice_soft: 0.4096 - val_di
ce_crossentropy: 1.7366 - lr: 1.0000e-04
Epoch 30/500
100/100 [=====] - ETA: 0s - loss: 2.0385 - dice_soft: 0.4904
- dice_crossentropy: 3.8588
Epoch 00030: val_loss did not improve from 2.02795
100/100 [=====] - 93s 895ms/step - loss: 2.0385 - dice_soft:
0.4904 - dice_crossentropy: 3.8588 - val_loss: 2.5522 - val_dice_soft: 0.3812 - val_di
ce_crossentropy: 2.9403 - lr: 1.0000e-04
Epoch 31/500
100/100 [=====] - ETA: 0s - loss: 2.0753 - dice_soft: 0.4812
- dice_crossentropy: 3.8469
Epoch 00031: val_loss did not improve from 2.02795
100/100 [=====] - 90s 886ms/step - loss: 2.0753 - dice_soft:
0.4812 - dice_crossentropy: 3.8469 - val_loss: 2.0295 - val_dice_soft: 0.4783 - val_di
ce_crossentropy: 5.6815 - lr: 1.0000e-04
Epoch 32/500
100/100 [=====] - ETA: 0s - loss: 2.0169 - dice_soft: 0.4958
- dice_crossentropy: 4.0845
Epoch 00032: val_loss did not improve from 2.02795
100/100 [=====] - 89s 887ms/step - loss: 2.0169 - dice_soft:
0.4958 - dice_crossentropy: 4.0845 - val_loss: 2.5370 - val_dice_soft: 0.3436 - val_di
ce_crossentropy: 3.4992 - lr: 1.0000e-04
Epoch 33/500
100/100 [=====] - ETA: 0s - loss: 2.0641 - dice_soft: 0.4840
- dice_crossentropy: 3.7284
Epoch 00033: val_loss improved from 2.02795 to 2.00616, saving model to evaluation/fol
d_1/model.hdf5
100/100 [=====] - 95s 909ms/step - loss: 2.0641 - dice_soft:
0.4840 - dice_crossentropy: 3.7284 - val_loss: 2.0062 - val_dice_soft: 0.4648 - val_di
ce_crossentropy: 2.3363 - lr: 1.0000e-04
Epoch 34/500
100/100 [=====] - ETA: 0s - loss: 1.9605 - dice_soft: 0.5099
- dice_crossentropy: 3.5316
Epoch 00034: val_loss improved from 2.00616 to 1.84497, saving model to evaluation/fol
d_1/model.hdf5
100/100 [=====] - 90s 895ms/step - loss: 1.9605 - dice_soft:
0.5099 - dice_crossentropy: 3.5316 - val_loss: 1.8450 - val_dice_soft: 0.5696 - val_di
ce_crossentropy: 7.5999 - lr: 1.0000e-04
Epoch 35/500
100/100 [=====] - ETA: 0s - loss: 2.0472 - dice_soft: 0.4882
- dice_crossentropy: 3.8443
Epoch 00035: val_loss did not improve from 1.84497
100/100 [=====] - 93s 888ms/step - loss: 2.0472 - dice_soft:
0.4882 - dice_crossentropy: 3.8443 - val_loss: 2.1967 - val_dice_soft: 0.4070 - val_di
ce_crossentropy: 1.0474 - lr: 1.0000e-04
Epoch 36/500
100/100 [=====] - ETA: 0s - loss: 2.0229 - dice_soft: 0.4943
- dice_crossentropy: 3.5165
Epoch 00036: val_loss did not improve from 1.84497
100/100 [=====] - 90s 886ms/step - loss: 2.0229 - dice_soft:
0.4943 - dice_crossentropy: 3.5165 - val_loss: 2.1121 - val_dice_soft: 0.4653 - val_di
ce_crossentropy: 1.3831 - lr: 1.0000e-04
```

Epoch 37/500
100/100 [=====] - ETA: 0s - loss: 1.9118 - dice_soft: 0.5221
- dice_crossentropy: 4.3703
Epoch 00037: val_loss did not improve from 1.84497
100/100 [=====] - 89s 872ms/step - loss: 1.9118 - dice_soft:
0.5221 - dice_crossentropy: 4.3703 - val_loss: 2.1828 - val_dice_soft: 0.4644 - val_di
ce_crossentropy: 20.6006 - lr: 1.0000e-04
Epoch 38/500
100/100 [=====] - ETA: 0s - loss: 1.8590 - dice_soft: 0.5353
- dice_crossentropy: 5.4363
Epoch 00038: val_loss improved from 1.84497 to 1.29067, saving model to evaluation/fol
d_1/model.hdf5
100/100 [=====] - 92s 894ms/step - loss: 1.8590 - dice_soft:
0.5353 - dice_crossentropy: 5.4363 - val_loss: 1.2907 - val_dice_soft: 0.6285 - val_di
ce_crossentropy: 0.4724 - lr: 1.0000e-04
Epoch 39/500
100/100 [=====] - ETA: 0s - loss: 2.0244 - dice_soft: 0.4939
- dice_crossentropy: 6.3637
Epoch 00039: val_loss did not improve from 1.29067
100/100 [=====] - 91s 904ms/step - loss: 2.0244 - dice_soft:
0.4939 - dice_crossentropy: 6.3637 - val_loss: 3.0918 - val_dice_soft: 0.2041 - val_di
ce_crossentropy: 53.6183 - lr: 1.0000e-04
Epoch 40/500
100/100 [=====] - ETA: 0s - loss: 2.0985 - dice_soft: 0.4754
- dice_crossentropy: 6.4116
Epoch 00040: val_loss did not improve from 1.29067
100/100 [=====] - 93s 898ms/step - loss: 2.0985 - dice_soft:
0.4754 - dice_crossentropy: 6.4116 - val_loss: 2.4811 - val_dice_soft: 0.3835 - val_di
ce_crossentropy: 0.7172 - lr: 1.0000e-04
Epoch 41/500
100/100 [=====] - ETA: 0s - loss: 1.9720 - dice_soft: 0.5070
- dice_crossentropy: 5.9116
Epoch 00041: val_loss did not improve from 1.29067
100/100 [=====] - 92s 895ms/step - loss: 1.9720 - dice_soft:
0.5070 - dice_crossentropy: 5.9116 - val_loss: 2.2736 - val_dice_soft: 0.4241 - val_di
ce_crossentropy: 8.6668 - lr: 1.0000e-04
Epoch 42/500
100/100 [=====] - ETA: 0s - loss: 1.9001 - dice_soft: 0.5250
- dice_crossentropy: 5.7965
Epoch 00042: val_loss did not improve from 1.29067
100/100 [=====] - 89s 891ms/step - loss: 1.9001 - dice_soft:
0.5250 - dice_crossentropy: 5.7965 - val_loss: 2.3916 - val_dice_soft: 0.4168 - val_di
ce_crossentropy: 0.6210 - lr: 1.0000e-04
Epoch 43/500
100/100 [=====] - ETA: 0s - loss: 1.9420 - dice_soft: 0.5145
- dice_crossentropy: 5.7115
Epoch 00043: val_loss improved from 1.29067 to 1.12536, saving model to evaluation/fol
d_1/model.hdf5
100/100 [=====] - 92s 909ms/step - loss: 1.9420 - dice_soft:
0.5145 - dice_crossentropy: 5.7115 - val_loss: 1.1254 - val_dice_soft: 0.7360 - val_di
ce_crossentropy: 0.4067 - lr: 1.0000e-04
Epoch 44/500
100/100 [=====] - ETA: 0s - loss: 1.8568 - dice_soft: 0.5358
- dice_crossentropy: 5.0481
Epoch 00044: val_loss did not improve from 1.12536
100/100 [=====] - 88s 871ms/step - loss: 1.8568 - dice_soft:
0.5358 - dice_crossentropy: 5.0481 - val_loss: 2.0956 - val_dice_soft: 0.4184 - val_di
ce_crossentropy: 0.6048 - lr: 1.0000e-04
Epoch 45/500
100/100 [=====] - ETA: 0s - loss: 1.8367 - dice_soft: 0.5408
- dice_crossentropy: 4.7749
Epoch 00045: val_loss did not improve from 1.12536
100/100 [=====] - 91s 892ms/step - loss: 1.8367 - dice_soft:
0.5408 - dice_crossentropy: 4.7749 - val_loss: 1.8068 - val_dice_soft: 0.5352 - val_di
ce_crossentropy: 37.3396 - lr: 1.0000e-04

100/100 [=====] - ETA: 0s - loss: 1.7992 - dice_soft: 0.5502
- dice_crossentropy: 4.6612
Epoch 00046: val_loss did not improve from 1.12536
100/100 [=====] - 90s 889ms/step - loss: 1.7992 - dice_soft:
0.5502 - dice_crossentropy: 4.6612 - val_loss: 2.0125 - val_dice_soft: 0.5410 - val_di
ce_crossentropy: 3.6713 - lr: 1.0000e-04
Epoch 47/500
100/100 [=====] - ETA: 0s - loss: 1.7795 - dice_soft: 0.5551
- dice_crossentropy: 4.5074
Epoch 00047: val_loss did not improve from 1.12536
100/100 [=====] - 88s 870ms/step - loss: 1.7795 - dice_soft:
0.5551 - dice_crossentropy: 4.5074 - val_loss: 1.9128 - val_dice_soft: 0.5181 - val_di
ce_crossentropy: 12.7735 - lr: 1.0000e-04
Epoch 48/500
100/100 [=====] - ETA: 0s - loss: 1.7821 - dice_soft: 0.5545
- dice_crossentropy: 4.2987
Epoch 00048: val_loss did not improve from 1.12536
100/100 [=====] - 89s 863ms/step - loss: 1.7821 - dice_soft:
0.5545 - dice_crossentropy: 4.2987 - val_loss: 1.7756 - val_dice_soft: 0.5514 - val_di
ce_crossentropy: 2.7939 - lr: 1.0000e-04
Epoch 49/500
100/100 [=====] - ETA: 0s - loss: 1.7010 - dice_soft: 0.5747
- dice_crossentropy: 3.9126
Epoch 00049: val_loss did not improve from 1.12536
100/100 [=====] - 89s 871ms/step - loss: 1.7010 - dice_soft:
0.5747 - dice_crossentropy: 3.9126 - val_loss: 2.6588 - val_dice_soft: 0.3708 - val_di
ce_crossentropy: 55.3244 - lr: 1.0000e-04
Epoch 50/500
100/100 [=====] - ETA: 0s - loss: 1.7729 - dice_soft: 0.5568
- dice_crossentropy: 3.9970
Epoch 00050: val_loss did not improve from 1.12536
100/100 [=====] - 91s 893ms/step - loss: 1.7729 - dice_soft:
0.5568 - dice_crossentropy: 3.9970 - val_loss: 1.6253 - val_dice_soft: 0.5944 - val_di
ce_crossentropy: 23.3782 - lr: 1.0000e-04
Epoch 51/500
100/100 [=====] - ETA: 0s - loss: 1.7950 - dice_soft: 0.5512
- dice_crossentropy: 3.7183
Epoch 00051: val_loss did not improve from 1.12536
100/100 [=====] - 90s 903ms/step - loss: 1.7950 - dice_soft:
0.5512 - dice_crossentropy: 3.7183 - val_loss: 2.0018 - val_dice_soft: 0.5036 - val_di
ce_crossentropy: 20.3488 - lr: 1.0000e-04
Epoch 52/500
100/100 [=====] - ETA: 0s - loss: 1.7413 - dice_soft: 0.5647
- dice_crossentropy: 3.6961
Epoch 00052: val_loss did not improve from 1.12536
100/100 [=====] - 91s 892ms/step - loss: 1.7413 - dice_soft:
0.5647 - dice_crossentropy: 3.6961 - val_loss: 2.2488 - val_dice_soft: 0.4155 - val_di
ce_crossentropy: 48.3196 - lr: 1.0000e-04
Epoch 53/500
100/100 [=====] - ETA: 0s - loss: 1.8484 - dice_soft: 0.5379
- dice_crossentropy: 4.2432
Epoch 00053: val_loss did not improve from 1.12536
100/100 [=====] - 89s 881ms/step - loss: 1.8484 - dice_soft:
0.5379 - dice_crossentropy: 4.2432 - val_loss: 1.3396 - val_dice_soft: 0.6238 - val_di
ce_crossentropy: 1.5464 - lr: 1.0000e-04
Epoch 54/500
100/100 [=====] - ETA: 0s - loss: 1.7208 - dice_soft: 0.5698
- dice_crossentropy: 3.4328
Epoch 00054: val_loss did not improve from 1.12536
100/100 [=====] - 90s 876ms/step - loss: 1.7208 - dice_soft:
0.5698 - dice_crossentropy: 3.4328 - val_loss: 2.3919 - val_dice_soft: 0.3745 - val_di
ce_crossentropy: 17.1492 - lr: 1.0000e-04
Epoch 55/500
100/100 [=====] - ETA: 0s - loss: 1.7440 - dice_soft: 0.5640
- dice_crossentropy: 3.2789
Epoch 00055: val_loss did not improve from 1.12536

100/100 [=====] - 92s 905ms/step - loss: 1.7440 - dice_soft: 0.5640 - dice_crossentropy: 3.2789 - val_loss: 2.3833 - val_dice_soft: 0.4263 - val_dice_crossentropy: 34.8441 - lr: 1.0000e-04
Epoch 56/500
100/100 [=====] - ETA: 0s - loss: 1.6759 - dice_soft: 0.5810 - dice_crossentropy: 2.7010
Epoch 00056: val_loss did not improve from 1.12536
100/100 [=====] - 90s 905ms/step - loss: 1.6759 - dice_soft: 0.5810 - dice_crossentropy: 2.7010 - val_loss: 2.1620 - val_dice_soft: 0.4616 - val_dice_crossentropy: 9.9879 - lr: 1.0000e-04
Epoch 57/500
100/100 [=====] - ETA: 0s - loss: 1.7464 - dice_soft: 0.5634 - dice_crossentropy: 2.7228
Epoch 00057: val_loss did not improve from 1.12536
100/100 [=====] - 92s 911ms/step - loss: 1.7464 - dice_soft: 0.5634 - dice_crossentropy: 2.7228 - val_loss: 1.7345 - val_dice_soft: 0.6191 - val_dice_crossentropy: 0.6467 - lr: 1.0000e-04
Epoch 58/500
100/100 [=====] - ETA: 0s - loss: 1.5578 - dice_soft: 0.6105 - dice_crossentropy: 0.6549
Epoch 00058: val_loss did not improve from 1.12536
100/100 [=====] - 90s 872ms/step - loss: 1.5578 - dice_soft: 0.6105 - dice_crossentropy: 0.6549 - val_loss: 1.4911 - val_dice_soft: 0.6228 - val_dice_crossentropy: 0.5258 - lr: 1.0000e-04
Epoch 59/500
100/100 [=====] - ETA: 0s - loss: 1.6113 - dice_soft: 0.5972 - dice_crossentropy: 0.6288
Epoch 00059: val_loss did not improve from 1.12536
100/100 [=====] - 88s 871ms/step - loss: 1.6113 - dice_soft: 0.5972 - dice_crossentropy: 0.6288 - val_loss: 1.9881 - val_dice_soft: 0.5185 - val_dice_crossentropy: 0.5941 - lr: 1.0000e-04
Epoch 60/500
100/100 [=====] - ETA: 0s - loss: 1.5072 - dice_soft: 0.6232 - dice_crossentropy: 0.5886
Epoch 00060: val_loss did not improve from 1.12536
100/100 [=====] - 90s 873ms/step - loss: 1.5072 - dice_soft: 0.6232 - dice_crossentropy: 0.5886 - val_loss: 1.5589 - val_dice_soft: 0.6325 - val_dice_crossentropy: 0.5632 - lr: 1.0000e-04
Epoch 61/500
100/100 [=====] - ETA: 0s - loss: 1.4691 - dice_soft: 0.6327 - dice_crossentropy: 0.5754
Epoch 00061: val_loss did not improve from 1.12536
100/100 [=====] - 88s 876ms/step - loss: 1.4691 - dice_soft: 0.6327 - dice_crossentropy: 0.5754 - val_loss: 1.9231 - val_dice_soft: 0.5379 - val_dice_crossentropy: 0.8719 - lr: 1.0000e-04
Epoch 62/500
100/100 [=====] - ETA: 0s - loss: 1.4196 - dice_soft: 0.6451 - dice_crossentropy: 0.5563
Epoch 00062: val_loss improved from 1.12536 to 1.08441, saving model to evaluation/fold_1/model.hdf5
100/100 [=====] - 91s 889ms/step - loss: 1.4196 - dice_soft: 0.6451 - dice_crossentropy: 0.5563 - val_loss: 1.0844 - val_dice_soft: 0.7478 - val_dice_crossentropy: 0.7306 - lr: 1.0000e-04
Epoch 63/500
100/100 [=====] - ETA: 0s - loss: 1.4511 - dice_soft: 0.6372 - dice_crossentropy: 0.5850
Epoch 00063: val_loss did not improve from 1.08441
100/100 [=====] - 89s 875ms/step - loss: 1.4511 - dice_soft: 0.6372 - dice_crossentropy: 0.5850 - val_loss: 1.9145 - val_dice_soft: 0.5619 - val_dice_crossentropy: 0.6380 - lr: 1.0000e-04
Epoch 64/500
100/100 [=====] - ETA: 0s - loss: 1.3756 - dice_soft: 0.6561 - dice_crossentropy: 0.5673
Epoch 00064: val_loss did not improve from 1.08441
100/100 [=====] - 91s 906ms/step - loss: 1.3756 - dice_soft: 0.6561 - dice_crossentropy: 0.5673 - val_loss: 1.4023 - val_dice_soft: 0.6739 - val_dice

```
ce_crossentropy: 8.5365 - lr: 1.0000e-04
Epoch 65/500
100/100 [=====] - ETA: 0s - loss: 1.6610 - dice_soft: 0.5847
- dice_crossentropy: 0.6231
Epoch 00065: val_loss did not improve from 1.08441
100/100 [=====] - 88s 867ms/step - loss: 1.6610 - dice_soft:
0.5847 - dice_crossentropy: 0.6231 - val_loss: 2.2231 - val_dice_soft: 0.4577 - val_di
ce_crossentropy: 1.0293 - lr: 1.0000e-04
Epoch 66/500
100/100 [=====] - ETA: 0s - loss: 1.4754 - dice_soft: 0.6311
- dice_crossentropy: 0.5909
Epoch 00066: val_loss did not improve from 1.08441
100/100 [=====] - 91s 897ms/step - loss: 1.4754 - dice_soft:
0.6311 - dice_crossentropy: 0.5909 - val_loss: 2.2402 - val_dice_soft: 0.3948 - val_di
ce_crossentropy: 1.1902 - lr: 1.0000e-04
Epoch 67/500
100/100 [=====] - ETA: 0s - loss: 1.4504 - dice_soft: 0.6374
- dice_crossentropy: 0.5868
Epoch 00067: val_loss did not improve from 1.08441
100/100 [=====] - 89s 870ms/step - loss: 1.4504 - dice_soft:
0.6374 - dice_crossentropy: 0.5868 - val_loss: 1.8887 - val_dice_soft: 0.5606 - val_di
ce_crossentropy: 0.5694 - lr: 1.0000e-04
Epoch 68/500
100/100 [=====] - ETA: 0s - loss: 1.4739 - dice_soft: 0.6315
- dice_crossentropy: 0.5747
Epoch 00068: val_loss did not improve from 1.08441
100/100 [=====] - 89s 871ms/step - loss: 1.4739 - dice_soft:
0.6315 - dice_crossentropy: 0.5747 - val_loss: 1.9380 - val_dice_soft: 0.4900 - val_di
ce_crossentropy: 0.6770 - lr: 1.0000e-04
Epoch 69/500
100/100 [=====] - ETA: 0s - loss: 1.5540 - dice_soft: 0.6115
- dice_crossentropy: 0.6041
Epoch 00069: val_loss did not improve from 1.08441
100/100 [=====] - 91s 881ms/step - loss: 1.5540 - dice_soft:
0.6115 - dice_crossentropy: 0.6041 - val_loss: 1.3087 - val_dice_soft: 0.7147 - val_di
ce_crossentropy: 0.4947 - lr: 1.0000e-04
Epoch 70/500
100/100 [=====] - ETA: 0s - loss: 1.5161 - dice_soft: 0.6210
- dice_crossentropy: 0.5665
Epoch 00070: val_loss did not improve from 1.08441
100/100 [=====] - 93s 901ms/step - loss: 1.5161 - dice_soft:
0.6210 - dice_crossentropy: 0.5665 - val_loss: 1.8065 - val_dice_soft: 0.5207 - val_di
ce_crossentropy: 0.8069 - lr: 1.0000e-04
Epoch 71/500
100/100 [=====] - ETA: 0s - loss: 1.3944 - dice_soft: 0.6514
- dice_crossentropy: 0.5456
Epoch 00071: val_loss did not improve from 1.08441
100/100 [=====] - 91s 902ms/step - loss: 1.3944 - dice_soft:
0.6514 - dice_crossentropy: 0.5456 - val_loss: 1.7504 - val_dice_soft: 0.6279 - val_di
ce_crossentropy: 0.6083 - lr: 1.0000e-04
Epoch 72/500
100/100 [=====] - ETA: 0s - loss: 1.6280 - dice_soft: 0.5930
- dice_crossentropy: 0.6124
Epoch 00072: val_loss did not improve from 1.08441
100/100 [=====] - 92s 914ms/step - loss: 1.6280 - dice_soft:
0.5930 - dice_crossentropy: 0.6124 - val_loss: 1.6540 - val_dice_soft: 0.6479 - val_di
ce_crossentropy: 0.7827 - lr: 1.0000e-04
Epoch 73/500
100/100 [=====] - ETA: 0s - loss: 1.5135 - dice_soft: 0.6216
- dice_crossentropy: 0.5564
Epoch 00073: val_loss did not improve from 1.08441
100/100 [=====] - 90s 884ms/step - loss: 1.5135 - dice_soft:
0.6216 - dice_crossentropy: 0.5564 - val_loss: 1.7577 - val_dice_soft: 0.5348 - val_di
ce_crossentropy: 0.9927 - lr: 1.0000e-04
Epoch 74/500
Loading [MathJax]/extensions/Safe.js [=====] - ETA: 0s - loss: 1.4259 - dice_soft: 0.6435
```

- dice_crossentropy: 0.5282
Epoch 00074: val_loss did not improve from 1.08441
100/100 [=====] - 88s 875ms/step - loss: 1.4259 - dice_soft:
0.6435 - dice_crossentropy: 0.5282 - val_loss: 1.8481 - val_dice_soft: 0.4645 - val_di
ce_crossentropy: 0.6476 - lr: 1.0000e-04
Epoch 75/500
100/100 [=====] - ETA: 0s - loss: 1.3921 - dice_soft: 0.6520
- dice_crossentropy: 0.5371
Epoch 00075: val_loss did not improve from 1.08441
100/100 [=====] - 91s 894ms/step - loss: 1.3921 - dice_soft:
0.6520 - dice_crossentropy: 0.5371 - val_loss: 1.9081 - val_dice_soft: 0.5317 - val_di
ce_crossentropy: 0.5480 - lr: 1.0000e-04
Epoch 76/500
100/100 [=====] - ETA: 0s - loss: 1.4967 - dice_soft: 0.6258
- dice_crossentropy: 0.5749
Epoch 00076: val_loss did not improve from 1.08441
100/100 [=====] - 91s 882ms/step - loss: 1.4967 - dice_soft:
0.6258 - dice_crossentropy: 0.5749 - val_loss: 2.4226 - val_dice_soft: 0.3878 - val_di
ce_crossentropy: 0.7820 - lr: 1.0000e-04
Epoch 77/500
100/100 [=====] - ETA: 0s - loss: 1.4028 - dice_soft: 0.6493
- dice_crossentropy: 0.5542
Epoch 00077: val_loss did not improve from 1.08441
100/100 [=====] - 95s 927ms/step - loss: 1.4028 - dice_soft:
0.6493 - dice_crossentropy: 0.5542 - val_loss: 1.6829 - val_dice_soft: 0.6261 - val_di
ce_crossentropy: 0.6513 - lr: 1.0000e-04
Epoch 78/500
100/100 [=====] - ETA: 0s - loss: 1.3920 - dice_soft: 0.6520
- dice_crossentropy: 0.5387
Epoch 00078: val_loss did not improve from 1.08441
100/100 [=====] - 89s 884ms/step - loss: 1.3920 - dice_soft:
0.6520 - dice_crossentropy: 0.5387 - val_loss: 1.9207 - val_dice_soft: 0.5129 - val_di
ce_crossentropy: 0.5805 - lr: 1.0000e-04
Epoch 79/500
100/100 [=====] - ETA: 0s - loss: 1.3396 - dice_soft: 0.6651
- dice_crossentropy: 0.5127
Epoch 00079: val_loss did not improve from 1.08441
100/100 [=====] - 91s 879ms/step - loss: 1.3396 - dice_soft:
0.6651 - dice_crossentropy: 0.5127 - val_loss: 1.4952 - val_dice_soft: 0.6528 - val_di
ce_crossentropy: 0.7561 - lr: 1.0000e-04
Epoch 80/500
100/100 [=====] - ETA: 0s - loss: 1.5162 - dice_soft: 0.6210
- dice_crossentropy: 0.5620
Epoch 00080: val_loss did not improve from 1.08441
100/100 [=====] - 91s 901ms/step - loss: 1.5162 - dice_soft:
0.6210 - dice_crossentropy: 0.5620 - val_loss: 1.7478 - val_dice_soft: 0.5397 - val_di
ce_crossentropy: 0.7184 - lr: 1.0000e-04
Epoch 81/500
100/100 [=====] - ETA: 0s - loss: 1.3729 - dice_soft: 0.6568
- dice_crossentropy: 0.5179
Epoch 00081: val_loss did not improve from 1.08441
100/100 [=====] - 88s 875ms/step - loss: 1.3729 - dice_soft:
0.6568 - dice_crossentropy: 0.5179 - val_loss: 1.5524 - val_dice_soft: 0.5625 - val_di
ce_crossentropy: 0.7604 - lr: 1.0000e-04
Epoch 82/500
100/100 [=====] - ETA: 0s - loss: 1.5452 - dice_soft: 0.6137
- dice_crossentropy: 0.5696
Epoch 00082: val_loss did not improve from 1.08441
100/100 [=====] - 90s 895ms/step - loss: 1.5452 - dice_soft:
0.6137 - dice_crossentropy: 0.5696 - val_loss: 2.0343 - val_dice_soft: 0.4908 - val_di
ce_crossentropy: 0.6461 - lr: 1.0000e-04
Epoch 83/500
100/100 [=====] - ETA: 0s - loss: 1.4686 - dice_soft: 0.6328
- dice_crossentropy: 0.5620
Epoch 00083: val_loss did not improve from 1.08441
100/100 [=====] - 91s 901ms/step - loss: 1.4686 - dice_soft:

0.6328 - dice_crossentropy: 0.5620 - val_loss: 2.1006 - val_dice_soft: 0.4665 - val_dice_crossentropy: 0.6188 - lr: 1.0000e-04
Epoch 84/500
100/100 [=====] - ETA: 0s - loss: 1.5511 - dice_soft: 0.6122
- dice_crossentropy: 0.5624
Epoch 00084: val_loss did not improve from 1.08441
100/100 [=====] - 91s 873ms/step - loss: 1.5511 - dice_soft:
0.6122 - dice_crossentropy: 0.5624 - val_loss: 1.3370 - val_dice_soft: 0.6624 - val_dice_crossentropy: 0.6938 - lr: 1.0000e-04
Epoch 85/500
100/100 [=====] - ETA: 0s - loss: 1.5418 - dice_soft: 0.6145
- dice_crossentropy: 0.5649
Epoch 00085: val_loss did not improve from 1.08441
100/100 [=====] - 90s 891ms/step - loss: 1.5418 - dice_soft:
0.6145 - dice_crossentropy: 0.5649 - val_loss: 2.3482 - val_dice_soft: 0.4114 - val_dice_crossentropy: 1.0205 - lr: 1.0000e-04
Epoch 86/500
100/100 [=====] - ETA: 0s - loss: 1.5400 - dice_soft: 0.6150
- dice_crossentropy: 0.5494
Epoch 00086: val_loss did not improve from 1.08441
100/100 [=====] - 90s 889ms/step - loss: 1.5400 - dice_soft:
0.6150 - dice_crossentropy: 0.5494 - val_loss: 1.9939 - val_dice_soft: 0.4862 - val_dice_crossentropy: 0.8470 - lr: 1.0000e-04
Epoch 87/500
100/100 [=====] - ETA: 0s - loss: 1.4952 - dice_soft: 0.6262
- dice_crossentropy: 0.5481
Epoch 00087: val_loss did not improve from 1.08441
100/100 [=====] - 94s 913ms/step - loss: 1.4952 - dice_soft:
0.6262 - dice_crossentropy: 0.5481 - val_loss: 2.1414 - val_dice_soft: 0.4062 - val_dice_crossentropy: 0.7331 - lr: 1.0000e-04
Epoch 88/500
100/100 [=====] - ETA: 0s - loss: 1.4949 - dice_soft: 0.6263
- dice_crossentropy: 0.5486
Epoch 00088: val_loss did not improve from 1.08441
100/100 [=====] - 91s 905ms/step - loss: 1.4949 - dice_soft:
0.6263 - dice_crossentropy: 0.5486 - val_loss: 1.9017 - val_dice_soft: 0.5186 - val_dice_crossentropy: 1.0260 - lr: 1.0000e-04
Epoch 89/500
100/100 [=====] - ETA: 0s - loss: 1.4888 - dice_soft: 0.6278
- dice_crossentropy: 0.5576
Epoch 00089: val_loss did not improve from 1.08441
100/100 [=====] - 91s 907ms/step - loss: 1.4888 - dice_soft:
0.6278 - dice_crossentropy: 0.5576 - val_loss: 2.3792 - val_dice_soft: 0.3635 - val_dice_crossentropy: 0.7305 - lr: 1.0000e-04
Epoch 90/500
100/100 [=====] - ETA: 0s - loss: 1.3381 - dice_soft: 0.6655
- dice_crossentropy: 0.5033
Epoch 00090: val_loss did not improve from 1.08441
100/100 [=====] - 91s 881ms/step - loss: 1.3381 - dice_soft:
0.6655 - dice_crossentropy: 0.5033 - val_loss: 1.9037 - val_dice_soft: 0.4527 - val_dice_crossentropy: 0.6752 - lr: 1.0000e-04
Epoch 91/500
100/100 [=====] - ETA: 0s - loss: 1.5307 - dice_soft: 0.6173
- dice_crossentropy: 0.5462
Epoch 00091: val_loss did not improve from 1.08441
100/100 [=====] - 94s 913ms/step - loss: 1.5307 - dice_soft:
0.6173 - dice_crossentropy: 0.5462 - val_loss: 2.2269 - val_dice_soft: 0.5428 - val_dice_crossentropy: 0.6040 - lr: 1.0000e-04
Epoch 92/500
100/100 [=====] - ETA: 0s - loss: 1.4025 - dice_soft: 0.6494
- dice_crossentropy: 0.5249
Epoch 00092: val_loss did not improve from 1.08441
100/100 [=====] - 90s 870ms/step - loss: 1.4025 - dice_soft:
0.6494 - dice_crossentropy: 0.5249 - val_loss: 2.4192 - val_dice_soft: 0.3688 - val_dice_crossentropy: 0.7090 - lr: 1.0000e-04

```
100/100 [=====] - ETA: 0s - loss: 1.4447 - dice_soft: 0.6388
- dice_crossentropy: 0.5371
Epoch 00093: val_loss did not improve from 1.08441
100/100 [=====] - 91s 913ms/step - loss: 1.4447 - dice_soft:
0.6388 - dice_crossentropy: 0.5371 - val_loss: 1.3646 - val_dice_soft: 0.6926 - val_di
ce_crossentropy: 0.4980 - lr: 1.0000e-04
Epoch 94/500
100/100 [=====] - ETA: 0s - loss: 1.3652 - dice_soft: 0.6587
- dice_crossentropy: 0.5122
Epoch 00094: val_loss did not improve from 1.08441
100/100 [=====] - 90s 879ms/step - loss: 1.3652 - dice_soft:
0.6587 - dice_crossentropy: 0.5122 - val_loss: 1.6941 - val_dice_soft: 0.5455 - val_di
ce_crossentropy: 0.6615 - lr: 1.0000e-04
Epoch 95/500
100/100 [=====] - ETA: 0s - loss: 1.4571 - dice_soft: 0.6357
- dice_crossentropy: 0.5304
Epoch 00095: val_loss did not improve from 1.08441
100/100 [=====] - 90s 886ms/step - loss: 1.4571 - dice_soft:
0.6357 - dice_crossentropy: 0.5304 - val_loss: 1.4938 - val_dice_soft: 0.6142 - val_di
ce_crossentropy: 0.6666 - lr: 1.0000e-04
Epoch 96/500
100/100 [=====] - ETA: 0s - loss: 1.4251 - dice_soft: 0.6437
- dice_crossentropy: 0.5172
Epoch 00096: val_loss did not improve from 1.08441
100/100 [=====] - 93s 890ms/step - loss: 1.4251 - dice_soft:
0.6437 - dice_crossentropy: 0.5172 - val_loss: 1.3658 - val_dice_soft: 0.6263 - val_di
ce_crossentropy: 0.5810 - lr: 1.0000e-04
Epoch 97/500
100/100 [=====] - ETA: 0s - loss: 1.3851 - dice_soft: 0.6537
- dice_crossentropy: 0.5295
Epoch 00097: val_loss did not improve from 1.08441
100/100 [=====] - 93s 912ms/step - loss: 1.3851 - dice_soft:
0.6537 - dice_crossentropy: 0.5295 - val_loss: 1.9123 - val_dice_soft: 0.4957 - val_di
ce_crossentropy: 0.6618 - lr: 1.0000e-04
Epoch 98/500
100/100 [=====] - ETA: 0s - loss: 1.4567 - dice_soft: 0.6358
- dice_crossentropy: 0.5195
Epoch 00098: val_loss did not improve from 1.08441
100/100 [=====] - 92s 897ms/step - loss: 1.4567 - dice_soft:
0.6358 - dice_crossentropy: 0.5195 - val_loss: 1.7433 - val_dice_soft: 0.5150 - val_di
ce_crossentropy: 0.7003 - lr: 1.0000e-04
Epoch 99/500
100/100 [=====] - ETA: 0s - loss: 1.3728 - dice_soft: 0.6568
- dice_crossentropy: 0.5181
Epoch 00099: val_loss did not improve from 1.08441
100/100 [=====] - 91s 888ms/step - loss: 1.3728 - dice_soft:
0.6568 - dice_crossentropy: 0.5181 - val_loss: 2.2117 - val_dice_soft: 0.4374 - val_di
ce_crossentropy: 0.6703 - lr: 1.0000e-04
Epoch 100/500
100/100 [=====] - ETA: 0s - loss: 1.5093 - dice_soft: 0.6227
- dice_crossentropy: 0.5449
Epoch 00100: val_loss did not improve from 1.08441
100/100 [=====] - 90s 890ms/step - loss: 1.5093 - dice_soft:
0.6227 - dice_crossentropy: 0.5449 - val_loss: 1.6495 - val_dice_soft: 0.5775 - val_di
ce_crossentropy: 0.5795 - lr: 1.0000e-04
Epoch 101/500
100/100 [=====] - ETA: 0s - loss: 1.3768 - dice_soft: 0.6558
- dice_crossentropy: 0.4975
Epoch 00101: val_loss did not improve from 1.08441
100/100 [=====] - 92s 898ms/step - loss: 1.3768 - dice_soft:
0.6558 - dice_crossentropy: 0.4975 - val_loss: 1.9907 - val_dice_soft: 0.5088 - val_di
ce_crossentropy: 0.6300 - lr: 1.0000e-04
Epoch 102/500
100/100 [=====] - ETA: 0s - loss: 1.4641 - dice_soft: 0.6340
- dice_crossentropy: 0.5246
Epoch 00102: val_loss did not improve from 1.08441
```

```
100/100 [=====] - 91s 879ms/step - loss: 1.4641 - dice_soft:
0.6340 - dice_crossentropy: 0.5246 - val_loss: 1.9143 - val_dice_soft: 0.5269 - val_d
ice_crossentropy: 0.5540 - lr: 1.0000e-04
Epoch 103/500
100/100 [=====] - ETA: 0s - loss: 1.3752 - dice_soft: 0.6562
- dice_crossentropy: 0.5018
Epoch 00103: val_loss did not improve from 1.08441
100/100 [=====] - 88s 873ms/step - loss: 1.3752 - dice_soft:
0.6562 - dice_crossentropy: 0.5018 - val_loss: 1.1001 - val_dice_soft: 0.6994 - val_d
ice_crossentropy: 0.4514 - lr: 1.0000e-04
Epoch 104/500
100/100 [=====] - ETA: 0s - loss: 1.6070 - dice_soft: 0.5982
- dice_crossentropy: 0.5683
Epoch 00104: val_loss improved from 1.08441 to 0.98881, saving model to evaluation/fol
d_1/model.hdf5
100/100 [=====] - 92s 893ms/step - loss: 1.6070 - dice_soft:
0.5982 - dice_crossentropy: 0.5683 - val_loss: 0.9888 - val_dice_soft: 0.7576 - val_d
ice_crossentropy: 0.7036 - lr: 1.0000e-04
Epoch 105/500
100/100 [=====] - ETA: 0s - loss: 1.4118 - dice_soft: 0.6470
- dice_crossentropy: 0.5223
Epoch 00105: val_loss did not improve from 0.98881
100/100 [=====] - 91s 912ms/step - loss: 1.4118 - dice_soft:
0.6470 - dice_crossentropy: 0.5223 - val_loss: 1.5672 - val_dice_soft: 0.6593 - val_d
ice_crossentropy: 0.8015 - lr: 1.0000e-04
Epoch 106/500
100/100 [=====] - ETA: 0s - loss: 1.4256 - dice_soft: 0.6436
- dice_crossentropy: 0.5231
Epoch 00106: val_loss did not improve from 0.98881
100/100 [=====] - 92s 912ms/step - loss: 1.4256 - dice_soft:
0.6436 - dice_crossentropy: 0.5231 - val_loss: 1.7984 - val_dice_soft: 0.5784 - val_d
ice_crossentropy: 0.6447 - lr: 1.0000e-04
Epoch 107/500
100/100 [=====] - ETA: 0s - loss: 1.3914 - dice_soft: 0.6522
- dice_crossentropy: 0.4945
Epoch 00107: val_loss did not improve from 0.98881
100/100 [=====] - 90s 868ms/step - loss: 1.3914 - dice_soft:
0.6522 - dice_crossentropy: 0.4945 - val_loss: 2.5597 - val_dice_soft: 0.3489 - val_d
ice_crossentropy: 0.6916 - lr: 1.0000e-04
Epoch 108/500
100/100 [=====] - ETA: 0s - loss: 1.4094 - dice_soft: 0.6477
- dice_crossentropy: 0.4971
Epoch 00108: val_loss did not improve from 0.98881
100/100 [=====] - 91s 885ms/step - loss: 1.4094 - dice_soft:
0.6477 - dice_crossentropy: 0.4971 - val_loss: 1.4523 - val_dice_soft: 0.5989 - val_d
ice_crossentropy: 0.7084 - lr: 1.0000e-04
Epoch 109/500
100/100 [=====] - ETA: 0s - loss: 1.3640 - dice_soft: 0.6590
- dice_crossentropy: 0.4917
Epoch 00109: val_loss did not improve from 0.98881
100/100 [=====] - 91s 891ms/step - loss: 1.3640 - dice_soft:
0.6590 - dice_crossentropy: 0.4917 - val_loss: 1.8522 - val_dice_soft: 0.5552 - val_d
ice_crossentropy: 0.7143 - lr: 1.0000e-04
Epoch 110/500
100/100 [=====] - ETA: 0s - loss: 1.3749 - dice_soft: 0.6563
- dice_crossentropy: 0.4937
Epoch 00110: ReduceLROnPlateau reducing learning rate to 1e-05.

Epoch 00110: val_loss did not improve from 0.98881
100/100 [=====] - 90s 872ms/step - loss: 1.3749 - dice_soft:
0.6563 - dice_crossentropy: 0.4937 - val_loss: 1.1443 - val_dice_soft: 0.7398 - val_d
ice_crossentropy: 0.6064 - lr: 1.0000e-04
Epoch 111/500
100/100 [=====] - ETA: 0s - loss: 1.5495 - dice_soft: 0.6126
- dice_crossentropy: 0.5502
Epoch 00111: val_loss did not improve from 0.98881
```

```
100/100 [=====] - 92s 899ms/step - loss: 1.5495 - dice_soft:
0.6126 - dice_crossentropy: 0.5502 - val_loss: 1.7768 - val_dice_soft: 0.5917 - val_d
ice_crossentropy: 0.8088 - lr: 1.0000e-05
Epoch 112/500
100/100 [=====] - ETA: 0s - loss: 1.3850 - dice_soft: 0.6537
- dice_crossentropy: 0.4984
Epoch 00112: val_loss did not improve from 0.98881
100/100 [=====] - 91s 883ms/step - loss: 1.3850 - dice_soft:
0.6537 - dice_crossentropy: 0.4984 - val_loss: 1.7851 - val_dice_soft: 0.5938 - val_d
ice_crossentropy: 0.9124 - lr: 1.0000e-05
Epoch 113/500
100/100 [=====] - ETA: 0s - loss: 1.4633 - dice_soft: 0.6342
- dice_crossentropy: 0.5079
Epoch 00113: val_loss did not improve from 0.98881
100/100 [=====] - 94s 917ms/step - loss: 1.4633 - dice_soft:
0.6342 - dice_crossentropy: 0.5079 - val_loss: 1.2683 - val_dice_soft: 0.6492 - val_d
ice_crossentropy: 0.5673 - lr: 1.0000e-05
Epoch 114/500
100/100 [=====] - ETA: 0s - loss: 1.4307 - dice_soft: 0.6423
- dice_crossentropy: 0.5045
Epoch 00114: val_loss did not improve from 0.98881
100/100 [=====] - 90s 902ms/step - loss: 1.4307 - dice_soft:
0.6423 - dice_crossentropy: 0.5045 - val_loss: 1.9064 - val_dice_soft: 0.4981 - val_d
ice_crossentropy: 0.8797 - lr: 1.0000e-05
Epoch 115/500
100/100 [=====] - ETA: 0s - loss: 1.3724 - dice_soft: 0.6569
- dice_crossentropy: 0.4968
Epoch 00115: val_loss did not improve from 0.98881
100/100 [=====] - 89s 890ms/step - loss: 1.3724 - dice_soft:
0.6569 - dice_crossentropy: 0.4968 - val_loss: 1.6734 - val_dice_soft: 0.5734 - val_d
ice_crossentropy: 0.5654 - lr: 1.0000e-05
Epoch 116/500
100/100 [=====] - ETA: 0s - loss: 1.3695 - dice_soft: 0.6576
- dice_crossentropy: 0.4900
Epoch 00116: val_loss did not improve from 0.98881
100/100 [=====] - 89s 879ms/step - loss: 1.3695 - dice_soft:
0.6576 - dice_crossentropy: 0.4900 - val_loss: 1.6913 - val_dice_soft: 0.6080 - val_d
ice_crossentropy: 0.5533 - lr: 1.0000e-05
Epoch 117/500
100/100 [=====] - ETA: 0s - loss: 1.3869 - dice_soft: 0.6533
- dice_crossentropy: 0.5020
Epoch 00117: val_loss improved from 0.98881 to 0.89621, saving model to evaluation/fold_1/model.hdf5
100/100 [=====] - 94s 913ms/step - loss: 1.3869 - dice_soft:
0.6533 - dice_crossentropy: 0.5020 - val_loss: 0.8962 - val_dice_soft: 0.7765 - val_d
ice_crossentropy: 0.5076 - lr: 1.0000e-05
Epoch 118/500
100/100 [=====] - ETA: 0s - loss: 1.4039 - dice_soft: 0.6490
- dice_crossentropy: 0.5018
Epoch 00118: val_loss did not improve from 0.89621
100/100 [=====] - 90s 880ms/step - loss: 1.4039 - dice_soft:
0.6490 - dice_crossentropy: 0.5018 - val_loss: 1.7581 - val_dice_soft: 0.5431 - val_d
ice_crossentropy: 0.7080 - lr: 1.0000e-05
Epoch 119/500
100/100 [=====] - ETA: 0s - loss: 1.3426 - dice_soft: 0.6644
- dice_crossentropy: 0.4706
Epoch 00119: val_loss did not improve from 0.89621
100/100 [=====] - 91s 894ms/step - loss: 1.3426 - dice_soft:
0.6644 - dice_crossentropy: 0.4706 - val_loss: 1.5165 - val_dice_soft: 0.6003 - val_d
ice_crossentropy: 0.5121 - lr: 1.0000e-05
Epoch 120/500
100/100 [=====] - ETA: 0s - loss: 1.4679 - dice_soft: 0.6330
- dice_crossentropy: 0.5056
Epoch 00120: val_loss did not improve from 0.89621
100/100 [=====] - 91s 911ms/step - loss: 1.4679 - dice_soft:
0.6330 - dice_crossentropy: 0.5056 - val_loss: 2.6341 - val_dice_soft: 0.3616 - val_d
```

ice_crossentropy: 0.7258 - lr: 1.0000e-05
Epoch 121/500
100/100 [=====] - ETA: 0s - loss: 1.3771 - dice_soft: 0.6557
- dice_crossentropy: 0.4901
Epoch 00121: val_loss did not improve from 0.89621
100/100 [=====] - 92s 890ms/step - loss: 1.3771 - dice_soft:
0.6557 - dice_crossentropy: 0.4901 - val_loss: 1.2905 - val_dice_soft: 0.6429 - val_d
ice_crossentropy: 0.5141 - lr: 1.0000e-05
Epoch 122/500
100/100 [=====] - ETA: 0s - loss: 1.3256 - dice_soft: 0.6686
- dice_crossentropy: 0.4768
Epoch 00122: val_loss did not improve from 0.89621
100/100 [=====] - 90s 899ms/step - loss: 1.3256 - dice_soft:
0.6686 - dice_crossentropy: 0.4768 - val_loss: 1.8313 - val_dice_soft: 0.5590 - val_d
ice_crossentropy: 0.6100 - lr: 1.0000e-05
Epoch 123/500
100/100 [=====] - ETA: 0s - loss: 1.4261 - dice_soft: 0.6435
- dice_crossentropy: 0.4930
Epoch 00123: val_loss did not improve from 0.89621
100/100 [=====] - 92s 899ms/step - loss: 1.4261 - dice_soft:
0.6435 - dice_crossentropy: 0.4930 - val_loss: 1.5176 - val_dice_soft: 0.5834 - val_d
ice_crossentropy: 0.5587 - lr: 1.0000e-05
Epoch 124/500
100/100 [=====] - ETA: 0s - loss: 1.3562 - dice_soft: 0.6609
- dice_crossentropy: 0.4788
Epoch 00124: val_loss did not improve from 0.89621
100/100 [=====] - 93s 911ms/step - loss: 1.3562 - dice_soft:
0.6609 - dice_crossentropy: 0.4788 - val_loss: 1.2405 - val_dice_soft: 0.6770 - val_d
ice_crossentropy: 0.6359 - lr: 1.0000e-05
Epoch 125/500
100/100 [=====] - ETA: 0s - loss: 1.3908 - dice_soft: 0.6523
- dice_crossentropy: 0.4935
Epoch 00125: val_loss did not improve from 0.89621
100/100 [=====] - 92s 916ms/step - loss: 1.3908 - dice_soft:
0.6523 - dice_crossentropy: 0.4935 - val_loss: 1.3739 - val_dice_soft: 0.6894 - val_d
ice_crossentropy: 0.4403 - lr: 1.0000e-05
Epoch 126/500
100/100 [=====] - ETA: 0s - loss: 1.3616 - dice_soft: 0.6596
- dice_crossentropy: 0.4872
Epoch 00126: val_loss did not improve from 0.89621
100/100 [=====] - 95s 927ms/step - loss: 1.3616 - dice_soft:
0.6596 - dice_crossentropy: 0.4872 - val_loss: 1.1093 - val_dice_soft: 0.7521 - val_d
ice_crossentropy: 0.5895 - lr: 1.0000e-05
Epoch 127/500
100/100 [=====] - ETA: 0s - loss: 1.3455 - dice_soft: 0.6636
- dice_crossentropy: 0.4840
Epoch 00127: val_loss did not improve from 0.89621
100/100 [=====] - 91s 890ms/step - loss: 1.3455 - dice_soft:
0.6636 - dice_crossentropy: 0.4840 - val_loss: 1.6285 - val_dice_soft: 0.5778 - val_d
ice_crossentropy: 0.5742 - lr: 1.0000e-05
Epoch 128/500
100/100 [=====] - ETA: 0s - loss: 1.4360 - dice_soft: 0.6410
- dice_crossentropy: 0.4968
Epoch 00128: val_loss did not improve from 0.89621
100/100 [=====] - 90s 876ms/step - loss: 1.4360 - dice_soft:
0.6410 - dice_crossentropy: 0.4968 - val_loss: 1.2650 - val_dice_soft: 0.6454 - val_d
ice_crossentropy: 0.6371 - lr: 1.0000e-05
Epoch 129/500
100/100 [=====] - ETA: 0s - loss: 1.3283 - dice_soft: 0.6679
- dice_crossentropy: 0.4690
Epoch 00129: val_loss did not improve from 0.89621
100/100 [=====] - 91s 892ms/step - loss: 1.3283 - dice_soft:
0.6679 - dice_crossentropy: 0.4690 - val_loss: 2.4799 - val_dice_soft: 0.3894 - val_d
ice_crossentropy: 0.8951 - lr: 1.0000e-05
Epoch 130/500
100/100 [=====] - ETA: 0s - loss: 1.4708 - dice_soft: 0.6323

- dice_crossentropy: 0.5038
Epoch 00130: val_loss did not improve from 0.89621
100/100 [=====] - 92s 912ms/step - loss: 1.4708 - dice_soft:
0.6323 - dice_crossentropy: 0.5038 - val_loss: 1.7124 - val_dice_soft: 0.5737 - val_d
ice_crossentropy: 0.6892 - lr: 1.0000e-05
Epoch 131/500
100/100 [=====] - ETA: 0s - loss: 1.3122 - dice_soft: 0.6719
- dice_crossentropy: 0.4686
Epoch 00131: val_loss did not improve from 0.89621
100/100 [=====] - 91s 883ms/step - loss: 1.3122 - dice_soft:
0.6719 - dice_crossentropy: 0.4686 - val_loss: 1.1947 - val_dice_soft: 0.7158 - val_d
ice_crossentropy: 0.5068 - lr: 1.0000e-05
Epoch 132/500
100/100 [=====] - ETA: 0s - loss: 1.4069 - dice_soft: 0.6483
- dice_crossentropy: 0.5033
Epoch 00132: val_loss did not improve from 0.89621
100/100 [=====] - 90s 897ms/step - loss: 1.4069 - dice_soft:
0.6483 - dice_crossentropy: 0.5033 - val_loss: 2.0745 - val_dice_soft: 0.4656 - val_d
ice_crossentropy: 0.6815 - lr: 1.0000e-05
Epoch 133/500
100/100 [=====] - ETA: 0s - loss: 1.4303 - dice_soft: 0.6424
- dice_crossentropy: 0.5050
Epoch 00133: val_loss did not improve from 0.89621
100/100 [=====] - 90s 888ms/step - loss: 1.4303 - dice_soft:
0.6424 - dice_crossentropy: 0.5050 - val_loss: 1.1849 - val_dice_soft: 0.6928 - val_d
ice_crossentropy: 0.6601 - lr: 1.0000e-05
Epoch 134/500
100/100 [=====] - ETA: 0s - loss: 1.2354 - dice_soft: 0.6912
- dice_crossentropy: 0.4621
Epoch 00134: val_loss did not improve from 0.89621
100/100 [=====] - 89s 890ms/step - loss: 1.2354 - dice_soft:
0.6912 - dice_crossentropy: 0.4621 - val_loss: 1.2901 - val_dice_soft: 0.7120 - val_d
ice_crossentropy: 0.5641 - lr: 1.0000e-05
Epoch 135/500
100/100 [=====] - ETA: 0s - loss: 1.3581 - dice_soft: 0.6605
- dice_crossentropy: 0.4838
Epoch 00135: val_loss did not improve from 0.89621
100/100 [=====] - 91s 905ms/step - loss: 1.3581 - dice_soft:
0.6605 - dice_crossentropy: 0.4838 - val_loss: 1.9937 - val_dice_soft: 0.5291 - val_d
ice_crossentropy: 0.6216 - lr: 1.0000e-05
Epoch 136/500
100/100 [=====] - ETA: 0s - loss: 1.3185 - dice_soft: 0.6704
- dice_crossentropy: 0.4749
Epoch 00136: val_loss did not improve from 0.89621
100/100 [=====] - 92s 893ms/step - loss: 1.3185 - dice_soft:
0.6704 - dice_crossentropy: 0.4749 - val_loss: 1.6918 - val_dice_soft: 0.6093 - val_d
ice_crossentropy: 0.6856 - lr: 1.0000e-05
Epoch 137/500
100/100 [=====] - ETA: 0s - loss: 1.4041 - dice_soft: 0.6490
- dice_crossentropy: 0.4889
Epoch 00137: val_loss did not improve from 0.89621
100/100 [=====] - 92s 902ms/step - loss: 1.4041 - dice_soft:
0.6490 - dice_crossentropy: 0.4889 - val_loss: 1.9526 - val_dice_soft: 0.4874 - val_d
ice_crossentropy: 0.6671 - lr: 1.0000e-05
Epoch 138/500
100/100 [=====] - ETA: 0s - loss: 1.3467 - dice_soft: 0.6633
- dice_crossentropy: 0.4799
Epoch 00138: val_loss did not improve from 0.89621
100/100 [=====] - 89s 863ms/step - loss: 1.3467 - dice_soft:
0.6633 - dice_crossentropy: 0.4799 - val_loss: 1.2772 - val_dice_soft: 0.6440 - val_d
ice_crossentropy: 0.6008 - lr: 1.0000e-05
Epoch 139/500
100/100 [=====] - ETA: 0s - loss: 1.4014 - dice_soft: 0.6497
- dice_crossentropy: 0.4861
Epoch 00139: val_loss did not improve from 0.89621
100/100 [=====] - 90s 876ms/step - loss: 1.4014 - dice_soft:

0.6497 - dice_crossentropy: 0.4861 - val_loss: 2.0654 - val_dice_soft: 0.4817 - val_dice_crossentropy: 0.6354 - lr: 1.0000e-05
Epoch 140/500
100/100 [=====] - ETA: 0s - loss: 1.3045 - dice_soft: 0.6739 - dice_crossentropy: 0.4627
Epoch 00140: val_loss did not improve from 0.89621
100/100 [=====] - 90s 889ms/step - loss: 1.3045 - dice_soft: 0.6739 - dice_crossentropy: 0.4627 - val_loss: 2.0950 - val_dice_soft: 0.4348 - val_dice_crossentropy: 0.7327 - lr: 1.0000e-05
Epoch 141/500
100/100 [=====] - ETA: 0s - loss: 1.3526 - dice_soft: 0.6618 - dice_crossentropy: 0.4722
Epoch 00141: val_loss did not improve from 0.89621
100/100 [=====] - 89s 881ms/step - loss: 1.3526 - dice_soft: 0.6618 - dice_crossentropy: 0.4722 - val_loss: 2.0120 - val_dice_soft: 0.4619 - val_dice_crossentropy: 0.7326 - lr: 1.0000e-05
Epoch 142/500
100/100 [=====] - ETA: 0s - loss: 1.3583 - dice_soft: 0.6604 - dice_crossentropy: 0.4821
Epoch 00142: val_loss did not improve from 0.89621
100/100 [=====] - 91s 898ms/step - loss: 1.3583 - dice_soft: 0.6604 - dice_crossentropy: 0.4821 - val_loss: 1.1746 - val_dice_soft: 0.6956 - val_dice_crossentropy: 0.4378 - lr: 1.0000e-05
Epoch 143/500
100/100 [=====] - ETA: 0s - loss: 1.2956 - dice_soft: 0.6761 - dice_crossentropy: 0.4699
Epoch 00143: val_loss did not improve from 0.89621
100/100 [=====] - 89s 880ms/step - loss: 1.2956 - dice_soft: 0.6761 - dice_crossentropy: 0.4699 - val_loss: 1.6872 - val_dice_soft: 0.5866 - val_dice_crossentropy: 0.6304 - lr: 1.0000e-05
Epoch 144/500
100/100 [=====] - ETA: 0s - loss: 1.3169 - dice_soft: 0.6708 - dice_crossentropy: 0.4662
Epoch 00144: val_loss did not improve from 0.89621
100/100 [=====] - 90s 903ms/step - loss: 1.3169 - dice_soft: 0.6708 - dice_crossentropy: 0.4662 - val_loss: 1.4308 - val_dice_soft: 0.6913 - val_dice_crossentropy: 0.5932 - lr: 1.0000e-05
Epoch 145/500
100/100 [=====] - ETA: 0s - loss: 1.2552 - dice_soft: 0.6862 - dice_crossentropy: 0.4513
Epoch 00145: val_loss did not improve from 0.89621
100/100 [=====] - 92s 916ms/step - loss: 1.2552 - dice_soft: 0.6862 - dice_crossentropy: 0.4513 - val_loss: 2.0985 - val_dice_soft: 0.4804 - val_dice_crossentropy: 0.5966 - lr: 1.0000e-05
Epoch 146/500
100/100 [=====] - ETA: 0s - loss: 1.3413 - dice_soft: 0.6647 - dice_crossentropy: 0.4725
Epoch 00146: val_loss did not improve from 0.89621
100/100 [=====] - 92s 894ms/step - loss: 1.3413 - dice_soft: 0.6647 - dice_crossentropy: 0.4725 - val_loss: 2.1534 - val_dice_soft: 0.4580 - val_dice_crossentropy: 0.9029 - lr: 1.0000e-05
Epoch 147/500
100/100 [=====] - ETA: 0s - loss: 1.3958 - dice_soft: 0.6511 - dice_crossentropy: 0.4871
Epoch 00147: val_loss improved from 0.89621 to 0.71593, saving model to evaluation/ folder_1/model.hdf5
100/100 [=====] - 91s 905ms/step - loss: 1.3958 - dice_soft: 0.6511 - dice_crossentropy: 0.4871 - val_loss: 0.7159 - val_dice_soft: 0.8226 - val_dice_crossentropy: 0.4935 - lr: 1.0000e-05
Epoch 148/500
100/100 [=====] - ETA: 0s - loss: 1.3843 - dice_soft: 0.6539 - dice_crossentropy: 0.4934
Epoch 00148: val_loss did not improve from 0.71593
100/100 [=====] - 93s 916ms/step - loss: 1.3843 - dice_soft: 0.6539 - dice_crossentropy: 0.4934 - val_loss: 1.3631 - val_dice_soft: 0.6447 - val_dice_crossentropy: 0.6332 - lr: 1.0000e-05

Epoch 149/500
100/100 [=====] - ETA: 0s - loss: 1.3230 - dice_soft: 0.6692
- dice_crossentropy: 0.4719
Epoch 00149: val_loss did not improve from 0.71593
100/100 [=====] - 89s 864ms/step - loss: 1.3230 - dice_soft:
0.6692 - dice_crossentropy: 0.4719 - val_loss: 1.1778 - val_dice_soft: 0.6658 - val_d
ice_crossentropy: 0.5539 - lr: 1.0000e-05
Epoch 150/500
100/100 [=====] - ETA: 0s - loss: 1.2742 - dice_soft: 0.6815
- dice_crossentropy: 0.4503
Epoch 00150: val_loss did not improve from 0.71593
100/100 [=====] - 89s 874ms/step - loss: 1.2742 - dice_soft:
0.6815 - dice_crossentropy: 0.4503 - val_loss: 1.0872 - val_dice_soft: 0.6842 - val_d
ice_crossentropy: 0.4522 - lr: 1.0000e-05
Epoch 151/500
100/100 [=====] - ETA: 0s - loss: 1.4560 - dice_soft: 0.6360
- dice_crossentropy: 0.4963
Epoch 00151: val_loss did not improve from 0.71593
100/100 [=====] - 92s 901ms/step - loss: 1.4560 - dice_soft:
0.6360 - dice_crossentropy: 0.4963 - val_loss: 1.5447 - val_dice_soft: 0.6630 - val_d
ice_crossentropy: 0.6537 - lr: 1.0000e-05
Epoch 152/500
100/100 [=====] - ETA: 0s - loss: 1.4510 - dice_soft: 0.6373
- dice_crossentropy: 0.4962
Epoch 00152: val_loss did not improve from 0.71593
100/100 [=====] - 90s 865ms/step - loss: 1.4510 - dice_soft:
0.6373 - dice_crossentropy: 0.4962 - val_loss: 1.1301 - val_dice_soft: 0.7052 - val_d
ice_crossentropy: 0.4715 - lr: 1.0000e-05
Epoch 153/500
100/100 [=====] - ETA: 0s - loss: 1.3723 - dice_soft: 0.6569
- dice_crossentropy: 0.4798
Epoch 00153: val_loss did not improve from 0.71593
100/100 [=====] - 94s 927ms/step - loss: 1.3723 - dice_soft:
0.6569 - dice_crossentropy: 0.4798 - val_loss: 0.9798 - val_dice_soft: 0.7891 - val_d
ice_crossentropy: 0.5101 - lr: 1.0000e-05
Epoch 154/500
100/100 [=====] - ETA: 0s - loss: 1.3483 - dice_soft: 0.6629
- dice_crossentropy: 0.4742
Epoch 00154: val_loss did not improve from 0.71593
100/100 [=====] - 90s 875ms/step - loss: 1.3483 - dice_soft:
0.6629 - dice_crossentropy: 0.4742 - val_loss: 1.4983 - val_dice_soft: 0.6047 - val_d
ice_crossentropy: 0.7732 - lr: 1.0000e-05
Epoch 155/500
100/100 [=====] - ETA: 0s - loss: 1.3671 - dice_soft: 0.6582
- dice_crossentropy: 0.4763
Epoch 00155: val_loss did not improve from 0.71593
100/100 [=====] - 90s 885ms/step - loss: 1.3671 - dice_soft:
0.6582 - dice_crossentropy: 0.4763 - val_loss: 1.5959 - val_dice_soft: 0.6916 - val_d
ice_crossentropy: 0.5663 - lr: 1.0000e-05
Epoch 156/500
100/100 [=====] - ETA: 0s - loss: 1.3325 - dice_soft: 0.6669
- dice_crossentropy: 0.4665
Epoch 00156: val_loss did not improve from 0.71593
100/100 [=====] - 91s 889ms/step - loss: 1.3325 - dice_soft:
0.6669 - dice_crossentropy: 0.4665 - val_loss: 1.2339 - val_dice_soft: 0.7183 - val_d
ice_crossentropy: 0.4986 - lr: 1.0000e-05
Epoch 157/500
100/100 [=====] - ETA: 0s - loss: 1.2626 - dice_soft: 0.6843
- dice_crossentropy: 0.4540
Epoch 00157: val_loss did not improve from 0.71593
100/100 [=====] - 90s 888ms/step - loss: 1.2626 - dice_soft:
0.6843 - dice_crossentropy: 0.4540 - val_loss: 1.1876 - val_dice_soft: 0.6555 - val_d
ice_crossentropy: 0.6353 - lr: 1.0000e-05
Epoch 158/500
100/100 [=====] - ETA: 0s - loss: 1.3860 - dice_soft: 0.6535
- dice_crossentropy: 0.4806

Epoch 00158: val_loss did not improve from 0.71593
100/100 [=====] - 91s 888ms/step - loss: 1.3860 - dice_soft:
0.6535 - dice_crossentropy: 0.4806 - val_loss: 1.8518 - val_dice_soft: 0.5332 - val_d
ice_crossentropy: 0.7414 - lr: 1.0000e-05
Epoch 159/500
100/100 [=====] - ETA: 0s - loss: 1.3866 - dice_soft: 0.6534
- dice_crossentropy: 0.4762
Epoch 00159: val_loss did not improve from 0.71593
100/100 [=====] - 90s 883ms/step - loss: 1.3866 - dice_soft:
0.6534 - dice_crossentropy: 0.4762 - val_loss: 1.4734 - val_dice_soft: 0.5779 - val_d
ice_crossentropy: 0.8514 - lr: 1.0000e-05
Epoch 160/500
100/100 [=====] - ETA: 0s - loss: 1.2761 - dice_soft: 0.6810
- dice_crossentropy: 0.4595
Epoch 00160: val_loss did not improve from 0.71593
100/100 [=====] - 91s 881ms/step - loss: 1.2761 - dice_soft:
0.6810 - dice_crossentropy: 0.4595 - val_loss: 1.8309 - val_dice_soft: 0.5392 - val_d
ice_crossentropy: 0.5989 - lr: 1.0000e-05
Epoch 161/500
100/100 [=====] - ETA: 0s - loss: 1.4026 - dice_soft: 0.6493
- dice_crossentropy: 0.4879
Epoch 00161: val_loss did not improve from 0.71593
100/100 [=====] - 92s 871ms/step - loss: 1.4026 - dice_soft:
0.6493 - dice_crossentropy: 0.4879 - val_loss: 1.8470 - val_dice_soft: 0.6004 - val_d
ice_crossentropy: 0.5364 - lr: 1.0000e-05
Epoch 162/500
100/100 [=====] - ETA: 0s - loss: 1.3483 - dice_soft: 0.6629
- dice_crossentropy: 0.4720
Epoch 00162: val_loss did not improve from 0.71593
100/100 [=====] - 91s 904ms/step - loss: 1.3483 - dice_soft:
0.6629 - dice_crossentropy: 0.4720 - val_loss: 0.9632 - val_dice_soft: 0.7582 - val_d
ice_crossentropy: 0.4716 - lr: 1.0000e-05
Epoch 163/500
100/100 [=====] - ETA: 0s - loss: 1.4082 - dice_soft: 0.6480
- dice_crossentropy: 0.4866
Epoch 00163: val_loss did not improve from 0.71593
100/100 [=====] - 89s 876ms/step - loss: 1.4082 - dice_soft:
0.6480 - dice_crossentropy: 0.4866 - val_loss: 1.9989 - val_dice_soft: 0.4654 - val_d
ice_crossentropy: 0.6128 - lr: 1.0000e-05
Epoch 164/500
100/100 [=====] - ETA: 0s - loss: 1.3544 - dice_soft: 0.6614
- dice_crossentropy: 0.4790
Epoch 00164: val_loss did not improve from 0.71593
100/100 [=====] - 94s 943ms/step - loss: 1.3544 - dice_soft:
0.6614 - dice_crossentropy: 0.4790 - val_loss: 0.9087 - val_dice_soft: 0.7871 - val_d
ice_crossentropy: 0.5668 - lr: 1.0000e-05
Epoch 165/500
100/100 [=====] - ETA: 0s - loss: 1.3889 - dice_soft: 0.6528
- dice_crossentropy: 0.4858
Epoch 00165: val_loss did not improve from 0.71593
100/100 [=====] - 91s 866ms/step - loss: 1.3889 - dice_soft:
0.6528 - dice_crossentropy: 0.4858 - val_loss: 2.1203 - val_dice_soft: 0.5142 - val_d
ice_crossentropy: 0.5961 - lr: 1.0000e-05
Epoch 166/500
100/100 [=====] - ETA: 0s - loss: 1.2746 - dice_soft: 0.6813
- dice_crossentropy: 0.4563
Epoch 00166: val_loss did not improve from 0.71593
100/100 [=====] - 90s 896ms/step - loss: 1.2746 - dice_soft:
0.6813 - dice_crossentropy: 0.4563 - val_loss: 1.6626 - val_dice_soft: 0.5912 - val_d
ice_crossentropy: 0.5653 - lr: 1.0000e-05
Epoch 167/500
100/100 [=====] - ETA: 0s - loss: 1.3415 - dice_soft: 0.6646
- dice_crossentropy: 0.4739
Epoch 00167: val_loss did not improve from 0.71593
100/100 [=====] - 91s 898ms/step - loss: 1.3415 - dice_soft:
0.6646 - dice_crossentropy: 0.4739 - val_loss: 1.7541 - val_dice_soft: 0.5297 - val_d

```
ice_crossentropy: 0.5611 - lr: 1.0000e-05
Epoch 168/500
100/100 [=====] - ETA: 0s - loss: 1.3246 - dice_soft: 0.6688
- dice_crossentropy: 0.4731
Epoch 00168: val_loss did not improve from 0.71593
100/100 [=====] - 91s 888ms/step - loss: 1.3246 - dice_soft:
0.6688 - dice_crossentropy: 0.4731 - val_loss: 1.8452 - val_dice_soft: 0.5936 - val_d
ice_crossentropy: 0.6535 - lr: 1.0000e-05
Epoch 169/500
100/100 [=====] - ETA: 0s - loss: 1.3637 - dice_soft: 0.6591
- dice_crossentropy: 0.4755
Epoch 00169: val_loss did not improve from 0.71593
100/100 [=====] - 91s 891ms/step - loss: 1.3637 - dice_soft:
0.6591 - dice_crossentropy: 0.4755 - val_loss: 0.8959 - val_dice_soft: 0.7835 - val_d
ice_crossentropy: 0.4900 - lr: 1.0000e-05
Epoch 170/500
100/100 [=====] - ETA: 0s - loss: 1.2996 - dice_soft: 0.6751
- dice_crossentropy: 0.4583
Epoch 00170: val_loss did not improve from 0.71593
100/100 [=====] - 88s 885ms/step - loss: 1.2996 - dice_soft:
0.6751 - dice_crossentropy: 0.4583 - val_loss: 1.0271 - val_dice_soft: 0.6991 - val_d
ice_crossentropy: 0.6064 - lr: 1.0000e-05
Epoch 171/500
100/100 [=====] - ETA: 0s - loss: 1.4364 - dice_soft: 0.6409
- dice_crossentropy: 0.4891
Epoch 00171: val_loss did not improve from 0.71593
100/100 [=====] - 92s 892ms/step - loss: 1.4364 - dice_soft:
0.6409 - dice_crossentropy: 0.4891 - val_loss: 1.5790 - val_dice_soft: 0.5763 - val_d
ice_crossentropy: 0.6596 - lr: 1.0000e-05
Epoch 172/500
100/100 [=====] - ETA: 0s - loss: 1.3495 - dice_soft: 0.6626
- dice_crossentropy: 0.4701
Epoch 00172: val_loss did not improve from 0.71593
100/100 [=====] - 92s 922ms/step - loss: 1.3495 - dice_soft:
0.6626 - dice_crossentropy: 0.4701 - val_loss: 1.3040 - val_dice_soft: 0.6441 - val_d
ice_crossentropy: 0.7357 - lr: 1.0000e-05
Epoch 173/500
100/100 [=====] - ETA: 0s - loss: 1.3240 - dice_soft: 0.6690
- dice_crossentropy: 0.4630
Epoch 00173: val_loss did not improve from 0.71593
100/100 [=====] - 92s 886ms/step - loss: 1.3240 - dice_soft:
0.6690 - dice_crossentropy: 0.4630 - val_loss: 1.9258 - val_dice_soft: 0.5214 - val_d
ice_crossentropy: 0.7792 - lr: 1.0000e-05
Epoch 174/500
100/100 [=====] - ETA: 0s - loss: 1.3396 - dice_soft: 0.6651
- dice_crossentropy: 0.4706
Epoch 00174: val_loss did not improve from 0.71593
100/100 [=====] - 91s 898ms/step - loss: 1.3396 - dice_soft:
0.6651 - dice_crossentropy: 0.4706 - val_loss: 1.4264 - val_dice_soft: 0.6068 - val_d
ice_crossentropy: 0.6943 - lr: 1.0000e-05
Epoch 175/500
100/100 [=====] - ETA: 0s - loss: 1.4539 - dice_soft: 0.6365
- dice_crossentropy: 0.4969
Epoch 00175: val_loss did not improve from 0.71593
100/100 [=====] - 92s 884ms/step - loss: 1.4539 - dice_soft:
0.6365 - dice_crossentropy: 0.4969 - val_loss: 1.5407 - val_dice_soft: 0.6323 - val_d
ice_crossentropy: 0.6803 - lr: 1.0000e-05
Epoch 176/500
100/100 [=====] - ETA: 0s - loss: 1.3813 - dice_soft: 0.6547
- dice_crossentropy: 0.4770
Epoch 00176: val_loss did not improve from 0.71593
100/100 [=====] - 93s 897ms/step - loss: 1.3813 - dice_soft:
0.6547 - dice_crossentropy: 0.4770 - val_loss: 1.9774 - val_dice_soft: 0.5462 - val_d
ice_crossentropy: 0.7019 - lr: 1.0000e-05
Epoch 177/500
Loading [MathJax]/extensions/Safe.js [=====] - ETA: 0s - loss: 1.3821 - dice_soft: 0.6545
```

```
- dice_crossentropy: 0.4802
Epoch 00177: val_loss did not improve from 0.71593
100/100 [=====] - 93s 922ms/step - loss: 1.3821 - dice_soft:
  0.6545 - dice_crossentropy: 0.4802 - val_loss: 2.0387 - val_dice_soft: 0.4961 - val_d
ice_crossentropy: 0.6675 - lr: 1.0000e-05
Epoch 178/500
100/100 [=====] - ETA: 0s - loss: 1.4409 - dice_soft: 0.6398
  - dice_crossentropy: 0.4844
Epoch 00178: val_loss did not improve from 0.71593
100/100 [=====] - 90s 881ms/step - loss: 1.4409 - dice_soft:
  0.6398 - dice_crossentropy: 0.4844 - val_loss: 1.7909 - val_dice_soft: 0.5487 - val_d
ice_crossentropy: 0.6104 - lr: 1.0000e-05
Epoch 179/500
100/100 [=====] - ETA: 0s - loss: 1.2301 - dice_soft: 0.6925
  - dice_crossentropy: 0.4420
Epoch 00179: val_loss did not improve from 0.71593
100/100 [=====] - 91s 895ms/step - loss: 1.2301 - dice_soft:
  0.6925 - dice_crossentropy: 0.4420 - val_loss: 1.4568 - val_dice_soft: 0.6065 - val_d
ice_crossentropy: 0.6055 - lr: 1.0000e-05
Epoch 180/500
100/100 [=====] - ETA: 0s - loss: 1.1669 - dice_soft: 0.7083
  - dice_crossentropy: 0.4368
Epoch 00180: val_loss did not improve from 0.71593
100/100 [=====] - 92s 886ms/step - loss: 1.1669 - dice_soft:
  0.7083 - dice_crossentropy: 0.4368 - val_loss: 1.2557 - val_dice_soft: 0.6496 - val_d
ice_crossentropy: 0.6667 - lr: 1.0000e-05
Epoch 181/500
100/100 [=====] - ETA: 0s - loss: 1.3284 - dice_soft: 0.6679
  - dice_crossentropy: 0.4661
Epoch 00181: val_loss did not improve from 0.71593
100/100 [=====] - 91s 908ms/step - loss: 1.3284 - dice_soft:
  0.6679 - dice_crossentropy: 0.4661 - val_loss: 1.2913 - val_dice_soft: 0.6779 - val_d
ice_crossentropy: 0.5457 - lr: 1.0000e-05
Epoch 182/500
100/100 [=====] - ETA: 0s - loss: 1.2671 - dice_soft: 0.6832
  - dice_crossentropy: 0.4514
Epoch 00182: val_loss did not improve from 0.71593
100/100 [=====] - 89s 876ms/step - loss: 1.2671 - dice_soft:
  0.6832 - dice_crossentropy: 0.4514 - val_loss: 1.5551 - val_dice_soft: 0.5888 - val_d
ice_crossentropy: 0.5889 - lr: 1.0000e-05
Epoch 183/500
100/100 [=====] - ETA: 0s - loss: 1.3315 - dice_soft: 0.6671
  - dice_crossentropy: 0.4688
Epoch 00183: val_loss did not improve from 0.71593
100/100 [=====] - 92s 908ms/step - loss: 1.3315 - dice_soft:
  0.6671 - dice_crossentropy: 0.4688 - val_loss: 1.9067 - val_dice_soft: 0.5313 - val_d
ice_crossentropy: 0.6019 - lr: 1.0000e-05
Epoch 184/500
100/100 [=====] - ETA: 0s - loss: 1.2887 - dice_soft: 0.6778
  - dice_crossentropy: 0.4603
Epoch 00184: val_loss did not improve from 0.71593
100/100 [=====] - 92s 912ms/step - loss: 1.2887 - dice_soft:
  0.6778 - dice_crossentropy: 0.4603 - val_loss: 1.7119 - val_dice_soft: 0.5169 - val_d
ice_crossentropy: 0.7492 - lr: 1.0000e-05
Epoch 185/500
100/100 [=====] - ETA: 0s - loss: 1.4416 - dice_soft: 0.6396
  - dice_crossentropy: 0.4854
Epoch 00185: val_loss did not improve from 0.71593
100/100 [=====] - 90s 894ms/step - loss: 1.4416 - dice_soft:
  0.6396 - dice_crossentropy: 0.4854 - val_loss: 1.2908 - val_dice_soft: 0.6460 - val_d
ice_crossentropy: 0.7333 - lr: 1.0000e-05
Epoch 186/500
100/100 [=====] - ETA: 0s - loss: 1.3515 - dice_soft: 0.6621
  - dice_crossentropy: 0.4700
Epoch 00186: val_loss did not improve from 0.71593
100/100 [=====] - 91s 892ms/step - loss: 1.3515 - dice_soft:
```

0.6621 - dice_crossentropy: 0.4700 - val_loss: 2.0851 - val_dice_soft: 0.4917 - val_dice_crossentropy: 0.6927 - lr: 1.0000e-05
Epoch 187/500
100/100 [=====] - ETA: 0s - loss: 1.2839 - dice_soft: 0.6790
- dice_crossentropy: 0.4612
Epoch 00187: val_loss did not improve from 0.71593
100/100 [=====] - 91s 866ms/step - loss: 1.2839 - dice_soft:
0.6790 - dice_crossentropy: 0.4612 - val_loss: 1.4123 - val_dice_soft: 0.6389 - val_dice_crossentropy: 0.5625 - lr: 1.0000e-05
Epoch 188/500
100/100 [=====] - ETA: 0s - loss: 1.3403 - dice_soft: 0.6649
- dice_crossentropy: 0.4660
Epoch 00188: val_loss did not improve from 0.71593
100/100 [=====] - 92s 884ms/step - loss: 1.3403 - dice_soft:
0.6649 - dice_crossentropy: 0.4660 - val_loss: 1.7184 - val_dice_soft: 0.5166 - val_dice_crossentropy: 0.6280 - lr: 1.0000e-05
Epoch 189/500
100/100 [=====] - ETA: 0s - loss: 1.2775 - dice_soft: 0.6806
- dice_crossentropy: 0.4534
Epoch 00189: val_loss did not improve from 0.71593
100/100 [=====] - 89s 890ms/step - loss: 1.2775 - dice_soft:
0.6806 - dice_crossentropy: 0.4534 - val_loss: 1.6391 - val_dice_soft: 0.5800 - val_dice_crossentropy: 0.7078 - lr: 1.0000e-05
Epoch 190/500
100/100 [=====] - ETA: 0s - loss: 1.2834 - dice_soft: 0.6792
- dice_crossentropy: 0.4595
Epoch 00190: val_loss did not improve from 0.71593
100/100 [=====] - 90s 886ms/step - loss: 1.2834 - dice_soft:
0.6792 - dice_crossentropy: 0.4595 - val_loss: 1.7993 - val_dice_soft: 0.6267 - val_dice_crossentropy: 0.7734 - lr: 1.0000e-05
Epoch 191/500
100/100 [=====] - ETA: 0s - loss: 1.2880 - dice_soft: 0.6780
- dice_crossentropy: 0.4585
Epoch 00191: val_loss did not improve from 0.71593
100/100 [=====] - 90s 901ms/step - loss: 1.2880 - dice_soft:
0.6780 - dice_crossentropy: 0.4585 - val_loss: 1.8076 - val_dice_soft: 0.5170 - val_dice_crossentropy: 0.6619 - lr: 1.0000e-05
Epoch 192/500
100/100 [=====] - ETA: 0s - loss: 1.2684 - dice_soft: 0.6829
- dice_crossentropy: 0.4502
Epoch 00192: val_loss did not improve from 0.71593
100/100 [=====] - 92s 905ms/step - loss: 1.2684 - dice_soft:
0.6829 - dice_crossentropy: 0.4502 - val_loss: 1.3608 - val_dice_soft: 0.6380 - val_dice_crossentropy: 0.5102 - lr: 1.0000e-05
Epoch 193/500
100/100 [=====] - ETA: 0s - loss: 1.2564 - dice_soft: 0.6859
- dice_crossentropy: 0.4488
Epoch 00193: val_loss did not improve from 0.71593
100/100 [=====] - 89s 887ms/step - loss: 1.2564 - dice_soft:
0.6859 - dice_crossentropy: 0.4488 - val_loss: 1.8419 - val_dice_soft: 0.6178 - val_dice_crossentropy: 0.5818 - lr: 1.0000e-05
Epoch 194/500
100/100 [=====] - ETA: 0s - loss: 1.3693 - dice_soft: 0.6577
- dice_crossentropy: 0.4742
Epoch 00194: val_loss did not improve from 0.71593
100/100 [=====] - 90s 894ms/step - loss: 1.3693 - dice_soft:
0.6577 - dice_crossentropy: 0.4742 - val_loss: 1.1549 - val_dice_soft: 0.7147 - val_dice_crossentropy: 0.7026 - lr: 1.0000e-05
Epoch 195/500
100/100 [=====] - ETA: 0s - loss: 1.3293 - dice_soft: 0.6677
- dice_crossentropy: 0.4575
Epoch 00195: val_loss did not improve from 0.71593
100/100 [=====] - 91s 894ms/step - loss: 1.3293 - dice_soft:
0.6677 - dice_crossentropy: 0.4575 - val_loss: 1.4996 - val_dice_soft: 0.6013 - val_dice_crossentropy: 0.5836 - lr: 1.0000e-05

100/100 [=====] - ETA: 0s - loss: 1.3410 - dice_soft: 0.6648
- dice_crossentropy: 0.4671
Epoch 00196: val_loss did not improve from 0.71593
100/100 [=====] - 92s 887ms/step - loss: 1.3410 - dice_soft:
0.6648 - dice_crossentropy: 0.4671 - val_loss: 0.9516 - val_dice_soft: 0.7945 - val_d
ice_crossentropy: 0.4094 - lr: 1.0000e-05
Epoch 197/500
100/100 [=====] - ETA: 0s - loss: 1.4076 - dice_soft: 0.6481
- dice_crossentropy: 0.4828
Epoch 00197: val_loss did not improve from 0.71593
100/100 [=====] - 90s 899ms/step - loss: 1.4076 - dice_soft:
0.6481 - dice_crossentropy: 0.4828 - val_loss: 1.2697 - val_dice_soft: 0.6658 - val_d
ice_crossentropy: 0.5481 - lr: 1.0000e-05
Epoch 198/500
100/100 [=====] - ETA: 0s - loss: 1.2892 - dice_soft: 0.6777
- dice_crossentropy: 0.4529
Epoch 00198: val_loss did not improve from 0.71593
100/100 [=====] - 92s 895ms/step - loss: 1.2892 - dice_soft:
0.6777 - dice_crossentropy: 0.4529 - val_loss: 1.1069 - val_dice_soft: 0.7064 - val_d
ice_crossentropy: 0.8388 - lr: 1.0000e-05
Epoch 199/500
100/100 [=====] - ETA: 0s - loss: 1.3051 - dice_soft: 0.6737
- dice_crossentropy: 0.4547
Epoch 00199: val_loss did not improve from 0.71593
100/100 [=====] - 90s 888ms/step - loss: 1.3051 - dice_soft:
0.6737 - dice_crossentropy: 0.4547 - val_loss: 1.6863 - val_dice_soft: 0.5804 - val_d
ice_crossentropy: 0.9126 - lr: 1.0000e-05
Epoch 200/500
100/100 [=====] - ETA: 0s - loss: 1.3016 - dice_soft: 0.6746
- dice_crossentropy: 0.4500
Epoch 00200: val_loss did not improve from 0.71593
100/100 [=====] - 91s 894ms/step - loss: 1.3016 - dice_soft:
0.6746 - dice_crossentropy: 0.4500 - val_loss: 1.5251 - val_dice_soft: 0.6165 - val_d
ice_crossentropy: 0.7388 - lr: 1.0000e-05
Epoch 201/500
100/100 [=====] - ETA: 0s - loss: 1.2185 - dice_soft: 0.6954
- dice_crossentropy: 0.4396
Epoch 00201: val_loss did not improve from 0.71593
100/100 [=====] - 89s 876ms/step - loss: 1.2185 - dice_soft:
0.6954 - dice_crossentropy: 0.4396 - val_loss: 1.2070 - val_dice_soft: 0.6941 - val_d
ice_crossentropy: 0.6508 - lr: 1.0000e-05
Epoch 202/500
100/100 [=====] - ETA: 0s - loss: 1.2687 - dice_soft: 0.6828
- dice_crossentropy: 0.4530
Epoch 00202: val_loss did not improve from 0.71593
100/100 [=====] - 91s 889ms/step - loss: 1.2687 - dice_soft:
0.6828 - dice_crossentropy: 0.4530 - val_loss: 1.5967 - val_dice_soft: 0.5818 - val_d
ice_crossentropy: 0.7707 - lr: 1.0000e-05
Epoch 203/500
100/100 [=====] - ETA: 0s - loss: 1.3091 - dice_soft: 0.6727
- dice_crossentropy: 0.4669
Epoch 00203: val_loss did not improve from 0.71593
100/100 [=====] - 93s 895ms/step - loss: 1.3091 - dice_soft:
0.6727 - dice_crossentropy: 0.4669 - val_loss: 1.6960 - val_dice_soft: 0.5479 - val_d
ice_crossentropy: 0.6580 - lr: 1.0000e-05
Epoch 204/500
100/100 [=====] - ETA: 0s - loss: 1.2700 - dice_soft: 0.6825
- dice_crossentropy: 0.4537
Epoch 00204: val_loss did not improve from 0.71593
100/100 [=====] - 94s 910ms/step - loss: 1.2700 - dice_soft:
0.6825 - dice_crossentropy: 0.4537 - val_loss: 1.2978 - val_dice_soft: 0.6401 - val_d
ice_crossentropy: 0.6106 - lr: 1.0000e-05
Epoch 205/500
100/100 [=====] - ETA: 0s - loss: 1.5005 - dice_soft: 0.6249
- dice_crossentropy: 0.5002
Epoch 00205: val_loss did not improve from 0.71593


```
100/100 [=====] - 91s 890ms/step - loss: 1.5005 - dice_soft:
  0.6249 - dice_crossentropy: 0.5002 - val_loss: 0.9599 - val_dice_soft: 0.7856 - val_d
ice_crossentropy: 0.4891 - lr: 1.0000e-05
Epoch 206/500
100/100 [=====] - ETA: 0s - loss: 1.1824 - dice_soft: 0.7044
  - dice_crossentropy: 0.4324
Epoch 00206: val_loss did not improve from 0.71593
100/100 [=====] - 90s 870ms/step - loss: 1.1824 - dice_soft:
  0.7044 - dice_crossentropy: 0.4324 - val_loss: 1.4885 - val_dice_soft: 0.6534 - val_d
ice_crossentropy: 0.4975 - lr: 1.0000e-05
Epoch 207/500
100/100 [=====] - ETA: 0s - loss: 1.3434 - dice_soft: 0.6641
  - dice_crossentropy: 0.4620
Epoch 00207: val_loss did not improve from 0.71593
100/100 [=====] - 91s 875ms/step - loss: 1.3434 - dice_soft:
  0.6641 - dice_crossentropy: 0.4620 - val_loss: 1.1237 - val_dice_soft: 0.7473 - val_d
ice_crossentropy: 0.5021 - lr: 1.0000e-05
Epoch 208/500
100/100 [=====] - ETA: 0s - loss: 1.2696 - dice_soft: 0.6826
  - dice_crossentropy: 0.4489
Epoch 00208: val_loss did not improve from 0.71593
100/100 [=====] - 89s 881ms/step - loss: 1.2696 - dice_soft:
  0.6826 - dice_crossentropy: 0.4489 - val_loss: 1.9810 - val_dice_soft: 0.4801 - val_d
ice_crossentropy: 0.7180 - lr: 1.0000e-05
Epoch 209/500
100/100 [=====] - ETA: 0s - loss: 1.4486 - dice_soft: 0.6378
  - dice_crossentropy: 0.4905
Epoch 00209: val_loss did not improve from 0.71593
100/100 [=====] - 92s 921ms/step - loss: 1.4486 - dice_soft:
  0.6378 - dice_crossentropy: 0.4905 - val_loss: 1.4707 - val_dice_soft: 0.6108 - val_d
ice_crossentropy: 0.6673 - lr: 1.0000e-05
Epoch 210/500
100/100 [=====] - ETA: 0s - loss: 1.3995 - dice_soft: 0.6501
  - dice_crossentropy: 0.4711
Epoch 00210: val_loss did not improve from 0.71593
100/100 [=====] - 90s 879ms/step - loss: 1.3995 - dice_soft:
  0.6501 - dice_crossentropy: 0.4711 - val_loss: 1.7321 - val_dice_soft: 0.5749 - val_d
ice_crossentropy: 0.8614 - lr: 1.0000e-05
Epoch 211/500
100/100 [=====] - ETA: 0s - loss: 1.3678 - dice_soft: 0.6581
  - dice_crossentropy: 0.4717
Epoch 00211: val_loss did not improve from 0.71593
100/100 [=====] - 93s 928ms/step - loss: 1.3678 - dice_soft:
  0.6581 - dice_crossentropy: 0.4717 - val_loss: 0.9493 - val_dice_soft: 0.7718 - val_d
ice_crossentropy: 0.5120 - lr: 1.0000e-05
Epoch 212/500
100/100 [=====] - ETA: 0s - loss: 1.2777 - dice_soft: 0.6806
  - dice_crossentropy: 0.4510
Epoch 00212: val_loss did not improve from 0.71593
100/100 [=====] - 89s 877ms/step - loss: 1.2777 - dice_soft:
  0.6806 - dice_crossentropy: 0.4510 - val_loss: 1.0585 - val_dice_soft: 0.7617 - val_d
ice_crossentropy: 0.5803 - lr: 1.0000e-05
Epoch 213/500
100/100 [=====] - ETA: 0s - loss: 1.2793 - dice_soft: 0.6802
  - dice_crossentropy: 0.4467
Epoch 00213: val_loss did not improve from 0.71593
100/100 [=====] - 93s 921ms/step - loss: 1.2793 - dice_soft:
  0.6802 - dice_crossentropy: 0.4467 - val_loss: 2.2895 - val_dice_soft: 0.4241 - val_d
ice_crossentropy: 0.8835 - lr: 1.0000e-05
Epoch 214/500
100/100 [=====] - ETA: 0s - loss: 1.4065 - dice_soft: 0.6484
  - dice_crossentropy: 0.4776
Epoch 00214: val_loss did not improve from 0.71593
100/100 [=====] - 92s 896ms/step - loss: 1.4065 - dice_soft:
  0.6484 - dice_crossentropy: 0.4776 - val_loss: 1.7901 - val_dice_soft: 0.6079 - val_d
ice_crossentropy: 0.5633 - lr: 1.0000e-05
```

Epoch 215/500
100/100 [=====] - ETA: 0s - loss: 1.2517 - dice_soft: 0.6871
- dice_crossentropy: 0.4499
Epoch 00215: val_loss did not improve from 0.71593
100/100 [=====] - 91s 881ms/step - loss: 1.2517 - dice_soft:
0.6871 - dice_crossentropy: 0.4499 - val_loss: 2.1849 - val_dice_soft: 0.4275 - val_d
ice_crossentropy: 0.6783 - lr: 1.0000e-05
Epoch 216/500
100/100 [=====] - ETA: 0s - loss: 1.2796 - dice_soft: 0.6801
- dice_crossentropy: 0.4542
Epoch 00216: val_loss did not improve from 0.71593
100/100 [=====] - 92s 885ms/step - loss: 1.2796 - dice_soft:
0.6801 - dice_crossentropy: 0.4542 - val_loss: 1.6598 - val_dice_soft: 0.6115 - val_d
ice_crossentropy: 0.6305 - lr: 1.0000e-05
Epoch 217/500
100/100 [=====] - ETA: 0s - loss: 1.2696 - dice_soft: 0.6826
- dice_crossentropy: 0.4449
Epoch 00217: val_loss did not improve from 0.71593
100/100 [=====] - 93s 908ms/step - loss: 1.2696 - dice_soft:
0.6826 - dice_crossentropy: 0.4449 - val_loss: 0.8457 - val_dice_soft: 0.7960 - val_d
ice_crossentropy: 0.5242 - lr: 1.0000e-05
Epoch 218/500
100/100 [=====] - ETA: 0s - loss: 1.3330 - dice_soft: 0.6667
- dice_crossentropy: 0.4609
Epoch 00218: val_loss did not improve from 0.71593
100/100 [=====] - 89s 869ms/step - loss: 1.3330 - dice_soft:
0.6667 - dice_crossentropy: 0.4609 - val_loss: 1.3427 - val_dice_soft: 0.6424 - val_d
ice_crossentropy: 0.4957 - lr: 1.0000e-05
Epoch 219/500
100/100 [=====] - ETA: 0s - loss: 1.2772 - dice_soft: 0.6807
- dice_crossentropy: 0.4481
Epoch 00219: val_loss did not improve from 0.71593
100/100 [=====] - 89s 877ms/step - loss: 1.2772 - dice_soft:
0.6807 - dice_crossentropy: 0.4481 - val_loss: 0.9678 - val_dice_soft: 0.7486 - val_d
ice_crossentropy: 0.5750 - lr: 1.0000e-05
Epoch 220/500
100/100 [=====] - ETA: 0s - loss: 1.4266 - dice_soft: 0.6433
- dice_crossentropy: 0.4841
Epoch 00220: val_loss did not improve from 0.71593
100/100 [=====] - 93s 906ms/step - loss: 1.4266 - dice_soft:
0.6433 - dice_crossentropy: 0.4841 - val_loss: 1.3722 - val_dice_soft: 0.6447 - val_d
ice_crossentropy: 0.8628 - lr: 1.0000e-05
Epoch 221/500
100/100 [=====] - ETA: 0s - loss: 1.2438 - dice_soft: 0.6891
- dice_crossentropy: 0.4436
Epoch 00221: val_loss did not improve from 0.71593
100/100 [=====] - 90s 873ms/step - loss: 1.2438 - dice_soft:
0.6891 - dice_crossentropy: 0.4436 - val_loss: 1.4456 - val_dice_soft: 0.6495 - val_d
ice_crossentropy: 0.7645 - lr: 1.0000e-05
Epoch 222/500
100/100 [=====] - ETA: 0s - loss: 1.3534 - dice_soft: 0.6617
- dice_crossentropy: 0.4754
Epoch 00222: val_loss did not improve from 0.71593
100/100 [=====] - 93s 903ms/step - loss: 1.3534 - dice_soft:
0.6617 - dice_crossentropy: 0.4754 - val_loss: 1.9602 - val_dice_soft: 0.5055 - val_d
ice_crossentropy: 0.6714 - lr: 1.0000e-05
Epoch 223/500
100/100 [=====] - ETA: 0s - loss: 1.3354 - dice_soft: 0.6662
- dice_crossentropy: 0.4642
Epoch 00223: val_loss did not improve from 0.71593
100/100 [=====] - 92s 892ms/step - loss: 1.3354 - dice_soft:
0.6662 - dice_crossentropy: 0.4642 - val_loss: 2.1455 - val_dice_soft: 0.4610 - val_d
ice_crossentropy: 0.6363 - lr: 1.0000e-05
Epoch 224/500
100/100 [=====] - ETA: 0s - loss: 1.2592 - dice_soft: 0.6852
- dice_crossentropy: 0.4446

Epoch 00224: val_loss did not improve from 0.71593
100/100 [=====] - 88s 867ms/step - loss: 1.2592 - dice_soft:
0.6852 - dice_crossentropy: 0.4446 - val_loss: 1.6185 - val_dice_soft: 0.6196 - val_d
ice_crossentropy: 0.9143 - lr: 1.0000e-05
Epoch 225/500
100/100 [=====] - ETA: 0s - loss: 1.3642 - dice_soft: 0.6590
- dice_crossentropy: 0.4674
Epoch 00225: val_loss did not improve from 0.71593
100/100 [=====] - 89s 869ms/step - loss: 1.3642 - dice_soft:
0.6590 - dice_crossentropy: 0.4674 - val_loss: 1.1712 - val_dice_soft: 0.6869 - val_d
ice_crossentropy: 0.6183 - lr: 1.0000e-05
Epoch 226/500
100/100 [=====] - ETA: 0s - loss: 1.3775 - dice_soft: 0.6556
- dice_crossentropy: 0.4739
Epoch 00226: val_loss did not improve from 0.71593
100/100 [=====] - 92s 899ms/step - loss: 1.3775 - dice_soft:
0.6556 - dice_crossentropy: 0.4739 - val_loss: 1.2868 - val_dice_soft: 0.6863 - val_d
ice_crossentropy: 0.5005 - lr: 1.0000e-05
Epoch 227/500
100/100 [=====] - ETA: 0s - loss: 1.3444 - dice_soft: 0.6639
- dice_crossentropy: 0.4607
Epoch 00227: val_loss did not improve from 0.71593
100/100 [=====] - 88s 855ms/step - loss: 1.3444 - dice_soft:
0.6639 - dice_crossentropy: 0.4607 - val_loss: 1.3993 - val_dice_soft: 0.5877 - val_d
ice_crossentropy: 0.7483 - lr: 1.0000e-05
Epoch 228/500
100/100 [=====] - ETA: 0s - loss: 1.1985 - dice_soft: 0.7004
- dice_crossentropy: 0.4316
Epoch 00228: val_loss did not improve from 0.71593
100/100 [=====] - 90s 866ms/step - loss: 1.1985 - dice_soft:
0.7004 - dice_crossentropy: 0.4316 - val_loss: 1.5667 - val_dice_soft: 0.6550 - val_d
ice_crossentropy: 0.5810 - lr: 1.0000e-05
Epoch 229/500
100/100 [=====] - ETA: 0s - loss: 1.2577 - dice_soft: 0.6856
- dice_crossentropy: 0.4504
Epoch 00229: val_loss did not improve from 0.71593
100/100 [=====] - 90s 903ms/step - loss: 1.2577 - dice_soft:
0.6856 - dice_crossentropy: 0.4504 - val_loss: 1.6542 - val_dice_soft: 0.6499 - val_d
ice_crossentropy: 0.5174 - lr: 1.0000e-05
Epoch 230/500
100/100 [=====] - ETA: 0s - loss: 1.2857 - dice_soft: 0.6786
- dice_crossentropy: 0.4545
Epoch 00230: val_loss did not improve from 0.71593
100/100 [=====] - 89s 883ms/step - loss: 1.2857 - dice_soft:
0.6786 - dice_crossentropy: 0.4545 - val_loss: 1.8880 - val_dice_soft: 0.5678 - val_d
ice_crossentropy: 0.7548 - lr: 1.0000e-05
Epoch 231/500
100/100 [=====] - ETA: 0s - loss: 1.3672 - dice_soft: 0.6582
- dice_crossentropy: 0.4720
Epoch 00231: val_loss did not improve from 0.71593
100/100 [=====] - 93s 901ms/step - loss: 1.3672 - dice_soft:
0.6582 - dice_crossentropy: 0.4720 - val_loss: 1.7492 - val_dice_soft: 0.5624 - val_d
ice_crossentropy: 0.8143 - lr: 1.0000e-05
Epoch 232/500
100/100 [=====] - ETA: 0s - loss: 1.3154 - dice_soft: 0.6712
- dice_crossentropy: 0.4570
Epoch 00232: val_loss did not improve from 0.71593
100/100 [=====] - 89s 863ms/step - loss: 1.3154 - dice_soft:
0.6712 - dice_crossentropy: 0.4570 - val_loss: 0.9170 - val_dice_soft: 0.7870 - val_d
ice_crossentropy: 0.6001 - lr: 1.0000e-05
Epoch 233/500
100/100 [=====] - ETA: 0s - loss: 1.4590 - dice_soft: 0.6353
- dice_crossentropy: 0.4900
Epoch 00233: val_loss did not improve from 0.71593
100/100 [=====] - 88s 878ms/step - loss: 1.4590 - dice_soft:
_crossentropy: 0.4900 - val_loss: 1.8724 - val_dice_soft: 0.5296 - val_d

```
ice_crossentropy: 0.5866 - lr: 1.0000e-05
Epoch 234/500
100/100 [=====] - ETA: 0s - loss: 1.4423 - dice_soft: 0.6394
- dice_crossentropy: 0.4888
Epoch 00234: val_loss did not improve from 0.71593
100/100 [=====] - 92s 907ms/step - loss: 1.4423 - dice_soft:
0.6394 - dice_crossentropy: 0.4888 - val_loss: 1.7636 - val_dice_soft: 0.5400 - val_d
ice_crossentropy: 0.5723 - lr: 1.0000e-05
Epoch 235/500
100/100 [=====] - ETA: 0s - loss: 1.3303 - dice_soft: 0.6674
- dice_crossentropy: 0.4585
Epoch 00235: val_loss did not improve from 0.71593
100/100 [=====] - 90s 893ms/step - loss: 1.3303 - dice_soft:
0.6674 - dice_crossentropy: 0.4585 - val_loss: 2.2520 - val_dice_soft: 0.4322 - val_d
ice_crossentropy: 0.7353 - lr: 1.0000e-05
Epoch 236/500
100/100 [=====] - ETA: 0s - loss: 1.3131 - dice_soft: 0.6717
- dice_crossentropy: 0.4515
Epoch 00236: val_loss did not improve from 0.71593
100/100 [=====] - 92s 901ms/step - loss: 1.3131 - dice_soft:
0.6717 - dice_crossentropy: 0.4515 - val_loss: 1.8156 - val_dice_soft: 0.4718 - val_d
ice_crossentropy: 0.7799 - lr: 1.0000e-05
Epoch 237/500
100/100 [=====] - ETA: 0s - loss: 1.2852 - dice_soft: 0.6787
- dice_crossentropy: 0.4525
Epoch 00237: val_loss did not improve from 0.71593
100/100 [=====] - 91s 858ms/step - loss: 1.2852 - dice_soft:
0.6787 - dice_crossentropy: 0.4525 - val_loss: 2.3403 - val_dice_soft: 0.4466 - val_d
ice_crossentropy: 0.6256 - lr: 1.0000e-05
Epoch 238/500
100/100 [=====] - ETA: 0s - loss: 1.1791 - dice_soft: 0.7052
- dice_crossentropy: 0.4248
Epoch 00238: val_loss did not improve from 0.71593
100/100 [=====] - 92s 899ms/step - loss: 1.1791 - dice_soft:
0.7052 - dice_crossentropy: 0.4248 - val_loss: 0.9325 - val_dice_soft: 0.7618 - val_d
ice_crossentropy: 0.5001 - lr: 1.0000e-05
Epoch 239/500
100/100 [=====] - ETA: 0s - loss: 1.3856 - dice_soft: 0.6536
- dice_crossentropy: 0.4708
Epoch 00239: val_loss did not improve from 0.71593
100/100 [=====] - 92s 876ms/step - loss: 1.3856 - dice_soft:
0.6536 - dice_crossentropy: 0.4708 - val_loss: 2.0904 - val_dice_soft: 0.4929 - val_d
ice_crossentropy: 0.5988 - lr: 1.0000e-05
Epoch 240/500
100/100 [=====] - ETA: 0s - loss: 1.2626 - dice_soft: 0.6843
- dice_crossentropy: 0.4480
Epoch 00240: val_loss did not improve from 0.71593
100/100 [=====] - 91s 902ms/step - loss: 1.2626 - dice_soft:
0.6843 - dice_crossentropy: 0.4480 - val_loss: 1.2919 - val_dice_soft: 0.6491 - val_d
ice_crossentropy: 0.7628 - lr: 1.0000e-05
Epoch 241/500
100/100 [=====] - ETA: 0s - loss: 1.3892 - dice_soft: 0.6527
- dice_crossentropy: 0.4723
Epoch 00241: val_loss did not improve from 0.71593
100/100 [=====] - 92s 912ms/step - loss: 1.3892 - dice_soft:
0.6527 - dice_crossentropy: 0.4723 - val_loss: 0.7744 - val_dice_soft: 0.7939 - val_d
ice_crossentropy: 0.4537 - lr: 1.0000e-05
Epoch 242/500
100/100 [=====] - ETA: 0s - loss: 1.2421 - dice_soft: 0.6895
- dice_crossentropy: 0.4430
Epoch 00242: val_loss did not improve from 0.71593
100/100 [=====] - 90s 882ms/step - loss: 1.2421 - dice_soft:
0.6895 - dice_crossentropy: 0.4430 - val_loss: 1.4985 - val_dice_soft: 0.6401 - val_d
ice_crossentropy: 0.5786 - lr: 1.0000e-05
Epoch 243/500
Loading [MathJax]/extensions/Safe.js [=====] - ETA: 0s - loss: 1.2436 - dice_soft: 0.6891
```

- dice_crossentropy: 0.4356
Epoch 00243: val_loss did not improve from 0.71593
100/100 [=====] - 90s 888ms/step - loss: 1.2436 - dice_soft:
0.6891 - dice_crossentropy: 0.4356 - val_loss: 1.8203 - val_dice_soft: 0.5346 - val_d
ice_crossentropy: 0.8558 - lr: 1.0000e-05
Epoch 244/500
100/100 [=====] - ETA: 0s - loss: 1.3320 - dice_soft: 0.6670
- dice_crossentropy: 0.4617
Epoch 00244: val_loss did not improve from 0.71593
100/100 [=====] - 87s 865ms/step - loss: 1.3320 - dice_soft:
0.6670 - dice_crossentropy: 0.4617 - val_loss: 1.2439 - val_dice_soft: 0.6551 - val_d
ice_crossentropy: 0.5369 - lr: 1.0000e-05
Epoch 245/500
100/100 [=====] - ETA: 0s - loss: 1.3387 - dice_soft: 0.6653
- dice_crossentropy: 0.4631
Epoch 00245: val_loss did not improve from 0.71593
100/100 [=====] - 89s 888ms/step - loss: 1.3387 - dice_soft:
0.6653 - dice_crossentropy: 0.4631 - val_loss: 1.5083 - val_dice_soft: 0.6007 - val_d
ice_crossentropy: 0.5852 - lr: 1.0000e-05
Epoch 246/500
100/100 [=====] - ETA: 0s - loss: 1.4265 - dice_soft: 0.6434
- dice_crossentropy: 0.4778
Epoch 00246: val_loss did not improve from 0.71593
100/100 [=====] - 92s 889ms/step - loss: 1.4265 - dice_soft:
0.6434 - dice_crossentropy: 0.4778 - val_loss: 1.6545 - val_dice_soft: 0.6362 - val_d
ice_crossentropy: 0.7476 - lr: 1.0000e-05
Epoch 247/500
100/100 [=====] - ETA: 0s - loss: 1.3103 - dice_soft: 0.6724
- dice_crossentropy: 0.4576
Epoch 00247: val_loss did not improve from 0.71593
100/100 [=====] - 90s 896ms/step - loss: 1.3103 - dice_soft:
0.6724 - dice_crossentropy: 0.4576 - val_loss: 2.3541 - val_dice_soft: 0.4029 - val_d
ice_crossentropy: 0.6708 - lr: 1.0000e-05
Epoch 248/500
100/100 [=====] - ETA: 0s - loss: 1.3588 - dice_soft: 0.6603
- dice_crossentropy: 0.4739
Epoch 00248: val_loss did not improve from 0.71593
100/100 [=====] - 94s 913ms/step - loss: 1.3588 - dice_soft:
0.6603 - dice_crossentropy: 0.4739 - val_loss: 1.3494 - val_dice_soft: 0.7059 - val_d
ice_crossentropy: 0.7000 - lr: 1.0000e-05
Epoch 249/500
100/100 [=====] - ETA: 0s - loss: 1.3019 - dice_soft: 0.6745
- dice_crossentropy: 0.4564
Epoch 00249: val_loss did not improve from 0.71593
100/100 [=====] - 89s 867ms/step - loss: 1.3019 - dice_soft:
0.6745 - dice_crossentropy: 0.4564 - val_loss: 1.2919 - val_dice_soft: 0.6377 - val_d
ice_crossentropy: 0.5793 - lr: 1.0000e-05
Epoch 250/500
100/100 [=====] - ETA: 0s - loss: 1.3035 - dice_soft: 0.6741
- dice_crossentropy: 0.4587
Epoch 00250: val_loss did not improve from 0.71593
100/100 [=====] - 89s 876ms/step - loss: 1.3035 - dice_soft:
0.6741 - dice_crossentropy: 0.4587 - val_loss: 1.3116 - val_dice_soft: 0.6860 - val_d
ice_crossentropy: 0.8630 - lr: 1.0000e-05
Epoch 251/500
100/100 [=====] - ETA: 0s - loss: 1.2952 - dice_soft: 0.6762
- dice_crossentropy: 0.4514
Epoch 00251: val_loss did not improve from 0.71593
100/100 [=====] - 93s 919ms/step - loss: 1.2952 - dice_soft:
0.6762 - dice_crossentropy: 0.4514 - val_loss: 2.2298 - val_dice_soft: 0.4777 - val_d
ice_crossentropy: 0.5608 - lr: 1.0000e-05
Epoch 252/500
100/100 [=====] - ETA: 0s - loss: 1.2211 - dice_soft: 0.6947
- dice_crossentropy: 0.4382
Epoch 00252: val_loss did not improve from 0.71593
100/100 [=====] - 90s 899ms/step - loss: 1.2211 - dice_soft:

0.6947 - dice_crossentropy: 0.4382 - val_loss: 1.3847 - val_dice_soft: 0.6980 - val_dice_crossentropy: 0.5838 - lr: 1.0000e-05
Epoch 253/500
100/100 [=====] - ETA: 0s - loss: 1.3222 - dice_soft: 0.6695
- dice_crossentropy: 0.4564
Epoch 00253: val_loss did not improve from 0.71593
100/100 [=====] - 92s 885ms/step - loss: 1.3222 - dice_soft:
0.6695 - dice_crossentropy: 0.4564 - val_loss: 1.7342 - val_dice_soft: 0.5581 - val_dice_crossentropy: 0.5572 - lr: 1.0000e-05
Epoch 254/500
100/100 [=====] - ETA: 0s - loss: 1.1891 - dice_soft: 0.7027
- dice_crossentropy: 0.4326
Epoch 00254: val_loss did not improve from 0.71593
100/100 [=====] - 93s 896ms/step - loss: 1.1891 - dice_soft:
0.7027 - dice_crossentropy: 0.4326 - val_loss: 2.2800 - val_dice_soft: 0.4778 - val_dice_crossentropy: 0.6932 - lr: 1.0000e-05
Epoch 255/500
100/100 [=====] - ETA: 0s - loss: 1.3793 - dice_soft: 0.6552
- dice_crossentropy: 0.4627
Epoch 00255: val_loss did not improve from 0.71593
100/100 [=====] - 91s 887ms/step - loss: 1.3793 - dice_soft:
0.6552 - dice_crossentropy: 0.4627 - val_loss: 1.5317 - val_dice_soft: 0.6789 - val_dice_crossentropy: 0.5775 - lr: 1.0000e-05
Epoch 256/500
100/100 [=====] - ETA: 0s - loss: 1.2315 - dice_soft: 0.6921
- dice_crossentropy: 0.4379
Epoch 00256: val_loss did not improve from 0.71593
100/100 [=====] - 89s 869ms/step - loss: 1.2315 - dice_soft:
0.6921 - dice_crossentropy: 0.4379 - val_loss: 2.1252 - val_dice_soft: 0.5578 - val_dice_crossentropy: 0.6266 - lr: 1.0000e-05
Epoch 257/500
100/100 [=====] - ETA: 0s - loss: 1.2532 - dice_soft: 0.6867
- dice_crossentropy: 0.4485
Epoch 00257: val_loss did not improve from 0.71593
100/100 [=====] - 89s 880ms/step - loss: 1.2532 - dice_soft:
0.6867 - dice_crossentropy: 0.4485 - val_loss: 1.5795 - val_dice_soft: 0.5909 - val_dice_crossentropy: 0.6175 - lr: 1.0000e-05
Epoch 258/500
100/100 [=====] - ETA: 0s - loss: 1.2953 - dice_soft: 0.6762
- dice_crossentropy: 0.4614
Epoch 00258: val_loss did not improve from 0.71593
100/100 [=====] - 90s 860ms/step - loss: 1.2953 - dice_soft:
0.6762 - dice_crossentropy: 0.4614 - val_loss: 1.8661 - val_dice_soft: 0.5582 - val_dice_crossentropy: 0.6387 - lr: 1.0000e-05
Epoch 259/500
100/100 [=====] - ETA: 0s - loss: 1.2370 - dice_soft: 0.6907
- dice_crossentropy: 0.4390
Epoch 00259: val_loss did not improve from 0.71593
100/100 [=====] - 92s 906ms/step - loss: 1.2370 - dice_soft:
0.6907 - dice_crossentropy: 0.4390 - val_loss: 1.9186 - val_dice_soft: 0.5242 - val_dice_crossentropy: 0.6915 - lr: 1.0000e-05
Epoch 260/500
100/100 [=====] - ETA: 0s - loss: 1.3378 - dice_soft: 0.6656
- dice_crossentropy: 0.4667
Epoch 00260: val_loss did not improve from 0.71593
100/100 [=====] - 88s 875ms/step - loss: 1.3378 - dice_soft:
0.6656 - dice_crossentropy: 0.4667 - val_loss: 1.5227 - val_dice_soft: 0.5957 - val_dice_crossentropy: 0.5546 - lr: 1.0000e-05
Epoch 261/500
100/100 [=====] - ETA: 0s - loss: 1.2433 - dice_soft: 0.6892
- dice_crossentropy: 0.4398
Epoch 00261: val_loss did not improve from 0.71593
100/100 [=====] - 89s 880ms/step - loss: 1.2433 - dice_soft:
0.6892 - dice_crossentropy: 0.4398 - val_loss: 1.3745 - val_dice_soft: 0.6428 - val_dice_crossentropy: 0.4661 - lr: 1.0000e-05

```
100/100 [=====] - ETA: 0s - loss: 1.2906 - dice_soft: 0.6774
- dice_crossentropy: 0.4441
Epoch 00262: val_loss did not improve from 0.71593
100/100 [=====] - 92s 891ms/step - loss: 1.2906 - dice_soft:
0.6774 - dice_crossentropy: 0.4441 - val_loss: 1.3184 - val_dice_soft: 0.6534 - val_d
ice_crossentropy: 0.5621 - lr: 1.0000e-05
Epoch 263/500
100/100 [=====] - ETA: 0s - loss: 1.3191 - dice_soft: 0.6702
- dice_crossentropy: 0.4658
Epoch 00263: val_loss did not improve from 0.71593
100/100 [=====] - 89s 882ms/step - loss: 1.3191 - dice_soft:
0.6702 - dice_crossentropy: 0.4658 - val_loss: 1.5031 - val_dice_soft: 0.6457 - val_d
ice_crossentropy: 0.8047 - lr: 1.0000e-05
Epoch 264/500
100/100 [=====] - ETA: 0s - loss: 1.2537 - dice_soft: 0.6866
- dice_crossentropy: 0.4479
Epoch 00264: val_loss did not improve from 0.71593
100/100 [=====] - 91s 905ms/step - loss: 1.2537 - dice_soft:
0.6866 - dice_crossentropy: 0.4479 - val_loss: 1.8584 - val_dice_soft: 0.5582 - val_d
ice_crossentropy: 0.6536 - lr: 1.0000e-05
Epoch 265/500
100/100 [=====] - ETA: 0s - loss: 1.2733 - dice_soft: 0.6817
- dice_crossentropy: 0.4512
Epoch 00265: val_loss did not improve from 0.71593
100/100 [=====] - 93s 902ms/step - loss: 1.2733 - dice_soft:
0.6817 - dice_crossentropy: 0.4512 - val_loss: 1.0435 - val_dice_soft: 0.7388 - val_d
ice_crossentropy: 0.5652 - lr: 1.0000e-05
Epoch 266/500
100/100 [=====] - ETA: 0s - loss: 1.3513 - dice_soft: 0.6622
- dice_crossentropy: 0.4640
Epoch 00266: val_loss did not improve from 0.71593
100/100 [=====] - 95s 923ms/step - loss: 1.3513 - dice_soft:
0.6622 - dice_crossentropy: 0.4640 - val_loss: 1.1997 - val_dice_soft: 0.6926 - val_d
ice_crossentropy: 0.6021 - lr: 1.0000e-05
Epoch 267/500
100/100 [=====] - ETA: 0s - loss: 1.2594 - dice_soft: 0.6851
- dice_crossentropy: 0.4467
Epoch 00267: val_loss did not improve from 0.71593
100/100 [=====] - 92s 885ms/step - loss: 1.2594 - dice_soft:
0.6851 - dice_crossentropy: 0.4467 - val_loss: 1.3591 - val_dice_soft: 0.6697 - val_d
ice_crossentropy: 0.4873 - lr: 1.0000e-05
Epoch 268/500
100/100 [=====] - ETA: 0s - loss: 1.3203 - dice_soft: 0.6699
- dice_crossentropy: 0.4577
Epoch 00268: val_loss did not improve from 0.71593
100/100 [=====] - 94s 916ms/step - loss: 1.3203 - dice_soft:
0.6699 - dice_crossentropy: 0.4577 - val_loss: 1.5171 - val_dice_soft: 0.5603 - val_d
ice_crossentropy: 0.6778 - lr: 1.0000e-05
Epoch 269/500
100/100 [=====] - ETA: 0s - loss: 1.3261 - dice_soft: 0.6685
- dice_crossentropy: 0.4519
Epoch 00269: val_loss did not improve from 0.71593
100/100 [=====] - 90s 870ms/step - loss: 1.3261 - dice_soft:
0.6685 - dice_crossentropy: 0.4519 - val_loss: 1.8983 - val_dice_soft: 0.5128 - val_d
ice_crossentropy: 0.6036 - lr: 1.0000e-05
Epoch 270/500
100/100 [=====] - ETA: 0s - loss: 1.3004 - dice_soft: 0.6749
- dice_crossentropy: 0.4534
Epoch 00270: val_loss did not improve from 0.71593
100/100 [=====] - 90s 895ms/step - loss: 1.3004 - dice_soft:
0.6749 - dice_crossentropy: 0.4534 - val_loss: 1.2133 - val_dice_soft: 0.7303 - val_d
ice_crossentropy: 0.5925 - lr: 1.0000e-05
Epoch 271/500
100/100 [=====] - ETA: 0s - loss: 1.2412 - dice_soft: 0.6897
- dice_crossentropy: 0.4420
Epoch 00271: val_loss did not improve from 0.71593
```

```
100/100 [=====] - ETA: 0s - loss: 1.2412 - dice_soft:
0.6897 - dice_crossentropy: 0.4420 - val_loss: 1.6649 - val_dice_soft: 0.6479 - val_d
ice_crossentropy: 0.5191 - lr: 1.0000e-05
Epoch 272/500
100/100 [=====] - ETA: 0s - loss: 1.2823 - dice_soft: 0.6794
- dice_crossentropy: 0.4492
Epoch 00272: val_loss did not improve from 0.71593
100/100 [=====] - 91s 906ms/step - loss: 1.2823 - dice_soft:
0.6794 - dice_crossentropy: 0.4492 - val_loss: 1.9224 - val_dice_soft: 0.5232 - val_d
ice_crossentropy: 0.6247 - lr: 1.0000e-05
Epoch 273/500
100/100 [=====] - ETA: 0s - loss: 1.2150 - dice_soft: 0.6963
- dice_crossentropy: 0.4332
Epoch 00273: val_loss did not improve from 0.71593
100/100 [=====] - 91s 889ms/step - loss: 1.2150 - dice_soft:
0.6963 - dice_crossentropy: 0.4332 - val_loss: 1.9751 - val_dice_soft: 0.4641 - val_d
ice_crossentropy: 0.6512 - lr: 1.0000e-05
Epoch 274/500
100/100 [=====] - ETA: 0s - loss: 1.2292 - dice_soft: 0.6927
- dice_crossentropy: 0.4386
Epoch 00274: val_loss did not improve from 0.71593
100/100 [=====] - 90s 870ms/step - loss: 1.2292 - dice_soft:
0.6927 - dice_crossentropy: 0.4386 - val_loss: 2.0666 - val_dice_soft: 0.4965 - val_d
ice_crossentropy: 0.9065 - lr: 1.0000e-05
Epoch 275/500
100/100 [=====] - ETA: 0s - loss: 1.3787 - dice_soft: 0.6553
- dice_crossentropy: 0.4709
Epoch 00275: val_loss did not improve from 0.71593
100/100 [=====] - 92s 918ms/step - loss: 1.3787 - dice_soft:
0.6553 - dice_crossentropy: 0.4709 - val_loss: 1.7726 - val_dice_soft: 0.5506 - val_d
ice_crossentropy: 0.6921 - lr: 1.0000e-05
Epoch 276/500
100/100 [=====] - ETA: 0s - loss: 1.3408 - dice_soft: 0.6648
- dice_crossentropy: 0.4589
Epoch 00276: val_loss did not improve from 0.71593
100/100 [=====] - 91s 900ms/step - loss: 1.3408 - dice_soft:
0.6648 - dice_crossentropy: 0.4589 - val_loss: 1.5251 - val_dice_soft: 0.5982 - val_d
ice_crossentropy: 0.8196 - lr: 1.0000e-05
Epoch 277/500
100/100 [=====] - ETA: 0s - loss: 1.3059 - dice_soft: 0.6735
- dice_crossentropy: 0.4523
Epoch 00277: val_loss did not improve from 0.71593
100/100 [=====] - 89s 887ms/step - loss: 1.3059 - dice_soft:
0.6735 - dice_crossentropy: 0.4523 - val_loss: 1.4191 - val_dice_soft: 0.6243 - val_d
ice_crossentropy: 0.5435 - lr: 1.0000e-05
Epoch 278/500
100/100 [=====] - ETA: 0s - loss: 1.2351 - dice_soft: 0.6912
- dice_crossentropy: 0.4303
Epoch 00278: val_loss did not improve from 0.71593
100/100 [=====] - 90s 894ms/step - loss: 1.2351 - dice_soft:
0.6912 - dice_crossentropy: 0.4303 - val_loss: 1.6174 - val_dice_soft: 0.5814 - val_d
ice_crossentropy: 0.5956 - lr: 1.0000e-05
Epoch 279/500
100/100 [=====] - ETA: 0s - loss: 1.2435 - dice_soft: 0.6891
- dice_crossentropy: 0.4401
Epoch 00279: val_loss did not improve from 0.71593
100/100 [=====] - 90s 880ms/step - loss: 1.2435 - dice_soft:
0.6891 - dice_crossentropy: 0.4401 - val_loss: 1.5586 - val_dice_soft: 0.6315 - val_d
ice_crossentropy: 0.6069 - lr: 1.0000e-05
Epoch 280/500
100/100 [=====] - ETA: 0s - loss: 1.3491 - dice_soft: 0.6627
- dice_crossentropy: 0.4680
Epoch 00280: val_loss did not improve from 0.71593
100/100 [=====] - 90s 896ms/step - loss: 1.3491 - dice_soft:
0.6627 - dice_crossentropy: 0.4680 - val_loss: 1.2513 - val_dice_soft: 0.6888 - val_d
ice_crossentropy: 0.6830 - lr: 1.0000e-05
```


Epoch 281/500
100/100 [=====] - ETA: 0s - loss: 1.2575 - dice_soft: 0.6856
- dice_crossentropy: 0.4435
Epoch 00281: val_loss did not improve from 0.71593
100/100 [=====] - 90s 873ms/step - loss: 1.2575 - dice_soft:
0.6856 - dice_crossentropy: 0.4435 - val_loss: 1.4752 - val_dice_soft: 0.6293 - val_d
ice_crossentropy: 0.6043 - lr: 1.0000e-05
Epoch 282/500
100/100 [=====] - ETA: 0s - loss: 1.2363 - dice_soft: 0.6909
- dice_crossentropy: 0.4381
Epoch 00282: val_loss did not improve from 0.71593
100/100 [=====] - 94s 914ms/step - loss: 1.2363 - dice_soft:
0.6909 - dice_crossentropy: 0.4381 - val_loss: 2.0123 - val_dice_soft: 0.5076 - val_d
ice_crossentropy: 0.6300 - lr: 1.0000e-05
Epoch 283/500
100/100 [=====] - ETA: 0s - loss: 1.3278 - dice_soft: 0.6680
- dice_crossentropy: 0.4636
Epoch 00283: val_loss did not improve from 0.71593
100/100 [=====] - 93s 922ms/step - loss: 1.3278 - dice_soft:
0.6680 - dice_crossentropy: 0.4636 - val_loss: 0.9670 - val_dice_soft: 0.7888 - val_d
ice_crossentropy: 0.4869 - lr: 1.0000e-05
Epoch 284/500
100/100 [=====] - ETA: 0s - loss: 1.2469 - dice_soft: 0.6883
- dice_crossentropy: 0.4441
Epoch 00284: val_loss did not improve from 0.71593
100/100 [=====] - 94s 931ms/step - loss: 1.2469 - dice_soft:
0.6883 - dice_crossentropy: 0.4441 - val_loss: 2.5221 - val_dice_soft: 0.3484 - val_d
ice_crossentropy: 0.6713 - lr: 1.0000e-05
Epoch 285/500
100/100 [=====] - ETA: 0s - loss: 1.2648 - dice_soft: 0.6838
- dice_crossentropy: 0.4406
Epoch 00285: val_loss did not improve from 0.71593
100/100 [=====] - 92s 923ms/step - loss: 1.2648 - dice_soft:
0.6838 - dice_crossentropy: 0.4406 - val_loss: 1.2353 - val_dice_soft: 0.7259 - val_d
ice_crossentropy: 0.6091 - lr: 1.0000e-05
Epoch 286/500
100/100 [=====] - ETA: 0s - loss: 1.4628 - dice_soft: 0.6343
- dice_crossentropy: 0.4878
Epoch 00286: val_loss did not improve from 0.71593
100/100 [=====] - 90s 880ms/step - loss: 1.4628 - dice_soft:
0.6343 - dice_crossentropy: 0.4878 - val_loss: 1.5964 - val_dice_soft: 0.5984 - val_d
ice_crossentropy: 1.0947 - lr: 1.0000e-05
Epoch 287/500
100/100 [=====] - ETA: 0s - loss: 1.2721 - dice_soft: 0.6820
- dice_crossentropy: 0.4421
Epoch 00287: val_loss did not improve from 0.71593
100/100 [=====] - 89s 873ms/step - loss: 1.2721 - dice_soft:
0.6820 - dice_crossentropy: 0.4421 - val_loss: 1.9982 - val_dice_soft: 0.5562 - val_d
ice_crossentropy: 0.8367 - lr: 1.0000e-05
Epoch 288/500
100/100 [=====] - ETA: 0s - loss: 1.3682 - dice_soft: 0.6580
- dice_crossentropy: 0.4704
Epoch 00288: val_loss did not improve from 0.71593
100/100 [=====] - 93s 906ms/step - loss: 1.3682 - dice_soft:
0.6580 - dice_crossentropy: 0.4704 - val_loss: 1.6332 - val_dice_soft: 0.6047 - val_d
ice_crossentropy: 0.5878 - lr: 1.0000e-05
Epoch 289/500
100/100 [=====] - ETA: 0s - loss: 1.3365 - dice_soft: 0.6659
- dice_crossentropy: 0.4599
Epoch 00289: val_loss did not improve from 0.71593
100/100 [=====] - 91s 897ms/step - loss: 1.3365 - dice_soft:
0.6659 - dice_crossentropy: 0.4599 - val_loss: 1.6771 - val_dice_soft: 0.5938 - val_d
ice_crossentropy: 0.6015 - lr: 1.0000e-05
Epoch 290/500
100/100 [=====] - ETA: 0s - loss: 1.2952 - dice_soft: 0.6762
- dice_crossentropy: 0.4520

Epoch 00290: val_loss did not improve from 0.71593
100/100 [=====] - 93s 914ms/step - loss: 1.2952 - dice_soft:
0.6762 - dice_crossentropy: 0.4520 - val_loss: 1.5204 - val_dice_soft: 0.6198 - val_d
ice_crossentropy: 0.8988 - lr: 1.0000e-05
Epoch 291/500
100/100 [=====] - ETA: 0s - loss: 1.3022 - dice_soft: 0.6744
- dice_crossentropy: 0.4550
Epoch 00291: val_loss did not improve from 0.71593
100/100 [=====] - 90s 885ms/step - loss: 1.3022 - dice_soft:
0.6744 - dice_crossentropy: 0.4550 - val_loss: 2.5353 - val_dice_soft: 0.3570 - val_d
ice_crossentropy: 0.6623 - lr: 1.0000e-05
Epoch 292/500
100/100 [=====] - ETA: 0s - loss: 1.2963 - dice_soft: 0.6759
- dice_crossentropy: 0.4538
Epoch 00292: val_loss did not improve from 0.71593
100/100 [=====] - 92s 914ms/step - loss: 1.2963 - dice_soft:
0.6759 - dice_crossentropy: 0.4538 - val_loss: 1.9912 - val_dice_soft: 0.5097 - val_d
ice_crossentropy: 0.5597 - lr: 1.0000e-05
Epoch 293/500
100/100 [=====] - ETA: 0s - loss: 1.1850 - dice_soft: 0.7038
- dice_crossentropy: 0.4301
Epoch 00293: val_loss did not improve from 0.71593
100/100 [=====] - 89s 869ms/step - loss: 1.1850 - dice_soft:
0.7038 - dice_crossentropy: 0.4301 - val_loss: 1.5166 - val_dice_soft: 0.6168 - val_d
ice_crossentropy: 0.5573 - lr: 1.0000e-05
Epoch 294/500
100/100 [=====] - ETA: 0s - loss: 1.3304 - dice_soft: 0.6674
- dice_crossentropy: 0.4519
Epoch 00294: val_loss did not improve from 0.71593
100/100 [=====] - 92s 902ms/step - loss: 1.3304 - dice_soft:
0.6674 - dice_crossentropy: 0.4519 - val_loss: 1.1278 - val_dice_soft: 0.7426 - val_d
ice_crossentropy: 0.5573 - lr: 1.0000e-05
Epoch 295/500
100/100 [=====] - ETA: 0s - loss: 1.3242 - dice_soft: 0.6689
- dice_crossentropy: 0.4585
Epoch 00295: val_loss did not improve from 0.71593
100/100 [=====] - 94s 898ms/step - loss: 1.3242 - dice_soft:
0.6689 - dice_crossentropy: 0.4585 - val_loss: 1.4296 - val_dice_soft: 0.6236 - val_d
ice_crossentropy: 0.8954 - lr: 1.0000e-05
Epoch 296/500
100/100 [=====] - ETA: 0s - loss: 1.3262 - dice_soft: 0.6684
- dice_crossentropy: 0.4535
Epoch 00296: val_loss did not improve from 0.71593
100/100 [=====] - 91s 890ms/step - loss: 1.3262 - dice_soft:
0.6684 - dice_crossentropy: 0.4535 - val_loss: 1.5621 - val_dice_soft: 0.6642 - val_d
ice_crossentropy: 0.6406 - lr: 1.0000e-05
Epoch 297/500
100/100 [=====] - ETA: 0s - loss: 1.3617 - dice_soft: 0.6596
- dice_crossentropy: 0.4639
Epoch 00297: val_loss did not improve from 0.71593
100/100 [=====] - 96s 923ms/step - loss: 1.3617 - dice_soft:
0.6596 - dice_crossentropy: 0.4639 - val_loss: 1.6866 - val_dice_soft: 0.5266 - val_d
ice_crossentropy: 0.5937 - lr: 1.0000e-05
Epoch 298/500
100/100 [=====] - ETA: 0s - loss: 1.4254 - dice_soft: 0.6437
- dice_crossentropy: 0.4715
Epoch 00298: val_loss did not improve from 0.71593
100/100 [=====] - 91s 904ms/step - loss: 1.4254 - dice_soft:
0.6437 - dice_crossentropy: 0.4715 - val_loss: 1.1053 - val_dice_soft: 0.7314 - val_d
ice_crossentropy: 0.4820 - lr: 1.0000e-05
Epoch 299/500
100/100 [=====] - ETA: 0s - loss: 1.3155 - dice_soft: 0.6711
- dice_crossentropy: 0.4603
Epoch 00299: val_loss did not improve from 0.71593
100/100 [=====] - 95s 915ms/step - loss: 1.3155 - dice_soft:
dice_crossentropy: 0.4603 - val_loss: 1.3967 - val_dice_soft: 0.6462 - val_d

dice_crossentropy: 0.4999 - lr: 1.0000e-05
Epoch 300/500
100/100 [=====] - ETA: 0s - loss: 1.2414 - dice_soft: 0.6897
- dice_crossentropy: 0.4396
Epoch 00300: val_loss did not improve from 0.71593
100/100 [=====] - 91s 885ms/step - loss: 1.2414 - dice_soft:
0.6897 - dice_crossentropy: 0.4396 - val_loss: 0.9451 - val_dice_soft: 0.7798 - val_d
ice_crossentropy: 0.4205 - lr: 1.0000e-05
Epoch 301/500
100/100 [=====] - ETA: 0s - loss: 1.2377 - dice_soft: 0.6906
- dice_crossentropy: 0.4393
Epoch 00301: val_loss did not improve from 0.71593
100/100 [=====] - 90s 887ms/step - loss: 1.2377 - dice_soft:
0.6906 - dice_crossentropy: 0.4393 - val_loss: 2.1502 - val_dice_soft: 0.4329 - val_d
ice_crossentropy: 0.6981 - lr: 1.0000e-05
Epoch 302/500
100/100 [=====] - ETA: 0s - loss: 1.3200 - dice_soft: 0.6700
- dice_crossentropy: 0.4578
Epoch 00302: val_loss did not improve from 0.71593
100/100 [=====] - 91s 895ms/step - loss: 1.3200 - dice_soft:
0.6700 - dice_crossentropy: 0.4578 - val_loss: 1.3706 - val_dice_soft: 0.6720 - val_d
ice_crossentropy: 0.6727 - lr: 1.0000e-05
Epoch 303/500
100/100 [=====] - ETA: 0s - loss: 1.3221 - dice_soft: 0.6695
- dice_crossentropy: 0.4510
Epoch 00303: val_loss did not improve from 0.71593
100/100 [=====] - 91s 913ms/step - loss: 1.3221 - dice_soft:
0.6695 - dice_crossentropy: 0.4510 - val_loss: 2.2275 - val_dice_soft: 0.4685 - val_d
ice_crossentropy: 0.7585 - lr: 1.0000e-05
Epoch 304/500
100/100 [=====] - ETA: 0s - loss: 1.3508 - dice_soft: 0.6623
- dice_crossentropy: 0.4617
Epoch 00304: val_loss did not improve from 0.71593
100/100 [=====] - 93s 893ms/step - loss: 1.3508 - dice_soft:
0.6623 - dice_crossentropy: 0.4617 - val_loss: 1.9452 - val_dice_soft: 0.5364 - val_d
ice_crossentropy: 0.6820 - lr: 1.0000e-05
Epoch 305/500
100/100 [=====] - ETA: 0s - loss: 1.3399 - dice_soft: 0.6650
- dice_crossentropy: 0.4590
Epoch 00305: val_loss did not improve from 0.71593
100/100 [=====] - 89s 880ms/step - loss: 1.3399 - dice_soft:
0.6650 - dice_crossentropy: 0.4590 - val_loss: 1.3566 - val_dice_soft: 0.7026 - val_d
ice_crossentropy: 0.3981 - lr: 1.0000e-05
Epoch 306/500
100/100 [=====] - ETA: 0s - loss: 1.2424 - dice_soft: 0.6894
- dice_crossentropy: 0.4380
Epoch 00306: val_loss did not improve from 0.71593
100/100 [=====] - 92s 909ms/step - loss: 1.2424 - dice_soft:
0.6894 - dice_crossentropy: 0.4380 - val_loss: 1.9370 - val_dice_soft: 0.5464 - val_d
ice_crossentropy: 0.5547 - lr: 1.0000e-05
Epoch 307/500
100/100 [=====] - ETA: 0s - loss: 1.2932 - dice_soft: 0.6767
- dice_crossentropy: 0.4514
Epoch 00307: val_loss did not improve from 0.71593
100/100 [=====] - 95s 905ms/step - loss: 1.2932 - dice_soft:
0.6767 - dice_crossentropy: 0.4514 - val_loss: 2.0707 - val_dice_soft: 0.5144 - val_d
ice_crossentropy: 0.7310 - lr: 1.0000e-05
Epoch 308/500
100/100 [=====] - ETA: 0s - loss: 1.3201 - dice_soft: 0.6700
- dice_crossentropy: 0.4553
Epoch 00308: val_loss did not improve from 0.71593
100/100 [=====] - 92s 902ms/step - loss: 1.3201 - dice_soft:
0.6700 - dice_crossentropy: 0.4553 - val_loss: 1.4679 - val_dice_soft: 0.5844 - val_d
ice_crossentropy: 0.6152 - lr: 1.0000e-05
Epoch 309/500
100/100 [=====] - ETA: 0s - loss: 1.2389 - dice_soft: 0.6903

- dice_crossentropy: 0.4386
Epoch 00309: val_loss did not improve from 0.71593
100/100 [=====] - 90s 900ms/step - loss: 1.2389 - dice_soft:
0.6903 - dice_crossentropy: 0.4386 - val_loss: 1.2565 - val_dice_soft: 0.6935 - val_d
ice_crossentropy: 0.7763 - lr: 1.0000e-05
Epoch 310/500
100/100 [=====] - ETA: 0s - loss: 1.3217 - dice_soft: 0.6696
- dice_crossentropy: 0.4515
Epoch 00310: val_loss did not improve from 0.71593
100/100 [=====] - 91s 887ms/step - loss: 1.3217 - dice_soft:
0.6696 - dice_crossentropy: 0.4515 - val_loss: 1.2004 - val_dice_soft: 0.7293 - val_d
ice_crossentropy: 0.5966 - lr: 1.0000e-05
Epoch 311/500
100/100 [=====] - ETA: 0s - loss: 1.3573 - dice_soft: 0.6607
- dice_crossentropy: 0.4630
Epoch 00311: val_loss did not improve from 0.71593
100/100 [=====] - 92s 918ms/step - loss: 1.3573 - dice_soft:
0.6607 - dice_crossentropy: 0.4630 - val_loss: 1.1931 - val_dice_soft: 0.6627 - val_d
ice_crossentropy: 0.7020 - lr: 1.0000e-05
Epoch 312/500
100/100 [=====] - ETA: 0s - loss: 1.3784 - dice_soft: 0.6554
- dice_crossentropy: 0.4668
Epoch 00312: val_loss did not improve from 0.71593
100/100 [=====] - 93s 927ms/step - loss: 1.3784 - dice_soft:
0.6554 - dice_crossentropy: 0.4668 - val_loss: 1.9187 - val_dice_soft: 0.5073 - val_d
ice_crossentropy: 0.6894 - lr: 1.0000e-05
Epoch 313/500
100/100 [=====] - ETA: 0s - loss: 1.3576 - dice_soft: 0.6606
- dice_crossentropy: 0.4670
Epoch 00313: val_loss did not improve from 0.71593
100/100 [=====] - 88s 878ms/step - loss: 1.3576 - dice_soft:
0.6606 - dice_crossentropy: 0.4670 - val_loss: 1.0268 - val_dice_soft: 0.7517 - val_d
ice_crossentropy: 0.5901 - lr: 1.0000e-05
Epoch 314/500
100/100 [=====] - ETA: 0s - loss: 1.2228 - dice_soft: 0.6943
- dice_crossentropy: 0.4348
Epoch 00314: val_loss did not improve from 0.71593
100/100 [=====] - 96s 918ms/step - loss: 1.2228 - dice_soft:
0.6943 - dice_crossentropy: 0.4348 - val_loss: 1.0842 - val_dice_soft: 0.7378 - val_d
ice_crossentropy: 0.4677 - lr: 1.0000e-05
Epoch 315/500
100/100 [=====] - ETA: 0s - loss: 1.3363 - dice_soft: 0.6659
- dice_crossentropy: 0.4569
Epoch 00315: val_loss did not improve from 0.71593
100/100 [=====] - 91s 891ms/step - loss: 1.3363 - dice_soft:
0.6659 - dice_crossentropy: 0.4569 - val_loss: 1.6935 - val_dice_soft: 0.6161 - val_d
ice_crossentropy: 0.5935 - lr: 1.0000e-05
Epoch 316/500
100/100 [=====] - ETA: 0s - loss: 1.2821 - dice_soft: 0.6795
- dice_crossentropy: 0.4468
Epoch 00316: val_loss did not improve from 0.71593
100/100 [=====] - 89s 882ms/step - loss: 1.2821 - dice_soft:
0.6795 - dice_crossentropy: 0.4468 - val_loss: 1.4228 - val_dice_soft: 0.5642 - val_d
ice_crossentropy: 0.6187 - lr: 1.0000e-05
Epoch 317/500
100/100 [=====] - ETA: 0s - loss: 1.3115 - dice_soft: 0.6721
- dice_crossentropy: 0.4527
Epoch 00317: val_loss did not improve from 0.71593
100/100 [=====] - 92s 913ms/step - loss: 1.3115 - dice_soft:
0.6721 - dice_crossentropy: 0.4527 - val_loss: 1.7840 - val_dice_soft: 0.5552 - val_d
ice_crossentropy: 0.6233 - lr: 1.0000e-05
Epoch 318/500
100/100 [=====] - ETA: 0s - loss: 1.2790 - dice_soft: 0.6803
- dice_crossentropy: 0.4452
Epoch 00318: val_loss did not improve from 0.71593
100/100 [=====] - 91s 889ms/step - loss: 1.2790 - dice_soft:

0.6803 - dice_crossentropy: 0.4452 - val_loss: 1.7060 - val_dice_soft: 0.5611 - val_dice_crossentropy: 0.5337 - lr: 1.0000e-05
Epoch 319/500
100/100 [=====] - ETA: 0s - loss: 1.3928 - dice_soft: 0.6518
- dice_crossentropy: 0.4716
Epoch 00319: val_loss did not improve from 0.71593
100/100 [=====] - 93s 902ms/step - loss: 1.3928 - dice_soft:
0.6518 - dice_crossentropy: 0.4716 - val_loss: 2.1291 - val_dice_soft: 0.4655 - val_dice_crossentropy: 0.6302 - lr: 1.0000e-05
Epoch 320/500
100/100 [=====] - ETA: 0s - loss: 1.2390 - dice_soft: 0.6903
- dice_crossentropy: 0.4364
Epoch 00320: val_loss did not improve from 0.71593
100/100 [=====] - 90s 877ms/step - loss: 1.2390 - dice_soft:
0.6903 - dice_crossentropy: 0.4364 - val_loss: 1.6926 - val_dice_soft: 0.5618 - val_dice_crossentropy: 0.7518 - lr: 1.0000e-05
Epoch 321/500
100/100 [=====] - ETA: 0s - loss: 1.2735 - dice_soft: 0.6816
- dice_crossentropy: 0.4477
Epoch 00321: val_loss did not improve from 0.71593
100/100 [=====] - 91s 906ms/step - loss: 1.2735 - dice_soft:
0.6816 - dice_crossentropy: 0.4477 - val_loss: 1.9771 - val_dice_soft: 0.5907 - val_dice_crossentropy: 0.6155 - lr: 1.0000e-05
Epoch 322/500
100/100 [=====] - ETA: 0s - loss: 1.4698 - dice_soft: 0.6325
- dice_crossentropy: 0.4815
Epoch 00322: val_loss did not improve from 0.71593
100/100 [=====] - 94s 892ms/step - loss: 1.4698 - dice_soft:
0.6325 - dice_crossentropy: 0.4815 - val_loss: 2.1988 - val_dice_soft: 0.4181 - val_dice_crossentropy: 0.6396 - lr: 1.0000e-05
Epoch 323/500
100/100 [=====] - ETA: 0s - loss: 1.2316 - dice_soft: 0.6921
- dice_crossentropy: 0.4322
Epoch 00323: val_loss did not improve from 0.71593
100/100 [=====] - 94s 941ms/step - loss: 1.2316 - dice_soft:
0.6921 - dice_crossentropy: 0.4322 - val_loss: 1.5733 - val_dice_soft: 0.5934 - val_dice_crossentropy: 0.8396 - lr: 1.0000e-05
Epoch 324/500
100/100 [=====] - ETA: 0s - loss: 1.3357 - dice_soft: 0.6661
- dice_crossentropy: 0.4576
Epoch 00324: val_loss did not improve from 0.71593
100/100 [=====] - 92s 909ms/step - loss: 1.3357 - dice_soft:
0.6661 - dice_crossentropy: 0.4576 - val_loss: 1.5785 - val_dice_soft: 0.5925 - val_dice_crossentropy: 0.6628 - lr: 1.0000e-05
Epoch 325/500
100/100 [=====] - ETA: 0s - loss: 1.1567 - dice_soft: 0.7108
- dice_crossentropy: 0.4210
Epoch 00325: val_loss did not improve from 0.71593
100/100 [=====] - 93s 909ms/step - loss: 1.1567 - dice_soft:
0.7108 - dice_crossentropy: 0.4210 - val_loss: 1.8603 - val_dice_soft: 0.4623 - val_dice_crossentropy: 0.6554 - lr: 1.0000e-05
Epoch 326/500
100/100 [=====] - ETA: 0s - loss: 1.2720 - dice_soft: 0.6820
- dice_crossentropy: 0.4433
Epoch 00326: val_loss did not improve from 0.71593
100/100 [=====] - 95s 906ms/step - loss: 1.2720 - dice_soft:
0.6820 - dice_crossentropy: 0.4433 - val_loss: 1.8491 - val_dice_soft: 0.5269 - val_dice_crossentropy: 0.6796 - lr: 1.0000e-05
Epoch 327/500
100/100 [=====] - ETA: 0s - loss: 1.1709 - dice_soft: 0.7073
- dice_crossentropy: 0.4213
Epoch 00327: val_loss did not improve from 0.71593
100/100 [=====] - 89s 858ms/step - loss: 1.1709 - dice_soft:
0.7073 - dice_crossentropy: 0.4213 - val_loss: 1.8133 - val_dice_soft: 0.5568 - val_dice_crossentropy: 0.6137 - lr: 1.0000e-05

```
100/100 [=====] - ETA: 0s - loss: 1.2205 - dice_soft: 0.6949
- dice_crossentropy: 0.4375
Epoch 00328: val_loss did not improve from 0.71593
100/100 [=====] - 91s 906ms/step - loss: 1.2205 - dice_soft:
0.6949 - dice_crossentropy: 0.4375 - val_loss: 1.8315 - val_dice_soft: 0.4663 - val_d
ice_crossentropy: 0.6845 - lr: 1.0000e-05
Epoch 329/500
100/100 [=====] - ETA: 0s - loss: 1.3698 - dice_soft: 0.6575
- dice_crossentropy: 0.4630
Epoch 00329: val_loss did not improve from 0.71593
100/100 [=====] - 92s 898ms/step - loss: 1.3698 - dice_soft:
0.6575 - dice_crossentropy: 0.4630 - val_loss: 1.3753 - val_dice_soft: 0.6192 - val_d
ice_crossentropy: 0.5229 - lr: 1.0000e-05
Epoch 330/500
100/100 [=====] - ETA: 0s - loss: 1.2911 - dice_soft: 0.6772
- dice_crossentropy: 0.4481
Epoch 00330: val_loss did not improve from 0.71593
100/100 [=====] - 89s 893ms/step - loss: 1.2911 - dice_soft:
0.6772 - dice_crossentropy: 0.4481 - val_loss: 1.1714 - val_dice_soft: 0.7434 - val_d
ice_crossentropy: 0.5073 - lr: 1.0000e-05
Epoch 331/500
100/100 [=====] - ETA: 0s - loss: 1.2488 - dice_soft: 0.6878
- dice_crossentropy: 0.4328
Epoch 00331: val_loss did not improve from 0.71593
100/100 [=====] - 95s 920ms/step - loss: 1.2488 - dice_soft:
0.6878 - dice_crossentropy: 0.4328 - val_loss: 1.8908 - val_dice_soft: 0.5577 - val_d
ice_crossentropy: 0.7649 - lr: 1.0000e-05
Epoch 332/500
100/100 [=====] - ETA: 0s - loss: 1.2447 - dice_soft: 0.6888
- dice_crossentropy: 0.4394
Epoch 00332: val_loss did not improve from 0.71593
100/100 [=====] - 88s 876ms/step - loss: 1.2447 - dice_soft:
0.6888 - dice_crossentropy: 0.4394 - val_loss: 1.0320 - val_dice_soft: 0.7537 - val_d
ice_crossentropy: 0.5086 - lr: 1.0000e-05
Epoch 333/500
100/100 [=====] - ETA: 0s - loss: 1.2503 - dice_soft: 0.6874
- dice_crossentropy: 0.4356
Epoch 00333: val_loss did not improve from 0.71593
100/100 [=====] - 92s 909ms/step - loss: 1.2503 - dice_soft:
0.6874 - dice_crossentropy: 0.4356 - val_loss: 1.3961 - val_dice_soft: 0.6961 - val_d
ice_crossentropy: 0.7615 - lr: 1.0000e-05
Epoch 334/500
100/100 [=====] - ETA: 0s - loss: 1.2950 - dice_soft: 0.6762
- dice_crossentropy: 0.4509
Epoch 00334: val_loss did not improve from 0.71593
100/100 [=====] - 94s 915ms/step - loss: 1.2950 - dice_soft:
0.6762 - dice_crossentropy: 0.4509 - val_loss: 1.3660 - val_dice_soft: 0.6827 - val_d
ice_crossentropy: 0.4834 - lr: 1.0000e-05
Epoch 335/500
100/100 [=====] - ETA: 0s - loss: 1.2936 - dice_soft: 0.6766
- dice_crossentropy: 0.4502
Epoch 00335: val_loss did not improve from 0.71593
100/100 [=====] - 88s 857ms/step - loss: 1.2936 - dice_soft:
0.6766 - dice_crossentropy: 0.4502 - val_loss: 1.4425 - val_dice_soft: 0.6444 - val_d
ice_crossentropy: 0.7243 - lr: 1.0000e-05
Epoch 336/500
100/100 [=====] - ETA: 0s - loss: 1.2859 - dice_soft: 0.6785
- dice_crossentropy: 0.4458
Epoch 00336: val_loss did not improve from 0.71593
100/100 [=====] - 90s 894ms/step - loss: 1.2859 - dice_soft:
0.6785 - dice_crossentropy: 0.4458 - val_loss: 1.4865 - val_dice_soft: 0.6457 - val_d
ice_crossentropy: 0.7403 - lr: 1.0000e-05
Epoch 337/500
100/100 [=====] - ETA: 0s - loss: 1.2218 - dice_soft: 0.6945
- dice_crossentropy: 0.4407
Epoch 00337: val_loss did not improve from 0.71593
```

```
100/100 [=====] - 91s 876ms/step - loss: 1.2218 - dice_soft:
0.6945 - dice_crossentropy: 0.4407 - val_loss: 1.8172 - val_dice_soft: 0.6183 - val_d
ice_crossentropy: 0.5130 - lr: 1.0000e-05
Epoch 338/500
100/100 [=====] - ETA: 0s - loss: 1.3202 - dice_soft: 0.6700
- dice_crossentropy: 0.4458
Epoch 00338: val_loss did not improve from 0.71593
100/100 [=====] - 91s 889ms/step - loss: 1.3202 - dice_soft:
0.6700 - dice_crossentropy: 0.4458 - val_loss: 1.9995 - val_dice_soft: 0.4881 - val_d
ice_crossentropy: 0.5977 - lr: 1.0000e-05
Epoch 339/500
100/100 [=====] - ETA: 0s - loss: 1.2961 - dice_soft: 0.6760
- dice_crossentropy: 0.4498
Epoch 00339: val_loss did not improve from 0.71593
100/100 [=====] - 89s 880ms/step - loss: 1.2961 - dice_soft:
0.6760 - dice_crossentropy: 0.4498 - val_loss: 0.9976 - val_dice_soft: 0.7728 - val_d
ice_crossentropy: 0.6409 - lr: 1.0000e-05
Epoch 340/500
100/100 [=====] - ETA: 0s - loss: 1.1996 - dice_soft: 0.7001
- dice_crossentropy: 0.4277
Epoch 00340: val_loss did not improve from 0.71593
100/100 [=====] - 92s 899ms/step - loss: 1.1996 - dice_soft:
0.7001 - dice_crossentropy: 0.4277 - val_loss: 1.1992 - val_dice_soft: 0.7324 - val_d
ice_crossentropy: 0.6217 - lr: 1.0000e-05
Epoch 341/500
100/100 [=====] - ETA: 0s - loss: 1.2188 - dice_soft: 0.6953
- dice_crossentropy: 0.4375
Epoch 00341: val_loss did not improve from 0.71593
100/100 [=====] - 92s 912ms/step - loss: 1.2188 - dice_soft:
0.6953 - dice_crossentropy: 0.4375 - val_loss: 1.3623 - val_dice_soft: 0.7001 - val_d
ice_crossentropy: 0.6219 - lr: 1.0000e-05
Epoch 342/500
100/100 [=====] - ETA: 0s - loss: 1.3522 - dice_soft: 0.6620
- dice_crossentropy: 0.4606
Epoch 00342: val_loss did not improve from 0.71593
100/100 [=====] - 93s 907ms/step - loss: 1.3522 - dice_soft:
0.6620 - dice_crossentropy: 0.4606 - val_loss: 1.6808 - val_dice_soft: 0.6097 - val_d
ice_crossentropy: 0.5847 - lr: 1.0000e-05
Epoch 343/500
100/100 [=====] - ETA: 0s - loss: 1.2066 - dice_soft: 0.6984
- dice_crossentropy: 0.4302
Epoch 00343: val_loss did not improve from 0.71593
100/100 [=====] - 91s 866ms/step - loss: 1.2066 - dice_soft:
0.6984 - dice_crossentropy: 0.4302 - val_loss: 1.8166 - val_dice_soft: 0.5148 - val_d
ice_crossentropy: 0.6689 - lr: 1.0000e-05
Epoch 344/500
100/100 [=====] - ETA: 0s - loss: 1.3509 - dice_soft: 0.6623
- dice_crossentropy: 0.4587
Epoch 00344: val_loss did not improve from 0.71593
100/100 [=====] - 87s 872ms/step - loss: 1.3509 - dice_soft:
0.6623 - dice_crossentropy: 0.4587 - val_loss: 2.3374 - val_dice_soft: 0.4058 - val_d
ice_crossentropy: 0.7480 - lr: 1.0000e-05
Epoch 345/500
100/100 [=====] - ETA: 0s - loss: 1.2208 - dice_soft: 0.6948
- dice_crossentropy: 0.4357
Epoch 00345: val_loss did not improve from 0.71593
100/100 [=====] - 90s 901ms/step - loss: 1.2208 - dice_soft:
0.6948 - dice_crossentropy: 0.4357 - val_loss: 1.8045 - val_dice_soft: 0.4824 - val_d
ice_crossentropy: 0.6639 - lr: 1.0000e-05
Epoch 346/500
100/100 [=====] - ETA: 0s - loss: 1.2108 - dice_soft: 0.6973
- dice_crossentropy: 0.4265
Epoch 00346: val_loss did not improve from 0.71593
100/100 [=====] - 89s 872ms/step - loss: 1.2108 - dice_soft:
0.6973 - dice_crossentropy: 0.4265 - val_loss: 1.4164 - val_dice_soft: 0.6567 - val_d
ice_crossentropy: 0.8488 - lr: 1.0000e-05
```

Epoch 347/500
100/100 [=====] - ETA: 0s - loss: 1.3654 - dice_soft: 0.6587
- dice_crossentropy: 0.4650
Epoch 00347: val_loss did not improve from 0.71593
100/100 [=====] - 92s 876ms/step - loss: 1.3654 - dice_soft:
0.6587 - dice_crossentropy: 0.4650 - val_loss: 1.3432 - val_dice_soft: 0.6216 - val_d
ice_crossentropy: 0.7850 - lr: 1.0000e-05
Epoch 348/500
100/100 [=====] - ETA: 0s - loss: 1.2154 - dice_soft: 0.6962
- dice_crossentropy: 0.4256
Epoch 00348: val_loss did not improve from 0.71593
100/100 [=====] - 91s 915ms/step - loss: 1.2154 - dice_soft:
0.6962 - dice_crossentropy: 0.4256 - val_loss: 1.2055 - val_dice_soft: 0.6828 - val_d
ice_crossentropy: 0.6230 - lr: 1.0000e-05
Epoch 349/500
100/100 [=====] - ETA: 0s - loss: 1.3100 - dice_soft: 0.6725
- dice_crossentropy: 0.4422
Epoch 00349: val_loss did not improve from 0.71593
100/100 [=====] - 91s 877ms/step - loss: 1.3100 - dice_soft:
0.6725 - dice_crossentropy: 0.4422 - val_loss: 1.2623 - val_dice_soft: 0.6948 - val_d
ice_crossentropy: 0.5183 - lr: 1.0000e-05
Epoch 350/500
100/100 [=====] - ETA: 0s - loss: 1.2622 - dice_soft: 0.6845
- dice_crossentropy: 0.4357
Epoch 00350: val_loss did not improve from 0.71593
100/100 [=====] - 92s 893ms/step - loss: 1.2622 - dice_soft:
0.6845 - dice_crossentropy: 0.4357 - val_loss: 1.4566 - val_dice_soft: 0.6789 - val_d
ice_crossentropy: 0.4723 - lr: 1.0000e-05
Epoch 351/500
100/100 [=====] - ETA: 0s - loss: 1.3445 - dice_soft: 0.6639
- dice_crossentropy: 0.4544
Epoch 00351: val_loss did not improve from 0.71593
100/100 [=====] - 89s 880ms/step - loss: 1.3445 - dice_soft:
0.6639 - dice_crossentropy: 0.4544 - val_loss: 2.2936 - val_dice_soft: 0.3796 - val_d
ice_crossentropy: 0.6943 - lr: 1.0000e-05
Epoch 352/500
100/100 [=====] - ETA: 0s - loss: 1.2352 - dice_soft: 0.6912
- dice_crossentropy: 0.4373
Epoch 00352: val_loss did not improve from 0.71593
100/100 [=====] - 92s 912ms/step - loss: 1.2352 - dice_soft:
0.6912 - dice_crossentropy: 0.4373 - val_loss: 2.1936 - val_dice_soft: 0.4450 - val_d
ice_crossentropy: 0.6024 - lr: 1.0000e-05
Epoch 353/500
100/100 [=====] - ETA: 0s - loss: 1.2077 - dice_soft: 0.6981
- dice_crossentropy: 0.4343
Epoch 00353: val_loss did not improve from 0.71593
100/100 [=====] - 89s 864ms/step - loss: 1.2077 - dice_soft:
0.6981 - dice_crossentropy: 0.4343 - val_loss: 1.3763 - val_dice_soft: 0.6777 - val_d
ice_crossentropy: 0.5592 - lr: 1.0000e-05
Epoch 354/500
100/100 [=====] - ETA: 0s - loss: 1.1516 - dice_soft: 0.7121
- dice_crossentropy: 0.4219
Epoch 00354: val_loss did not improve from 0.71593
100/100 [=====] - 91s 914ms/step - loss: 1.1516 - dice_soft:
0.7121 - dice_crossentropy: 0.4219 - val_loss: 1.4155 - val_dice_soft: 0.6485 - val_d
ice_crossentropy: 0.5954 - lr: 1.0000e-05
Epoch 355/500
100/100 [=====] - ETA: 0s - loss: 1.2915 - dice_soft: 0.6771
- dice_crossentropy: 0.4464
Epoch 00355: val_loss did not improve from 0.71593
100/100 [=====] - 93s 916ms/step - loss: 1.2915 - dice_soft:
0.6771 - dice_crossentropy: 0.4464 - val_loss: 1.3940 - val_dice_soft: 0.6542 - val_d
ice_crossentropy: 0.8324 - lr: 1.0000e-05
Epoch 356/500
100/100 [=====] - ETA: 0s - loss: 1.2564 - dice_soft: 0.6859
- dice_crossentropy: 0.4397

Epoch 00356: val_loss did not improve from 0.71593
100/100 [=====] - 90s 879ms/step - loss: 1.2564 - dice_soft:
0.6859 - dice_crossentropy: 0.4397 - val_loss: 1.7807 - val_dice_soft: 0.5636 - val_d
ice_crossentropy: 0.6118 - lr: 1.0000e-05
Epoch 357/500
100/100 [=====] - ETA: 0s - loss: 1.2330 - dice_soft: 0.6918
- dice_crossentropy: 0.4290
Epoch 00357: val_loss did not improve from 0.71593
100/100 [=====] - 90s 878ms/step - loss: 1.2330 - dice_soft:
0.6918 - dice_crossentropy: 0.4290 - val_loss: 2.1938 - val_dice_soft: 0.4179 - val_d
ice_crossentropy: 0.6566 - lr: 1.0000e-05
Epoch 358/500
100/100 [=====] - ETA: 0s - loss: 1.3410 - dice_soft: 0.6648
- dice_crossentropy: 0.4551
Epoch 00358: val_loss did not improve from 0.71593
100/100 [=====] - 90s 902ms/step - loss: 1.3410 - dice_soft:
0.6648 - dice_crossentropy: 0.4551 - val_loss: 1.7690 - val_dice_soft: 0.5417 - val_d
ice_crossentropy: 0.5857 - lr: 1.0000e-05
Epoch 359/500
100/100 [=====] - ETA: 0s - loss: 1.1505 - dice_soft: 0.7124
- dice_crossentropy: 0.4180
Epoch 00359: val_loss did not improve from 0.71593
100/100 [=====] - 89s 886ms/step - loss: 1.1505 - dice_soft:
0.7124 - dice_crossentropy: 0.4180 - val_loss: 2.3199 - val_dice_soft: 0.4419 - val_d
ice_crossentropy: 0.8289 - lr: 1.0000e-05
Epoch 360/500
100/100 [=====] - ETA: 0s - loss: 1.2771 - dice_soft: 0.6807
- dice_crossentropy: 0.4475
Epoch 00360: val_loss did not improve from 0.71593
100/100 [=====] - 94s 918ms/step - loss: 1.2771 - dice_soft:
0.6807 - dice_crossentropy: 0.4475 - val_loss: 1.2769 - val_dice_soft: 0.6750 - val_d
ice_crossentropy: 0.4418 - lr: 1.0000e-05
Epoch 361/500
100/100 [=====] - ETA: 0s - loss: 1.2590 - dice_soft: 0.6853
- dice_crossentropy: 0.4380
Epoch 00361: val_loss did not improve from 0.71593
100/100 [=====] - 89s 893ms/step - loss: 1.2590 - dice_soft:
0.6853 - dice_crossentropy: 0.4380 - val_loss: 2.4574 - val_dice_soft: 0.3571 - val_d
ice_crossentropy: 0.6935 - lr: 1.0000e-05
Epoch 362/500
100/100 [=====] - ETA: 0s - loss: 1.2410 - dice_soft: 0.6898
- dice_crossentropy: 0.4298
Epoch 00362: val_loss did not improve from 0.71593
100/100 [=====] - 91s 894ms/step - loss: 1.2410 - dice_soft:
0.6898 - dice_crossentropy: 0.4298 - val_loss: 0.9990 - val_dice_soft: 0.7674 - val_d
ice_crossentropy: 0.5250 - lr: 1.0000e-05
Epoch 363/500
100/100 [=====] - ETA: 0s - loss: 1.3445 - dice_soft: 0.6639
- dice_crossentropy: 0.4503
Epoch 00363: val_loss did not improve from 0.71593
100/100 [=====] - 94s 921ms/step - loss: 1.3445 - dice_soft:
0.6639 - dice_crossentropy: 0.4503 - val_loss: 1.4529 - val_dice_soft: 0.6096 - val_d
ice_crossentropy: 0.6258 - lr: 1.0000e-05
Epoch 364/500
100/100 [=====] - ETA: 0s - loss: 1.3165 - dice_soft: 0.6709
- dice_crossentropy: 0.4457
Epoch 00364: val_loss did not improve from 0.71593
100/100 [=====] - 89s 881ms/step - loss: 1.3165 - dice_soft:
0.6709 - dice_crossentropy: 0.4457 - val_loss: 1.4128 - val_dice_soft: 0.6167 - val_d
ice_crossentropy: 0.6634 - lr: 1.0000e-05
Epoch 365/500
100/100 [=====] - ETA: 0s - loss: 1.2003 - dice_soft: 0.6999
- dice_crossentropy: 0.4214
Epoch 00365: val_loss did not improve from 0.71593
100/100 [=====] - 90s 895ms/step - loss: 1.2003 - dice_soft:
_crossentropy: 0.4214 - val_loss: 0.9436 - val_dice_soft: 0.7725 - val_d

```
ice_crossentropy: 0.6173 - lr: 1.0000e-05
Epoch 366/500
100/100 [=====] - ETA: 0s - loss: 1.3239 - dice_soft: 0.6690
- dice_crossentropy: 0.4525
Epoch 00366: val_loss did not improve from 0.71593
100/100 [=====] - 97s 926ms/step - loss: 1.3239 - dice_soft:
0.6690 - dice_crossentropy: 0.4525 - val_loss: 1.7767 - val_dice_soft: 0.5917 - val_d
ice_crossentropy: 0.7613 - lr: 1.0000e-05
Epoch 367/500
100/100 [=====] - ETA: 0s - loss: 1.2335 - dice_soft: 0.6916
- dice_crossentropy: 0.4344
Epoch 00367: val_loss did not improve from 0.71593
100/100 [=====] - 89s 879ms/step - loss: 1.2335 - dice_soft:
0.6916 - dice_crossentropy: 0.4344 - val_loss: 1.4851 - val_dice_soft: 0.6213 - val_d
ice_crossentropy: 0.5053 - lr: 1.0000e-05
Epoch 368/500
100/100 [=====] - ETA: 0s - loss: 1.2506 - dice_soft: 0.6873
- dice_crossentropy: 0.4352
Epoch 00368: val_loss did not improve from 0.71593
100/100 [=====] - 93s 889ms/step - loss: 1.2506 - dice_soft:
0.6873 - dice_crossentropy: 0.4352 - val_loss: 1.8285 - val_dice_soft: 0.5760 - val_d
ice_crossentropy: 0.8821 - lr: 1.0000e-05
Epoch 369/500
100/100 [=====] - ETA: 0s - loss: 1.2328 - dice_soft: 0.6918
- dice_crossentropy: 0.4348
Epoch 00369: val_loss did not improve from 0.71593
100/100 [=====] - 92s 913ms/step - loss: 1.2328 - dice_soft:
0.6918 - dice_crossentropy: 0.4348 - val_loss: 2.1310 - val_dice_soft: 0.4281 - val_d
ice_crossentropy: 0.8475 - lr: 1.0000e-05
Epoch 370/500
100/100 [=====] - ETA: 0s - loss: 1.1525 - dice_soft: 0.7119
- dice_crossentropy: 0.4230
Epoch 00370: val_loss did not improve from 0.71593
100/100 [=====] - 92s 900ms/step - loss: 1.1525 - dice_soft:
0.7119 - dice_crossentropy: 0.4230 - val_loss: 1.5041 - val_dice_soft: 0.6571 - val_d
ice_crossentropy: 0.4412 - lr: 1.0000e-05
Epoch 371/500
100/100 [=====] - ETA: 0s - loss: 1.3120 - dice_soft: 0.6720
- dice_crossentropy: 0.4469
Epoch 00371: val_loss improved from 0.71593 to 0.63956, saving model to evaluation/fold_1/model.hdf5
100/100 [=====] - 94s 913ms/step - loss: 1.3120 - dice_soft:
0.6720 - dice_crossentropy: 0.4469 - val_loss: 0.6396 - val_dice_soft: 0.8413 - val_d
ice_crossentropy: 0.5061 - lr: 1.0000e-05
Epoch 372/500
100/100 [=====] - ETA: 0s - loss: 1.2431 - dice_soft: 0.6892
- dice_crossentropy: 0.4446
Epoch 00372: val_loss did not improve from 0.63956
100/100 [=====] - 90s 903ms/step - loss: 1.2431 - dice_soft:
0.6892 - dice_crossentropy: 0.4446 - val_loss: 1.6891 - val_dice_soft: 0.5940 - val_d
ice_crossentropy: 0.5296 - lr: 1.0000e-05
Epoch 373/500
100/100 [=====] - ETA: 0s - loss: 1.2008 - dice_soft: 0.6998
- dice_crossentropy: 0.4298
Epoch 00373: val_loss did not improve from 0.63956
100/100 [=====] - 91s 902ms/step - loss: 1.2008 - dice_soft:
0.6998 - dice_crossentropy: 0.4298 - val_loss: 1.2886 - val_dice_soft: 0.6886 - val_d
ice_crossentropy: 0.6972 - lr: 1.0000e-05
Epoch 374/500
100/100 [=====] - ETA: 0s - loss: 1.2710 - dice_soft: 0.6823
- dice_crossentropy: 0.4416
Epoch 00374: val_loss did not improve from 0.63956
100/100 [=====] - 90s 896ms/step - loss: 1.2710 - dice_soft:
0.6823 - dice_crossentropy: 0.4416 - val_loss: 1.7792 - val_dice_soft: 0.5591 - val_d
ice_crossentropy: 0.6854 - lr: 1.0000e-05
```

100/100 [=====] - ETA: 0s - loss: 1.1284 - dice_soft: 0.7179
- dice_crossentropy: 0.4101
Epoch 00375: val_loss did not improve from 0.63956
100/100 [=====] - 92s 890ms/step - loss: 1.1284 - dice_soft:
0.7179 - dice_crossentropy: 0.4101 - val_loss: 0.9948 - val_dice_soft: 0.7713 - val_d
ice_crossentropy: 0.5690 - lr: 1.0000e-05
Epoch 376/500
100/100 [=====] - ETA: 0s - loss: 1.2660 - dice_soft: 0.6835
- dice_crossentropy: 0.4381
Epoch 00376: val_loss did not improve from 0.63956
100/100 [=====] - 92s 896ms/step - loss: 1.2660 - dice_soft:
0.6835 - dice_crossentropy: 0.4381 - val_loss: 1.8715 - val_dice_soft: 0.4854 - val_d
ice_crossentropy: 0.7363 - lr: 1.0000e-05
Epoch 377/500
100/100 [=====] - ETA: 0s - loss: 1.3075 - dice_soft: 0.6731
- dice_crossentropy: 0.4465
Epoch 00377: val_loss did not improve from 0.63956
100/100 [=====] - 95s 908ms/step - loss: 1.3075 - dice_soft:
0.6731 - dice_crossentropy: 0.4465 - val_loss: 1.5446 - val_dice_soft: 0.5569 - val_d
ice_crossentropy: 0.6141 - lr: 1.0000e-05
Epoch 378/500
100/100 [=====] - ETA: 0s - loss: 1.2766 - dice_soft: 0.6809
- dice_crossentropy: 0.4435
Epoch 00378: val_loss did not improve from 0.63956
100/100 [=====] - 92s 924ms/step - loss: 1.2766 - dice_soft:
0.6809 - dice_crossentropy: 0.4435 - val_loss: 1.2483 - val_dice_soft: 0.7037 - val_d
ice_crossentropy: 0.3827 - lr: 1.0000e-05
Epoch 379/500
100/100 [=====] - ETA: 0s - loss: 1.2108 - dice_soft: 0.6973
- dice_crossentropy: 0.4278
Epoch 00379: val_loss did not improve from 0.63956
100/100 [=====] - 91s 876ms/step - loss: 1.2108 - dice_soft:
0.6973 - dice_crossentropy: 0.4278 - val_loss: 1.3415 - val_dice_soft: 0.6544 - val_d
ice_crossentropy: 0.5111 - lr: 1.0000e-05
Epoch 380/500
100/100 [=====] - ETA: 0s - loss: 1.3521 - dice_soft: 0.6620
- dice_crossentropy: 0.4623
Epoch 00380: val_loss did not improve from 0.63956
100/100 [=====] - 95s 947ms/step - loss: 1.3521 - dice_soft:
0.6620 - dice_crossentropy: 0.4623 - val_loss: 1.9263 - val_dice_soft: 0.5575 - val_d
ice_crossentropy: 0.7872 - lr: 1.0000e-05
Epoch 381/500
100/100 [=====] - ETA: 0s - loss: 1.2666 - dice_soft: 0.6833
- dice_crossentropy: 0.4395
Epoch 00381: val_loss did not improve from 0.63956
100/100 [=====] - 89s 886ms/step - loss: 1.2666 - dice_soft:
0.6833 - dice_crossentropy: 0.4395 - val_loss: 1.6902 - val_dice_soft: 0.5679 - val_d
ice_crossentropy: 0.5745 - lr: 1.0000e-05
Epoch 382/500
100/100 [=====] - ETA: 0s - loss: 1.3068 - dice_soft: 0.6733
- dice_crossentropy: 0.4459
Epoch 00382: val_loss did not improve from 0.63956
100/100 [=====] - 89s 886ms/step - loss: 1.3068 - dice_soft:
0.6733 - dice_crossentropy: 0.4459 - val_loss: 1.8125 - val_dice_soft: 0.5154 - val_d
ice_crossentropy: 0.7536 - lr: 1.0000e-05
Epoch 383/500
100/100 [=====] - ETA: 0s - loss: 1.1870 - dice_soft: 0.7033
- dice_crossentropy: 0.4239
Epoch 00383: val_loss did not improve from 0.63956
100/100 [=====] - 90s 895ms/step - loss: 1.1870 - dice_soft:
0.7033 - dice_crossentropy: 0.4239 - val_loss: 0.6814 - val_dice_soft: 0.8294 - val_d
ice_crossentropy: 0.5972 - lr: 1.0000e-05
Epoch 384/500
100/100 [=====] - ETA: 0s - loss: 1.3627 - dice_soft: 0.6593
- dice_crossentropy: 0.4518
Epoch 00384: val_loss did not improve from 0.63956

```
100/100 [=====] - 91s 876ms/step - loss: 1.3627 - dice_soft:
0.6593 - dice_crossentropy: 0.4518 - val_loss: 1.0338 - val_dice_soft: 0.7211 - val_d
ice_crossentropy: 0.5437 - lr: 1.0000e-05
Epoch 385/500
100/100 [=====] - ETA: 0s - loss: 1.3813 - dice_soft: 0.6547
- dice_crossentropy: 0.4549
Epoch 00385: val_loss did not improve from 0.63956
100/100 [=====] - 91s 908ms/step - loss: 1.3813 - dice_soft:
0.6547 - dice_crossentropy: 0.4549 - val_loss: 1.0392 - val_dice_soft: 0.7652 - val_d
ice_crossentropy: 0.4163 - lr: 1.0000e-05
Epoch 386/500
100/100 [=====] - ETA: 0s - loss: 1.2773 - dice_soft: 0.6807
- dice_crossentropy: 0.4394
Epoch 00386: val_loss did not improve from 0.63956
100/100 [=====] - 90s 888ms/step - loss: 1.2773 - dice_soft:
0.6807 - dice_crossentropy: 0.4394 - val_loss: 2.1066 - val_dice_soft: 0.5038 - val_d
ice_crossentropy: 0.6386 - lr: 1.0000e-05
Epoch 387/500
100/100 [=====] - ETA: 0s - loss: 1.2778 - dice_soft: 0.6805
- dice_crossentropy: 0.4433
Epoch 00387: val_loss did not improve from 0.63956
100/100 [=====] - 96s 919ms/step - loss: 1.2778 - dice_soft:
0.6805 - dice_crossentropy: 0.4433 - val_loss: 1.7584 - val_dice_soft: 0.6030 - val_d
ice_crossentropy: 0.5310 - lr: 1.0000e-05
Epoch 388/500
100/100 [=====] - ETA: 0s - loss: 1.2309 - dice_soft: 0.6923
- dice_crossentropy: 0.4274
Epoch 00388: val_loss did not improve from 0.63956
100/100 [=====] - 92s 881ms/step - loss: 1.2309 - dice_soft:
0.6923 - dice_crossentropy: 0.4274 - val_loss: 1.3903 - val_dice_soft: 0.6922 - val_d
ice_crossentropy: 0.5441 - lr: 1.0000e-05
Epoch 389/500
100/100 [=====] - ETA: 0s - loss: 1.3380 - dice_soft: 0.6655
- dice_crossentropy: 0.4509
Epoch 00389: val_loss did not improve from 0.63956
100/100 [=====] - 89s 887ms/step - loss: 1.3380 - dice_soft:
0.6655 - dice_crossentropy: 0.4509 - val_loss: 1.1028 - val_dice_soft: 0.7380 - val_d
ice_crossentropy: 0.4918 - lr: 1.0000e-05
Epoch 390/500
100/100 [=====] - ETA: 0s - loss: 1.3103 - dice_soft: 0.6724
- dice_crossentropy: 0.4523
Epoch 00390: val_loss did not improve from 0.63956
100/100 [=====] - 91s 891ms/step - loss: 1.3103 - dice_soft:
0.6724 - dice_crossentropy: 0.4523 - val_loss: 1.5957 - val_dice_soft: 0.5861 - val_d
ice_crossentropy: 0.7369 - lr: 1.0000e-05
Epoch 391/500
100/100 [=====] - ETA: 0s - loss: 1.3035 - dice_soft: 0.6741
- dice_crossentropy: 0.4459
Epoch 00391: val_loss did not improve from 0.63956
100/100 [=====] - 92s 911ms/step - loss: 1.3035 - dice_soft:
0.6741 - dice_crossentropy: 0.4459 - val_loss: 1.7882 - val_dice_soft: 0.5675 - val_d
ice_crossentropy: 0.5834 - lr: 1.0000e-05
Epoch 392/500
100/100 [=====] - ETA: 0s - loss: 1.3070 - dice_soft: 0.6732
- dice_crossentropy: 0.4442
Epoch 00392: val_loss did not improve from 0.63956
100/100 [=====] - 91s 884ms/step - loss: 1.3070 - dice_soft:
0.6732 - dice_crossentropy: 0.4442 - val_loss: 1.3981 - val_dice_soft: 0.6417 - val_d
ice_crossentropy: 0.5927 - lr: 1.0000e-05
Epoch 393/500
100/100 [=====] - ETA: 0s - loss: 1.2529 - dice_soft: 0.6868
- dice_crossentropy: 0.4342
Epoch 00393: val_loss did not improve from 0.63956
100/100 [=====] - 92s 915ms/step - loss: 1.2529 - dice_soft:
0.6868 - dice_crossentropy: 0.4342 - val_loss: 0.9178 - val_dice_soft: 0.7877 - val_d
ice_crossentropy: 0.5699 - lr: 1.0000e-05
```

Epoch 394/500
100/100 [=====] - ETA: 0s - loss: 1.2911 - dice_soft: 0.6772
- dice_crossentropy: 0.4460
Epoch 00394: val_loss did not improve from 0.63956
100/100 [=====] - 91s 877ms/step - loss: 1.2911 - dice_soft:
0.6772 - dice_crossentropy: 0.4460 - val_loss: 1.6413 - val_dice_soft: 0.5992 - val_d
ice_crossentropy: 0.7150 - lr: 1.0000e-05
Epoch 395/500
100/100 [=====] - ETA: 0s - loss: 1.1422 - dice_soft: 0.7145
- dice_crossentropy: 0.4163
Epoch 00395: val_loss did not improve from 0.63956
100/100 [=====] - 92s 898ms/step - loss: 1.1422 - dice_soft:
0.7145 - dice_crossentropy: 0.4163 - val_loss: 1.3571 - val_dice_soft: 0.7079 - val_d
ice_crossentropy: 0.5585 - lr: 1.0000e-05
Epoch 396/500
100/100 [=====] - ETA: 0s - loss: 1.2731 - dice_soft: 0.6817
- dice_crossentropy: 0.4404
Epoch 00396: val_loss did not improve from 0.63956
100/100 [=====] - 90s 870ms/step - loss: 1.2731 - dice_soft:
0.6817 - dice_crossentropy: 0.4404 - val_loss: 1.2105 - val_dice_soft: 0.7338 - val_d
ice_crossentropy: 0.5646 - lr: 1.0000e-05
Epoch 397/500
100/100 [=====] - ETA: 0s - loss: 1.2250 - dice_soft: 0.6937
- dice_crossentropy: 0.4295
Epoch 00397: val_loss did not improve from 0.63956
100/100 [=====] - 90s 889ms/step - loss: 1.2250 - dice_soft:
0.6937 - dice_crossentropy: 0.4295 - val_loss: 1.6370 - val_dice_soft: 0.6465 - val_d
ice_crossentropy: 0.4672 - lr: 1.0000e-05
Epoch 398/500
100/100 [=====] - ETA: 0s - loss: 1.3403 - dice_soft: 0.6649
- dice_crossentropy: 0.4515
Epoch 00398: val_loss did not improve from 0.63956
100/100 [=====] - 90s 873ms/step - loss: 1.3403 - dice_soft:
0.6649 - dice_crossentropy: 0.4515 - val_loss: 1.3449 - val_dice_soft: 0.6355 - val_d
ice_crossentropy: 0.6175 - lr: 1.0000e-05
Epoch 399/500
100/100 [=====] - ETA: 0s - loss: 1.2856 - dice_soft: 0.6786
- dice_crossentropy: 0.4442
Epoch 00399: val_loss did not improve from 0.63956
100/100 [=====] - 92s 887ms/step - loss: 1.2856 - dice_soft:
0.6786 - dice_crossentropy: 0.4442 - val_loss: 1.5838 - val_dice_soft: 0.6270 - val_d
ice_crossentropy: 0.5479 - lr: 1.0000e-05
Epoch 400/500
100/100 [=====] - ETA: 0s - loss: 1.2967 - dice_soft: 0.6758
- dice_crossentropy: 0.4438
Epoch 00400: val_loss did not improve from 0.63956
100/100 [=====] - 92s 893ms/step - loss: 1.2967 - dice_soft:
0.6758 - dice_crossentropy: 0.4438 - val_loss: 1.0660 - val_dice_soft: 0.7536 - val_d
ice_crossentropy: 0.4968 - lr: 1.0000e-05
Epoch 401/500
100/100 [=====] - ETA: 0s - loss: 1.2769 - dice_soft: 0.6808
- dice_crossentropy: 0.4401
Epoch 00401: val_loss did not improve from 0.63956
100/100 [=====] - 91s 898ms/step - loss: 1.2769 - dice_soft:
0.6808 - dice_crossentropy: 0.4401 - val_loss: 1.9164 - val_dice_soft: 0.4750 - val_d
ice_crossentropy: 0.5723 - lr: 1.0000e-05
Epoch 402/500
100/100 [=====] - ETA: 0s - loss: 1.2659 - dice_soft: 0.6835
- dice_crossentropy: 0.4362
Epoch 00402: val_loss did not improve from 0.63956
100/100 [=====] - 94s 930ms/step - loss: 1.2659 - dice_soft:
0.6835 - dice_crossentropy: 0.4362 - val_loss: 1.4292 - val_dice_soft: 0.6691 - val_d
ice_crossentropy: 0.5921 - lr: 1.0000e-05
Epoch 403/500
100/100 [=====] - ETA: 0s - loss: 1.3056 - dice_soft: 0.6736
- dice_crossentropy: 0.4437

Epoch 00403: val_loss did not improve from 0.63956
100/100 [=====] - 90s 892ms/step - loss: 1.3056 - dice_soft:
0.6736 - dice_crossentropy: 0.4437 - val_loss: 1.2468 - val_dice_soft: 0.7264 - val_d
ice_crossentropy: 0.5564 - lr: 1.0000e-05
Epoch 404/500
100/100 [=====] - ETA: 0s - loss: 1.3217 - dice_soft: 0.6696
- dice_crossentropy: 0.4481
Epoch 00404: val_loss did not improve from 0.63956
100/100 [=====] - 92s 922ms/step - loss: 1.3217 - dice_soft:
0.6696 - dice_crossentropy: 0.4481 - val_loss: 1.7815 - val_dice_soft: 0.5243 - val_d
ice_crossentropy: 0.5751 - lr: 1.0000e-05
Epoch 405/500
100/100 [=====] - ETA: 0s - loss: 1.2841 - dice_soft: 0.6790
- dice_crossentropy: 0.4427
Epoch 00405: val_loss did not improve from 0.63956
100/100 [=====] - 91s 877ms/step - loss: 1.2841 - dice_soft:
0.6790 - dice_crossentropy: 0.4427 - val_loss: 2.0149 - val_dice_soft: 0.5607 - val_d
ice_crossentropy: 0.6704 - lr: 1.0000e-05
Epoch 406/500
100/100 [=====] - ETA: 0s - loss: 1.3887 - dice_soft: 0.6528
- dice_crossentropy: 0.4654
Epoch 00406: val_loss did not improve from 0.63956
100/100 [=====] - 89s 891ms/step - loss: 1.3887 - dice_soft:
0.6528 - dice_crossentropy: 0.4654 - val_loss: 1.4532 - val_dice_soft: 0.6638 - val_d
ice_crossentropy: 0.5178 - lr: 1.0000e-05
Epoch 407/500
100/100 [=====] - ETA: 0s - loss: 1.2737 - dice_soft: 0.6816
- dice_crossentropy: 0.4357
Epoch 00407: val_loss did not improve from 0.63956
100/100 [=====] - 92s 923ms/step - loss: 1.2737 - dice_soft:
0.6816 - dice_crossentropy: 0.4357 - val_loss: 2.2255 - val_dice_soft: 0.4322 - val_d
ice_crossentropy: 0.6469 - lr: 1.0000e-05
Epoch 408/500
100/100 [=====] - ETA: 0s - loss: 1.3210 - dice_soft: 0.6698
- dice_crossentropy: 0.4493
Epoch 00408: val_loss did not improve from 0.63956
100/100 [=====] - 91s 881ms/step - loss: 1.3210 - dice_soft:
0.6698 - dice_crossentropy: 0.4493 - val_loss: 1.2443 - val_dice_soft: 0.6463 - val_d
ice_crossentropy: 0.6063 - lr: 1.0000e-05
Epoch 409/500
100/100 [=====] - ETA: 0s - loss: 1.3364 - dice_soft: 0.6659
- dice_crossentropy: 0.4590
Epoch 00409: val_loss did not improve from 0.63956
100/100 [=====] - 95s 924ms/step - loss: 1.3364 - dice_soft:
0.6659 - dice_crossentropy: 0.4590 - val_loss: 1.3457 - val_dice_soft: 0.6802 - val_d
ice_crossentropy: 0.6164 - lr: 1.0000e-05
Epoch 410/500
100/100 [=====] - ETA: 0s - loss: 1.1916 - dice_soft: 0.7021
- dice_crossentropy: 0.4194
Epoch 00410: val_loss did not improve from 0.63956
100/100 [=====] - 93s 907ms/step - loss: 1.1916 - dice_soft:
0.7021 - dice_crossentropy: 0.4194 - val_loss: 2.3889 - val_dice_soft: 0.4459 - val_d
ice_crossentropy: 0.5895 - lr: 1.0000e-05
Epoch 411/500
100/100 [=====] - ETA: 0s - loss: 1.2595 - dice_soft: 0.6851
- dice_crossentropy: 0.4417
Epoch 00411: val_loss did not improve from 0.63956
100/100 [=====] - 91s 886ms/step - loss: 1.2595 - dice_soft:
0.6851 - dice_crossentropy: 0.4417 - val_loss: 1.2679 - val_dice_soft: 0.7155 - val_d
ice_crossentropy: 0.4485 - lr: 1.0000e-05
Epoch 412/500
100/100 [=====] - ETA: 0s - loss: 1.2874 - dice_soft: 0.6782
- dice_crossentropy: 0.4422
Epoch 00412: val_loss did not improve from 0.63956
100/100 [=====] - 91s 885ms/step - loss: 1.2874 - dice_soft:
ice_crossentropy: 0.4422 - val_loss: 1.5285 - val_dice_soft: 0.5960 - val_d

dice_crossentropy: 0.6824 - lr: 1.0000e-05
Epoch 413/500
100/100 [=====] - ETA: 0s - loss: 1.3183 - dice_soft: 0.6704
- dice_crossentropy: 0.4480
Epoch 00413: val_loss did not improve from 0.63956
100/100 [=====] - 90s 865ms/step - loss: 1.3183 - dice_soft:
0.6704 - dice_crossentropy: 0.4480 - val_loss: 1.7308 - val_dice_soft: 0.5368 - val_d
ice_crossentropy: 0.8398 - lr: 1.0000e-05
Epoch 414/500
100/100 [=====] - ETA: 0s - loss: 1.4253 - dice_soft: 0.6437
- dice_crossentropy: 0.4716
Epoch 00414: val_loss did not improve from 0.63956
100/100 [=====] - 90s 899ms/step - loss: 1.4253 - dice_soft:
0.6437 - dice_crossentropy: 0.4716 - val_loss: 1.5046 - val_dice_soft: 0.5952 - val_d
ice_crossentropy: 0.6837 - lr: 1.0000e-05
Epoch 415/500
100/100 [=====] - ETA: 0s - loss: 1.2655 - dice_soft: 0.6836
- dice_crossentropy: 0.4311
Epoch 00415: val_loss did not improve from 0.63956
100/100 [=====] - 93s 918ms/step - loss: 1.2655 - dice_soft:
0.6836 - dice_crossentropy: 0.4311 - val_loss: 2.0859 - val_dice_soft: 0.4500 - val_d
ice_crossentropy: 0.6492 - lr: 1.0000e-05
Epoch 416/500
100/100 [=====] - ETA: 0s - loss: 1.3578 - dice_soft: 0.6605
- dice_crossentropy: 0.4623
Epoch 00416: val_loss did not improve from 0.63956
100/100 [=====] - 92s 891ms/step - loss: 1.3578 - dice_soft:
0.6605 - dice_crossentropy: 0.4623 - val_loss: 2.0540 - val_dice_soft: 0.4364 - val_d
ice_crossentropy: 0.6518 - lr: 1.0000e-05
Epoch 417/500
100/100 [=====] - ETA: 0s - loss: 1.3091 - dice_soft: 0.6727
- dice_crossentropy: 0.4467
Epoch 00417: val_loss did not improve from 0.63956
100/100 [=====] - 92s 895ms/step - loss: 1.3091 - dice_soft:
0.6727 - dice_crossentropy: 0.4467 - val_loss: 1.6466 - val_dice_soft: 0.5937 - val_d
ice_crossentropy: 0.6470 - lr: 1.0000e-05
Epoch 418/500
100/100 [=====] - ETA: 0s - loss: 1.2871 - dice_soft: 0.6782
- dice_crossentropy: 0.4442
Epoch 00418: val_loss did not improve from 0.63956
100/100 [=====] - 92s 914ms/step - loss: 1.2871 - dice_soft:
0.6782 - dice_crossentropy: 0.4442 - val_loss: 0.6697 - val_dice_soft: 0.8245 - val_d
ice_crossentropy: 0.4298 - lr: 1.0000e-05
Epoch 419/500
100/100 [=====] - ETA: 0s - loss: 1.1954 - dice_soft: 0.7012
- dice_crossentropy: 0.4202
Epoch 00419: val_loss did not improve from 0.63956
100/100 [=====] - 89s 882ms/step - loss: 1.1954 - dice_soft:
0.7012 - dice_crossentropy: 0.4202 - val_loss: 1.0424 - val_dice_soft: 0.7181 - val_d
ice_crossentropy: 0.4541 - lr: 1.0000e-05
Epoch 420/500
100/100 [=====] - ETA: 0s - loss: 1.2878 - dice_soft: 0.6781
- dice_crossentropy: 0.4418
Epoch 00420: val_loss did not improve from 0.63956
100/100 [=====] - 91s 913ms/step - loss: 1.2878 - dice_soft:
0.6781 - dice_crossentropy: 0.4418 - val_loss: 1.2439 - val_dice_soft: 0.6806 - val_d
ice_crossentropy: 0.5060 - lr: 1.0000e-05
Epoch 421/500
100/100 [=====] - ETA: 0s - loss: 1.3357 - dice_soft: 0.6661
- dice_crossentropy: 0.4511
Epoch 00421: val_loss did not improve from 0.63956
100/100 [=====] - 91s 908ms/step - loss: 1.3357 - dice_soft:
0.6661 - dice_crossentropy: 0.4511 - val_loss: 1.2185 - val_dice_soft: 0.7196 - val_d
ice_crossentropy: 0.5188 - lr: 1.0000e-05
Epoch 422/500
100/100 [=====] - ETA: 0s - loss: 1.3001 - dice_soft: 0.6750

- dice_crossentropy: 0.4430
Epoch 00422: val_loss did not improve from 0.63956
100/100 [=====] - 90s 879ms/step - loss: 1.3001 - dice_soft:
0.6750 - dice_crossentropy: 0.4430 - val_loss: 2.1465 - val_dice_soft: 0.4763 - val_d
ice_crossentropy: 0.7441 - lr: 1.0000e-05
Epoch 423/500
100/100 [=====] - ETA: 0s - loss: 1.2599 - dice_soft: 0.6850
- dice_crossentropy: 0.4286
Epoch 00423: val_loss did not improve from 0.63956
100/100 [=====] - 90s 904ms/step - loss: 1.2599 - dice_soft:
0.6850 - dice_crossentropy: 0.4286 - val_loss: 1.4084 - val_dice_soft: 0.6684 - val_d
ice_crossentropy: 0.6148 - lr: 1.0000e-05
Epoch 424/500
100/100 [=====] - ETA: 0s - loss: 1.1442 - dice_soft: 0.7140
- dice_crossentropy: 0.4101
Epoch 00424: val_loss did not improve from 0.63956
100/100 [=====] - 87s 874ms/step - loss: 1.1442 - dice_soft:
0.7140 - dice_crossentropy: 0.4101 - val_loss: 2.3651 - val_dice_soft: 0.4236 - val_d
ice_crossentropy: 0.6250 - lr: 1.0000e-05
Epoch 425/500
100/100 [=====] - ETA: 0s - loss: 1.2279 - dice_soft: 0.6930
- dice_crossentropy: 0.4320
Epoch 00425: val_loss did not improve from 0.63956
100/100 [=====] - 89s 880ms/step - loss: 1.2279 - dice_soft:
0.6930 - dice_crossentropy: 0.4320 - val_loss: 0.6948 - val_dice_soft: 0.8315 - val_d
ice_crossentropy: 0.4541 - lr: 1.0000e-05
Epoch 426/500
100/100 [=====] - ETA: 0s - loss: 1.2686 - dice_soft: 0.6828
- dice_crossentropy: 0.4400
Epoch 00426: val_loss did not improve from 0.63956
100/100 [=====] - 89s 870ms/step - loss: 1.2686 - dice_soft:
0.6828 - dice_crossentropy: 0.4400 - val_loss: 2.9618 - val_dice_soft: 0.2634 - val_d
ice_crossentropy: 0.7425 - lr: 1.0000e-05
Epoch 427/500
100/100 [=====] - ETA: 0s - loss: 1.2804 - dice_soft: 0.6799
- dice_crossentropy: 0.4409
Epoch 00427: val_loss did not improve from 0.63956
100/100 [=====] - 93s 901ms/step - loss: 1.2804 - dice_soft:
0.6799 - dice_crossentropy: 0.4409 - val_loss: 1.8254 - val_dice_soft: 0.5255 - val_d
ice_crossentropy: 0.6617 - lr: 1.0000e-05
Epoch 428/500
100/100 [=====] - ETA: 0s - loss: 1.4432 - dice_soft: 0.6392
- dice_crossentropy: 0.4673
Epoch 00428: val_loss did not improve from 0.63956
100/100 [=====] - 91s 885ms/step - loss: 1.4432 - dice_soft:
0.6392 - dice_crossentropy: 0.4673 - val_loss: 1.2377 - val_dice_soft: 0.6506 - val_d
ice_crossentropy: 0.7031 - lr: 1.0000e-05
Epoch 429/500
100/100 [=====] - ETA: 0s - loss: 1.3247 - dice_soft: 0.6688
- dice_crossentropy: 0.4513
Epoch 00429: val_loss did not improve from 0.63956
100/100 [=====] - 87s 860ms/step - loss: 1.3247 - dice_soft:
0.6688 - dice_crossentropy: 0.4513 - val_loss: 1.5663 - val_dice_soft: 0.5819 - val_d
ice_crossentropy: 0.6767 - lr: 1.0000e-05
Epoch 430/500
100/100 [=====] - ETA: 0s - loss: 1.1556 - dice_soft: 0.7111
- dice_crossentropy: 0.4063
Epoch 00430: val_loss did not improve from 0.63956
100/100 [=====] - 92s 912ms/step - loss: 1.1556 - dice_soft:
0.7111 - dice_crossentropy: 0.4063 - val_loss: 1.6344 - val_dice_soft: 0.6450 - val_d
ice_crossentropy: 0.4750 - lr: 1.0000e-05
Epoch 431/500
100/100 [=====] - ETA: 0s - loss: 1.2708 - dice_soft: 0.6823
- dice_crossentropy: 0.4343
Epoch 00431: val_loss did not improve from 0.63956
100/100 [=====] - 95s 940ms/step - loss: 1.2708 - dice_soft:

0.6823 - dice_crossentropy: 0.4343 - val_loss: 1.2897 - val_dice_soft: 0.6152 - val_dice_crossentropy: 0.5543 - lr: 1.0000e-05
Epoch 432/500
100/100 [=====] - ETA: 0s - loss: 1.2093 - dice_soft: 0.6977
- dice_crossentropy: 0.4235
Epoch 00432: val_loss did not improve from 0.63956
100/100 [=====] - 89s 881ms/step - loss: 1.2093 - dice_soft:
0.6977 - dice_crossentropy: 0.4235 - val_loss: 1.6148 - val_dice_soft: 0.6055 - val_dice_crossentropy: 0.5550 - lr: 1.0000e-05
Epoch 433/500
100/100 [=====] - ETA: 0s - loss: 1.2115 - dice_soft: 0.6971
- dice_crossentropy: 0.4154
Epoch 00433: val_loss did not improve from 0.63956
100/100 [=====] - 90s 878ms/step - loss: 1.2115 - dice_soft:
0.6971 - dice_crossentropy: 0.4154 - val_loss: 1.8432 - val_dice_soft: 0.5630 - val_dice_crossentropy: 0.5487 - lr: 1.0000e-05
Epoch 434/500
100/100 [=====] - ETA: 0s - loss: 1.3016 - dice_soft: 0.6746
- dice_crossentropy: 0.4446
Epoch 00434: val_loss did not improve from 0.63956
100/100 [=====] - 90s 869ms/step - loss: 1.3016 - dice_soft:
0.6746 - dice_crossentropy: 0.4446 - val_loss: 1.3500 - val_dice_soft: 0.6341 - val_dice_crossentropy: 0.5360 - lr: 1.0000e-05
Epoch 435/500
100/100 [=====] - ETA: 0s - loss: 1.2662 - dice_soft: 0.6835
- dice_crossentropy: 0.4358
Epoch 00435: val_loss did not improve from 0.63956
100/100 [=====] - 90s 875ms/step - loss: 1.2662 - dice_soft:
0.6835 - dice_crossentropy: 0.4358 - val_loss: 1.4175 - val_dice_soft: 0.6191 - val_dice_crossentropy: 0.4977 - lr: 1.0000e-05
Epoch 436/500
100/100 [=====] - ETA: 0s - loss: 1.2712 - dice_soft: 0.6822
- dice_crossentropy: 0.4369
Epoch 00436: val_loss did not improve from 0.63956
100/100 [=====] - 90s 896ms/step - loss: 1.2712 - dice_soft:
0.6822 - dice_crossentropy: 0.4369 - val_loss: 1.9272 - val_dice_soft: 0.4714 - val_dice_crossentropy: 0.7016 - lr: 1.0000e-05
Epoch 437/500
100/100 [=====] - ETA: 0s - loss: 1.2992 - dice_soft: 0.6752
- dice_crossentropy: 0.4409
Epoch 00437: val_loss did not improve from 0.63956
100/100 [=====] - 89s 893ms/step - loss: 1.2992 - dice_soft:
0.6752 - dice_crossentropy: 0.4409 - val_loss: 1.7127 - val_dice_soft: 0.5103 - val_dice_crossentropy: 0.5801 - lr: 1.0000e-05
Epoch 438/500
100/100 [=====] - ETA: 0s - loss: 1.2446 - dice_soft: 0.6888
- dice_crossentropy: 0.4347
Epoch 00438: val_loss did not improve from 0.63956
100/100 [=====] - 89s 883ms/step - loss: 1.2446 - dice_soft:
0.6888 - dice_crossentropy: 0.4347 - val_loss: 1.6710 - val_dice_soft: 0.6090 - val_dice_crossentropy: 0.8148 - lr: 1.0000e-05
Epoch 439/500
100/100 [=====] - ETA: 0s - loss: 1.2337 - dice_soft: 0.6916
- dice_crossentropy: 0.4320
Epoch 00439: val_loss did not improve from 0.63956
100/100 [=====] - 90s 891ms/step - loss: 1.2337 - dice_soft:
0.6916 - dice_crossentropy: 0.4320 - val_loss: 1.4380 - val_dice_soft: 0.6133 - val_dice_crossentropy: 0.5643 - lr: 1.0000e-05
Epoch 440/500
100/100 [=====] - ETA: 0s - loss: 1.3034 - dice_soft: 0.6741
- dice_crossentropy: 0.4462
Epoch 00440: val_loss did not improve from 0.63956
100/100 [=====] - 93s 907ms/step - loss: 1.3034 - dice_soft:
0.6741 - dice_crossentropy: 0.4462 - val_loss: 1.7448 - val_dice_soft: 0.5169 - val_dice_crossentropy: 0.7367 - lr: 1.0000e-05

```
100/100 [=====] - ETA: 0s - loss: 1.1656 - dice_soft: 0.7086
- dice_crossentropy: 0.4091
Epoch 00441: val_loss did not improve from 0.63956
100/100 [=====] - 91s 887ms/step - loss: 1.1656 - dice_soft:
0.7086 - dice_crossentropy: 0.4091 - val_loss: 0.8615 - val_dice_soft: 0.7985 - val_d
ice_crossentropy: 0.5458 - lr: 1.0000e-05
Epoch 442/500
100/100 [=====] - ETA: 0s - loss: 1.2977 - dice_soft: 0.6756
- dice_crossentropy: 0.4400
Epoch 00442: val_loss did not improve from 0.63956
100/100 [=====] - 89s 880ms/step - loss: 1.2977 - dice_soft:
0.6756 - dice_crossentropy: 0.4400 - val_loss: 2.4128 - val_dice_soft: 0.4166 - val_d
ice_crossentropy: 0.6406 - lr: 1.0000e-05
Epoch 443/500
100/100 [=====] - ETA: 0s - loss: 1.1943 - dice_soft: 0.7014
- dice_crossentropy: 0.4174
Epoch 00443: val_loss did not improve from 0.63956
100/100 [=====] - 91s 881ms/step - loss: 1.1943 - dice_soft:
0.7014 - dice_crossentropy: 0.4174 - val_loss: 1.3511 - val_dice_soft: 0.6929 - val_d
ice_crossentropy: 0.6498 - lr: 1.0000e-05
Epoch 444/500
100/100 [=====] - ETA: 0s - loss: 1.3700 - dice_soft: 0.6575
- dice_crossentropy: 0.4580
Epoch 00444: val_loss did not improve from 0.63956
100/100 [=====] - 90s 873ms/step - loss: 1.3700 - dice_soft:
0.6575 - dice_crossentropy: 0.4580 - val_loss: 1.6732 - val_dice_soft: 0.5219 - val_d
ice_crossentropy: 0.6526 - lr: 1.0000e-05
Epoch 445/500
100/100 [=====] - ETA: 0s - loss: 1.2255 - dice_soft: 0.6936
- dice_crossentropy: 0.4289
Epoch 00445: val_loss did not improve from 0.63956
100/100 [=====] - 87s 870ms/step - loss: 1.2255 - dice_soft:
0.6936 - dice_crossentropy: 0.4289 - val_loss: 1.6386 - val_dice_soft: 0.6783 - val_d
ice_crossentropy: 0.6234 - lr: 1.0000e-05
Epoch 446/500
100/100 [=====] - ETA: 0s - loss: 1.2866 - dice_soft: 0.6784
- dice_crossentropy: 0.4423
Epoch 00446: val_loss did not improve from 0.63956
100/100 [=====] - 95s 947ms/step - loss: 1.2866 - dice_soft:
0.6784 - dice_crossentropy: 0.4423 - val_loss: 2.0139 - val_dice_soft: 0.5267 - val_d
ice_crossentropy: 0.5811 - lr: 1.0000e-05
Epoch 447/500
100/100 [=====] - ETA: 0s - loss: 1.2938 - dice_soft: 0.6766
- dice_crossentropy: 0.4371
Epoch 00447: val_loss did not improve from 0.63956
100/100 [=====] - 91s 907ms/step - loss: 1.2938 - dice_soft:
0.6766 - dice_crossentropy: 0.4371 - val_loss: 2.0711 - val_dice_soft: 0.4593 - val_d
ice_crossentropy: 0.7506 - lr: 1.0000e-05
Epoch 448/500
100/100 [=====] - ETA: 0s - loss: 1.3368 - dice_soft: 0.6658
- dice_crossentropy: 0.4514
Epoch 00448: val_loss did not improve from 0.63956
100/100 [=====] - 89s 880ms/step - loss: 1.3368 - dice_soft:
0.6658 - dice_crossentropy: 0.4514 - val_loss: 2.1142 - val_dice_soft: 0.4386 - val_d
ice_crossentropy: 0.6671 - lr: 1.0000e-05
Epoch 449/500
100/100 [=====] - ETA: 0s - loss: 1.3252 - dice_soft: 0.6687
- dice_crossentropy: 0.4484
Epoch 00449: val_loss did not improve from 0.63956
100/100 [=====] - 91s 890ms/step - loss: 1.3252 - dice_soft:
0.6687 - dice_crossentropy: 0.4484 - val_loss: 1.6446 - val_dice_soft: 0.5946 - val_d
ice_crossentropy: 0.6413 - lr: 1.0000e-05
Epoch 450/500
100/100 [=====] - ETA: 0s - loss: 1.2484 - dice_soft: 0.6879
- dice_crossentropy: 0.4290
Epoch 00450: val_loss did not improve from 0.63956
```

100/100 [=====] - 89s 871ms/step - loss: 1.2484 - dice_soft: 0.6879 - dice_crossentropy: 0.4290 - val_loss: 0.9445 - val_dice_soft: 0.7336 - val_dice_crossentropy: 0.5427 - lr: 1.0000e-05
Epoch 451/500
100/100 [=====] - ETA: 0s - loss: 1.2917 - dice_soft: 0.6771 - dice_crossentropy: 0.4391
Epoch 00451: val_loss did not improve from 0.63956
100/100 [=====] - 90s 888ms/step - loss: 1.2917 - dice_soft: 0.6771 - dice_crossentropy: 0.4391 - val_loss: 0.8555 - val_dice_soft: 0.7857 - val_dice_crossentropy: 0.5477 - lr: 1.0000e-05
Epoch 452/500
100/100 [=====] - ETA: 0s - loss: 1.2157 - dice_soft: 0.6961 - dice_crossentropy: 0.4209
Epoch 00452: val_loss did not improve from 0.63956
100/100 [=====] - 92s 878ms/step - loss: 1.2157 - dice_soft: 0.6961 - dice_crossentropy: 0.4209 - val_loss: 1.4843 - val_dice_soft: 0.6278 - val_dice_crossentropy: 0.5768 - lr: 1.0000e-05
Epoch 453/500
100/100 [=====] - ETA: 0s - loss: 1.1542 - dice_soft: 0.7114 - dice_crossentropy: 0.4135
Epoch 00453: val_loss did not improve from 0.63956
100/100 [=====] - 89s 867ms/step - loss: 1.1542 - dice_soft: 0.7114 - dice_crossentropy: 0.4135 - val_loss: 1.9501 - val_dice_soft: 0.5156 - val_dice_crossentropy: 0.8068 - lr: 1.0000e-05
Epoch 454/500
100/100 [=====] - ETA: 0s - loss: 1.1064 - dice_soft: 0.7234 - dice_crossentropy: 0.4054
Epoch 00454: val_loss did not improve from 0.63956
100/100 [=====] - 93s 917ms/step - loss: 1.1064 - dice_soft: 0.7234 - dice_crossentropy: 0.4054 - val_loss: 1.5447 - val_dice_soft: 0.6118 - val_dice_crossentropy: 0.5282 - lr: 1.0000e-05
Epoch 455/500
100/100 [=====] - ETA: 0s - loss: 1.2710 - dice_soft: 0.6823 - dice_crossentropy: 0.4319
Epoch 00455: val_loss did not improve from 0.63956
100/100 [=====] - 90s 905ms/step - loss: 1.2710 - dice_soft: 0.6823 - dice_crossentropy: 0.4319 - val_loss: 1.5433 - val_dice_soft: 0.6656 - val_dice_crossentropy: 0.6707 - lr: 1.0000e-05
Epoch 456/500
100/100 [=====] - ETA: 0s - loss: 1.1979 - dice_soft: 0.7005 - dice_crossentropy: 0.4148
Epoch 00456: val_loss did not improve from 0.63956
100/100 [=====] - 87s 860ms/step - loss: 1.1979 - dice_soft: 0.7005 - dice_crossentropy: 0.4148 - val_loss: 1.5354 - val_dice_soft: 0.6172 - val_dice_crossentropy: 0.6861 - lr: 1.0000e-05
Epoch 457/500
100/100 [=====] - ETA: 0s - loss: 1.2840 - dice_soft: 0.6790 - dice_crossentropy: 0.4327
Epoch 00457: val_loss did not improve from 0.63956
100/100 [=====] - 91s 898ms/step - loss: 1.2840 - dice_soft: 0.6790 - dice_crossentropy: 0.4327 - val_loss: 1.8273 - val_dice_soft: 0.5278 - val_dice_crossentropy: 0.5666 - lr: 1.0000e-05
Epoch 458/500
100/100 [=====] - ETA: 0s - loss: 1.2126 - dice_soft: 0.6969 - dice_crossentropy: 0.4220
Epoch 00458: val_loss did not improve from 0.63956
100/100 [=====] - 91s 890ms/step - loss: 1.2126 - dice_soft: 0.6969 - dice_crossentropy: 0.4220 - val_loss: 1.6303 - val_dice_soft: 0.6304 - val_dice_crossentropy: 0.6693 - lr: 1.0000e-05
Epoch 459/500
100/100 [=====] - ETA: 0s - loss: 1.2234 - dice_soft: 0.6942 - dice_crossentropy: 0.4209
Epoch 00459: val_loss did not improve from 0.63956
100/100 [=====] - 89s 882ms/step - loss: 1.2234 - dice_soft: 0.6942 - dice_crossentropy: 0.4209 - val_loss: 2.2414 - val_dice_soft: 0.3891 - val_dice_crossentropy: 0.7668 - lr: 1.0000e-05

Epoch 460/500
100/100 [=====] - ETA: 0s - loss: 1.2367 - dice_soft: 0.6908
- dice_crossentropy: 0.4260
Epoch 00460: val_loss did not improve from 0.63956
100/100 [=====] - 88s 880ms/step - loss: 1.2367 - dice_soft:
0.6908 - dice_crossentropy: 0.4260 - val_loss: 1.6999 - val_dice_soft: 0.5681 - val_d
ice_crossentropy: 0.6209 - lr: 1.0000e-05
Epoch 461/500
100/100 [=====] - ETA: 0s - loss: 1.2874 - dice_soft: 0.6782
- dice_crossentropy: 0.4405
Epoch 00461: val_loss did not improve from 0.63956
100/100 [=====] - 93s 922ms/step - loss: 1.2874 - dice_soft:
0.6782 - dice_crossentropy: 0.4405 - val_loss: 1.3859 - val_dice_soft: 0.5903 - val_d
ice_crossentropy: 0.6386 - lr: 1.0000e-05
Epoch 462/500
100/100 [=====] - ETA: 0s - loss: 1.2784 - dice_soft: 0.6804
- dice_crossentropy: 0.4311
Epoch 00462: val_loss did not improve from 0.63956
100/100 [=====] - 92s 894ms/step - loss: 1.2784 - dice_soft:
0.6804 - dice_crossentropy: 0.4311 - val_loss: 1.6581 - val_dice_soft: 0.5727 - val_d
ice_crossentropy: 0.5512 - lr: 1.0000e-05
Epoch 463/500
100/100 [=====] - ETA: 0s - loss: 1.2755 - dice_soft: 0.6811
- dice_crossentropy: 0.4335
Epoch 00463: val_loss did not improve from 0.63956
100/100 [=====] - 91s 878ms/step - loss: 1.2755 - dice_soft:
0.6811 - dice_crossentropy: 0.4335 - val_loss: 1.2324 - val_dice_soft: 0.6333 - val_d
ice_crossentropy: 0.5644 - lr: 1.0000e-05
Epoch 464/500
100/100 [=====] - ETA: 0s - loss: 1.3169 - dice_soft: 0.6708
- dice_crossentropy: 0.4497
Epoch 00464: val_loss did not improve from 0.63956
100/100 [=====] - 93s 906ms/step - loss: 1.3169 - dice_soft:
0.6708 - dice_crossentropy: 0.4497 - val_loss: 1.7694 - val_dice_soft: 0.5000 - val_d
ice_crossentropy: 0.7554 - lr: 1.0000e-05
Epoch 465/500
100/100 [=====] - ETA: 0s - loss: 1.3343 - dice_soft: 0.6664
- dice_crossentropy: 0.4521
Epoch 00465: val_loss did not improve from 0.63956
100/100 [=====] - 89s 863ms/step - loss: 1.3343 - dice_soft:
0.6664 - dice_crossentropy: 0.4521 - val_loss: 1.8998 - val_dice_soft: 0.5246 - val_d
ice_crossentropy: 0.5473 - lr: 1.0000e-05
Epoch 466/500
100/100 [=====] - ETA: 0s - loss: 1.1767 - dice_soft: 0.7058
- dice_crossentropy: 0.4070
Epoch 00466: val_loss did not improve from 0.63956
100/100 [=====] - 90s 864ms/step - loss: 1.1767 - dice_soft:
0.7058 - dice_crossentropy: 0.4070 - val_loss: 1.5486 - val_dice_soft: 0.6423 - val_d
ice_crossentropy: 0.4919 - lr: 1.0000e-05
Epoch 467/500
100/100 [=====] - ETA: 0s - loss: 1.2098 - dice_soft: 0.6976
- dice_crossentropy: 0.4174
Epoch 00467: val_loss did not improve from 0.63956
100/100 [=====] - 90s 876ms/step - loss: 1.2098 - dice_soft:
0.6976 - dice_crossentropy: 0.4174 - val_loss: 1.6480 - val_dice_soft: 0.6033 - val_d
ice_crossentropy: 0.6045 - lr: 1.0000e-05
Epoch 468/500
100/100 [=====] - ETA: 0s - loss: 1.1925 - dice_soft: 0.7019
- dice_crossentropy: 0.4225
Epoch 00468: val_loss did not improve from 0.63956
100/100 [=====] - 90s 899ms/step - loss: 1.1925 - dice_soft:
0.7019 - dice_crossentropy: 0.4225 - val_loss: 1.0259 - val_dice_soft: 0.7527 - val_d
ice_crossentropy: 0.6009 - lr: 1.0000e-05
Epoch 469/500
100/100 [=====] - ETA: 0s - loss: 1.2150 - dice_soft: 0.6963
- dice_crossentropy: 0.4238

Epoch 00469: val_loss did not improve from 0.63956
100/100 [=====] - 91s 895ms/step - loss: 1.2150 - dice_soft:
0.6963 - dice_crossentropy: 0.4238 - val_loss: 1.0365 - val_dice_soft: 0.7010 - val_d
ice_crossentropy: 0.5249 - lr: 1.0000e-05
Epoch 470/500
100/100 [=====] - ETA: 0s - loss: 1.3628 - dice_soft: 0.6593
- dice_crossentropy: 0.4657
Epoch 00470: val_loss did not improve from 0.63956
100/100 [=====] - 89s 878ms/step - loss: 1.3628 - dice_soft:
0.6593 - dice_crossentropy: 0.4657 - val_loss: 2.6158 - val_dice_soft: 0.3968 - val_d
ice_crossentropy: 0.7770 - lr: 1.0000e-05
Epoch 471/500
100/100 [=====] - ETA: 0s - loss: 1.3242 - dice_soft: 0.6689
- dice_crossentropy: 0.4380
Epoch 00471: val_loss did not improve from 0.63956
100/100 [=====] - 88s 870ms/step - loss: 1.3242 - dice_soft:
0.6689 - dice_crossentropy: 0.4380 - val_loss: 1.6496 - val_dice_soft: 0.6033 - val_d
ice_crossentropy: 0.7940 - lr: 1.0000e-05
Epoch 472/500
100/100 [=====] - ETA: 0s - loss: 1.2207 - dice_soft: 0.6948
- dice_crossentropy: 0.4190
Epoch 00472: val_loss did not improve from 0.63956
100/100 [=====] - 91s 911ms/step - loss: 1.2207 - dice_soft:
0.6948 - dice_crossentropy: 0.4190 - val_loss: 1.5269 - val_dice_soft: 0.6356 - val_d
ice_crossentropy: 0.7557 - lr: 1.0000e-05
Epoch 473/500
100/100 [=====] - ETA: 0s - loss: 1.2303 - dice_soft: 0.6924
- dice_crossentropy: 0.4309
Epoch 00473: val_loss did not improve from 0.63956
100/100 [=====] - 91s 898ms/step - loss: 1.2303 - dice_soft:
0.6924 - dice_crossentropy: 0.4309 - val_loss: 1.4633 - val_dice_soft: 0.6237 - val_d
ice_crossentropy: 0.4494 - lr: 1.0000e-05
Epoch 474/500
100/100 [=====] - ETA: 0s - loss: 1.2915 - dice_soft: 0.6771
- dice_crossentropy: 0.4381
Epoch 00474: val_loss did not improve from 0.63956
100/100 [=====] - 93s 906ms/step - loss: 1.2915 - dice_soft:
0.6771 - dice_crossentropy: 0.4381 - val_loss: 1.5953 - val_dice_soft: 0.5448 - val_d
ice_crossentropy: 0.5299 - lr: 1.0000e-05
Epoch 475/500
100/100 [=====] - ETA: 0s - loss: 1.2249 - dice_soft: 0.6938
- dice_crossentropy: 0.4240
Epoch 00475: val_loss did not improve from 0.63956
100/100 [=====] - 91s 895ms/step - loss: 1.2249 - dice_soft:
0.6938 - dice_crossentropy: 0.4240 - val_loss: 1.5302 - val_dice_soft: 0.6868 - val_d
ice_crossentropy: 0.6294 - lr: 1.0000e-05
Epoch 476/500
100/100 [=====] - ETA: 0s - loss: 1.2307 - dice_soft: 0.6923
- dice_crossentropy: 0.4303
Epoch 00476: val_loss did not improve from 0.63956
100/100 [=====] - 88s 875ms/step - loss: 1.2307 - dice_soft:
0.6923 - dice_crossentropy: 0.4303 - val_loss: 2.1612 - val_dice_soft: 0.4046 - val_d
ice_crossentropy: 0.6770 - lr: 1.0000e-05
Epoch 477/500
100/100 [=====] - ETA: 0s - loss: 1.1918 - dice_soft: 0.7020
- dice_crossentropy: 0.4226
Epoch 00477: val_loss did not improve from 0.63956
100/100 [=====] - 91s 877ms/step - loss: 1.1918 - dice_soft:
0.7020 - dice_crossentropy: 0.4226 - val_loss: 1.7344 - val_dice_soft: 0.6009 - val_d
ice_crossentropy: 0.4969 - lr: 1.0000e-05
Epoch 478/500
100/100 [=====] - ETA: 0s - loss: 1.0920 - dice_soft: 0.7270
- dice_crossentropy: 0.3984
Epoch 00478: val_loss did not improve from 0.63956
100/100 [=====] - 89s 873ms/step - loss: 1.0920 - dice_soft:
0.7270 - dice_crossentropy: 0.3984 - val_loss: 0.9107 - val_dice_soft: 0.7835 - val_d

ice_crossentropy: 0.4333 - lr: 1.0000e-05
Epoch 479/500
100/100 [=====] - ETA: 0s - loss: 1.2425 - dice_soft: 0.6894
- dice_crossentropy: 0.4303
Epoch 00479: val_loss did not improve from 0.63956
100/100 [=====] - 90s 890ms/step - loss: 1.2425 - dice_soft:
0.6894 - dice_crossentropy: 0.4303 - val_loss: 1.5366 - val_dice_soft: 0.6251 - val_d
ice_crossentropy: 0.4571 - lr: 1.0000e-05
Epoch 480/500
100/100 [=====] - ETA: 0s - loss: 1.3052 - dice_soft: 0.6737
- dice_crossentropy: 0.4403
Epoch 00480: val_loss did not improve from 0.63956
100/100 [=====] - 91s 901ms/step - loss: 1.3052 - dice_soft:
0.6737 - dice_crossentropy: 0.4403 - val_loss: 2.0499 - val_dice_soft: 0.5497 - val_d
ice_crossentropy: 0.5860 - lr: 1.0000e-05
Epoch 481/500
100/100 [=====] - ETA: 0s - loss: 1.4117 - dice_soft: 0.6471
- dice_crossentropy: 0.4632
Epoch 00481: val_loss did not improve from 0.63956
100/100 [=====] - 89s 873ms/step - loss: 1.4117 - dice_soft:
0.6471 - dice_crossentropy: 0.4632 - val_loss: 1.8159 - val_dice_soft: 0.5258 - val_d
ice_crossentropy: 0.6727 - lr: 1.0000e-05
Epoch 482/500
100/100 [=====] - ETA: 0s - loss: 1.2862 - dice_soft: 0.6785
- dice_crossentropy: 0.4418
Epoch 00482: val_loss did not improve from 0.63956
100/100 [=====] - 95s 915ms/step - loss: 1.2862 - dice_soft:
0.6785 - dice_crossentropy: 0.4418 - val_loss: 2.1469 - val_dice_soft: 0.4748 - val_d
ice_crossentropy: 0.8226 - lr: 1.0000e-05
Epoch 483/500
100/100 [=====] - ETA: 0s - loss: 1.2673 - dice_soft: 0.6832
- dice_crossentropy: 0.4331
Epoch 00483: val_loss did not improve from 0.63956
100/100 [=====] - 91s 888ms/step - loss: 1.2673 - dice_soft:
0.6832 - dice_crossentropy: 0.4331 - val_loss: 1.8218 - val_dice_soft: 0.5476 - val_d
ice_crossentropy: 0.6754 - lr: 1.0000e-05
Epoch 484/500
100/100 [=====] - ETA: 0s - loss: 1.3496 - dice_soft: 0.6626
- dice_crossentropy: 0.4605
Epoch 00484: val_loss did not improve from 0.63956
100/100 [=====] - 92s 896ms/step - loss: 1.3496 - dice_soft:
0.6626 - dice_crossentropy: 0.4605 - val_loss: 1.4663 - val_dice_soft: 0.6089 - val_d
ice_crossentropy: 0.7455 - lr: 1.0000e-05
Epoch 485/500
100/100 [=====] - ETA: 0s - loss: 1.1966 - dice_soft: 0.7008
- dice_crossentropy: 0.4204
Epoch 00485: val_loss did not improve from 0.63956
100/100 [=====] - 89s 889ms/step - loss: 1.1966 - dice_soft:
0.7008 - dice_crossentropy: 0.4204 - val_loss: 1.4823 - val_dice_soft: 0.6299 - val_d
ice_crossentropy: 0.4626 - lr: 1.0000e-05
Epoch 486/500
100/100 [=====] - ETA: 0s - loss: 1.2947 - dice_soft: 0.6763
- dice_crossentropy: 0.4410
Epoch 00486: val_loss did not improve from 0.63956
100/100 [=====] - 92s 905ms/step - loss: 1.2947 - dice_soft:
0.6763 - dice_crossentropy: 0.4410 - val_loss: 1.9004 - val_dice_soft: 0.4817 - val_d
ice_crossentropy: 0.7692 - lr: 1.0000e-05
Epoch 487/500
100/100 [=====] - ETA: 0s - loss: 1.2429 - dice_soft: 0.6893
- dice_crossentropy: 0.4302
Epoch 00487: val_loss did not improve from 0.63956
100/100 [=====] - 92s 885ms/step - loss: 1.2429 - dice_soft:
0.6893 - dice_crossentropy: 0.4302 - val_loss: 1.7141 - val_dice_soft: 0.5814 - val_d
ice_crossentropy: 0.7080 - lr: 1.0000e-05
Epoch 488/500
100/100 [=====] - ETA: 0s - loss: 1.3490 - dice_soft: 0.6628

- dice_crossentropy: 0.4453
Epoch 00488: val_loss did not improve from 0.63956
100/100 [=====] - 90s 894ms/step - loss: 1.3490 - dice_soft:
0.6628 - dice_crossentropy: 0.4453 - val_loss: 2.0309 - val_dice_soft: 0.4304 - val_d
ice_crossentropy: 0.7667 - lr: 1.0000e-05
Epoch 489/500
100/100 [=====] - ETA: 0s - loss: 1.1727 - dice_soft: 0.7068
- dice_crossentropy: 0.4170
Epoch 00489: val_loss did not improve from 0.63956
100/100 [=====] - 89s 883ms/step - loss: 1.1727 - dice_soft:
0.7068 - dice_crossentropy: 0.4170 - val_loss: 1.3312 - val_dice_soft: 0.7107 - val_d
ice_crossentropy: 0.5789 - lr: 1.0000e-05
Epoch 490/500
100/100 [=====] - ETA: 0s - loss: 1.2439 - dice_soft: 0.6890
- dice_crossentropy: 0.4294
Epoch 00490: val_loss did not improve from 0.63956
100/100 [=====] - 89s 871ms/step - loss: 1.2439 - dice_soft:
0.6890 - dice_crossentropy: 0.4294 - val_loss: 1.9265 - val_dice_soft: 0.4706 - val_d
ice_crossentropy: 0.6190 - lr: 1.0000e-05
Epoch 491/500
100/100 [=====] - ETA: 0s - loss: 1.1709 - dice_soft: 0.7073
- dice_crossentropy: 0.4160
Epoch 00491: val_loss did not improve from 0.63956
100/100 [=====] - 91s 885ms/step - loss: 1.1709 - dice_soft:
0.7073 - dice_crossentropy: 0.4160 - val_loss: 1.4447 - val_dice_soft: 0.6444 - val_d
ice_crossentropy: 0.5234 - lr: 1.0000e-05
Epoch 492/500
100/100 [=====] - ETA: 0s - loss: 1.3392 - dice_soft: 0.6652
- dice_crossentropy: 0.4473
Epoch 00492: val_loss did not improve from 0.63956
100/100 [=====] - 86s 859ms/step - loss: 1.3392 - dice_soft:
0.6652 - dice_crossentropy: 0.4473 - val_loss: 1.8433 - val_dice_soft: 0.5398 - val_d
ice_crossentropy: 0.6025 - lr: 1.0000e-05
Epoch 493/500
100/100 [=====] - ETA: 0s - loss: 1.2949 - dice_soft: 0.6763
- dice_crossentropy: 0.4364
Epoch 00493: val_loss did not improve from 0.63956
100/100 [=====] - 90s 894ms/step - loss: 1.2949 - dice_soft:
0.6763 - dice_crossentropy: 0.4364 - val_loss: 1.6281 - val_dice_soft: 0.6218 - val_d
ice_crossentropy: 0.8333 - lr: 1.0000e-05
Epoch 494/500
100/100 [=====] - ETA: 0s - loss: 1.2804 - dice_soft: 0.6799
- dice_crossentropy: 0.4421
Epoch 00494: val_loss did not improve from 0.63956
100/100 [=====] - 92s 882ms/step - loss: 1.2804 - dice_soft:
0.6799 - dice_crossentropy: 0.4421 - val_loss: 1.1534 - val_dice_soft: 0.7255 - val_d
ice_crossentropy: 0.5441 - lr: 1.0000e-05
Epoch 495/500
100/100 [=====] - ETA: 0s - loss: 1.2264 - dice_soft: 0.6934
- dice_crossentropy: 0.4241
Epoch 00495: val_loss did not improve from 0.63956
100/100 [=====] - 91s 887ms/step - loss: 1.2264 - dice_soft:
0.6934 - dice_crossentropy: 0.4241 - val_loss: 0.9101 - val_dice_soft: 0.7893 - val_d
ice_crossentropy: 0.5980 - lr: 1.0000e-05
Epoch 496/500
100/100 [=====] - ETA: 0s - loss: 1.3008 - dice_soft: 0.6748
- dice_crossentropy: 0.4442
Epoch 00496: val_loss did not improve from 0.63956
100/100 [=====] - 90s 890ms/step - loss: 1.3008 - dice_soft:
0.6748 - dice_crossentropy: 0.4442 - val_loss: 1.0164 - val_dice_soft: 0.7429 - val_d
ice_crossentropy: 0.6654 - lr: 1.0000e-05
Epoch 497/500
100/100 [=====] - ETA: 0s - loss: 1.1648 - dice_soft: 0.7088
- dice_crossentropy: 0.4123
Epoch 00497: val_loss did not improve from 0.63956
100/100 [=====] - 89s 885ms/step - loss: 1.1648 - dice_soft:

```
0.7088 - dice_crossentropy: 0.4123 - val_loss: 1.9362 - val_dice_soft: 0.4692 - val_d
ice_crossentropy: 0.7245 - lr: 1.0000e-05
Epoch 498/500
100/100 [=====] - ETA: 0s - loss: 1.2564 - dice_soft: 0.6859
- dice_crossentropy: 0.4346
Epoch 00498: val_loss did not improve from 0.63956
100/100 [=====] - 94s 917ms/step - loss: 1.2564 - dice_soft:
0.6859 - dice_crossentropy: 0.4346 - val_loss: 1.1708 - val_dice_soft: 0.7088 - val_d
ice_crossentropy: 0.6691 - lr: 1.0000e-05
Epoch 499/500
100/100 [=====] - ETA: 0s - loss: 1.2464 - dice_soft: 0.6884
- dice_crossentropy: 0.4319
Epoch 00499: val_loss did not improve from 0.63956
100/100 [=====] - 91s 893ms/step - loss: 1.2464 - dice_soft:
0.6884 - dice_crossentropy: 0.4319 - val_loss: 1.6566 - val_dice_soft: 0.5897 - val_d
ice_crossentropy: 0.5365 - lr: 1.0000e-05
Epoch 500/500
100/100 [=====] - ETA: 0s - loss: 1.1389 - dice_soft: 0.7153
- dice_crossentropy: 0.4112
Epoch 00500: val_loss did not improve from 0.63956
100/100 [=====] - 92s 909ms/step - loss: 1.1389 - dice_soft:
0.7153 - dice_crossentropy: 0.4112 - val_loss: 1.9831 - val_dice_soft: 0.4641 - val_d
ice_crossentropy: 0.7692 - lr: 1.0000e-05
constructed data generation
Epoch 1/500
100/100 [=====] - ETA: 0s - loss: 3.2036 - dice_soft: 0.1991
- dice_crossentropy: 3.4363
Epoch 00001: val_loss improved from inf to 3.08185, saving model to evaluation/fold_2/
model.hdf5
100/100 [=====] - 95s 931ms/step - loss: 3.2036 - dice_soft:
0.1991 - dice_crossentropy: 3.4363 - val_loss: 3.0818 - val_dice_soft: 0.2324 - val_d
ice_crossentropy: 1.6993 - lr: 1.0000e-04
Epoch 2/500
100/100 [=====] - ETA: 0s - loss: 3.0447 - dice_soft: 0.2388
- dice_crossentropy: 3.6338
Epoch 00002: val_loss improved from 3.08185 to 3.02773, saving model to evaluation/fol
d_2/model.hdf5
100/100 [=====] - 92s 922ms/step - loss: 3.0447 - dice_soft:
0.2388 - dice_crossentropy: 3.6338 - val_loss: 3.0277 - val_dice_soft: 0.2462 - val_d
ice_crossentropy: 2.2214 - lr: 1.0000e-04
Epoch 3/500
100/100 [=====] - ETA: 0s - loss: 2.9706 - dice_soft: 0.2573
- dice_crossentropy: 4.0878
Epoch 00003: val_loss improved from 3.02773 to 2.97394, saving model to evaluation/fol
d_2/model.hdf5
100/100 [=====] - 94s 901ms/step - loss: 2.9706 - dice_soft:
0.2573 - dice_crossentropy: 4.0878 - val_loss: 2.9739 - val_dice_soft: 0.2549 - val_d
ice_crossentropy: 1.3658 - lr: 1.0000e-04
Epoch 4/500
100/100 [=====] - ETA: 0s - loss: 2.9142 - dice_soft: 0.2715
- dice_crossentropy: 4.2077
Epoch 00004: val_loss did not improve from 2.97394
100/100 [=====] - 90s 888ms/step - loss: 2.9142 - dice_soft:
0.2715 - dice_crossentropy: 4.2077 - val_loss: 2.9748 - val_dice_soft: 0.2575 - val_d
ice_crossentropy: 1.7041 - lr: 1.0000e-04
Epoch 5/500
100/100 [=====] - ETA: 0s - loss: 2.8151 - dice_soft: 0.2962
- dice_crossentropy: 4.8938
Epoch 00005: val_loss improved from 2.97394 to 2.93274, saving model to evaluation/fol
d_2/model.hdf5
100/100 [=====] - 91s 870ms/step - loss: 2.8151 - dice_soft:
0.2962 - dice_crossentropy: 4.8938 - val_loss: 2.9327 - val_dice_soft: 0.2629 - val_d
ice_crossentropy: 2.7945 - lr: 1.0000e-04
Epoch 6/500
100/100 [=====] - ETA: 0s - loss: 2.7001 - dice_soft: 0.3250
- dice_crossentropy: 5.2666
```


Epoch 00006: val_loss improved from 2.93274 to 2.84626, saving model to evaluation/fold_2/model.hdf5
100/100 [=====] - 92s 882ms/step - loss: 2.7001 - dice_soft: 0.3250 - dice_crossentropy: 5.2666 - val_loss: 2.8463 - val_dice_soft: 0.2754 - val_dice_crossentropy: 4.5306 - lr: 1.0000e-04
Epoch 7/500
100/100 [=====] - ETA: 0s - loss: 2.5917 - dice_soft: 0.3521 - dice_crossentropy: 5.6133
Epoch 00007: val_loss improved from 2.84626 to 2.82998, saving model to evaluation/fold_2/model.hdf5
100/100 [=====] - 92s 911ms/step - loss: 2.5917 - dice_soft: 0.3521 - dice_crossentropy: 5.6133 - val_loss: 2.8300 - val_dice_soft: 0.3103 - val_dice_crossentropy: 6.2312 - lr: 1.0000e-04
Epoch 8/500
100/100 [=====] - ETA: 0s - loss: 2.5784 - dice_soft: 0.3554 - dice_crossentropy: 5.6637
Epoch 00008: val_loss improved from 2.82998 to 2.64640, saving model to evaluation/fold_2/model.hdf5
100/100 [=====] - 89s 884ms/step - loss: 2.5784 - dice_soft: 0.3554 - dice_crossentropy: 5.6637 - val_loss: 2.6464 - val_dice_soft: 0.3308 - val_dice_crossentropy: 6.7307 - lr: 1.0000e-04
Epoch 9/500
100/100 [=====] - ETA: 0s - loss: 2.4279 - dice_soft: 0.3930 - dice_crossentropy: 5.8759
Epoch 00009: val_loss improved from 2.64640 to 2.41454, saving model to evaluation/fold_2/model.hdf5
100/100 [=====] - 94s 914ms/step - loss: 2.4279 - dice_soft: 0.3930 - dice_crossentropy: 5.8759 - val_loss: 2.4145 - val_dice_soft: 0.4015 - val_dice_crossentropy: 4.3550 - lr: 1.0000e-04
Epoch 10/500
100/100 [=====] - ETA: 0s - loss: 2.4850 - dice_soft: 0.3787 - dice_crossentropy: 5.8516
Epoch 00010: val_loss improved from 2.41454 to 2.16389, saving model to evaluation/fold_2/model.hdf5
100/100 [=====] - 91s 884ms/step - loss: 2.4850 - dice_soft: 0.3787 - dice_crossentropy: 5.8516 - val_loss: 2.1639 - val_dice_soft: 0.4679 - val_dice_crossentropy: 7.6916 - lr: 1.0000e-04
Epoch 11/500
100/100 [=====] - ETA: 0s - loss: 2.3605 - dice_soft: 0.4099 - dice_crossentropy: 5.9102
Epoch 00011: val_loss did not improve from 2.16389
100/100 [=====] - 92s 903ms/step - loss: 2.3605 - dice_soft: 0.4099 - dice_crossentropy: 5.9102 - val_loss: 2.5006 - val_dice_soft: 0.3708 - val_dice_crossentropy: 3.9287 - lr: 1.0000e-04
Epoch 12/500
100/100 [=====] - ETA: 0s - loss: 2.4470 - dice_soft: 0.3883 - dice_crossentropy: 5.8247
Epoch 00012: val_loss did not improve from 2.16389
100/100 [=====] - 91s 874ms/step - loss: 2.4470 - dice_soft: 0.3883 - dice_crossentropy: 5.8247 - val_loss: 2.8030 - val_dice_soft: 0.2817 - val_dice_crossentropy: 5.6568 - lr: 1.0000e-04
Epoch 13/500
100/100 [=====] - ETA: 0s - loss: 2.4118 - dice_soft: 0.3970 - dice_crossentropy: 5.9257
Epoch 00013: val_loss improved from 2.16389 to 2.06270, saving model to evaluation/fold_2/model.hdf5
100/100 [=====] - 90s 875ms/step - loss: 2.4118 - dice_soft: 0.3970 - dice_crossentropy: 5.9257 - val_loss: 2.0627 - val_dice_soft: 0.5002 - val_dice_crossentropy: 5.6049 - lr: 1.0000e-04
Epoch 14/500
100/100 [=====] - ETA: 0s - loss: 2.3345 - dice_soft: 0.4164 - dice_crossentropy: 5.8946
Epoch 00014: val_loss did not improve from 2.06270
100/100 [=====] - 88s 862ms/step - loss: 2.3345 - dice_soft: 0.4164 - dice_crossentropy: 5.8946 - val_loss: 2.5237 - val_dice_soft: 0.3513 - val_dice_crossentropy: 1.9832 - lr: 1.0000e-04

Epoch 15/500
100/100 [=====] - ETA: 0s - loss: 2.2870 - dice_soft: 0.4282
- dice_crossentropy: 5.6241
Epoch 00015: val_loss did not improve from 2.06270
100/100 [=====] - 90s 872ms/step - loss: 2.2870 - dice_soft:
0.4282 - dice_crossentropy: 5.6241 - val_loss: 2.4451 - val_dice_soft: 0.3918 - val_d
ice_crossentropy: 4.6276 - lr: 1.0000e-04
Epoch 16/500
100/100 [=====] - ETA: 0s - loss: 2.3100 - dice_soft: 0.4225
- dice_crossentropy: 5.4809
Epoch 00016: val_loss did not improve from 2.06270
100/100 [=====] - 90s 878ms/step - loss: 2.3100 - dice_soft:
0.4225 - dice_crossentropy: 5.4809 - val_loss: 2.5576 - val_dice_soft: 0.3761 - val_d
ice_crossentropy: 4.2128 - lr: 1.0000e-04
Epoch 17/500
100/100 [=====] - ETA: 0s - loss: 2.3165 - dice_soft: 0.4209
- dice_crossentropy: 5.4615
Epoch 00017: val_loss did not improve from 2.06270
100/100 [=====] - 91s 894ms/step - loss: 2.3165 - dice_soft:
0.4209 - dice_crossentropy: 5.4615 - val_loss: 2.3024 - val_dice_soft: 0.4454 - val_d
ice_crossentropy: 2.2742 - lr: 1.0000e-04
Epoch 18/500
100/100 [=====] - ETA: 0s - loss: 2.2455 - dice_soft: 0.4386
- dice_crossentropy: 5.4577
Epoch 00018: val_loss did not improve from 2.06270
100/100 [=====] - 88s 872ms/step - loss: 2.2455 - dice_soft:
0.4386 - dice_crossentropy: 5.4577 - val_loss: 2.1121 - val_dice_soft: 0.4902 - val_d
ice_crossentropy: 4.6704 - lr: 1.0000e-04
Epoch 19/500
100/100 [=====] - ETA: 0s - loss: 2.1477 - dice_soft: 0.4631
- dice_crossentropy: 5.2948
Epoch 00019: val_loss did not improve from 2.06270
100/100 [=====] - 89s 865ms/step - loss: 2.1477 - dice_soft:
0.4631 - dice_crossentropy: 5.2948 - val_loss: 2.5623 - val_dice_soft: 0.3509 - val_d
ice_crossentropy: 5.3682 - lr: 1.0000e-04
Epoch 20/500
100/100 [=====] - ETA: 0s - loss: 2.2278 - dice_soft: 0.4431
- dice_crossentropy: 5.1597
Epoch 00020: val_loss did not improve from 2.06270
100/100 [=====] - 91s 896ms/step - loss: 2.2278 - dice_soft:
0.4431 - dice_crossentropy: 5.1597 - val_loss: 2.1792 - val_dice_soft: 0.4690 - val_d
ice_crossentropy: 3.9755 - lr: 1.0000e-04
Epoch 21/500
100/100 [=====] - ETA: 0s - loss: 2.2472 - dice_soft: 0.4382
- dice_crossentropy: 5.1590
Epoch 00021: val_loss did not improve from 2.06270
100/100 [=====] - 90s 885ms/step - loss: 2.2472 - dice_soft:
0.4382 - dice_crossentropy: 5.1590 - val_loss: 2.2872 - val_dice_soft: 0.3990 - val_d
ice_crossentropy: 3.8752 - lr: 1.0000e-04
Epoch 22/500
100/100 [=====] - ETA: 0s - loss: 2.1596 - dice_soft: 0.4601
- dice_crossentropy: 4.7964
Epoch 00022: val_loss improved from 2.06270 to 2.05347, saving model to evaluation/fol
d_2/model.hdf5
100/100 [=====] - 90s 878ms/step - loss: 2.1596 - dice_soft:
0.4601 - dice_crossentropy: 4.7964 - val_loss: 2.0535 - val_dice_soft: 0.4849 - val_d
ice_crossentropy: 4.2592 - lr: 1.0000e-04
Epoch 23/500
100/100 [=====] - ETA: 0s - loss: 2.2038 - dice_soft: 0.4490
- dice_crossentropy: 4.8034
Epoch 00023: val_loss did not improve from 2.05347
100/100 [=====] - 88s 874ms/step - loss: 2.2038 - dice_soft:
0.4490 - dice_crossentropy: 4.8034 - val_loss: 2.4125 - val_dice_soft: 0.3992 - val_d
ice_crossentropy: 3.2989 - lr: 1.0000e-04
Epoch 24/500

- dice_crossentropy: 4.4598
Epoch 00024: val_loss improved from 2.05347 to 1.63536, saving model to evaluation/fo
ld_2/model.hdf5
100/100 [=====] - 89s 865ms/step - loss: 2.2634 - dice_soft:
0.4341 - dice_crossentropy: 4.4598 - val_loss: 1.6354 - val_dice_soft: 0.5707 - val_d
ice_crossentropy: 3.8882 - lr: 1.0000e-04
Epoch 25/500
100/100 [=====] - ETA: 0s - loss: 2.1842 - dice_soft: 0.4539
- dice_crossentropy: 4.1560
Epoch 00025: val_loss did not improve from 1.63536
100/100 [=====] - 89s 871ms/step - loss: 2.1842 - dice_soft:
0.4539 - dice_crossentropy: 4.1560 - val_loss: 2.3780 - val_dice_soft: 0.4574 - val_d
ice_crossentropy: 1.7322 - lr: 1.0000e-04
Epoch 26/500
100/100 [=====] - ETA: 0s - loss: 2.1335 - dice_soft: 0.4666
- dice_crossentropy: 4.1191
Epoch 00026: val_loss did not improve from 1.63536
100/100 [=====] - 91s 899ms/step - loss: 2.1335 - dice_soft:
0.4666 - dice_crossentropy: 4.1191 - val_loss: 1.8962 - val_dice_soft: 0.5537 - val_d
ice_crossentropy: 1.5444 - lr: 1.0000e-04
Epoch 27/500
100/100 [=====] - ETA: 0s - loss: 2.0672 - dice_soft: 0.4832
- dice_crossentropy: 3.9010
Epoch 00027: val_loss did not improve from 1.63536
100/100 [=====] - 91s 889ms/step - loss: 2.0672 - dice_soft:
0.4832 - dice_crossentropy: 3.9010 - val_loss: 2.3734 - val_dice_soft: 0.4154 - val_d
ice_crossentropy: 5.2350 - lr: 1.0000e-04
Epoch 28/500
100/100 [=====] - ETA: 0s - loss: 2.0836 - dice_soft: 0.4791
- dice_crossentropy: 4.0632
Epoch 00028: val_loss did not improve from 1.63536
100/100 [=====] - 91s 890ms/step - loss: 2.0836 - dice_soft:
0.4791 - dice_crossentropy: 4.0632 - val_loss: 1.9099 - val_dice_soft: 0.5474 - val_d
ice_crossentropy: 1.6891 - lr: 1.0000e-04
Epoch 29/500
100/100 [=====] - ETA: 0s - loss: 2.1296 - dice_soft: 0.4676
- dice_crossentropy: 3.5815
Epoch 00029: val_loss did not improve from 1.63536
100/100 [=====] - 92s 896ms/step - loss: 2.1296 - dice_soft:
0.4676 - dice_crossentropy: 3.5815 - val_loss: 2.4203 - val_dice_soft: 0.4095 - val_d
ice_crossentropy: 1.1737 - lr: 1.0000e-04
Epoch 30/500
100/100 [=====] - ETA: 0s - loss: 2.0926 - dice_soft: 0.4768
- dice_crossentropy: 3.3414
Epoch 00030: val_loss did not improve from 1.63536
100/100 [=====] - 88s 872ms/step - loss: 2.0926 - dice_soft:
0.4768 - dice_crossentropy: 3.3414 - val_loss: 2.7042 - val_dice_soft: 0.3121 - val_d
ice_crossentropy: 0.9103 - lr: 1.0000e-04
Epoch 31/500
100/100 [=====] - ETA: 0s - loss: 2.0907 - dice_soft: 0.4773
- dice_crossentropy: 3.4629
Epoch 00031: val_loss did not improve from 1.63536
100/100 [=====] - 88s 877ms/step - loss: 2.0907 - dice_soft:
0.4773 - dice_crossentropy: 3.4629 - val_loss: 2.6150 - val_dice_soft: 0.3725 - val_d
ice_crossentropy: 1.5680 - lr: 1.0000e-04
Epoch 32/500
100/100 [=====] - ETA: 0s - loss: 2.0790 - dice_soft: 0.4802
- dice_crossentropy: 3.2591
Epoch 00032: val_loss did not improve from 1.63536
100/100 [=====] - 90s 885ms/step - loss: 2.0790 - dice_soft:
0.4802 - dice_crossentropy: 3.2591 - val_loss: 2.1526 - val_dice_soft: 0.4419 - val_d
ice_crossentropy: 1.5285 - lr: 1.0000e-04
Epoch 33/500
100/100 [=====] - ETA: 0s - loss: 2.0735 - dice_soft: 0.4816
- dice_crossentropy: 3.1255
Epoch 00033: val_loss did not improve from 1.63536

```
100/100 [=====] - loss: 2.0735 - dice_soft:
0.4816 - dice_crossentropy: 3.1255 - val_loss: 1.8990 - val_dice_soft: 0.5410 - val_d
ice_crossentropy: 5.0352 - lr: 1.0000e-04
Epoch 34/500
100/100 [=====] - ETA: 0s - loss: 2.1246 - dice_soft: 0.4689
- dice_crossentropy: 3.1001
Epoch 00034: val_loss did not improve from 1.63536
100/100 [=====] - 92s 881ms/step - loss: 2.1246 - dice_soft:
0.4689 - dice_crossentropy: 3.1001 - val_loss: 1.8920 - val_dice_soft: 0.5509 - val_d
ice_crossentropy: 0.5985 - lr: 1.0000e-04
Epoch 35/500
100/100 [=====] - ETA: 0s - loss: 2.0569 - dice_soft: 0.4858
- dice_crossentropy: 2.9911
Epoch 00035: val_loss did not improve from 1.63536
100/100 [=====] - 91s 883ms/step - loss: 2.0569 - dice_soft:
0.4858 - dice_crossentropy: 2.9911 - val_loss: 2.8228 - val_dice_soft: 0.2830 - val_d
ice_crossentropy: 34.7986 - lr: 1.0000e-04
Epoch 36/500
100/100 [=====] - ETA: 0s - loss: 2.0688 - dice_soft: 0.4828
- dice_crossentropy: 3.2189
Epoch 00036: val_loss did not improve from 1.63536
100/100 [=====] - 89s 869ms/step - loss: 2.0688 - dice_soft:
0.4828 - dice_crossentropy: 3.2189 - val_loss: 2.2527 - val_dice_soft: 0.4751 - val_d
ice_crossentropy: 0.5443 - lr: 1.0000e-04
Epoch 37/500
100/100 [=====] - ETA: 0s - loss: 2.0079 - dice_soft: 0.4980
- dice_crossentropy: 4.6950
Epoch 00037: val_loss did not improve from 1.63536
100/100 [=====] - 90s 902ms/step - loss: 2.0079 - dice_soft:
0.4980 - dice_crossentropy: 4.6950 - val_loss: 1.9838 - val_dice_soft: 0.4804 - val_d
ice_crossentropy: 3.4947 - lr: 1.0000e-04
Epoch 38/500
100/100 [=====] - ETA: 0s - loss: 1.9806 - dice_soft: 0.5048
- dice_crossentropy: 3.9144
Epoch 00038: val_loss did not improve from 1.63536
100/100 [=====] - 91s 878ms/step - loss: 1.9806 - dice_soft:
0.5048 - dice_crossentropy: 3.9144 - val_loss: 2.0316 - val_dice_soft: 0.4192 - val_d
ice_crossentropy: 4.0931 - lr: 1.0000e-04
Epoch 39/500
100/100 [=====] - ETA: 0s - loss: 1.8842 - dice_soft: 0.5289
- dice_crossentropy: 5.8846
Epoch 00039: val_loss did not improve from 1.63536
100/100 [=====] - 89s 874ms/step - loss: 1.8842 - dice_soft:
0.5289 - dice_crossentropy: 5.8846 - val_loss: 2.9852 - val_dice_soft: 0.2692 - val_d
ice_crossentropy: 160.2207 - lr: 1.0000e-04
Epoch 40/500
100/100 [=====] - ETA: 0s - loss: 2.0537 - dice_soft: 0.4866
- dice_crossentropy: 5.9730
Epoch 00040: val_loss did not improve from 1.63536
100/100 [=====] - 90s 876ms/step - loss: 2.0537 - dice_soft:
0.4866 - dice_crossentropy: 5.9730 - val_loss: 2.6611 - val_dice_soft: 0.3490 - val_d
ice_crossentropy: 37.2177 - lr: 1.0000e-04
Epoch 41/500
100/100 [=====] - ETA: 0s - loss: 1.9810 - dice_soft: 0.5048
- dice_crossentropy: 5.6771
Epoch 00041: val_loss did not improve from 1.63536
100/100 [=====] - 92s 898ms/step - loss: 1.9810 - dice_soft:
0.5048 - dice_crossentropy: 5.6771 - val_loss: 2.0045 - val_dice_soft: 0.4985 - val_d
ice_crossentropy: 8.7842 - lr: 1.0000e-04
Epoch 42/500
100/100 [=====] - ETA: 0s - loss: 1.9453 - dice_soft: 0.5137
- dice_crossentropy: 5.5190
Epoch 00042: val_loss did not improve from 1.63536
100/100 [=====] - 87s 860ms/step - loss: 1.9453 - dice_soft:
0.5137 - dice_crossentropy: 5.5190 - val_loss: 2.0728 - val_dice_soft: 0.4799 - val_d
ice_crossentropy: 46.2250 - lr: 1.0000e-04
```

```
Epoch 43/500
100/100 [=====] - ETA: 0s - loss: 1.9313 - dice_soft: 0.5172
- dice_crossentropy: 5.4186
Epoch 00043: val_loss did not improve from 1.63536
100/100 [=====] - 88s 863ms/step - loss: 1.9313 - dice_soft:
0.5172 - dice_crossentropy: 5.4186 - val_loss: 1.8826 - val_dice_soft: 0.5114 - val_d
ice_crossentropy: 0.5609 - lr: 1.0000e-04
Epoch 44/500
100/100 [=====] - ETA: 0s - loss: 1.9078 - dice_soft: 0.5230
- dice_crossentropy: 4.7744
Epoch 00044: val_loss did not improve from 1.63536
100/100 [=====] - 93s 907ms/step - loss: 1.9078 - dice_soft:
0.5230 - dice_crossentropy: 4.7744 - val_loss: 2.0811 - val_dice_soft: 0.4195 - val_d
ice_crossentropy: 31.6612 - lr: 1.0000e-04
Epoch 45/500
100/100 [=====] - ETA: 0s - loss: 1.8269 - dice_soft: 0.5433
- dice_crossentropy: 4.6874
Epoch 00045: val_loss did not improve from 1.63536
100/100 [=====] - 88s 867ms/step - loss: 1.8269 - dice_soft:
0.5433 - dice_crossentropy: 4.6874 - val_loss: 1.9830 - val_dice_soft: 0.4507 - val_d
ice_crossentropy: 0.6528 - lr: 1.0000e-04
Epoch 46/500
100/100 [=====] - ETA: 0s - loss: 1.7474 - dice_soft: 0.5631
- dice_crossentropy: 4.3314
Epoch 00046: val_loss did not improve from 1.63536
100/100 [=====] - 90s 876ms/step - loss: 1.7474 - dice_soft:
0.5631 - dice_crossentropy: 4.3314 - val_loss: 2.2955 - val_dice_soft: 0.4314 - val_d
ice_crossentropy: 0.6391 - lr: 1.0000e-04
Epoch 47/500
100/100 [=====] - ETA: 0s - loss: 1.8214 - dice_soft: 0.5446
- dice_crossentropy: 4.6062
Epoch 00047: val_loss did not improve from 1.63536
100/100 [=====] - 93s 891ms/step - loss: 1.8214 - dice_soft:
0.5446 - dice_crossentropy: 4.6062 - val_loss: 2.3986 - val_dice_soft: 0.4041 - val_d
ice_crossentropy: 1.7900 - lr: 1.0000e-04
Epoch 48/500
100/100 [=====] - ETA: 0s - loss: 1.8853 - dice_soft: 0.5287
- dice_crossentropy: 4.2062
Epoch 00048: val_loss improved from 1.63536 to 1.56423, saving model to evaluation/fold_2/model.hdf5
100/100 [=====] - 91s 901ms/step - loss: 1.8853 - dice_soft:
0.5287 - dice_crossentropy: 4.2062 - val_loss: 1.5642 - val_dice_soft: 0.5542 - val_d
ice_crossentropy: 28.4267 - lr: 1.0000e-04
Epoch 49/500
100/100 [=====] - ETA: 0s - loss: 1.8454 - dice_soft: 0.5386
- dice_crossentropy: 4.2028
Epoch 00049: val_loss did not improve from 1.56423
100/100 [=====] - 88s 870ms/step - loss: 1.8454 - dice_soft:
0.5386 - dice_crossentropy: 4.2028 - val_loss: 2.2050 - val_dice_soft: 0.4636 - val_d
ice_crossentropy: 12.5707 - lr: 1.0000e-04
Epoch 50/500
100/100 [=====] - ETA: 0s - loss: 1.8483 - dice_soft: 0.5379
- dice_crossentropy: 4.2181
Epoch 00050: val_loss did not improve from 1.56423
100/100 [=====] - 92s 886ms/step - loss: 1.8483 - dice_soft:
0.5379 - dice_crossentropy: 4.2181 - val_loss: 1.9168 - val_dice_soft: 0.5226 - val_d
ice_crossentropy: 0.5966 - lr: 1.0000e-04
Epoch 51/500
100/100 [=====] - ETA: 0s - loss: 1.8875 - dice_soft: 0.5281
- dice_crossentropy: 3.7924
Epoch 00051: val_loss did not improve from 1.56423
100/100 [=====] - 90s 893ms/step - loss: 1.8875 - dice_soft:
0.5281 - dice_crossentropy: 3.7924 - val_loss: 2.5308 - val_dice_soft: 0.3842 - val_d
ice_crossentropy: 4.4241 - lr: 1.0000e-04
Epoch 52/500
Loading [MathJax]/extensions/Safe.js [=====] - ETA: 0s - loss: 1.9037 - dice_soft: 0.5241
```

- dice_crossentropy: 3.5735
Epoch 00052: val_loss did not improve from 1.56423
100/100 [=====] - 91s 898ms/step - loss: 1.9037 - dice_soft:
0.5241 - dice_crossentropy: 3.5735 - val_loss: 1.8747 - val_dice_soft: 0.4960 - val_d
ice_crossentropy: 0.7792 - lr: 1.0000e-04
Epoch 53/500
100/100 [=====] - ETA: 0s - loss: 1.7653 - dice_soft: 0.5587
- dice_crossentropy: 2.9575
Epoch 00053: val_loss did not improve from 1.56423
100/100 [=====] - 92s 900ms/step - loss: 1.7653 - dice_soft:
0.5587 - dice_crossentropy: 2.9575 - val_loss: 1.6317 - val_dice_soft: 0.6398 - val_d
ice_crossentropy: 0.5620 - lr: 1.0000e-04
Epoch 54/500
100/100 [=====] - ETA: 0s - loss: 1.7733 - dice_soft: 0.5567
- dice_crossentropy: 2.6633
Epoch 00054: val_loss did not improve from 1.56423
100/100 [=====] - 92s 881ms/step - loss: 1.7733 - dice_soft:
0.5567 - dice_crossentropy: 2.6633 - val_loss: 2.1630 - val_dice_soft: 0.4692 - val_d
ice_crossentropy: 0.6235 - lr: 1.0000e-04
Epoch 55/500
100/100 [=====] - ETA: 0s - loss: 1.7507 - dice_soft: 0.5623
- dice_crossentropy: 1.8173
Epoch 00055: val_loss did not improve from 1.56423
100/100 [=====] - 89s 886ms/step - loss: 1.7507 - dice_soft:
0.5623 - dice_crossentropy: 1.8173 - val_loss: 2.1418 - val_dice_soft: 0.5023 - val_d
ice_crossentropy: 0.6004 - lr: 1.0000e-04
Epoch 56/500
100/100 [=====] - ETA: 0s - loss: 1.7430 - dice_soft: 0.5642
- dice_crossentropy: 0.9857
Epoch 00056: val_loss did not improve from 1.56423
100/100 [=====] - 89s 877ms/step - loss: 1.7430 - dice_soft:
0.5642 - dice_crossentropy: 0.9857 - val_loss: 2.3591 - val_dice_soft: 0.4019 - val_d
ice_crossentropy: 47.2608 - lr: 1.0000e-04
Epoch 57/500
100/100 [=====] - ETA: 0s - loss: 1.7004 - dice_soft: 0.5749
- dice_crossentropy: 0.8089
Epoch 00057: val_loss did not improve from 1.56423
100/100 [=====] - 90s 875ms/step - loss: 1.7004 - dice_soft:
0.5749 - dice_crossentropy: 0.8089 - val_loss: 1.9963 - val_dice_soft: 0.5516 - val_d
ice_crossentropy: 0.5083 - lr: 1.0000e-04
Epoch 58/500
100/100 [=====] - ETA: 0s - loss: 1.6058 - dice_soft: 0.5986
- dice_crossentropy: 0.6467
Epoch 00058: val_loss did not improve from 1.56423
100/100 [=====] - 93s 912ms/step - loss: 1.6058 - dice_soft:
0.5986 - dice_crossentropy: 0.6467 - val_loss: 2.0921 - val_dice_soft: 0.4976 - val_d
ice_crossentropy: 0.6758 - lr: 1.0000e-04
Epoch 59/500
100/100 [=====] - ETA: 0s - loss: 1.5352 - dice_soft: 0.6162
- dice_crossentropy: 0.6500
Epoch 00059: val_loss improved from 1.56423 to 1.06870, saving model to evaluation/fol
d_2/model.hdf5
100/100 [=====] - 89s 863ms/step - loss: 1.5352 - dice_soft:
0.6162 - dice_crossentropy: 0.6500 - val_loss: 1.0687 - val_dice_soft: 0.7327 - val_d
ice_crossentropy: 0.6705 - lr: 1.0000e-04
Epoch 60/500
100/100 [=====] - ETA: 0s - loss: 1.5570 - dice_soft: 0.6107
- dice_crossentropy: 0.6537
Epoch 00060: val_loss did not improve from 1.06870
100/100 [=====] - 92s 903ms/step - loss: 1.5570 - dice_soft:
0.6107 - dice_crossentropy: 0.6537 - val_loss: 1.6532 - val_dice_soft: 0.5325 - val_d
ice_crossentropy: 1.3631 - lr: 1.0000e-04
Epoch 61/500
100/100 [=====] - ETA: 0s - loss: 1.6389 - dice_soft: 0.5903
- dice_crossentropy: 0.6775
Epoch 00061: val_loss did not improve from 1.06870

```
100/100 [=====] - 93s 893ms/step - loss: 1.6389 - dice_soft:
  0.5903 - dice_crossentropy: 0.6775 - val_loss: 1.9435 - val_dice_soft: 0.5293 - val_d
ice_crossentropy: 0.6024 - lr: 1.0000e-04
Epoch 62/500
100/100 [=====] - ETA: 0s - loss: 1.7136 - dice_soft: 0.5716
  - dice_crossentropy: 0.6576
Epoch 00062: val_loss improved from 1.06870 to 1.01756, saving model to evaluation/fol
d_2/model.hdf5
100/100 [=====] - 92s 916ms/step - loss: 1.7136 - dice_soft:
  0.5716 - dice_crossentropy: 0.6576 - val_loss: 1.0176 - val_dice_soft: 0.7170 - val_d
ice_crossentropy: 0.6112 - lr: 1.0000e-04
Epoch 63/500
100/100 [=====] - ETA: 0s - loss: 1.5145 - dice_soft: 0.6214
  - dice_crossentropy: 0.6368
Epoch 00063: val_loss did not improve from 1.01756
100/100 [=====] - 89s 871ms/step - loss: 1.5145 - dice_soft:
  0.6214 - dice_crossentropy: 0.6368 - val_loss: 1.8415 - val_dice_soft: 0.5085 - val_d
ice_crossentropy: 0.6298 - lr: 1.0000e-04
Epoch 64/500
100/100 [=====] - ETA: 0s - loss: 1.5157 - dice_soft: 0.6211
  - dice_crossentropy: 0.6578
Epoch 00064: val_loss did not improve from 1.01756
100/100 [=====] - 90s 875ms/step - loss: 1.5157 - dice_soft:
  0.6211 - dice_crossentropy: 0.6578 - val_loss: 1.9163 - val_dice_soft: 0.4287 - val_d
ice_crossentropy: 0.6832 - lr: 1.0000e-04
Epoch 65/500
100/100 [=====] - ETA: 0s - loss: 1.5080 - dice_soft: 0.6230
  - dice_crossentropy: 0.6277
Epoch 00065: val_loss did not improve from 1.01756
100/100 [=====] - 93s 921ms/step - loss: 1.5080 - dice_soft:
  0.6230 - dice_crossentropy: 0.6277 - val_loss: 1.9754 - val_dice_soft: 0.5197 - val_d
ice_crossentropy: 0.6407 - lr: 1.0000e-04
Epoch 66/500
100/100 [=====] - ETA: 0s - loss: 1.7092 - dice_soft: 0.5727
  - dice_crossentropy: 0.6651
Epoch 00066: val_loss did not improve from 1.01756
100/100 [=====] - 89s 871ms/step - loss: 1.7092 - dice_soft:
  0.5727 - dice_crossentropy: 0.6651 - val_loss: 2.0235 - val_dice_soft: 0.5397 - val_d
ice_crossentropy: 0.6718 - lr: 1.0000e-04
Epoch 67/500
100/100 [=====] - ETA: 0s - loss: 1.6764 - dice_soft: 0.5809
  - dice_crossentropy: 0.6539
Epoch 00067: val_loss did not improve from 1.01756
100/100 [=====] - 91s 888ms/step - loss: 1.6764 - dice_soft:
  0.5809 - dice_crossentropy: 0.6539 - val_loss: 1.1289 - val_dice_soft: 0.6753 - val_d
ice_crossentropy: 0.5264 - lr: 1.0000e-04
Epoch 68/500
100/100 [=====] - ETA: 0s - loss: 1.5909 - dice_soft: 0.6023
  - dice_crossentropy: 0.6413
Epoch 00068: val_loss did not improve from 1.01756
100/100 [=====] - 90s 891ms/step - loss: 1.5909 - dice_soft:
  0.6023 - dice_crossentropy: 0.6413 - val_loss: 2.2055 - val_dice_soft: 0.4723 - val_d
ice_crossentropy: 0.6399 - lr: 1.0000e-04
Epoch 69/500
100/100 [=====] - ETA: 0s - loss: 1.5750 - dice_soft: 0.6062
  - dice_crossentropy: 0.6352
Epoch 00069: val_loss did not improve from 1.01756
100/100 [=====] - 88s 875ms/step - loss: 1.5750 - dice_soft:
  0.6062 - dice_crossentropy: 0.6352 - val_loss: 1.9953 - val_dice_soft: 0.5178 - val_d
ice_crossentropy: 0.5672 - lr: 1.0000e-04
Epoch 70/500
100/100 [=====] - ETA: 0s - loss: 1.5052 - dice_soft: 0.6237
  - dice_crossentropy: 0.6116
Epoch 00070: val_loss did not improve from 1.01756
100/100 [=====] - 92s 896ms/step - loss: 1.5052 - dice_soft:
  0.6237 - dice_crossentropy: 0.6116 - val_loss: 1.7241 - val_dice_soft: 0.5986 - val_d
```

dice_crossentropy: 0.6177 - lr: 1.0000e-04
Epoch 71/500
100/100 [=====] - ETA: 0s - loss: 1.6005 - dice_soft: 0.5999
- dice_crossentropy: 0.6358
Epoch 00071: val_loss did not improve from 1.01756
100/100 [=====] - 90s 881ms/step - loss: 1.6005 - dice_soft:
0.5999 - dice_crossentropy: 0.6358 - val_loss: 1.9530 - val_dice_soft: 0.4650 - val_d
ice_crossentropy: 0.6290 - lr: 1.0000e-04
Epoch 72/500
100/100 [=====] - ETA: 0s - loss: 1.5235 - dice_soft: 0.6191
- dice_crossentropy: 0.6170
Epoch 00072: val_loss did not improve from 1.01756
100/100 [=====] - 90s 873ms/step - loss: 1.5235 - dice_soft:
0.6191 - dice_crossentropy: 0.6170 - val_loss: 1.8441 - val_dice_soft: 0.5089 - val_d
ice_crossentropy: 0.5904 - lr: 1.0000e-04
Epoch 73/500
100/100 [=====] - ETA: 0s - loss: 1.5748 - dice_soft: 0.6063
- dice_crossentropy: 0.6175
Epoch 00073: val_loss did not improve from 1.01756
100/100 [=====] - 88s 875ms/step - loss: 1.5748 - dice_soft:
0.6063 - dice_crossentropy: 0.6175 - val_loss: 1.0820 - val_dice_soft: 0.7188 - val_d
ice_crossentropy: 0.4083 - lr: 1.0000e-04
Epoch 74/500
100/100 [=====] - ETA: 0s - loss: 1.5328 - dice_soft: 0.6168
- dice_crossentropy: 0.6091
Epoch 00074: val_loss improved from 1.01756 to 0.76654, saving model to evaluation/fol
d_2/model.hdf5
100/100 [=====] - 90s 876ms/step - loss: 1.5328 - dice_soft:
0.6168 - dice_crossentropy: 0.6091 - val_loss: 0.7665 - val_dice_soft: 0.8222 - val_d
ice_crossentropy: 0.3608 - lr: 1.0000e-04
Epoch 75/500
100/100 [=====] - ETA: 0s - loss: 1.5807 - dice_soft: 0.6048
- dice_crossentropy: 0.6306
Epoch 00075: val_loss did not improve from 0.76654
100/100 [=====] - 90s 894ms/step - loss: 1.5807 - dice_soft:
0.6048 - dice_crossentropy: 0.6306 - val_loss: 1.5468 - val_dice_soft: 0.6892 - val_d
ice_crossentropy: 0.5061 - lr: 1.0000e-04
Epoch 76/500
100/100 [=====] - ETA: 0s - loss: 1.4566 - dice_soft: 0.6358
- dice_crossentropy: 0.5761
Epoch 00076: val_loss did not improve from 0.76654
100/100 [=====] - 90s 862ms/step - loss: 1.4566 - dice_soft:
0.6358 - dice_crossentropy: 0.5761 - val_loss: 1.7467 - val_dice_soft: 0.6425 - val_d
ice_crossentropy: 0.5452 - lr: 1.0000e-04
Epoch 77/500
100/100 [=====] - ETA: 0s - loss: 1.5008 - dice_soft: 0.6248
- dice_crossentropy: 0.5969
Epoch 00077: val_loss did not improve from 0.76654
100/100 [=====] - 92s 896ms/step - loss: 1.5008 - dice_soft:
0.6248 - dice_crossentropy: 0.5969 - val_loss: 1.5342 - val_dice_soft: 0.6015 - val_d
ice_crossentropy: 0.5235 - lr: 1.0000e-04
Epoch 78/500
100/100 [=====] - ETA: 0s - loss: 1.5631 - dice_soft: 0.6092
- dice_crossentropy: 0.6047
Epoch 00078: val_loss did not improve from 0.76654
100/100 [=====] - 95s 919ms/step - loss: 1.5631 - dice_soft:
0.6092 - dice_crossentropy: 0.6047 - val_loss: 0.9158 - val_dice_soft: 0.8081 - val_d
ice_crossentropy: 0.3683 - lr: 1.0000e-04
Epoch 79/500
100/100 [=====] - ETA: 0s - loss: 1.6330 - dice_soft: 0.5918
- dice_crossentropy: 0.6195
Epoch 00079: val_loss did not improve from 0.76654
100/100 [=====] - 90s 887ms/step - loss: 1.6330 - dice_soft:
0.5918 - dice_crossentropy: 0.6195 - val_loss: 1.8002 - val_dice_soft: 0.5332 - val_d
ice_crossentropy: 0.6855 - lr: 1.0000e-04


```
100/100 [=====] - ETA: 0s - loss: 1.5532 - dice_soft: 0.6117
- dice_crossentropy: 0.5993
Epoch 00080: val_loss did not improve from 0.76654
100/100 [=====] - 89s 881ms/step - loss: 1.5532 - dice_soft:
0.6117 - dice_crossentropy: 0.5993 - val_loss: 2.0617 - val_dice_soft: 0.5169 - val_d
ice_crossentropy: 0.5175 - lr: 1.0000e-04
Epoch 81/500
100/100 [=====] - ETA: 0s - loss: 1.3972 - dice_soft: 0.6507
- dice_crossentropy: 0.5604
Epoch 00081: val_loss did not improve from 0.76654
100/100 [=====] - 90s 893ms/step - loss: 1.3972 - dice_soft:
0.6507 - dice_crossentropy: 0.5604 - val_loss: 1.3770 - val_dice_soft: 0.6595 - val_d
ice_crossentropy: 0.4383 - lr: 1.0000e-04
Epoch 82/500
100/100 [=====] - ETA: 0s - loss: 1.5006 - dice_soft: 0.6249
- dice_crossentropy: 0.5851
Epoch 00082: val_loss did not improve from 0.76654
100/100 [=====] - 92s 878ms/step - loss: 1.5006 - dice_soft:
0.6249 - dice_crossentropy: 0.5851 - val_loss: 1.1649 - val_dice_soft: 0.7466 - val_d
ice_crossentropy: 0.4314 - lr: 1.0000e-04
Epoch 83/500
100/100 [=====] - ETA: 0s - loss: 1.5593 - dice_soft: 0.6102
- dice_crossentropy: 0.5924
Epoch 00083: val_loss did not improve from 0.76654
100/100 [=====] - 90s 881ms/step - loss: 1.5593 - dice_soft:
0.6102 - dice_crossentropy: 0.5924 - val_loss: 1.6925 - val_dice_soft: 0.6393 - val_d
ice_crossentropy: 0.5199 - lr: 1.0000e-04
Epoch 84/500
100/100 [=====] - ETA: 0s - loss: 1.6248 - dice_soft: 0.5938
- dice_crossentropy: 0.6207
Epoch 00084: val_loss did not improve from 0.76654
100/100 [=====] - 91s 878ms/step - loss: 1.6248 - dice_soft:
0.5938 - dice_crossentropy: 0.6207 - val_loss: 1.2539 - val_dice_soft: 0.6426 - val_d
ice_crossentropy: 0.4893 - lr: 1.0000e-04
Epoch 85/500
100/100 [=====] - ETA: 0s - loss: 1.5366 - dice_soft: 0.6159
- dice_crossentropy: 0.5870
Epoch 00085: val_loss did not improve from 0.76654
100/100 [=====] - 88s 875ms/step - loss: 1.5366 - dice_soft:
0.6159 - dice_crossentropy: 0.5870 - val_loss: 1.3020 - val_dice_soft: 0.6158 - val_d
ice_crossentropy: 0.5613 - lr: 1.0000e-04
Epoch 86/500
100/100 [=====] - ETA: 0s - loss: 1.6511 - dice_soft: 0.5872
- dice_crossentropy: 0.6124
Epoch 00086: val_loss did not improve from 0.76654
100/100 [=====] - 91s 880ms/step - loss: 1.6511 - dice_soft:
0.5872 - dice_crossentropy: 0.6124 - val_loss: 1.1247 - val_dice_soft: 0.6954 - val_d
ice_crossentropy: 0.4882 - lr: 1.0000e-04
Epoch 87/500
100/100 [=====] - ETA: 0s - loss: 1.5423 - dice_soft: 0.6144
- dice_crossentropy: 0.5853
Epoch 00087: val_loss improved from 0.76654 to 0.57173, saving model to evaluation/fol
d_2/model.hdf5
100/100 [=====] - 92s 915ms/step - loss: 1.5423 - dice_soft:
0.6144 - dice_crossentropy: 0.5853 - val_loss: 0.5717 - val_dice_soft: 0.8557 - val_d
ice_crossentropy: 0.3614 - lr: 1.0000e-04
Epoch 88/500
100/100 [=====] - ETA: 0s - loss: 1.4979 - dice_soft: 0.6255
- dice_crossentropy: 0.5973
Epoch 00088: val_loss did not improve from 0.57173
100/100 [=====] - 91s 899ms/step - loss: 1.4979 - dice_soft:
0.6255 - dice_crossentropy: 0.5973 - val_loss: 1.8114 - val_dice_soft: 0.5511 - val_d
ice_crossentropy: 0.5926 - lr: 1.0000e-04
Epoch 89/500
100/100 [=====] - ETA: 0s - loss: 1.5069 - dice_soft: 0.6233
- dice_crossentropy: 0.5873
```

Epoch 00089: val_loss did not improve from 0.57173
100/100 [=====] - 92s 895ms/step - loss: 1.5069 - dice_soft:
0.6233 - dice_crossentropy: 0.5873 - val_loss: 1.1869 - val_dice_soft: 0.6920 - val_d
ice_crossentropy: 0.4852 - lr: 1.0000e-04
Epoch 90/500
100/100 [=====] - ETA: 0s - loss: 1.4935 - dice_soft: 0.6266
- dice_crossentropy: 0.5801
Epoch 00090: val_loss did not improve from 0.57173
100/100 [=====] - 90s 877ms/step - loss: 1.4935 - dice_soft:
0.6266 - dice_crossentropy: 0.5801 - val_loss: 1.1166 - val_dice_soft: 0.7099 - val_d
ice_crossentropy: 0.4721 - lr: 1.0000e-04
Epoch 91/500
100/100 [=====] - ETA: 0s - loss: 1.7382 - dice_soft: 0.5654
- dice_crossentropy: 0.6571
Epoch 00091: val_loss did not improve from 0.57173
100/100 [=====] - 88s 852ms/step - loss: 1.7382 - dice_soft:
0.5654 - dice_crossentropy: 0.6571 - val_loss: 1.6773 - val_dice_soft: 0.6105 - val_d
ice_crossentropy: 0.8190 - lr: 1.0000e-04
Epoch 92/500
100/100 [=====] - ETA: 0s - loss: 1.6036 - dice_soft: 0.5991
- dice_crossentropy: 0.6483
Epoch 00092: val_loss did not improve from 0.57173
100/100 [=====] - 90s 881ms/step - loss: 1.6036 - dice_soft:
0.5991 - dice_crossentropy: 0.6483 - val_loss: 1.8623 - val_dice_soft: 0.5464 - val_d
ice_crossentropy: 0.5755 - lr: 1.0000e-04
Epoch 93/500
100/100 [=====] - ETA: 0s - loss: 1.5825 - dice_soft: 0.6044
- dice_crossentropy: 0.6013
Epoch 00093: val_loss did not improve from 0.57173
100/100 [=====] - 90s 885ms/step - loss: 1.5825 - dice_soft:
0.6044 - dice_crossentropy: 0.6013 - val_loss: 1.7806 - val_dice_soft: 0.6276 - val_d
ice_crossentropy: 0.5673 - lr: 1.0000e-04
Epoch 94/500
100/100 [=====] - ETA: 0s - loss: 1.5885 - dice_soft: 0.6029
- dice_crossentropy: 0.5887
Epoch 00094: val_loss did not improve from 0.57173
100/100 [=====] - 89s 877ms/step - loss: 1.5885 - dice_soft:
0.6029 - dice_crossentropy: 0.5887 - val_loss: 1.5439 - val_dice_soft: 0.5665 - val_d
ice_crossentropy: 0.5180 - lr: 1.0000e-04
Epoch 95/500
100/100 [=====] - ETA: 0s - loss: 1.4834 - dice_soft: 0.6291
- dice_crossentropy: 0.5672
Epoch 00095: val_loss did not improve from 0.57173
100/100 [=====] - 91s 898ms/step - loss: 1.4834 - dice_soft:
0.6291 - dice_crossentropy: 0.5672 - val_loss: 2.0119 - val_dice_soft: 0.4976 - val_d
ice_crossentropy: 0.6687 - lr: 1.0000e-04
Epoch 96/500
100/100 [=====] - ETA: 0s - loss: 1.6132 - dice_soft: 0.5967
- dice_crossentropy: 0.5835
Epoch 00096: val_loss did not improve from 0.57173
100/100 [=====] - 90s 897ms/step - loss: 1.6132 - dice_soft:
0.5967 - dice_crossentropy: 0.5835 - val_loss: 1.1899 - val_dice_soft: 0.7505 - val_d
ice_crossentropy: 0.3733 - lr: 1.0000e-04
Epoch 97/500
100/100 [=====] - ETA: 0s - loss: 1.2874 - dice_soft: 0.6781
- dice_crossentropy: 0.5218
Epoch 00097: val_loss did not improve from 0.57173
100/100 [=====] - 88s 874ms/step - loss: 1.2874 - dice_soft:
0.6781 - dice_crossentropy: 0.5218 - val_loss: 0.6798 - val_dice_soft: 0.8329 - val_d
ice_crossentropy: 0.2845 - lr: 1.0000e-04
Epoch 98/500
100/100 [=====] - ETA: 0s - loss: 1.4638 - dice_soft: 0.6341
- dice_crossentropy: 0.5595
Epoch 00098: val_loss did not improve from 0.57173
100/100 [=====] - 89s 864ms/step - loss: 1.4638 - dice_soft:
0.6341 - dice_crossentropy: 0.5595 - val_loss: 1.9279 - val_dice_soft: 0.4828 - val_d

dice_crossentropy: 0.6223 - lr: 1.0000e-04
Epoch 99/500
100/100 [=====] - ETA: 0s - loss: 1.5480 - dice_soft: 0.6130
- dice_crossentropy: 0.5825
Epoch 00099: val_loss did not improve from 0.57173
100/100 [=====] - 90s 879ms/step - loss: 1.5480 - dice_soft:
0.6130 - dice_crossentropy: 0.5825 - val_loss: 2.1285 - val_dice_soft: 0.3917 - val_d
ice_crossentropy: 0.6715 - lr: 1.0000e-04
Epoch 100/500
100/100 [=====] - ETA: 0s - loss: 1.6572 - dice_soft: 0.5857
- dice_crossentropy: 0.6018
Epoch 00100: val_loss did not improve from 0.57173
100/100 [=====] - 89s 865ms/step - loss: 1.6572 - dice_soft:
0.5857 - dice_crossentropy: 0.6018 - val_loss: 1.2169 - val_dice_soft: 0.6409 - val_d
ice_crossentropy: 0.4781 - lr: 1.0000e-04
Epoch 101/500
100/100 [=====] - ETA: 0s - loss: 1.5760 - dice_soft: 0.6060
- dice_crossentropy: 0.5964
Epoch 00101: val_loss did not improve from 0.57173
100/100 [=====] - 91s 902ms/step - loss: 1.5760 - dice_soft:
0.6060 - dice_crossentropy: 0.5964 - val_loss: 1.9525 - val_dice_soft: 0.4998 - val_d
ice_crossentropy: 0.5806 - lr: 1.0000e-04
Epoch 102/500
100/100 [=====] - ETA: 0s - loss: 1.4442 - dice_soft: 0.6390
- dice_crossentropy: 0.5600
Epoch 00102: val_loss did not improve from 0.57173
100/100 [=====] - 91s 891ms/step - loss: 1.4442 - dice_soft:
0.6390 - dice_crossentropy: 0.5600 - val_loss: 1.4244 - val_dice_soft: 0.6674 - val_d
ice_crossentropy: 0.5139 - lr: 1.0000e-04
Epoch 103/500
100/100 [=====] - ETA: 0s - loss: 1.4811 - dice_soft: 0.6297
- dice_crossentropy: 0.5687
Epoch 00103: val_loss did not improve from 0.57173
100/100 [=====] - 90s 874ms/step - loss: 1.4811 - dice_soft:
0.6297 - dice_crossentropy: 0.5687 - val_loss: 0.8076 - val_dice_soft: 0.7933 - val_d
ice_crossentropy: 0.4192 - lr: 1.0000e-04
Epoch 104/500
100/100 [=====] - ETA: 0s - loss: 1.5115 - dice_soft: 0.6221
- dice_crossentropy: 0.5727
Epoch 00104: val_loss did not improve from 0.57173
100/100 [=====] - 89s 876ms/step - loss: 1.5115 - dice_soft:
0.6221 - dice_crossentropy: 0.5727 - val_loss: 1.5824 - val_dice_soft: 0.5215 - val_d
ice_crossentropy: 0.5527 - lr: 1.0000e-04
Epoch 105/500
100/100 [=====] - ETA: 0s - loss: 1.6231 - dice_soft: 0.5942
- dice_crossentropy: 0.5882
Epoch 00105: val_loss did not improve from 0.57173
100/100 [=====] - 91s 879ms/step - loss: 1.6231 - dice_soft:
0.5942 - dice_crossentropy: 0.5882 - val_loss: 1.6992 - val_dice_soft: 0.5502 - val_d
ice_crossentropy: 0.4823 - lr: 1.0000e-04
Epoch 106/500
100/100 [=====] - ETA: 0s - loss: 1.4851 - dice_soft: 0.6287
- dice_crossentropy: 0.5586
Epoch 00106: val_loss did not improve from 0.57173
100/100 [=====] - 92s 912ms/step - loss: 1.4851 - dice_soft:
0.6287 - dice_crossentropy: 0.5586 - val_loss: 0.8400 - val_dice_soft: 0.7697 - val_d
ice_crossentropy: 0.3194 - lr: 1.0000e-04
Epoch 107/500
100/100 [=====] - ETA: 0s - loss: 1.6126 - dice_soft: 0.5968
- dice_crossentropy: 0.5852
Epoch 00107: val_loss did not improve from 0.57173
100/100 [=====] - 89s 884ms/step - loss: 1.6126 - dice_soft:
0.5968 - dice_crossentropy: 0.5852 - val_loss: 1.4588 - val_dice_soft: 0.5732 - val_d
ice_crossentropy: 0.5882 - lr: 1.0000e-04
Epoch 108/500
100/100 [=====] - ETA: 0s - loss: 1.5073 - dice_soft: 0.6232

- dice_crossentropy: 0.5665
Epoch 00108: val_loss did not improve from 0.57173
100/100 [=====] - 88s 874ms/step - loss: 1.5073 - dice_soft:
0.6232 - dice_crossentropy: 0.5665 - val_loss: 1.1689 - val_dice_soft: 0.6568 - val_d
ice_crossentropy: 0.4612 - lr: 1.0000e-04
Epoch 109/500
100/100 [=====] - ETA: 0s - loss: 1.3354 - dice_soft: 0.6662
- dice_crossentropy: 0.5298
Epoch 00109: val_loss did not improve from 0.57173
100/100 [=====] - 92s 874ms/step - loss: 1.3354 - dice_soft:
0.6662 - dice_crossentropy: 0.5298 - val_loss: 1.0085 - val_dice_soft: 0.7373 - val_d
ice_crossentropy: 0.3638 - lr: 1.0000e-04
Epoch 110/500
100/100 [=====] - ETA: 0s - loss: 1.5098 - dice_soft: 0.6226
- dice_crossentropy: 0.5737
Epoch 00110: val_loss did not improve from 0.57173
100/100 [=====] - 92s 894ms/step - loss: 1.5098 - dice_soft:
0.6226 - dice_crossentropy: 0.5737 - val_loss: 2.5057 - val_dice_soft: 0.3871 - val_d
ice_crossentropy: 0.6400 - lr: 1.0000e-04
Epoch 111/500
100/100 [=====] - ETA: 0s - loss: 1.4845 - dice_soft: 0.6289
- dice_crossentropy: 0.5567
Epoch 00111: val_loss did not improve from 0.57173
100/100 [=====] - 91s 903ms/step - loss: 1.4845 - dice_soft:
0.6289 - dice_crossentropy: 0.5567 - val_loss: 1.5255 - val_dice_soft: 0.5592 - val_d
ice_crossentropy: 0.5853 - lr: 1.0000e-04
Epoch 112/500
100/100 [=====] - ETA: 0s - loss: 1.4026 - dice_soft: 0.6494
- dice_crossentropy: 0.5659
Epoch 00112: val_loss did not improve from 0.57173
100/100 [=====] - 89s 887ms/step - loss: 1.4026 - dice_soft:
0.6494 - dice_crossentropy: 0.5659 - val_loss: 1.6727 - val_dice_soft: 0.5155 - val_d
ice_crossentropy: 0.5789 - lr: 1.0000e-04
Epoch 113/500
100/100 [=====] - ETA: 0s - loss: 1.5336 - dice_soft: 0.6166
- dice_crossentropy: 0.5681
Epoch 00113: val_loss did not improve from 0.57173
100/100 [=====] - 91s 885ms/step - loss: 1.5336 - dice_soft:
0.6166 - dice_crossentropy: 0.5681 - val_loss: 1.2263 - val_dice_soft: 0.7086 - val_d
ice_crossentropy: 0.3712 - lr: 1.0000e-04
Epoch 114/500
100/100 [=====] - ETA: 0s - loss: 1.2740 - dice_soft: 0.6815
- dice_crossentropy: 0.5129
Epoch 00114: val_loss did not improve from 0.57173
100/100 [=====] - 92s 916ms/step - loss: 1.2740 - dice_soft:
0.6815 - dice_crossentropy: 0.5129 - val_loss: 1.6123 - val_dice_soft: 0.5426 - val_d
ice_crossentropy: 0.5408 - lr: 1.0000e-04
Epoch 115/500
100/100 [=====] - ETA: 0s - loss: 1.4061 - dice_soft: 0.6485
- dice_crossentropy: 0.5477
Epoch 00115: val_loss did not improve from 0.57173
100/100 [=====] - 87s 863ms/step - loss: 1.4061 - dice_soft:
0.6485 - dice_crossentropy: 0.5477 - val_loss: 1.3105 - val_dice_soft: 0.7011 - val_d
ice_crossentropy: 0.4656 - lr: 1.0000e-04
Epoch 116/500
100/100 [=====] - ETA: 0s - loss: 1.6112 - dice_soft: 0.5972
- dice_crossentropy: 0.5956
Epoch 00116: val_loss did not improve from 0.57173
100/100 [=====] - 91s 878ms/step - loss: 1.6112 - dice_soft:
0.5972 - dice_crossentropy: 0.5956 - val_loss: 1.2800 - val_dice_soft: 0.6966 - val_d
ice_crossentropy: 0.5327 - lr: 1.0000e-04
Epoch 117/500
100/100 [=====] - ETA: 0s - loss: 1.4426 - dice_soft: 0.6394
- dice_crossentropy: 0.5631
Epoch 00117: val_loss did not improve from 0.57173
100/100 [=====] - 89s 868ms/step - loss: 1.4426 - dice_soft:

0.6394 - dice_crossentropy: 0.5631 - val_loss: 1.1899 - val_dice_soft: 0.7529 - val_dice_crossentropy: 0.3727 - lr: 1.0000e-04
Epoch 118/500
100/100 [=====] - ETA: 0s - loss: 1.5093 - dice_soft: 0.6227
- dice_crossentropy: 0.5597
Epoch 00118: val_loss did not improve from 0.57173
100/100 [=====] - 90s 873ms/step - loss: 1.5093 - dice_soft:
0.6227 - dice_crossentropy: 0.5597 - val_loss: 1.8067 - val_dice_soft: 0.5444 - val_dice_crossentropy: 0.5403 - lr: 1.0000e-04
Epoch 119/500
100/100 [=====] - ETA: 0s - loss: 1.5498 - dice_soft: 0.6126
- dice_crossentropy: 0.5633
Epoch 00119: val_loss did not improve from 0.57173
100/100 [=====] - 89s 869ms/step - loss: 1.5498 - dice_soft:
0.6126 - dice_crossentropy: 0.5633 - val_loss: 2.2256 - val_dice_soft: 0.4666 - val_dice_crossentropy: 0.5836 - lr: 1.0000e-04
Epoch 120/500
100/100 [=====] - ETA: 0s - loss: 1.4539 - dice_soft: 0.6365
- dice_crossentropy: 0.5465
Epoch 00120: val_loss did not improve from 0.57173
100/100 [=====] - 89s 874ms/step - loss: 1.4539 - dice_soft:
0.6365 - dice_crossentropy: 0.5465 - val_loss: 1.5255 - val_dice_soft: 0.5432 - val_dice_crossentropy: 0.5458 - lr: 1.0000e-04
Epoch 121/500
100/100 [=====] - ETA: 0s - loss: 1.3650 - dice_soft: 0.6587
- dice_crossentropy: 0.5407
Epoch 00121: val_loss did not improve from 0.57173
100/100 [=====] - 88s 865ms/step - loss: 1.3650 - dice_soft:
0.6587 - dice_crossentropy: 0.5407 - val_loss: 1.3629 - val_dice_soft: 0.6939 - val_dice_crossentropy: 0.4193 - lr: 1.0000e-04
Epoch 122/500
100/100 [=====] - ETA: 0s - loss: 1.5354 - dice_soft: 0.6162
- dice_crossentropy: 0.5696
Epoch 00122: val_loss did not improve from 0.57173
100/100 [=====] - 90s 890ms/step - loss: 1.5354 - dice_soft:
0.6162 - dice_crossentropy: 0.5696 - val_loss: 1.9228 - val_dice_soft: 0.5386 - val_dice_crossentropy: 0.7503 - lr: 1.0000e-04
Epoch 123/500
100/100 [=====] - ETA: 0s - loss: 1.5207 - dice_soft: 0.6198
- dice_crossentropy: 0.5752
Epoch 00123: val_loss did not improve from 0.57173
100/100 [=====] - 92s 895ms/step - loss: 1.5207 - dice_soft:
0.6198 - dice_crossentropy: 0.5752 - val_loss: 1.8497 - val_dice_soft: 0.5362 - val_dice_crossentropy: 0.6315 - lr: 1.0000e-04
Epoch 124/500
100/100 [=====] - ETA: 0s - loss: 1.5792 - dice_soft: 0.6052
- dice_crossentropy: 0.5645
Epoch 00124: val_loss did not improve from 0.57173
100/100 [=====] - 90s 879ms/step - loss: 1.5792 - dice_soft:
0.6052 - dice_crossentropy: 0.5645 - val_loss: 1.8808 - val_dice_soft: 0.5229 - val_dice_crossentropy: 0.5525 - lr: 1.0000e-04
Epoch 125/500
100/100 [=====] - ETA: 0s - loss: 1.5261 - dice_soft: 0.6185
- dice_crossentropy: 0.5529
Epoch 00125: val_loss did not improve from 0.57173
100/100 [=====] - 91s 878ms/step - loss: 1.5261 - dice_soft:
0.6185 - dice_crossentropy: 0.5529 - val_loss: 1.8462 - val_dice_soft: 0.4404 - val_dice_crossentropy: 0.6654 - lr: 1.0000e-04
Epoch 126/500
100/100 [=====] - ETA: 0s - loss: 1.5045 - dice_soft: 0.6239
- dice_crossentropy: 0.5502
Epoch 00126: val_loss did not improve from 0.57173
100/100 [=====] - 93s 920ms/step - loss: 1.5045 - dice_soft:
0.6239 - dice_crossentropy: 0.5502 - val_loss: 1.9045 - val_dice_soft: 0.4969 - val_dice_crossentropy: 0.5662 - lr: 1.0000e-04

```
100/100 [=====] - ETA: 0s - loss: 1.4974 - dice_soft: 0.6257
- dice_crossentropy: 0.5528
Epoch 00127: val_loss did not improve from 0.57173
100/100 [=====] - 90s 884ms/step - loss: 1.4974 - dice_soft:
0.6257 - dice_crossentropy: 0.5528 - val_loss: 1.9835 - val_dice_soft: 0.5531 - val_d
ice_crossentropy: 0.5176 - lr: 1.0000e-04
Epoch 128/500
100/100 [=====] - ETA: 0s - loss: 1.4733 - dice_soft: 0.6317
- dice_crossentropy: 0.5493
Epoch 00128: val_loss did not improve from 0.57173
100/100 [=====] - 90s 889ms/step - loss: 1.4733 - dice_soft:
0.6317 - dice_crossentropy: 0.5493 - val_loss: 1.6599 - val_dice_soft: 0.5725 - val_d
ice_crossentropy: 0.5442 - lr: 1.0000e-04
Epoch 129/500
100/100 [=====] - ETA: 0s - loss: 1.6211 - dice_soft: 0.5947
- dice_crossentropy: 0.5659
Epoch 00129: val_loss did not improve from 0.57173
100/100 [=====] - 88s 856ms/step - loss: 1.6211 - dice_soft:
0.5947 - dice_crossentropy: 0.5659 - val_loss: 1.8042 - val_dice_soft: 0.6066 - val_d
ice_crossentropy: 0.5022 - lr: 1.0000e-04
Epoch 130/500
100/100 [=====] - ETA: 0s - loss: 1.5583 - dice_soft: 0.6104
- dice_crossentropy: 0.5674
Epoch 00130: val_loss did not improve from 0.57173
100/100 [=====] - 95s 920ms/step - loss: 1.5583 - dice_soft:
0.6104 - dice_crossentropy: 0.5674 - val_loss: 1.0997 - val_dice_soft: 0.6813 - val_d
ice_crossentropy: 0.4992 - lr: 1.0000e-04
Epoch 131/500
100/100 [=====] - ETA: 0s - loss: 1.5667 - dice_soft: 0.6083
- dice_crossentropy: 0.5918
Epoch 00131: val_loss did not improve from 0.57173
100/100 [=====] - 90s 862ms/step - loss: 1.5667 - dice_soft:
0.6083 - dice_crossentropy: 0.5918 - val_loss: 2.7386 - val_dice_soft: 0.2917 - val_d
ice_crossentropy: 0.7129 - lr: 1.0000e-04
Epoch 132/500
100/100 [=====] - ETA: 0s - loss: 1.5953 - dice_soft: 0.6012
- dice_crossentropy: 0.5714
Epoch 00132: val_loss did not improve from 0.57173
100/100 [=====] - 92s 890ms/step - loss: 1.5953 - dice_soft:
0.6012 - dice_crossentropy: 0.5714 - val_loss: 1.0420 - val_dice_soft: 0.7188 - val_d
ice_crossentropy: 0.4409 - lr: 1.0000e-04
Epoch 133/500
100/100 [=====] - ETA: 0s - loss: 1.4569 - dice_soft: 0.6358
- dice_crossentropy: 0.5465
Epoch 00133: val_loss did not improve from 0.57173
100/100 [=====] - 89s 870ms/step - loss: 1.4569 - dice_soft:
0.6358 - dice_crossentropy: 0.5465 - val_loss: 1.1735 - val_dice_soft: 0.6540 - val_d
ice_crossentropy: 0.4974 - lr: 1.0000e-04
Epoch 134/500
100/100 [=====] - ETA: 0s - loss: 1.4924 - dice_soft: 0.6269
- dice_crossentropy: 0.5317
Epoch 00134: ReduceLR0nPlateau reducing learning rate to 1e-05.

Epoch 00134: val_loss did not improve from 0.57173
100/100 [=====] - 91s 900ms/step - loss: 1.4924 - dice_soft:
0.6269 - dice_crossentropy: 0.5317 - val_loss: 0.7036 - val_dice_soft: 0.8278 - val_d
ice_crossentropy: 0.3688 - lr: 1.0000e-04
Epoch 135/500
100/100 [=====] - ETA: 0s - loss: 1.4804 - dice_soft: 0.6299
- dice_crossentropy: 0.5405
Epoch 00135: val_loss did not improve from 0.57173
100/100 [=====] - 91s 892ms/step - loss: 1.4804 - dice_soft:
0.6299 - dice_crossentropy: 0.5405 - val_loss: 0.8630 - val_dice_soft: 0.7624 - val_d
ice_crossentropy: 0.4095 - lr: 1.0000e-05
Epoch 136/500
```

- dice_crossentropy: 0.5462
Epoch 00136: val_loss did not improve from 0.57173
100/100 [=====] - 91s 888ms/step - loss: 1.5114 - dice_soft:
0.6222 - dice_crossentropy: 0.5462 - val_loss: 1.6606 - val_dice_soft: 0.5718 - val_d
ice_crossentropy: 0.5006 - lr: 1.0000e-05
Epoch 137/500
100/100 [=====] - ETA: 0s - loss: 1.4788 - dice_soft: 0.6303
- dice_crossentropy: 0.5255
Epoch 00137: val_loss did not improve from 0.57173
100/100 [=====] - 88s 874ms/step - loss: 1.4788 - dice_soft:
0.6303 - dice_crossentropy: 0.5255 - val_loss: 1.7803 - val_dice_soft: 0.6116 - val_d
ice_crossentropy: 0.5013 - lr: 1.0000e-05
Epoch 138/500
100/100 [=====] - ETA: 0s - loss: 1.3967 - dice_soft: 0.6508
- dice_crossentropy: 0.5032
Epoch 00138: val_loss did not improve from 0.57173
100/100 [=====] - 89s 861ms/step - loss: 1.3967 - dice_soft:
0.6508 - dice_crossentropy: 0.5032 - val_loss: 1.1405 - val_dice_soft: 0.6885 - val_d
ice_crossentropy: 0.4986 - lr: 1.0000e-05
Epoch 139/500
100/100 [=====] - ETA: 0s - loss: 1.4558 - dice_soft: 0.6360
- dice_crossentropy: 0.5212
Epoch 00139: val_loss did not improve from 0.57173
100/100 [=====] - 90s 875ms/step - loss: 1.4558 - dice_soft:
0.6360 - dice_crossentropy: 0.5212 - val_loss: 1.2837 - val_dice_soft: 0.7285 - val_d
ice_crossentropy: 0.5036 - lr: 1.0000e-05
Epoch 140/500
100/100 [=====] - ETA: 0s - loss: 1.4644 - dice_soft: 0.6339
- dice_crossentropy: 0.5309
Epoch 00140: val_loss did not improve from 0.57173
100/100 [=====] - 89s 874ms/step - loss: 1.4644 - dice_soft:
0.6339 - dice_crossentropy: 0.5309 - val_loss: 0.6508 - val_dice_soft: 0.8321 - val_d
ice_crossentropy: 0.4404 - lr: 1.0000e-05
Epoch 141/500
100/100 [=====] - ETA: 0s - loss: 1.3786 - dice_soft: 0.6554
- dice_crossentropy: 0.5119
Epoch 00141: val_loss did not improve from 0.57173
100/100 [=====] - 91s 877ms/step - loss: 1.3786 - dice_soft:
0.6554 - dice_crossentropy: 0.5119 - val_loss: 1.6776 - val_dice_soft: 0.5942 - val_d
ice_crossentropy: 0.5183 - lr: 1.0000e-05
Epoch 142/500
100/100 [=====] - ETA: 0s - loss: 1.3624 - dice_soft: 0.6594
- dice_crossentropy: 0.5112
Epoch 00142: val_loss did not improve from 0.57173
100/100 [=====] - 89s 867ms/step - loss: 1.3624 - dice_soft:
0.6594 - dice_crossentropy: 0.5112 - val_loss: 1.8558 - val_dice_soft: 0.5775 - val_d
ice_crossentropy: 0.4943 - lr: 1.0000e-05
Epoch 143/500
100/100 [=====] - ETA: 0s - loss: 1.4603 - dice_soft: 0.6349
- dice_crossentropy: 0.5332
Epoch 00143: val_loss did not improve from 0.57173
100/100 [=====] - 91s 904ms/step - loss: 1.4603 - dice_soft:
0.6349 - dice_crossentropy: 0.5332 - val_loss: 0.9013 - val_dice_soft: 0.7509 - val_d
ice_crossentropy: 0.4094 - lr: 1.0000e-05
Epoch 144/500
100/100 [=====] - ETA: 0s - loss: 1.4424 - dice_soft: 0.6394
- dice_crossentropy: 0.5276
Epoch 00144: val_loss did not improve from 0.57173
100/100 [=====] - 90s 888ms/step - loss: 1.4424 - dice_soft:
0.6394 - dice_crossentropy: 0.5276 - val_loss: 1.5837 - val_dice_soft: 0.5881 - val_d
ice_crossentropy: 0.4745 - lr: 1.0000e-05
Epoch 145/500
100/100 [=====] - ETA: 0s - loss: 1.5343 - dice_soft: 0.6164
- dice_crossentropy: 0.5415
Epoch 00145: val_loss did not improve from 0.57173
100/100 [=====] - 89s 885ms/step - loss: 1.5343 - dice_soft:

0.6164 - dice_crossentropy: 0.5415 - val_loss: 2.2446 - val_dice_soft: 0.4047 - val_dice_crossentropy: 0.6624 - lr: 1.0000e-05
Epoch 146/500
100/100 [=====] - ETA: 0s - loss: 1.4616 - dice_soft: 0.6346
- dice_crossentropy: 0.5204
Epoch 00146: val_loss did not improve from 0.57173
100/100 [=====] - 89s 873ms/step - loss: 1.4616 - dice_soft:
0.6346 - dice_crossentropy: 0.5204 - val_loss: 0.9027 - val_dice_soft: 0.7754 - val_dice_crossentropy: 0.4372 - lr: 1.0000e-05
Epoch 147/500
100/100 [=====] - ETA: 0s - loss: 1.5197 - dice_soft: 0.6201
- dice_crossentropy: 0.5403
Epoch 00147: val_loss did not improve from 0.57173
100/100 [=====] - 88s 868ms/step - loss: 1.5197 - dice_soft:
0.6201 - dice_crossentropy: 0.5403 - val_loss: 1.3187 - val_dice_soft: 0.6252 - val_dice_crossentropy: 0.5209 - lr: 1.0000e-05
Epoch 148/500
100/100 [=====] - ETA: 0s - loss: 1.4742 - dice_soft: 0.6315
- dice_crossentropy: 0.5071
Epoch 00148: val_loss did not improve from 0.57173
100/100 [=====] - 90s 876ms/step - loss: 1.4742 - dice_soft:
0.6315 - dice_crossentropy: 0.5071 - val_loss: 0.8219 - val_dice_soft: 0.8153 - val_dice_crossentropy: 0.2834 - lr: 1.0000e-05
Epoch 149/500
100/100 [=====] - ETA: 0s - loss: 1.4298 - dice_soft: 0.6426
- dice_crossentropy: 0.5133
Epoch 00149: val_loss did not improve from 0.57173
100/100 [=====] - 90s 893ms/step - loss: 1.4298 - dice_soft:
0.6426 - dice_crossentropy: 0.5133 - val_loss: 0.7864 - val_dice_soft: 0.8190 - val_dice_crossentropy: 0.3730 - lr: 1.0000e-05
Epoch 150/500
100/100 [=====] - ETA: 0s - loss: 1.3877 - dice_soft: 0.6531
- dice_crossentropy: 0.5183
Epoch 00150: val_loss did not improve from 0.57173
100/100 [=====] - 89s 892ms/step - loss: 1.3877 - dice_soft:
0.6531 - dice_crossentropy: 0.5183 - val_loss: 1.3579 - val_dice_soft: 0.6965 - val_dice_crossentropy: 0.4636 - lr: 1.0000e-05
Epoch 151/500
100/100 [=====] - ETA: 0s - loss: 1.3522 - dice_soft: 0.6620
- dice_crossentropy: 0.5037
Epoch 00151: val_loss improved from 0.57173 to 0.54045, saving model to evaluation/fold_2/model.hdf5
100/100 [=====] - 92s 882ms/step - loss: 1.3522 - dice_soft:
0.6620 - dice_crossentropy: 0.5037 - val_loss: 0.5404 - val_dice_soft: 0.8687 - val_dice_crossentropy: 0.3420 - lr: 1.0000e-05
Epoch 152/500
100/100 [=====] - ETA: 0s - loss: 1.3234 - dice_soft: 0.6692
- dice_crossentropy: 0.4960
Epoch 00152: val_loss did not improve from 0.54045
100/100 [=====] - 91s 914ms/step - loss: 1.3234 - dice_soft:
0.6692 - dice_crossentropy: 0.4960 - val_loss: 1.9587 - val_dice_soft: 0.5648 - val_dice_crossentropy: 0.5069 - lr: 1.0000e-05
Epoch 153/500
100/100 [=====] - ETA: 0s - loss: 1.3350 - dice_soft: 0.6663
- dice_crossentropy: 0.4980
Epoch 00153: val_loss did not improve from 0.54045
100/100 [=====] - 91s 902ms/step - loss: 1.3350 - dice_soft:
0.6663 - dice_crossentropy: 0.4980 - val_loss: 0.6393 - val_dice_soft: 0.8459 - val_dice_crossentropy: 0.3483 - lr: 1.0000e-05
Epoch 154/500
100/100 [=====] - ETA: 0s - loss: 1.4193 - dice_soft: 0.6452
- dice_crossentropy: 0.5168
Epoch 00154: val_loss did not improve from 0.54045
100/100 [=====] - 89s 876ms/step - loss: 1.4193 - dice_soft:
0.6452 - dice_crossentropy: 0.5168 - val_loss: 1.4045 - val_dice_soft: 0.6103 - val_dice_crossentropy: 0.5253 - lr: 1.0000e-05

Epoch 155/500
100/100 [=====] - ETA: 0s - loss: 1.3659 - dice_soft: 0.6585
- dice_crossentropy: 0.5152
Epoch 00155: val_loss did not improve from 0.54045
100/100 [=====] - 92s 875ms/step - loss: 1.3659 - dice_soft:
0.6585 - dice_crossentropy: 0.5152 - val_loss: 1.6531 - val_dice_soft: 0.4985 - val_d
ice_crossentropy: 0.5905 - lr: 1.0000e-05
Epoch 156/500
100/100 [=====] - ETA: 0s - loss: 1.3881 - dice_soft: 0.6530
- dice_crossentropy: 0.5015
Epoch 00156: val_loss did not improve from 0.54045
100/100 [=====] - 90s 857ms/step - loss: 1.3881 - dice_soft:
0.6530 - dice_crossentropy: 0.5015 - val_loss: 1.2722 - val_dice_soft: 0.6346 - val_d
ice_crossentropy: 0.5149 - lr: 1.0000e-05
Epoch 157/500
100/100 [=====] - ETA: 0s - loss: 1.3870 - dice_soft: 0.6532
- dice_crossentropy: 0.5131
Epoch 00157: val_loss did not improve from 0.54045
100/100 [=====] - 90s 883ms/step - loss: 1.3870 - dice_soft:
0.6532 - dice_crossentropy: 0.5131 - val_loss: 1.2031 - val_dice_soft: 0.7386 - val_d
ice_crossentropy: 0.5161 - lr: 1.0000e-05
Epoch 158/500
100/100 [=====] - ETA: 0s - loss: 1.3216 - dice_soft: 0.6696
- dice_crossentropy: 0.4915
Epoch 00158: val_loss did not improve from 0.54045
100/100 [=====] - 86s 855ms/step - loss: 1.3216 - dice_soft:
0.6696 - dice_crossentropy: 0.4915 - val_loss: 0.9580 - val_dice_soft: 0.7350 - val_d
ice_crossentropy: 0.3794 - lr: 1.0000e-05
Epoch 159/500
100/100 [=====] - ETA: 0s - loss: 1.4504 - dice_soft: 0.6374
- dice_crossentropy: 0.5246
Epoch 00159: val_loss did not improve from 0.54045
100/100 [=====] - 91s 897ms/step - loss: 1.4504 - dice_soft:
0.6374 - dice_crossentropy: 0.5246 - val_loss: 1.2629 - val_dice_soft: 0.6288 - val_d
ice_crossentropy: 0.4627 - lr: 1.0000e-05
Epoch 160/500
100/100 [=====] - ETA: 0s - loss: 1.4701 - dice_soft: 0.6325
- dice_crossentropy: 0.5231
Epoch 00160: val_loss did not improve from 0.54045
100/100 [=====] - 91s 884ms/step - loss: 1.4701 - dice_soft:
0.6325 - dice_crossentropy: 0.5231 - val_loss: 1.5193 - val_dice_soft: 0.5585 - val_d
ice_crossentropy: 0.5041 - lr: 1.0000e-05
Epoch 161/500
100/100 [=====] - ETA: 0s - loss: 1.4672 - dice_soft: 0.6332
- dice_crossentropy: 0.5239
Epoch 00161: val_loss did not improve from 0.54045
100/100 [=====] - 89s 870ms/step - loss: 1.4672 - dice_soft:
0.6332 - dice_crossentropy: 0.5239 - val_loss: 2.2346 - val_dice_soft: 0.4738 - val_d
ice_crossentropy: 0.6859 - lr: 1.0000e-05
Epoch 162/500
100/100 [=====] - ETA: 0s - loss: 1.4131 - dice_soft: 0.6467
- dice_crossentropy: 0.5117
Epoch 00162: val_loss did not improve from 0.54045
100/100 [=====] - 91s 909ms/step - loss: 1.4131 - dice_soft:
0.6467 - dice_crossentropy: 0.5117 - val_loss: 2.0428 - val_dice_soft: 0.4445 - val_d
ice_crossentropy: 0.6493 - lr: 1.0000e-05
Epoch 163/500
100/100 [=====] - ETA: 0s - loss: 1.4330 - dice_soft: 0.6417
- dice_crossentropy: 0.5245
Epoch 00163: val_loss did not improve from 0.54045
100/100 [=====] - 90s 892ms/step - loss: 1.4330 - dice_soft:
0.6417 - dice_crossentropy: 0.5245 - val_loss: 1.4448 - val_dice_soft: 0.5795 - val_d
ice_crossentropy: 0.5197 - lr: 1.0000e-05
Epoch 164/500
100/100 [=====] - ETA: 0s - loss: 1.3389 - dice_soft: 0.6653
- dice_crossentropy: 0.4981

Epoch 00164: val_loss did not improve from 0.54045
100/100 [=====] - 90s 889ms/step - loss: 1.3389 - dice_soft:
0.6653 - dice_crossentropy: 0.4981 - val_loss: 1.0447 - val_dice_soft: 0.7765 - val_d
ice_crossentropy: 0.3396 - lr: 1.0000e-05
Epoch 165/500
100/100 [=====] - ETA: 0s - loss: 1.2888 - dice_soft: 0.6778
- dice_crossentropy: 0.4914
Epoch 00165: val_loss did not improve from 0.54045
100/100 [=====] - 88s 870ms/step - loss: 1.2888 - dice_soft:
0.6778 - dice_crossentropy: 0.4914 - val_loss: 0.6996 - val_dice_soft: 0.8244 - val_d
ice_crossentropy: 0.2510 - lr: 1.0000e-05
Epoch 166/500
100/100 [=====] - ETA: 0s - loss: 1.4649 - dice_soft: 0.6338
- dice_crossentropy: 0.5263
Epoch 00166: val_loss did not improve from 0.54045
100/100 [=====] - 90s 883ms/step - loss: 1.4649 - dice_soft:
0.6338 - dice_crossentropy: 0.5263 - val_loss: 1.3891 - val_dice_soft: 0.6889 - val_d
ice_crossentropy: 0.4002 - lr: 1.0000e-05
Epoch 167/500
100/100 [=====] - ETA: 0s - loss: 1.4118 - dice_soft: 0.6470
- dice_crossentropy: 0.5151
Epoch 00167: val_loss did not improve from 0.54045
100/100 [=====] - 90s 866ms/step - loss: 1.4118 - dice_soft:
0.6470 - dice_crossentropy: 0.5151 - val_loss: 1.0012 - val_dice_soft: 0.7174 - val_d
ice_crossentropy: 0.3982 - lr: 1.0000e-05
Epoch 168/500
100/100 [=====] - ETA: 0s - loss: 1.3638 - dice_soft: 0.6591
- dice_crossentropy: 0.4911
Epoch 00168: val_loss did not improve from 0.54045
100/100 [=====] - 91s 890ms/step - loss: 1.3638 - dice_soft:
0.6591 - dice_crossentropy: 0.4911 - val_loss: 1.1560 - val_dice_soft: 0.6695 - val_d
ice_crossentropy: 0.4464 - lr: 1.0000e-05
Epoch 169/500
100/100 [=====] - ETA: 0s - loss: 1.3793 - dice_soft: 0.6552
- dice_crossentropy: 0.5143
Epoch 00169: val_loss did not improve from 0.54045
100/100 [=====] - 90s 883ms/step - loss: 1.3793 - dice_soft:
0.6552 - dice_crossentropy: 0.5143 - val_loss: 1.2022 - val_dice_soft: 0.6488 - val_d
ice_crossentropy: 0.4664 - lr: 1.0000e-05
Epoch 170/500
100/100 [=====] - ETA: 0s - loss: 1.4189 - dice_soft: 0.6453
- dice_crossentropy: 0.5085
Epoch 00170: val_loss did not improve from 0.54045
100/100 [=====] - 89s 881ms/step - loss: 1.4189 - dice_soft:
0.6453 - dice_crossentropy: 0.5085 - val_loss: 1.8516 - val_dice_soft: 0.5402 - val_d
ice_crossentropy: 0.5611 - lr: 1.0000e-05
Epoch 171/500
100/100 [=====] - ETA: 0s - loss: 1.4483 - dice_soft: 0.6379
- dice_crossentropy: 0.5195
Epoch 00171: val_loss did not improve from 0.54045
100/100 [=====] - 89s 870ms/step - loss: 1.4483 - dice_soft:
0.6379 - dice_crossentropy: 0.5195 - val_loss: 1.5863 - val_dice_soft: 0.6065 - val_d
ice_crossentropy: 0.5314 - lr: 1.0000e-05
Epoch 172/500
100/100 [=====] - ETA: 0s - loss: 1.5441 - dice_soft: 0.6140
- dice_crossentropy: 0.5390
Epoch 00172: val_loss did not improve from 0.54045
100/100 [=====] - 94s 888ms/step - loss: 1.5441 - dice_soft:
0.6140 - dice_crossentropy: 0.5390 - val_loss: 2.1361 - val_dice_soft: 0.5069 - val_d
ice_crossentropy: 0.5443 - lr: 1.0000e-05
Epoch 173/500
100/100 [=====] - ETA: 0s - loss: 1.5023 - dice_soft: 0.6244
- dice_crossentropy: 0.5320
Epoch 00173: val_loss did not improve from 0.54045
100/100 [=====] - 95s 922ms/step - loss: 1.5023 - dice_soft:
0.6244 - dice_crossentropy: 0.5320 - val_loss: 1.3669 - val_dice_soft: 0.6126 - val_d

ice_crossentropy: 0.4872 - lr: 1.0000e-05
Epoch 174/500
100/100 [=====] - ETA: 0s - loss: 1.4150 - dice_soft: 0.6463
- dice_crossentropy: 0.5171
Epoch 00174: val_loss did not improve from 0.54045
100/100 [=====] - 91s 885ms/step - loss: 1.4150 - dice_soft:
0.6463 - dice_crossentropy: 0.5171 - val_loss: 1.2438 - val_dice_soft: 0.7409 - val_d
ice_crossentropy: 0.4169 - lr: 1.0000e-05
Epoch 175/500
100/100 [=====] - ETA: 0s - loss: 1.3595 - dice_soft: 0.6601
- dice_crossentropy: 0.4996
Epoch 00175: val_loss did not improve from 0.54045
100/100 [=====] - 90s 894ms/step - loss: 1.3595 - dice_soft:
0.6601 - dice_crossentropy: 0.4996 - val_loss: 1.7755 - val_dice_soft: 0.5504 - val_d
ice_crossentropy: 0.5152 - lr: 1.0000e-05
Epoch 176/500
100/100 [=====] - ETA: 0s - loss: 1.4191 - dice_soft: 0.6452
- dice_crossentropy: 0.5178
Epoch 00176: val_loss did not improve from 0.54045
100/100 [=====] - 90s 894ms/step - loss: 1.4191 - dice_soft:
0.6452 - dice_crossentropy: 0.5178 - val_loss: 1.0472 - val_dice_soft: 0.7732 - val_d
ice_crossentropy: 0.3588 - lr: 1.0000e-05
Epoch 177/500
100/100 [=====] - ETA: 0s - loss: 1.5347 - dice_soft: 0.6163
- dice_crossentropy: 0.5369
Epoch 00177: val_loss did not improve from 0.54045
100/100 [=====] - 92s 914ms/step - loss: 1.5347 - dice_soft:
0.6163 - dice_crossentropy: 0.5369 - val_loss: 1.2051 - val_dice_soft: 0.7502 - val_d
ice_crossentropy: 0.3912 - lr: 1.0000e-05
Epoch 178/500
100/100 [=====] - ETA: 0s - loss: 1.4189 - dice_soft: 0.6453
- dice_crossentropy: 0.5072
Epoch 00178: val_loss did not improve from 0.54045
100/100 [=====] - 89s 868ms/step - loss: 1.4189 - dice_soft:
0.6453 - dice_crossentropy: 0.5072 - val_loss: 0.6983 - val_dice_soft: 0.8151 - val_d
ice_crossentropy: 0.3816 - lr: 1.0000e-05
Epoch 179/500
100/100 [=====] - ETA: 0s - loss: 1.3772 - dice_soft: 0.6557
- dice_crossentropy: 0.4935
Epoch 00179: val_loss did not improve from 0.54045
100/100 [=====] - 88s 860ms/step - loss: 1.3772 - dice_soft:
0.6557 - dice_crossentropy: 0.4935 - val_loss: 1.8769 - val_dice_soft: 0.5341 - val_d
ice_crossentropy: 0.5057 - lr: 1.0000e-05
Epoch 180/500
100/100 [=====] - ETA: 0s - loss: 1.3805 - dice_soft: 0.6549
- dice_crossentropy: 0.5074
Epoch 00180: val_loss did not improve from 0.54045
100/100 [=====] - 92s 902ms/step - loss: 1.3805 - dice_soft:
0.6549 - dice_crossentropy: 0.5074 - val_loss: 1.2101 - val_dice_soft: 0.7430 - val_d
ice_crossentropy: 0.3863 - lr: 1.0000e-05
Epoch 181/500
100/100 [=====] - ETA: 0s - loss: 1.3719 - dice_soft: 0.6570
- dice_crossentropy: 0.4932
Epoch 00181: val_loss did not improve from 0.54045
100/100 [=====] - 92s 900ms/step - loss: 1.3719 - dice_soft:
0.6570 - dice_crossentropy: 0.4932 - val_loss: 1.6242 - val_dice_soft: 0.6763 - val_d
ice_crossentropy: 0.4104 - lr: 1.0000e-05
Epoch 182/500
100/100 [=====] - ETA: 0s - loss: 1.4109 - dice_soft: 0.6473
- dice_crossentropy: 0.5088
Epoch 00182: val_loss did not improve from 0.54045
100/100 [=====] - 91s 884ms/step - loss: 1.4109 - dice_soft:
0.6473 - dice_crossentropy: 0.5088 - val_loss: 1.5983 - val_dice_soft: 0.6195 - val_d
ice_crossentropy: 0.4262 - lr: 1.0000e-05
Epoch 183/500
100/100 [=====] - ETA: 0s - loss: 1.4388 - dice_soft: 0.6403

- dice_crossentropy: 0.5225
Epoch 00183: val_loss did not improve from 0.54045
100/100 [=====] - 88s 870ms/step - loss: 1.4388 - dice_soft:
0.6403 - dice_crossentropy: 0.5225 - val_loss: 2.0423 - val_dice_soft: 0.4636 - val_d
ice_crossentropy: 0.5930 - lr: 1.0000e-05
Epoch 184/500
100/100 [=====] - ETA: 0s - loss: 1.3473 - dice_soft: 0.6632
- dice_crossentropy: 0.4957
Epoch 00184: val_loss did not improve from 0.54045
100/100 [=====] - 90s 893ms/step - loss: 1.3473 - dice_soft:
0.6632 - dice_crossentropy: 0.4957 - val_loss: 1.2450 - val_dice_soft: 0.6408 - val_d
ice_crossentropy: 0.4735 - lr: 1.0000e-05
Epoch 185/500
100/100 [=====] - ETA: 0s - loss: 1.4894 - dice_soft: 0.6276
- dice_crossentropy: 0.5124
Epoch 00185: val_loss did not improve from 0.54045
100/100 [=====] - 89s 870ms/step - loss: 1.4894 - dice_soft:
0.6276 - dice_crossentropy: 0.5124 - val_loss: 1.2307 - val_dice_soft: 0.7330 - val_d
ice_crossentropy: 0.3527 - lr: 1.0000e-05
Epoch 186/500
100/100 [=====] - ETA: 0s - loss: 1.5273 - dice_soft: 0.6182
- dice_crossentropy: 0.5322
Epoch 00186: val_loss did not improve from 0.54045
100/100 [=====] - 92s 897ms/step - loss: 1.5273 - dice_soft:
0.6182 - dice_crossentropy: 0.5322 - val_loss: 1.1067 - val_dice_soft: 0.7568 - val_d
ice_crossentropy: 0.4510 - lr: 1.0000e-05
Epoch 187/500
100/100 [=====] - ETA: 0s - loss: 1.2804 - dice_soft: 0.6799
- dice_crossentropy: 0.4747
Epoch 00187: val_loss did not improve from 0.54045
100/100 [=====] - 91s 892ms/step - loss: 1.2804 - dice_soft:
0.6799 - dice_crossentropy: 0.4747 - val_loss: 2.0954 - val_dice_soft: 0.5553 - val_d
ice_crossentropy: 0.5395 - lr: 1.0000e-05
Epoch 188/500
100/100 [=====] - ETA: 0s - loss: 1.4116 - dice_soft: 0.6471
- dice_crossentropy: 0.5034
Epoch 00188: val_loss did not improve from 0.54045
100/100 [=====] - 91s 897ms/step - loss: 1.4116 - dice_soft:
0.6471 - dice_crossentropy: 0.5034 - val_loss: 2.2901 - val_dice_soft: 0.4883 - val_d
ice_crossentropy: 0.5903 - lr: 1.0000e-05
Epoch 189/500
100/100 [=====] - ETA: 0s - loss: 1.5385 - dice_soft: 0.6154
- dice_crossentropy: 0.5349
Epoch 00189: val_loss did not improve from 0.54045
100/100 [=====] - 92s 884ms/step - loss: 1.5385 - dice_soft:
0.6154 - dice_crossentropy: 0.5349 - val_loss: 1.2728 - val_dice_soft: 0.6368 - val_d
ice_crossentropy: 0.4954 - lr: 1.0000e-05
Epoch 190/500
100/100 [=====] - ETA: 0s - loss: 1.4374 - dice_soft: 0.6406
- dice_crossentropy: 0.5179
Epoch 00190: val_loss did not improve from 0.54045
100/100 [=====] - 91s 893ms/step - loss: 1.4374 - dice_soft:
0.6406 - dice_crossentropy: 0.5179 - val_loss: 1.2202 - val_dice_soft: 0.7404 - val_d
ice_crossentropy: 0.4165 - lr: 1.0000e-05
Epoch 191/500
100/100 [=====] - ETA: 0s - loss: 1.2961 - dice_soft: 0.6760
- dice_crossentropy: 0.4893
Epoch 00191: val_loss did not improve from 0.54045
100/100 [=====] - 91s 891ms/step - loss: 1.2961 - dice_soft:
0.6760 - dice_crossentropy: 0.4893 - val_loss: 1.4554 - val_dice_soft: 0.6072 - val_d
ice_crossentropy: 0.4677 - lr: 1.0000e-05
Epoch 192/500
100/100 [=====] - ETA: 0s - loss: 1.4236 - dice_soft: 0.6441
- dice_crossentropy: 0.5115
Epoch 00192: val_loss did not improve from 0.54045
100/100 [=====] - 90s 896ms/step - loss: 1.4236 - dice_soft:

0.6441 - dice_crossentropy: 0.5115 - val_loss: 1.0611 - val_dice_soft: 0.7748 - val_dice_crossentropy: 0.4224 - lr: 1.0000e-05
Epoch 193/500
100/100 [=====] - ETA: 0s - loss: 1.2370 - dice_soft: 0.6908
- dice_crossentropy: 0.4759
Epoch 00193: val_loss did not improve from 0.54045
100/100 [=====] - 91s 907ms/step - loss: 1.2370 - dice_soft:
0.6908 - dice_crossentropy: 0.4759 - val_loss: 0.6664 - val_dice_soft: 0.8415 - val_dice_crossentropy: 0.3515 - lr: 1.0000e-05
Epoch 194/500
100/100 [=====] - ETA: 0s - loss: 1.3363 - dice_soft: 0.6659
- dice_crossentropy: 0.4919
Epoch 00194: val_loss did not improve from 0.54045
100/100 [=====] - 92s 891ms/step - loss: 1.3363 - dice_soft:
0.6659 - dice_crossentropy: 0.4919 - val_loss: 2.3331 - val_dice_soft: 0.3893 - val_dice_crossentropy: 0.6826 - lr: 1.0000e-05
Epoch 195/500
100/100 [=====] - ETA: 0s - loss: 1.3310 - dice_soft: 0.6672
- dice_crossentropy: 0.4931
Epoch 00195: val_loss did not improve from 0.54045
100/100 [=====] - 88s 865ms/step - loss: 1.3310 - dice_soft:
0.6672 - dice_crossentropy: 0.4931 - val_loss: 1.6317 - val_dice_soft: 0.5764 - val_dice_crossentropy: 0.5386 - lr: 1.0000e-05
Epoch 196/500
100/100 [=====] - ETA: 0s - loss: 1.3011 - dice_soft: 0.6747
- dice_crossentropy: 0.4808
Epoch 00196: val_loss did not improve from 0.54045
100/100 [=====] - 90s 882ms/step - loss: 1.3011 - dice_soft:
0.6747 - dice_crossentropy: 0.4808 - val_loss: 1.5728 - val_dice_soft: 0.5779 - val_dice_crossentropy: 0.4767 - lr: 1.0000e-05
Epoch 197/500
100/100 [=====] - ETA: 0s - loss: 1.3892 - dice_soft: 0.6527
- dice_crossentropy: 0.5044
Epoch 00197: val_loss did not improve from 0.54045
100/100 [=====] - 92s 885ms/step - loss: 1.3892 - dice_soft:
0.6527 - dice_crossentropy: 0.5044 - val_loss: 0.6375 - val_dice_soft: 0.8390 - val_dice_crossentropy: 0.3006 - lr: 1.0000e-05
Epoch 198/500
100/100 [=====] - ETA: 0s - loss: 1.4732 - dice_soft: 0.6317
- dice_crossentropy: 0.5253
Epoch 00198: val_loss did not improve from 0.54045
100/100 [=====] - 93s 903ms/step - loss: 1.4732 - dice_soft:
0.6317 - dice_crossentropy: 0.5253 - val_loss: 1.2355 - val_dice_soft: 0.6370 - val_dice_crossentropy: 0.5098 - lr: 1.0000e-05
Epoch 199/500
100/100 [=====] - ETA: 0s - loss: 1.4044 - dice_soft: 0.6489
- dice_crossentropy: 0.5068
Epoch 00199: val_loss did not improve from 0.54045
100/100 [=====] - 90s 862ms/step - loss: 1.4044 - dice_soft:
0.6489 - dice_crossentropy: 0.5068 - val_loss: 1.3770 - val_dice_soft: 0.6281 - val_dice_crossentropy: 0.5142 - lr: 1.0000e-05
Epoch 200/500
100/100 [=====] - ETA: 0s - loss: 1.4429 - dice_soft: 0.6393
- dice_crossentropy: 0.5215
Epoch 00200: val_loss did not improve from 0.54045
100/100 [=====] - 90s 879ms/step - loss: 1.4429 - dice_soft:
0.6393 - dice_crossentropy: 0.5215 - val_loss: 1.6294 - val_dice_soft: 0.6746 - val_dice_crossentropy: 0.4592 - lr: 1.0000e-05
Epoch 201/500
100/100 [=====] - ETA: 0s - loss: 1.4897 - dice_soft: 0.6276
- dice_crossentropy: 0.5237
Epoch 00201: val_loss did not improve from 0.54045
100/100 [=====] - 91s 874ms/step - loss: 1.4897 - dice_soft:
0.6276 - dice_crossentropy: 0.5237 - val_loss: 1.0388 - val_dice_soft: 0.7728 - val_dice_crossentropy: 0.4116 - lr: 1.0000e-05

```
100/100 [=====] - ETA: 0s - loss: 1.4943 - dice_soft: 0.6264
- dice_crossentropy: 0.5125
Epoch 00202: val_loss did not improve from 0.54045
100/100 [=====] - 91s 891ms/step - loss: 1.4943 - dice_soft:
0.6264 - dice_crossentropy: 0.5125 - val_loss: 1.1335 - val_dice_soft: 0.6794 - val_d
ice_crossentropy: 0.4973 - lr: 1.0000e-05
Epoch 203/500
100/100 [=====] - ETA: 0s - loss: 1.4120 - dice_soft: 0.6470
- dice_crossentropy: 0.5065
Epoch 00203: val_loss did not improve from 0.54045
100/100 [=====] - 90s 875ms/step - loss: 1.4120 - dice_soft:
0.6470 - dice_crossentropy: 0.5065 - val_loss: 1.7448 - val_dice_soft: 0.4880 - val_d
ice_crossentropy: 0.6164 - lr: 1.0000e-05
Epoch 204/500
100/100 [=====] - ETA: 0s - loss: 1.3716 - dice_soft: 0.6571
- dice_crossentropy: 0.5142
Epoch 00204: val_loss did not improve from 0.54045
100/100 [=====] - 94s 929ms/step - loss: 1.3716 - dice_soft:
0.6571 - dice_crossentropy: 0.5142 - val_loss: 2.0802 - val_dice_soft: 0.5372 - val_d
ice_crossentropy: 0.4786 - lr: 1.0000e-05
Epoch 205/500
100/100 [=====] - ETA: 0s - loss: 1.4461 - dice_soft: 0.6385
- dice_crossentropy: 0.5244
Epoch 00205: val_loss did not improve from 0.54045
100/100 [=====] - 94s 926ms/step - loss: 1.4461 - dice_soft:
0.6385 - dice_crossentropy: 0.5244 - val_loss: 1.7769 - val_dice_soft: 0.5068 - val_d
ice_crossentropy: 0.5663 - lr: 1.0000e-05
Epoch 206/500
100/100 [=====] - ETA: 0s - loss: 1.3316 - dice_soft: 0.6671
- dice_crossentropy: 0.4867
Epoch 00206: val_loss did not improve from 0.54045
100/100 [=====] - 91s 894ms/step - loss: 1.3316 - dice_soft:
0.6671 - dice_crossentropy: 0.4867 - val_loss: 2.2463 - val_dice_soft: 0.3742 - val_d
ice_crossentropy: 0.6434 - lr: 1.0000e-05
Epoch 207/500
100/100 [=====] - ETA: 0s - loss: 1.3695 - dice_soft: 0.6576
- dice_crossentropy: 0.4903
Epoch 00207: val_loss did not improve from 0.54045
100/100 [=====] - 91s 885ms/step - loss: 1.3695 - dice_soft:
0.6576 - dice_crossentropy: 0.4903 - val_loss: 2.1852 - val_dice_soft: 0.4444 - val_d
ice_crossentropy: 0.6338 - lr: 1.0000e-05
Epoch 208/500
100/100 [=====] - ETA: 0s - loss: 1.3954 - dice_soft: 0.6512
- dice_crossentropy: 0.5008
Epoch 00208: val_loss did not improve from 0.54045
100/100 [=====] - 87s 855ms/step - loss: 1.3954 - dice_soft:
0.6512 - dice_crossentropy: 0.5008 - val_loss: 1.2474 - val_dice_soft: 0.6402 - val_d
ice_crossentropy: 0.4518 - lr: 1.0000e-05
Epoch 209/500
100/100 [=====] - ETA: 0s - loss: 1.3292 - dice_soft: 0.6677
- dice_crossentropy: 0.4898
Epoch 00209: val_loss did not improve from 0.54045
100/100 [=====] - 88s 862ms/step - loss: 1.3292 - dice_soft:
0.6677 - dice_crossentropy: 0.4898 - val_loss: 0.7241 - val_dice_soft: 0.8087 - val_d
ice_crossentropy: 0.3452 - lr: 1.0000e-05
Epoch 210/500
100/100 [=====] - ETA: 0s - loss: 1.4926 - dice_soft: 0.6268
- dice_crossentropy: 0.5256
Epoch 00210: val_loss did not improve from 0.54045
100/100 [=====] - 91s 894ms/step - loss: 1.4926 - dice_soft:
0.6268 - dice_crossentropy: 0.5256 - val_loss: 1.0445 - val_dice_soft: 0.7635 - val_d
ice_crossentropy: 0.4379 - lr: 1.0000e-05
Epoch 211/500
100/100 [=====] - ETA: 0s - loss: 1.4338 - dice_soft: 0.6416
- dice_crossentropy: 0.5236
Epoch 00211: val_loss did not improve from 0.54045
```

```
100/100 [=====] - 91s 886ms/step - loss: 1.4338 - dice_soft:
0.6416 - dice_crossentropy: 0.5236 - val_loss: 1.0338 - val_dice_soft: 0.6997 - val_d
ice_crossentropy: 0.4590 - lr: 1.0000e-05
Epoch 212/500
100/100 [=====] - ETA: 0s - loss: 1.3267 - dice_soft: 0.6683
- dice_crossentropy: 0.4966
Epoch 00212: val_loss did not improve from 0.54045
100/100 [=====] - 88s 875ms/step - loss: 1.3267 - dice_soft:
0.6683 - dice_crossentropy: 0.4966 - val_loss: 1.3798 - val_dice_soft: 0.6982 - val_d
ice_crossentropy: 0.4824 - lr: 1.0000e-05
Epoch 213/500
100/100 [=====] - ETA: 0s - loss: 1.3587 - dice_soft: 0.6603
- dice_crossentropy: 0.5016
Epoch 00213: val_loss did not improve from 0.54045
100/100 [=====] - 88s 868ms/step - loss: 1.3587 - dice_soft:
0.6603 - dice_crossentropy: 0.5016 - val_loss: 1.2982 - val_dice_soft: 0.6543 - val_d
ice_crossentropy: 0.5023 - lr: 1.0000e-05
Epoch 214/500
100/100 [=====] - ETA: 0s - loss: 1.3436 - dice_soft: 0.6641
- dice_crossentropy: 0.4966
Epoch 00214: val_loss did not improve from 0.54045
100/100 [=====] - 89s 869ms/step - loss: 1.3436 - dice_soft:
0.6641 - dice_crossentropy: 0.4966 - val_loss: 0.8458 - val_dice_soft: 0.7983 - val_d
ice_crossentropy: 0.3570 - lr: 1.0000e-05
Epoch 215/500
100/100 [=====] - ETA: 0s - loss: 1.5019 - dice_soft: 0.6245
- dice_crossentropy: 0.5301
Epoch 00215: val_loss did not improve from 0.54045
100/100 [=====] - 95s 939ms/step - loss: 1.5019 - dice_soft:
0.6245 - dice_crossentropy: 0.5301 - val_loss: 1.2557 - val_dice_soft: 0.7328 - val_d
ice_crossentropy: 0.4725 - lr: 1.0000e-05
Epoch 216/500
100/100 [=====] - ETA: 0s - loss: 1.4401 - dice_soft: 0.6400
- dice_crossentropy: 0.5124
Epoch 00216: val_loss did not improve from 0.54045
100/100 [=====] - 89s 881ms/step - loss: 1.4401 - dice_soft:
0.6400 - dice_crossentropy: 0.5124 - val_loss: 1.1978 - val_dice_soft: 0.7539 - val_d
ice_crossentropy: 0.3542 - lr: 1.0000e-05
Epoch 217/500
100/100 [=====] - ETA: 0s - loss: 1.2817 - dice_soft: 0.6796
- dice_crossentropy: 0.4879
Epoch 00217: val_loss did not improve from 0.54045
100/100 [=====] - 90s 884ms/step - loss: 1.2817 - dice_soft:
0.6796 - dice_crossentropy: 0.4879 - val_loss: 1.8211 - val_dice_soft: 0.5200 - val_d
ice_crossentropy: 0.5365 - lr: 1.0000e-05
Epoch 218/500
100/100 [=====] - ETA: 0s - loss: 1.4373 - dice_soft: 0.6407
- dice_crossentropy: 0.5056
Epoch 00218: val_loss did not improve from 0.54045
100/100 [=====] - 88s 860ms/step - loss: 1.4373 - dice_soft:
0.6407 - dice_crossentropy: 0.5056 - val_loss: 0.7406 - val_dice_soft: 0.8179 - val_d
ice_crossentropy: 0.3867 - lr: 1.0000e-05
Epoch 219/500
100/100 [=====] - ETA: 0s - loss: 1.3829 - dice_soft: 0.6543
- dice_crossentropy: 0.4929
Epoch 00219: val_loss did not improve from 0.54045
100/100 [=====] - 91s 881ms/step - loss: 1.3829 - dice_soft:
0.6543 - dice_crossentropy: 0.4929 - val_loss: 1.2544 - val_dice_soft: 0.6347 - val_d
ice_crossentropy: 0.4543 - lr: 1.0000e-05
Epoch 220/500
100/100 [=====] - ETA: 0s - loss: 1.4266 - dice_soft: 0.6434
- dice_crossentropy: 0.5129
Epoch 00220: val_loss did not improve from 0.54045
100/100 [=====] - 92s 893ms/step - loss: 1.4266 - dice_soft:
0.6434 - dice_crossentropy: 0.5129 - val_loss: 1.1980 - val_dice_soft: 0.7239 - val_d
ice_crossentropy: 0.3841 - lr: 1.0000e-05
```

Epoch 221/500
100/100 [=====] - ETA: 0s - loss: 1.2930 - dice_soft: 0.6768
- dice_crossentropy: 0.4873
Epoch 00221: val_loss did not improve from 0.54045
100/100 [=====] - 90s 880ms/step - loss: 1.2930 - dice_soft:
0.6768 - dice_crossentropy: 0.4873 - val_loss: 1.5978 - val_dice_soft: 0.6496 - val_d
ice_crossentropy: 0.4313 - lr: 1.0000e-05
Epoch 222/500
100/100 [=====] - ETA: 0s - loss: 1.4294 - dice_soft: 0.6427
- dice_crossentropy: 0.5107
Epoch 00222: val_loss did not improve from 0.54045
100/100 [=====] - 91s 894ms/step - loss: 1.4294 - dice_soft:
0.6427 - dice_crossentropy: 0.5107 - val_loss: 2.1025 - val_dice_soft: 0.5196 - val_d
ice_crossentropy: 0.6033 - lr: 1.0000e-05
Epoch 223/500
100/100 [=====] - ETA: 0s - loss: 1.2856 - dice_soft: 0.6786
- dice_crossentropy: 0.4716
Epoch 00223: val_loss did not improve from 0.54045
100/100 [=====] - 92s 908ms/step - loss: 1.2856 - dice_soft:
0.6786 - dice_crossentropy: 0.4716 - val_loss: 1.7272 - val_dice_soft: 0.4923 - val_d
ice_crossentropy: 0.6380 - lr: 1.0000e-05
Epoch 224/500
100/100 [=====] - ETA: 0s - loss: 1.4050 - dice_soft: 0.6487
- dice_crossentropy: 0.5022
Epoch 00224: val_loss did not improve from 0.54045
100/100 [=====] - 88s 878ms/step - loss: 1.4050 - dice_soft:
0.6487 - dice_crossentropy: 0.5022 - val_loss: 2.0586 - val_dice_soft: 0.4603 - val_d
ice_crossentropy: 0.6231 - lr: 1.0000e-05
Epoch 225/500
100/100 [=====] - ETA: 0s - loss: 1.4008 - dice_soft: 0.6498
- dice_crossentropy: 0.4996
Epoch 00225: val_loss did not improve from 0.54045
100/100 [=====] - 87s 858ms/step - loss: 1.4008 - dice_soft:
0.6498 - dice_crossentropy: 0.4996 - val_loss: 0.9458 - val_dice_soft: 0.7723 - val_d
ice_crossentropy: 0.3982 - lr: 1.0000e-05
Epoch 226/500
100/100 [=====] - ETA: 0s - loss: 1.4164 - dice_soft: 0.6459
- dice_crossentropy: 0.5036
Epoch 00226: val_loss did not improve from 0.54045
100/100 [=====] - 91s 903ms/step - loss: 1.4164 - dice_soft:
0.6459 - dice_crossentropy: 0.5036 - val_loss: 1.1271 - val_dice_soft: 0.7207 - val_d
ice_crossentropy: 0.4429 - lr: 1.0000e-05
Epoch 227/500
100/100 [=====] - ETA: 0s - loss: 1.3224 - dice_soft: 0.6694
- dice_crossentropy: 0.4921
Epoch 00227: val_loss did not improve from 0.54045
100/100 [=====] - 90s 889ms/step - loss: 1.3224 - dice_soft:
0.6694 - dice_crossentropy: 0.4921 - val_loss: 1.4366 - val_dice_soft: 0.6568 - val_d
ice_crossentropy: 0.3937 - lr: 1.0000e-05
Epoch 228/500
100/100 [=====] - ETA: 0s - loss: 1.4186 - dice_soft: 0.6453
- dice_crossentropy: 0.5080
Epoch 00228: val_loss did not improve from 0.54045
100/100 [=====] - 92s 895ms/step - loss: 1.4186 - dice_soft:
0.6453 - dice_crossentropy: 0.5080 - val_loss: 1.4569 - val_dice_soft: 0.6996 - val_d
ice_crossentropy: 0.4120 - lr: 1.0000e-05
Epoch 229/500
100/100 [=====] - ETA: 0s - loss: 1.4223 - dice_soft: 0.6444
- dice_crossentropy: 0.5101
Epoch 00229: val_loss did not improve from 0.54045
100/100 [=====] - 89s 894ms/step - loss: 1.4223 - dice_soft:
0.6444 - dice_crossentropy: 0.5101 - val_loss: 1.7024 - val_dice_soft: 0.5184 - val_d
ice_crossentropy: 0.5806 - lr: 1.0000e-05
Epoch 230/500
100/100 [=====] - ETA: 0s - loss: 1.4154 - dice_soft: 0.6462
- dice_crossentropy: 0.5062

Epoch 00230: val_loss did not improve from 0.54045
100/100 [=====] - 91s 879ms/step - loss: 1.4154 - dice_soft:
0.6462 - dice_crossentropy: 0.5062 - val_loss: 0.9894 - val_dice_soft: 0.7543 - val_d
ice_crossentropy: 0.3701 - lr: 1.0000e-05
Epoch 231/500
100/100 [=====] - ETA: 0s - loss: 1.3350 - dice_soft: 0.6662
- dice_crossentropy: 0.4873
Epoch 00231: val_loss did not improve from 0.54045
100/100 [=====] - 93s 920ms/step - loss: 1.3350 - dice_soft:
0.6662 - dice_crossentropy: 0.4873 - val_loss: 1.1470 - val_dice_soft: 0.7330 - val_d
ice_crossentropy: 0.4172 - lr: 1.0000e-05
Epoch 232/500
100/100 [=====] - ETA: 0s - loss: 1.4526 - dice_soft: 0.6369
- dice_crossentropy: 0.5134
Epoch 00232: val_loss did not improve from 0.54045
100/100 [=====] - 89s 879ms/step - loss: 1.4526 - dice_soft:
0.6369 - dice_crossentropy: 0.5134 - val_loss: 0.6847 - val_dice_soft: 0.8199 - val_d
ice_crossentropy: 0.3521 - lr: 1.0000e-05
Epoch 233/500
100/100 [=====] - ETA: 0s - loss: 1.3830 - dice_soft: 0.6542
- dice_crossentropy: 0.4940
Epoch 00233: val_loss did not improve from 0.54045
100/100 [=====] - 87s 865ms/step - loss: 1.3830 - dice_soft:
0.6542 - dice_crossentropy: 0.4940 - val_loss: 1.5642 - val_dice_soft: 0.6271 - val_d
ice_crossentropy: 0.4570 - lr: 1.0000e-05
Epoch 234/500
100/100 [=====] - ETA: 0s - loss: 1.3954 - dice_soft: 0.6512
- dice_crossentropy: 0.4994
Epoch 00234: val_loss did not improve from 0.54045
100/100 [=====] - 92s 892ms/step - loss: 1.3954 - dice_soft:
0.6512 - dice_crossentropy: 0.4994 - val_loss: 2.0503 - val_dice_soft: 0.4684 - val_d
ice_crossentropy: 0.6580 - lr: 1.0000e-05
Epoch 235/500
100/100 [=====] - ETA: 0s - loss: 1.3882 - dice_soft: 0.6529
- dice_crossentropy: 0.4988
Epoch 00235: val_loss did not improve from 0.54045
100/100 [=====] - 89s 895ms/step - loss: 1.3882 - dice_soft:
0.6529 - dice_crossentropy: 0.4988 - val_loss: 2.0882 - val_dice_soft: 0.4724 - val_d
ice_crossentropy: 0.5506 - lr: 1.0000e-05
Epoch 236/500
100/100 [=====] - ETA: 0s - loss: 1.4100 - dice_soft: 0.6475
- dice_crossentropy: 0.5038
Epoch 00236: val_loss did not improve from 0.54045
100/100 [=====] - 90s 882ms/step - loss: 1.4100 - dice_soft:
0.6475 - dice_crossentropy: 0.5038 - val_loss: 0.9799 - val_dice_soft: 0.7515 - val_d
ice_crossentropy: 0.3456 - lr: 1.0000e-05
Epoch 237/500
100/100 [=====] - ETA: 0s - loss: 1.4354 - dice_soft: 0.6412
- dice_crossentropy: 0.5050
Epoch 00237: val_loss did not improve from 0.54045
100/100 [=====] - 91s 885ms/step - loss: 1.4354 - dice_soft:
0.6412 - dice_crossentropy: 0.5050 - val_loss: 1.3129 - val_dice_soft: 0.7205 - val_d
ice_crossentropy: 0.3442 - lr: 1.0000e-05
Epoch 238/500
100/100 [=====] - ETA: 0s - loss: 1.2722 - dice_soft: 0.6819
- dice_crossentropy: 0.4656
Epoch 00238: val_loss did not improve from 0.54045
100/100 [=====] - 88s 861ms/step - loss: 1.2722 - dice_soft:
0.6819 - dice_crossentropy: 0.4656 - val_loss: 2.0625 - val_dice_soft: 0.5026 - val_d
ice_crossentropy: 0.5801 - lr: 1.0000e-05
Epoch 239/500
100/100 [=====] - ETA: 0s - loss: 1.3930 - dice_soft: 0.6518
- dice_crossentropy: 0.4936
Epoch 00239: val_loss did not improve from 0.54045
100/100 [=====] - 88s 864ms/step - loss: 1.3930 - dice_soft:
0.6518 - dice_crossentropy: 0.4936 - val_loss: 0.8389 - val_dice_soft: 0.7798 - val_d

ice_crossentropy: 0.3992 - lr: 1.0000e-05
Epoch 240/500
100/100 [=====] - ETA: 0s - loss: 1.3676 - dice_soft: 0.6581
- dice_crossentropy: 0.4874
Epoch 00240: val_loss did not improve from 0.54045
100/100 [=====] - 89s 882ms/step - loss: 1.3676 - dice_soft:
0.6581 - dice_crossentropy: 0.4874 - val_loss: 1.7877 - val_dice_soft: 0.5496 - val_d
ice_crossentropy: 0.5112 - lr: 1.0000e-05
Epoch 241/500
100/100 [=====] - ETA: 0s - loss: 1.4453 - dice_soft: 0.6387
- dice_crossentropy: 0.5023
Epoch 00241: val_loss did not improve from 0.54045
100/100 [=====] - 90s 875ms/step - loss: 1.4453 - dice_soft:
0.6387 - dice_crossentropy: 0.5023 - val_loss: 1.3964 - val_dice_soft: 0.6765 - val_d
ice_crossentropy: 0.4280 - lr: 1.0000e-05
Epoch 242/500
100/100 [=====] - ETA: 0s - loss: 1.4025 - dice_soft: 0.6494
- dice_crossentropy: 0.4960
Epoch 00242: val_loss did not improve from 0.54045
100/100 [=====] - 91s 900ms/step - loss: 1.4025 - dice_soft:
0.6494 - dice_crossentropy: 0.4960 - val_loss: 0.7866 - val_dice_soft: 0.8136 - val_d
ice_crossentropy: 0.3070 - lr: 1.0000e-05
Epoch 243/500
100/100 [=====] - ETA: 0s - loss: 1.4464 - dice_soft: 0.6384
- dice_crossentropy: 0.5026
Epoch 00243: val_loss did not improve from 0.54045
100/100 [=====] - 93s 892ms/step - loss: 1.4464 - dice_soft:
0.6384 - dice_crossentropy: 0.5026 - val_loss: 2.3633 - val_dice_soft: 0.3831 - val_d
ice_crossentropy: 0.6281 - lr: 1.0000e-05
Epoch 244/500
100/100 [=====] - ETA: 0s - loss: 1.4788 - dice_soft: 0.6303
- dice_crossentropy: 0.5130
Epoch 00244: val_loss did not improve from 0.54045
100/100 [=====] - 90s 884ms/step - loss: 1.4788 - dice_soft:
0.6303 - dice_crossentropy: 0.5130 - val_loss: 1.5090 - val_dice_soft: 0.5653 - val_d
ice_crossentropy: 0.5046 - lr: 1.0000e-05
Epoch 245/500
100/100 [=====] - ETA: 0s - loss: 1.4031 - dice_soft: 0.6492
- dice_crossentropy: 0.5039
Epoch 00245: val_loss did not improve from 0.54045
100/100 [=====] - 91s 896ms/step - loss: 1.4031 - dice_soft:
0.6492 - dice_crossentropy: 0.5039 - val_loss: 0.6771 - val_dice_soft: 0.8245 - val_d
ice_crossentropy: 0.2491 - lr: 1.0000e-05
Epoch 246/500
100/100 [=====] - ETA: 0s - loss: 1.4412 - dice_soft: 0.6397
- dice_crossentropy: 0.5022
Epoch 00246: val_loss did not improve from 0.54045
100/100 [=====] - 90s 866ms/step - loss: 1.4412 - dice_soft:
0.6397 - dice_crossentropy: 0.5022 - val_loss: 1.2045 - val_dice_soft: 0.6488 - val_d
ice_crossentropy: 0.4805 - lr: 1.0000e-05
Epoch 247/500
100/100 [=====] - ETA: 0s - loss: 1.4980 - dice_soft: 0.6255
- dice_crossentropy: 0.5194
Epoch 00247: val_loss did not improve from 0.54045
100/100 [=====] - 91s 873ms/step - loss: 1.4980 - dice_soft:
0.6255 - dice_crossentropy: 0.5194 - val_loss: 1.1561 - val_dice_soft: 0.7508 - val_d
ice_crossentropy: 0.3538 - lr: 1.0000e-05
Epoch 248/500
100/100 [=====] - ETA: 0s - loss: 1.3878 - dice_soft: 0.6531
- dice_crossentropy: 0.5058
Epoch 00248: val_loss did not improve from 0.54045
100/100 [=====] - 90s 898ms/step - loss: 1.3878 - dice_soft:
0.6531 - dice_crossentropy: 0.5058 - val_loss: 1.1378 - val_dice_soft: 0.6767 - val_d
ice_crossentropy: 0.5655 - lr: 1.0000e-05
Epoch 249/500
100/100 [=====] - ETA: 0s - loss: 1.4276 - dice_soft: 0.6431

- dice_crossentropy: 0.4921
Epoch 00249: val_loss did not improve from 0.54045
100/100 [=====] - 91s 869ms/step - loss: 1.4276 - dice_soft:
0.6431 - dice_crossentropy: 0.4921 - val_loss: 1.7960 - val_dice_soft: 0.5558 - val_d
ice_crossentropy: 0.4888 - lr: 1.0000e-05
Epoch 250/500
100/100 [=====] - ETA: 0s - loss: 1.3531 - dice_soft: 0.6617
- dice_crossentropy: 0.4964
Epoch 00250: val_loss did not improve from 0.54045
100/100 [=====] - 91s 884ms/step - loss: 1.3531 - dice_soft:
0.6617 - dice_crossentropy: 0.4964 - val_loss: 1.4910 - val_dice_soft: 0.5802 - val_d
ice_crossentropy: 0.4914 - lr: 1.0000e-05
Epoch 251/500
100/100 [=====] - ETA: 0s - loss: 1.4138 - dice_soft: 0.6466
- dice_crossentropy: 0.5040
Epoch 00251: val_loss did not improve from 0.54045
100/100 [=====] - 89s 865ms/step - loss: 1.4138 - dice_soft:
0.6466 - dice_crossentropy: 0.5040 - val_loss: 1.4875 - val_dice_soft: 0.6265 - val_d
ice_crossentropy: 0.4904 - lr: 1.0000e-05
Epoch 252/500
100/100 [=====] - ETA: 0s - loss: 1.3972 - dice_soft: 0.6507
- dice_crossentropy: 0.4924
Epoch 00252: val_loss did not improve from 0.54045
100/100 [=====] - 90s 890ms/step - loss: 1.3972 - dice_soft:
0.6507 - dice_crossentropy: 0.4924 - val_loss: 1.4819 - val_dice_soft: 0.6080 - val_d
ice_crossentropy: 0.5027 - lr: 1.0000e-05
Epoch 253/500
100/100 [=====] - ETA: 0s - loss: 1.5449 - dice_soft: 0.6138
- dice_crossentropy: 0.5252
Epoch 00253: val_loss did not improve from 0.54045
100/100 [=====] - 90s 881ms/step - loss: 1.5449 - dice_soft:
0.6138 - dice_crossentropy: 0.5252 - val_loss: 0.8057 - val_dice_soft: 0.7940 - val_d
ice_crossentropy: 0.3607 - lr: 1.0000e-05
Epoch 254/500
100/100 [=====] - ETA: 0s - loss: 1.3921 - dice_soft: 0.6520
- dice_crossentropy: 0.4996
Epoch 00254: val_loss did not improve from 0.54045
100/100 [=====] - 90s 886ms/step - loss: 1.3921 - dice_soft:
0.6520 - dice_crossentropy: 0.4996 - val_loss: 1.6206 - val_dice_soft: 0.5667 - val_d
ice_crossentropy: 0.6041 - lr: 1.0000e-05
Epoch 255/500
100/100 [=====] - ETA: 0s - loss: 1.4519 - dice_soft: 0.6370
- dice_crossentropy: 0.5130
Epoch 00255: val_loss did not improve from 0.54045
100/100 [=====] - 91s 895ms/step - loss: 1.4519 - dice_soft:
0.6370 - dice_crossentropy: 0.5130 - val_loss: 0.7365 - val_dice_soft: 0.8101 - val_d
ice_crossentropy: 0.4068 - lr: 1.0000e-05
Epoch 256/500
100/100 [=====] - ETA: 0s - loss: 1.3788 - dice_soft: 0.6553
- dice_crossentropy: 0.4969
Epoch 00256: val_loss did not improve from 0.54045
100/100 [=====] - 89s 865ms/step - loss: 1.3788 - dice_soft:
0.6553 - dice_crossentropy: 0.4969 - val_loss: 1.7134 - val_dice_soft: 0.5656 - val_d
ice_crossentropy: 0.5425 - lr: 1.0000e-05
Epoch 257/500
100/100 [=====] - ETA: 0s - loss: 1.4268 - dice_soft: 0.6433
- dice_crossentropy: 0.4995
Epoch 00257: val_loss did not improve from 0.54045
100/100 [=====] - 92s 892ms/step - loss: 1.4268 - dice_soft:
0.6433 - dice_crossentropy: 0.4995 - val_loss: 0.8713 - val_dice_soft: 0.7921 - val_d
ice_crossentropy: 0.3479 - lr: 1.0000e-05
Epoch 258/500
100/100 [=====] - ETA: 0s - loss: 1.2345 - dice_soft: 0.6914
- dice_crossentropy: 0.4770
Epoch 00258: val_loss did not improve from 0.54045
100/100 [=====] - 90s 891ms/step - loss: 1.2345 - dice_soft:

0.6914 - dice_crossentropy: 0.4770 - val_loss: 1.5937 - val_dice_soft: 0.5882 - val_dice_crossentropy: 0.4993 - lr: 1.0000e-05
Epoch 259/500
100/100 [=====] - ETA: 0s - loss: 1.3931 - dice_soft: 0.6517
- dice_crossentropy: 0.4881
Epoch 00259: val_loss improved from 0.54045 to 0.53244, saving model to evaluation/ folder_2/model.hdf5
100/100 [=====] - 92s 915ms/step - loss: 1.3931 - dice_soft: 0.6517 - dice_crossentropy: 0.4881 - val_loss: 0.5324 - val_dice_soft: 0.8641 - val_dice_crossentropy: 0.3276 - lr: 1.0000e-05
Epoch 260/500
100/100 [=====] - ETA: 0s - loss: 1.3979 - dice_soft: 0.6505
- dice_crossentropy: 0.5027
Epoch 00260: val_loss did not improve from 0.53244
100/100 [=====] - 90s 878ms/step - loss: 1.3979 - dice_soft: 0.6505 - dice_crossentropy: 0.5027 - val_loss: 1.5934 - val_dice_soft: 0.6901 - val_dice_crossentropy: 0.4377 - lr: 1.0000e-05
Epoch 261/500
100/100 [=====] - ETA: 0s - loss: 1.3252 - dice_soft: 0.6687
- dice_crossentropy: 0.4877
Epoch 00261: val_loss did not improve from 0.53244
100/100 [=====] - 92s 910ms/step - loss: 1.3252 - dice_soft: 0.6687 - dice_crossentropy: 0.4877 - val_loss: 1.4513 - val_dice_soft: 0.7124 - val_dice_crossentropy: 0.4159 - lr: 1.0000e-05
Epoch 262/500
100/100 [=====] - ETA: 0s - loss: 1.3850 - dice_soft: 0.6537
- dice_crossentropy: 0.4865
Epoch 00262: val_loss did not improve from 0.53244
100/100 [=====] - 91s 885ms/step - loss: 1.3850 - dice_soft: 0.6537 - dice_crossentropy: 0.4865 - val_loss: 1.7140 - val_dice_soft: 0.5348 - val_dice_crossentropy: 0.4785 - lr: 1.0000e-05
Epoch 263/500
100/100 [=====] - ETA: 0s - loss: 1.5034 - dice_soft: 0.6242
- dice_crossentropy: 0.5188
Epoch 00263: val_loss did not improve from 0.53244
100/100 [=====] - 90s 874ms/step - loss: 1.5034 - dice_soft: 0.6242 - dice_crossentropy: 0.5188 - val_loss: 1.7653 - val_dice_soft: 0.5511 - val_dice_crossentropy: 0.5478 - lr: 1.0000e-05
Epoch 264/500
100/100 [=====] - ETA: 0s - loss: 1.3384 - dice_soft: 0.6654
- dice_crossentropy: 0.4913
Epoch 00264: val_loss did not improve from 0.53244
100/100 [=====] - 92s 907ms/step - loss: 1.3384 - dice_soft: 0.6654 - dice_crossentropy: 0.4913 - val_loss: 0.9857 - val_dice_soft: 0.7868 - val_dice_crossentropy: 0.3831 - lr: 1.0000e-05
Epoch 265/500
100/100 [=====] - ETA: 0s - loss: 1.3886 - dice_soft: 0.6528
- dice_crossentropy: 0.4969
Epoch 00265: val_loss did not improve from 0.53244
100/100 [=====] - 88s 852ms/step - loss: 1.3886 - dice_soft: 0.6528 - dice_crossentropy: 0.4969 - val_loss: 1.5088 - val_dice_soft: 0.6847 - val_dice_crossentropy: 0.4551 - lr: 1.0000e-05
Epoch 266/500
100/100 [=====] - ETA: 0s - loss: 1.4246 - dice_soft: 0.6439
- dice_crossentropy: 0.4936
Epoch 00266: val_loss did not improve from 0.53244
100/100 [=====] - 88s 871ms/step - loss: 1.4246 - dice_soft: 0.6439 - dice_crossentropy: 0.4936 - val_loss: 0.6068 - val_dice_soft: 0.8535 - val_dice_crossentropy: 0.3307 - lr: 1.0000e-05
Epoch 267/500
100/100 [=====] - ETA: 0s - loss: 1.3497 - dice_soft: 0.6626
- dice_crossentropy: 0.4932
Epoch 00267: val_loss did not improve from 0.53244
100/100 [=====] - 92s 886ms/step - loss: 1.3497 - dice_soft: 0.6626 - dice_crossentropy: 0.4932 - val_loss: 1.6240 - val_dice_soft: 0.5623 - val_dice_crossentropy: 0.5472 - lr: 1.0000e-05

Epoch 268/500
100/100 [=====] - ETA: 0s - loss: 1.3672 - dice_soft: 0.6582
- dice_crossentropy: 0.4896
Epoch 00268: val_loss did not improve from 0.53244
100/100 [=====] - 91s 884ms/step - loss: 1.3672 - dice_soft:
0.6582 - dice_crossentropy: 0.4896 - val_loss: 1.9603 - val_dice_soft: 0.5376 - val_d
ice_crossentropy: 0.5861 - lr: 1.0000e-05
Epoch 269/500
100/100 [=====] - ETA: 0s - loss: 1.4710 - dice_soft: 0.6322
- dice_crossentropy: 0.5200
Epoch 00269: val_loss did not improve from 0.53244
100/100 [=====] - 91s 890ms/step - loss: 1.4710 - dice_soft:
0.6322 - dice_crossentropy: 0.5200 - val_loss: 0.6236 - val_dice_soft: 0.8439 - val_d
ice_crossentropy: 0.2962 - lr: 1.0000e-05
Epoch 270/500
100/100 [=====] - ETA: 0s - loss: 1.3390 - dice_soft: 0.6652
- dice_crossentropy: 0.4797
Epoch 00270: val_loss did not improve from 0.53244
100/100 [=====] - 88s 862ms/step - loss: 1.3390 - dice_soft:
0.6652 - dice_crossentropy: 0.4797 - val_loss: 1.5192 - val_dice_soft: 0.6278 - val_d
ice_crossentropy: 0.4244 - lr: 1.0000e-05
Epoch 271/500
100/100 [=====] - ETA: 0s - loss: 1.3232 - dice_soft: 0.6692
- dice_crossentropy: 0.4849
Epoch 00271: val_loss did not improve from 0.53244
100/100 [=====] - 91s 881ms/step - loss: 1.3232 - dice_soft:
0.6692 - dice_crossentropy: 0.4849 - val_loss: 1.2775 - val_dice_soft: 0.7374 - val_d
ice_crossentropy: 0.3950 - lr: 1.0000e-05
Epoch 272/500
100/100 [=====] - ETA: 0s - loss: 1.4422 - dice_soft: 0.6395
- dice_crossentropy: 0.5161
Epoch 00272: val_loss did not improve from 0.53244
100/100 [=====] - 90s 882ms/step - loss: 1.4422 - dice_soft:
0.6395 - dice_crossentropy: 0.5161 - val_loss: 0.7992 - val_dice_soft: 0.8088 - val_d
ice_crossentropy: 0.3011 - lr: 1.0000e-05
Epoch 273/500
100/100 [=====] - ETA: 0s - loss: 1.3233 - dice_soft: 0.6692
- dice_crossentropy: 0.4907
Epoch 00273: val_loss did not improve from 0.53244
100/100 [=====] - 89s 878ms/step - loss: 1.3233 - dice_soft:
0.6692 - dice_crossentropy: 0.4907 - val_loss: 0.7989 - val_dice_soft: 0.8123 - val_d
ice_crossentropy: 0.3292 - lr: 1.0000e-05
Epoch 274/500
100/100 [=====] - ETA: 0s - loss: 1.3771 - dice_soft: 0.6557
- dice_crossentropy: 0.4992
Epoch 00274: val_loss did not improve from 0.53244
100/100 [=====] - 89s 877ms/step - loss: 1.3771 - dice_soft:
0.6557 - dice_crossentropy: 0.4992 - val_loss: 0.8050 - val_dice_soft: 0.8178 - val_d
ice_crossentropy: 0.3399 - lr: 1.0000e-05
Epoch 275/500
100/100 [=====] - ETA: 0s - loss: 1.3720 - dice_soft: 0.6570
- dice_crossentropy: 0.4913
Epoch 00275: val_loss did not improve from 0.53244
100/100 [=====] - 88s 860ms/step - loss: 1.3720 - dice_soft:
0.6570 - dice_crossentropy: 0.4913 - val_loss: 1.2234 - val_dice_soft: 0.6665 - val_d
ice_crossentropy: 0.4723 - lr: 1.0000e-05
Epoch 276/500
100/100 [=====] - ETA: 0s - loss: 1.3118 - dice_soft: 0.6721
- dice_crossentropy: 0.4713
Epoch 00276: val_loss did not improve from 0.53244
100/100 [=====] - 88s 879ms/step - loss: 1.3118 - dice_soft:
0.6721 - dice_crossentropy: 0.4713 - val_loss: 1.4374 - val_dice_soft: 0.6681 - val_d
ice_crossentropy: 0.5036 - lr: 1.0000e-05
Epoch 277/500
100/100 [=====] - ETA: 0s - loss: 1.2682 - dice_soft: 0.6830
- dice_crossentropy: 0.4751

Epoch 00277: val_loss did not improve from 0.53244
100/100 [=====] - 89s 869ms/step - loss: 1.2682 - dice_soft:
0.6830 - dice_crossentropy: 0.4751 - val_loss: 1.9284 - val_dice_soft: 0.5189 - val_d
ice_crossentropy: 0.5609 - lr: 1.0000e-05
Epoch 278/500
100/100 [=====] - ETA: 0s - loss: 1.4622 - dice_soft: 0.6345
- dice_crossentropy: 0.5166
Epoch 00278: val_loss did not improve from 0.53244
100/100 [=====] - 90s 877ms/step - loss: 1.4622 - dice_soft:
0.6345 - dice_crossentropy: 0.5166 - val_loss: 1.8202 - val_dice_soft: 0.6187 - val_d
ice_crossentropy: 0.6138 - lr: 1.0000e-05
Epoch 279/500
100/100 [=====] - ETA: 0s - loss: 1.3632 - dice_soft: 0.6592
- dice_crossentropy: 0.4796
Epoch 00279: val_loss did not improve from 0.53244
100/100 [=====] - 88s 864ms/step - loss: 1.3632 - dice_soft:
0.6592 - dice_crossentropy: 0.4796 - val_loss: 0.9260 - val_dice_soft: 0.7350 - val_d
ice_crossentropy: 0.3871 - lr: 1.0000e-05
Epoch 280/500
100/100 [=====] - ETA: 0s - loss: 1.2461 - dice_soft: 0.6885
- dice_crossentropy: 0.4650
Epoch 00280: val_loss did not improve from 0.53244
100/100 [=====] - 89s 873ms/step - loss: 1.2461 - dice_soft:
0.6885 - dice_crossentropy: 0.4650 - val_loss: 1.1452 - val_dice_soft: 0.7629 - val_d
ice_crossentropy: 0.3140 - lr: 1.0000e-05
Epoch 281/500
100/100 [=====] - ETA: 0s - loss: 1.5238 - dice_soft: 0.6191
- dice_crossentropy: 0.5244
Epoch 00281: val_loss did not improve from 0.53244
100/100 [=====] - 89s 879ms/step - loss: 1.5238 - dice_soft:
0.6191 - dice_crossentropy: 0.5244 - val_loss: 1.6126 - val_dice_soft: 0.6128 - val_d
ice_crossentropy: 0.5675 - lr: 1.0000e-05
Epoch 282/500
100/100 [=====] - ETA: 0s - loss: 1.3951 - dice_soft: 0.6512
- dice_crossentropy: 0.4889
Epoch 00282: val_loss did not improve from 0.53244
100/100 [=====] - 90s 881ms/step - loss: 1.3951 - dice_soft:
0.6512 - dice_crossentropy: 0.4889 - val_loss: 1.2242 - val_dice_soft: 0.6908 - val_d
ice_crossentropy: 0.4462 - lr: 1.0000e-05
Epoch 283/500
100/100 [=====] - ETA: 0s - loss: 1.3761 - dice_soft: 0.6560
- dice_crossentropy: 0.4950
Epoch 00283: val_loss did not improve from 0.53244
100/100 [=====] - 88s 868ms/step - loss: 1.3761 - dice_soft:
0.6560 - dice_crossentropy: 0.4950 - val_loss: 0.9365 - val_dice_soft: 0.7376 - val_d
ice_crossentropy: 0.4067 - lr: 1.0000e-05
Epoch 284/500
100/100 [=====] - ETA: 0s - loss: 1.2700 - dice_soft: 0.6825
- dice_crossentropy: 0.4639
Epoch 00284: val_loss did not improve from 0.53244
100/100 [=====] - 92s 912ms/step - loss: 1.2700 - dice_soft:
0.6825 - dice_crossentropy: 0.4639 - val_loss: 2.2802 - val_dice_soft: 0.4682 - val_d
ice_crossentropy: 0.5938 - lr: 1.0000e-05
Epoch 285/500
100/100 [=====] - ETA: 0s - loss: 1.3221 - dice_soft: 0.6695
- dice_crossentropy: 0.4877
Epoch 00285: val_loss did not improve from 0.53244
100/100 [=====] - 92s 913ms/step - loss: 1.3221 - dice_soft:
0.6695 - dice_crossentropy: 0.4877 - val_loss: 1.7916 - val_dice_soft: 0.5496 - val_d
ice_crossentropy: 0.5570 - lr: 1.0000e-05
Epoch 286/500
100/100 [=====] - ETA: 0s - loss: 1.3588 - dice_soft: 0.6603
- dice_crossentropy: 0.4742
Epoch 00286: val_loss did not improve from 0.53244
100/100 [=====] - 91s 898ms/step - loss: 1.3588 - dice_soft:
dice_crossentropy: 0.4742 - val_loss: 1.9073 - val_dice_soft: 0.5951 - val_d

```
ice_crossentropy: 0.5004 - lr: 1.0000e-05
Epoch 287/500
100/100 [=====] - ETA: 0s - loss: 1.3828 - dice_soft: 0.6543
- dice_crossentropy: 0.4918
Epoch 00287: val_loss did not improve from 0.53244
100/100 [=====] - 91s 902ms/step - loss: 1.3828 - dice_soft:
0.6543 - dice_crossentropy: 0.4918 - val_loss: 1.9047 - val_dice_soft: 0.5126 - val_d
ice_crossentropy: 0.5524 - lr: 1.0000e-05
Epoch 288/500
100/100 [=====] - ETA: 0s - loss: 1.3044 - dice_soft: 0.6739
- dice_crossentropy: 0.4822
Epoch 00288: val_loss did not improve from 0.53244
100/100 [=====] - 91s 899ms/step - loss: 1.3044 - dice_soft:
0.6739 - dice_crossentropy: 0.4822 - val_loss: 1.2741 - val_dice_soft: 0.6264 - val_d
ice_crossentropy: 0.4397 - lr: 1.0000e-05
Epoch 289/500
100/100 [=====] - ETA: 0s - loss: 1.4390 - dice_soft: 0.6403
- dice_crossentropy: 0.5013
Epoch 00289: val_loss did not improve from 0.53244
100/100 [=====] - 92s 904ms/step - loss: 1.4390 - dice_soft:
0.6403 - dice_crossentropy: 0.5013 - val_loss: 1.4559 - val_dice_soft: 0.6571 - val_d
ice_crossentropy: 0.4507 - lr: 1.0000e-05
Epoch 290/500
100/100 [=====] - ETA: 0s - loss: 1.4498 - dice_soft: 0.6376
- dice_crossentropy: 0.4928
Epoch 00290: val_loss did not improve from 0.53244
100/100 [=====] - 90s 886ms/step - loss: 1.4498 - dice_soft:
0.6376 - dice_crossentropy: 0.4928 - val_loss: 1.8932 - val_dice_soft: 0.4383 - val_d
ice_crossentropy: 0.6253 - lr: 1.0000e-05
Epoch 291/500
100/100 [=====] - ETA: 0s - loss: 1.4514 - dice_soft: 0.6372
- dice_crossentropy: 0.4912
Epoch 00291: val_loss did not improve from 0.53244
100/100 [=====] - 92s 889ms/step - loss: 1.4514 - dice_soft:
0.6372 - dice_crossentropy: 0.4912 - val_loss: 1.4473 - val_dice_soft: 0.6636 - val_d
ice_crossentropy: 0.4703 - lr: 1.0000e-05
Epoch 292/500
100/100 [=====] - ETA: 0s - loss: 1.3124 - dice_soft: 0.6719
- dice_crossentropy: 0.4706
Epoch 00292: val_loss did not improve from 0.53244
100/100 [=====] - 91s 912ms/step - loss: 1.3124 - dice_soft:
0.6719 - dice_crossentropy: 0.4706 - val_loss: 1.2723 - val_dice_soft: 0.6347 - val_d
ice_crossentropy: 0.5047 - lr: 1.0000e-05
Epoch 293/500
100/100 [=====] - ETA: 0s - loss: 1.3502 - dice_soft: 0.6624
- dice_crossentropy: 0.4817
Epoch 00293: val_loss did not improve from 0.53244
100/100 [=====] - 89s 881ms/step - loss: 1.3502 - dice_soft:
0.6624 - dice_crossentropy: 0.4817 - val_loss: 1.6598 - val_dice_soft: 0.5672 - val_d
ice_crossentropy: 0.5024 - lr: 1.0000e-05
Epoch 294/500
100/100 [=====] - ETA: 0s - loss: 1.3600 - dice_soft: 0.6600
- dice_crossentropy: 0.4815
Epoch 00294: val_loss did not improve from 0.53244
100/100 [=====] - 88s 852ms/step - loss: 1.3600 - dice_soft:
0.6600 - dice_crossentropy: 0.4815 - val_loss: 1.3538 - val_dice_soft: 0.7263 - val_d
ice_crossentropy: 0.3802 - lr: 1.0000e-05
Epoch 295/500
100/100 [=====] - ETA: 0s - loss: 1.2967 - dice_soft: 0.6758
- dice_crossentropy: 0.4742
Epoch 00295: val_loss did not improve from 0.53244
100/100 [=====] - 92s 897ms/step - loss: 1.2967 - dice_soft:
0.6758 - dice_crossentropy: 0.4742 - val_loss: 1.1546 - val_dice_soft: 0.7507 - val_d
ice_crossentropy: 0.3611 - lr: 1.0000e-05
Epoch 296/500
Loading [MathJax]/extensions/Safe.js [=====] - ETA: 0s - loss: 1.3798 - dice_soft: 0.6551
```

dice_crossentropy: 0.4987
Epoch 00296: val_loss did not improve from 0.53244
100/100 [=====] - 90s 887ms/step - loss: 1.3798 - dice_soft:
0.6551 - dice_crossentropy: 0.4987 - val_loss: 1.0578 - val_dice_soft: 0.7702 - val_d
ice_crossentropy: 0.3650 - lr: 1.0000e-05
Epoch 297/500
100/100 [=====] - ETA: 0s - loss: 1.3679 - dice_soft: 0.6580
- dice_crossentropy: 0.4830
Epoch 00297: val_loss did not improve from 0.53244
100/100 [=====] - 91s 886ms/step - loss: 1.3679 - dice_soft:
0.6580 - dice_crossentropy: 0.4830 - val_loss: 1.2656 - val_dice_soft: 0.6351 - val_d
ice_crossentropy: 0.4974 - lr: 1.0000e-05
Epoch 298/500
100/100 [=====] - ETA: 0s - loss: 1.2847 - dice_soft: 0.6788
- dice_crossentropy: 0.4848
Epoch 00298: val_loss did not improve from 0.53244
100/100 [=====] - 90s 883ms/step - loss: 1.2847 - dice_soft:
0.6788 - dice_crossentropy: 0.4848 - val_loss: 2.4648 - val_dice_soft: 0.3918 - val_d
ice_crossentropy: 0.6171 - lr: 1.0000e-05
Epoch 299/500
100/100 [=====] - ETA: 0s - loss: 1.4196 - dice_soft: 0.6451
- dice_crossentropy: 0.4897
Epoch 00299: val_loss did not improve from 0.53244
100/100 [=====] - 89s 883ms/step - loss: 1.4196 - dice_soft:
0.6451 - dice_crossentropy: 0.4897 - val_loss: 1.0750 - val_dice_soft: 0.7597 - val_d
ice_crossentropy: 0.4388 - lr: 1.0000e-05
Epoch 300/500
100/100 [=====] - ETA: 0s - loss: 1.3069 - dice_soft: 0.6733
- dice_crossentropy: 0.4657
Epoch 00300: val_loss did not improve from 0.53244
100/100 [=====] - 90s 886ms/step - loss: 1.3069 - dice_soft:
0.6733 - dice_crossentropy: 0.4657 - val_loss: 1.1865 - val_dice_soft: 0.6675 - val_d
ice_crossentropy: 0.4716 - lr: 1.0000e-05
Epoch 301/500
100/100 [=====] - ETA: 0s - loss: 1.4999 - dice_soft: 0.6250
- dice_crossentropy: 0.5067
Epoch 00301: val_loss did not improve from 0.53244
100/100 [=====] - 89s 869ms/step - loss: 1.4999 - dice_soft:
0.6250 - dice_crossentropy: 0.5067 - val_loss: 1.1979 - val_dice_soft: 0.6519 - val_d
ice_crossentropy: 0.4920 - lr: 1.0000e-05
Epoch 302/500
100/100 [=====] - ETA: 0s - loss: 1.4358 - dice_soft: 0.6410
- dice_crossentropy: 0.4983
Epoch 00302: val_loss did not improve from 0.53244
100/100 [=====] - 89s 883ms/step - loss: 1.4358 - dice_soft:
0.6410 - dice_crossentropy: 0.4983 - val_loss: 1.0560 - val_dice_soft: 0.7839 - val_d
ice_crossentropy: 0.3898 - lr: 1.0000e-05
Epoch 303/500
100/100 [=====] - ETA: 0s - loss: 1.3703 - dice_soft: 0.6574
- dice_crossentropy: 0.4881
Epoch 00303: val_loss did not improve from 0.53244
100/100 [=====] - 88s 862ms/step - loss: 1.3703 - dice_soft:
0.6574 - dice_crossentropy: 0.4881 - val_loss: 1.5234 - val_dice_soft: 0.6110 - val_d
ice_crossentropy: 0.5559 - lr: 1.0000e-05
Epoch 304/500
100/100 [=====] - ETA: 0s - loss: 1.2997 - dice_soft: 0.6751
- dice_crossentropy: 0.4740
Epoch 00304: val_loss did not improve from 0.53244
100/100 [=====] - 92s 895ms/step - loss: 1.2997 - dice_soft:
0.6751 - dice_crossentropy: 0.4740 - val_loss: 1.2931 - val_dice_soft: 0.7351 - val_d
ice_crossentropy: 0.4209 - lr: 1.0000e-05
Epoch 305/500
100/100 [=====] - ETA: 0s - loss: 1.3037 - dice_soft: 0.6741
- dice_crossentropy: 0.4801
Epoch 00305: val_loss did not improve from 0.53244
100/100 [=====] - 93s 907ms/step - loss: 1.3037 - dice_soft:

0.6741 - dice_crossentropy: 0.4801 - val_loss: 0.5506 - val_dice_soft: 0.8631 - val_dice_crossentropy: 0.3018 - lr: 1.0000e-05
Epoch 306/500
100/100 [=====] - ETA: 0s - loss: 1.2618 - dice_soft: 0.6846
- dice_crossentropy: 0.4602
Epoch 00306: val_loss did not improve from 0.53244
100/100 [=====] - 91s 904ms/step - loss: 1.2618 - dice_soft:
0.6846 - dice_crossentropy: 0.4602 - val_loss: 1.3655 - val_dice_soft: 0.6398 - val_dice_crossentropy: 0.4233 - lr: 1.0000e-05
Epoch 307/500
100/100 [=====] - ETA: 0s - loss: 1.4188 - dice_soft: 0.6453
- dice_crossentropy: 0.4925
Epoch 00307: val_loss did not improve from 0.53244
100/100 [=====] - 92s 900ms/step - loss: 1.4188 - dice_soft:
0.6453 - dice_crossentropy: 0.4925 - val_loss: 1.4662 - val_dice_soft: 0.7009 - val_dice_crossentropy: 0.3756 - lr: 1.0000e-05
Epoch 308/500
100/100 [=====] - ETA: 0s - loss: 1.4015 - dice_soft: 0.6496
- dice_crossentropy: 0.4986
Epoch 00308: val_loss did not improve from 0.53244
100/100 [=====] - 93s 895ms/step - loss: 1.4015 - dice_soft:
0.6496 - dice_crossentropy: 0.4986 - val_loss: 1.5944 - val_dice_soft: 0.5847 - val_dice_crossentropy: 0.5467 - lr: 1.0000e-05
Epoch 309/500
100/100 [=====] - ETA: 0s - loss: 1.4322 - dice_soft: 0.6419
- dice_crossentropy: 0.5002
Epoch 00309: val_loss did not improve from 0.53244
100/100 [=====] - 92s 892ms/step - loss: 1.4322 - dice_soft:
0.6419 - dice_crossentropy: 0.5002 - val_loss: 1.1885 - val_dice_soft: 0.6751 - val_dice_crossentropy: 0.4558 - lr: 1.0000e-05
Epoch 310/500
100/100 [=====] - ETA: 0s - loss: 1.4127 - dice_soft: 0.6468
- dice_crossentropy: 0.5037
Epoch 00310: val_loss did not improve from 0.53244
100/100 [=====] - 90s 890ms/step - loss: 1.4127 - dice_soft:
0.6468 - dice_crossentropy: 0.5037 - val_loss: 1.5699 - val_dice_soft: 0.6112 - val_dice_crossentropy: 0.4490 - lr: 1.0000e-05
Epoch 311/500
100/100 [=====] - ETA: 0s - loss: 1.2669 - dice_soft: 0.6833
- dice_crossentropy: 0.4675
Epoch 00311: val_loss did not improve from 0.53244
100/100 [=====] - 91s 892ms/step - loss: 1.2669 - dice_soft:
0.6833 - dice_crossentropy: 0.4675 - val_loss: 1.4251 - val_dice_soft: 0.6776 - val_dice_crossentropy: 0.4433 - lr: 1.0000e-05
Epoch 312/500
100/100 [=====] - ETA: 0s - loss: 1.4436 - dice_soft: 0.6391
- dice_crossentropy: 0.4986
Epoch 00312: val_loss did not improve from 0.53244
100/100 [=====] - 91s 868ms/step - loss: 1.4436 - dice_soft:
0.6391 - dice_crossentropy: 0.4986 - val_loss: 2.4941 - val_dice_soft: 0.3651 - val_dice_crossentropy: 0.6413 - lr: 1.0000e-05
Epoch 313/500
100/100 [=====] - ETA: 0s - loss: 1.3534 - dice_soft: 0.6617
- dice_crossentropy: 0.4737
Epoch 00313: val_loss did not improve from 0.53244
100/100 [=====] - 89s 882ms/step - loss: 1.3534 - dice_soft:
0.6617 - dice_crossentropy: 0.4737 - val_loss: 1.3042 - val_dice_soft: 0.6295 - val_dice_crossentropy: 0.4969 - lr: 1.0000e-05
Epoch 314/500
100/100 [=====] - ETA: 0s - loss: 1.3275 - dice_soft: 0.6681
- dice_crossentropy: 0.4700
Epoch 00314: val_loss did not improve from 0.53244
100/100 [=====] - 91s 881ms/step - loss: 1.3275 - dice_soft:
0.6681 - dice_crossentropy: 0.4700 - val_loss: 1.3971 - val_dice_soft: 0.6999 - val_dice_crossentropy: 0.4665 - lr: 1.0000e-05

100/100 [=====] - ETA: 0s - loss: 1.3126 - dice_soft: 0.6718
- dice_crossentropy: 0.4736
Epoch 00315: val_loss did not improve from 0.53244
100/100 [=====] - 90s 878ms/step - loss: 1.3126 - dice_soft:
0.6718 - dice_crossentropy: 0.4736 - val_loss: 1.9069 - val_dice_soft: 0.5189 - val_d
ice_crossentropy: 0.6399 - lr: 1.0000e-05
Epoch 316/500
100/100 [=====] - ETA: 0s - loss: 1.4053 - dice_soft: 0.6487
- dice_crossentropy: 0.4950
Epoch 00316: val_loss did not improve from 0.53244
100/100 [=====] - 91s 902ms/step - loss: 1.4053 - dice_soft:
0.6487 - dice_crossentropy: 0.4950 - val_loss: 2.0225 - val_dice_soft: 0.5773 - val_d
ice_crossentropy: 0.5164 - lr: 1.0000e-05
Epoch 317/500
100/100 [=====] - ETA: 0s - loss: 1.4256 - dice_soft: 0.6436
- dice_crossentropy: 0.4954
Epoch 00317: val_loss did not improve from 0.53244
100/100 [=====] - 90s 884ms/step - loss: 1.4256 - dice_soft:
0.6436 - dice_crossentropy: 0.4954 - val_loss: 0.9668 - val_dice_soft: 0.7920 - val_d
ice_crossentropy: 0.3543 - lr: 1.0000e-05
Epoch 318/500
100/100 [=====] - ETA: 0s - loss: 1.4306 - dice_soft: 0.6424
- dice_crossentropy: 0.4947
Epoch 00318: val_loss did not improve from 0.53244
100/100 [=====] - 93s 903ms/step - loss: 1.4306 - dice_soft:
0.6424 - dice_crossentropy: 0.4947 - val_loss: 0.5648 - val_dice_soft: 0.8664 - val_d
ice_crossentropy: 0.2949 - lr: 1.0000e-05
Epoch 319/500
100/100 [=====] - ETA: 0s - loss: 1.3029 - dice_soft: 0.6743
- dice_crossentropy: 0.4720
Epoch 00319: val_loss did not improve from 0.53244
100/100 [=====] - 90s 897ms/step - loss: 1.3029 - dice_soft:
0.6743 - dice_crossentropy: 0.4720 - val_loss: 1.7738 - val_dice_soft: 0.5553 - val_d
ice_crossentropy: 0.5407 - lr: 1.0000e-05
Epoch 320/500
100/100 [=====] - ETA: 0s - loss: 1.2762 - dice_soft: 0.6810
- dice_crossentropy: 0.4685
Epoch 00320: val_loss did not improve from 0.53244
100/100 [=====] - 91s 893ms/step - loss: 1.2762 - dice_soft:
0.6810 - dice_crossentropy: 0.4685 - val_loss: 1.4156 - val_dice_soft: 0.6501 - val_d
ice_crossentropy: 0.5063 - lr: 1.0000e-05
Epoch 321/500
100/100 [=====] - ETA: 0s - loss: 1.2522 - dice_soft: 0.6869
- dice_crossentropy: 0.4685
Epoch 00321: val_loss did not improve from 0.53244
100/100 [=====] - 90s 884ms/step - loss: 1.2522 - dice_soft:
0.6869 - dice_crossentropy: 0.4685 - val_loss: 1.6462 - val_dice_soft: 0.6692 - val_d
ice_crossentropy: 0.4972 - lr: 1.0000e-05
Epoch 322/500
100/100 [=====] - ETA: 0s - loss: 1.3838 - dice_soft: 0.6541
- dice_crossentropy: 0.4873
Epoch 00322: val_loss did not improve from 0.53244
100/100 [=====] - 90s 887ms/step - loss: 1.3838 - dice_soft:
0.6541 - dice_crossentropy: 0.4873 - val_loss: 0.9704 - val_dice_soft: 0.7585 - val_d
ice_crossentropy: 0.3568 - lr: 1.0000e-05
Epoch 323/500
100/100 [=====] - ETA: 0s - loss: 1.4103 - dice_soft: 0.6474
- dice_crossentropy: 0.4968
Epoch 00323: val_loss did not improve from 0.53244
100/100 [=====] - 90s 897ms/step - loss: 1.4103 - dice_soft:
0.6474 - dice_crossentropy: 0.4968 - val_loss: 0.6874 - val_dice_soft: 0.8259 - val_d
ice_crossentropy: 0.3144 - lr: 1.0000e-05
Epoch 324/500
100/100 [=====] - ETA: 0s - loss: 1.2733 - dice_soft: 0.6817
- dice_crossentropy: 0.4620
Epoch 00324: val_loss did not improve from 0.53244

```
100/100 [=====] - 88s 874ms/step - loss: 1.2733 - dice_soft:
  0.6817 - dice_crossentropy: 0.4620 - val_loss: 1.6172 - val_dice_soft: 0.6116 - val_d
ice_crossentropy: 0.4854 - lr: 1.0000e-05
Epoch 325/500
100/100 [=====] - ETA: 0s - loss: 1.3311 - dice_soft: 0.6672
  - dice_crossentropy: 0.4764
Epoch 00325: val_loss did not improve from 0.53244
100/100 [=====] - 90s 893ms/step - loss: 1.3311 - dice_soft:
  0.6672 - dice_crossentropy: 0.4764 - val_loss: 0.9742 - val_dice_soft: 0.7955 - val_d
ice_crossentropy: 0.3555 - lr: 1.0000e-05
Epoch 326/500
100/100 [=====] - ETA: 0s - loss: 1.2532 - dice_soft: 0.6867
  - dice_crossentropy: 0.4659
Epoch 00326: val_loss did not improve from 0.53244
100/100 [=====] - 91s 908ms/step - loss: 1.2532 - dice_soft:
  0.6867 - dice_crossentropy: 0.4659 - val_loss: 1.3675 - val_dice_soft: 0.7003 - val_d
ice_crossentropy: 0.4679 - lr: 1.0000e-05
Epoch 327/500
100/100 [=====] - ETA: 0s - loss: 1.4335 - dice_soft: 0.6416
  - dice_crossentropy: 0.4965
Epoch 00327: val_loss did not improve from 0.53244
100/100 [=====] - 90s 878ms/step - loss: 1.4335 - dice_soft:
  0.6416 - dice_crossentropy: 0.4965 - val_loss: 0.6976 - val_dice_soft: 0.8272 - val_d
ice_crossentropy: 0.2871 - lr: 1.0000e-05
Epoch 328/500
100/100 [=====] - ETA: 0s - loss: 1.3446 - dice_soft: 0.6639
  - dice_crossentropy: 0.4755
Epoch 00328: val_loss did not improve from 0.53244
100/100 [=====] - 90s 878ms/step - loss: 1.3446 - dice_soft:
  0.6639 - dice_crossentropy: 0.4755 - val_loss: 1.8485 - val_dice_soft: 0.5426 - val_d
ice_crossentropy: 0.5303 - lr: 1.0000e-05
Epoch 329/500
100/100 [=====] - ETA: 0s - loss: 1.3759 - dice_soft: 0.6560
  - dice_crossentropy: 0.4827
Epoch 00329: val_loss did not improve from 0.53244
100/100 [=====] - 92s 891ms/step - loss: 1.3759 - dice_soft:
  0.6560 - dice_crossentropy: 0.4827 - val_loss: 1.7994 - val_dice_soft: 0.5859 - val_d
ice_crossentropy: 0.4566 - lr: 1.0000e-05
Epoch 330/500
100/100 [=====] - ETA: 0s - loss: 1.4080 - dice_soft: 0.6480
  - dice_crossentropy: 0.4929
Epoch 00330: val_loss did not improve from 0.53244
100/100 [=====] - 93s 897ms/step - loss: 1.4080 - dice_soft:
  0.6480 - dice_crossentropy: 0.4929 - val_loss: 1.2611 - val_dice_soft: 0.7261 - val_d
ice_crossentropy: 0.4683 - lr: 1.0000e-05
Epoch 331/500
100/100 [=====] - ETA: 0s - loss: 1.4657 - dice_soft: 0.6336
  - dice_crossentropy: 0.5030
Epoch 00331: val_loss did not improve from 0.53244
100/100 [=====] - 92s 900ms/step - loss: 1.4657 - dice_soft:
  0.6336 - dice_crossentropy: 0.5030 - val_loss: 1.0966 - val_dice_soft: 0.7548 - val_d
ice_crossentropy: 0.3792 - lr: 1.0000e-05
Epoch 332/500
100/100 [=====] - ETA: 0s - loss: 1.3711 - dice_soft: 0.6572
  - dice_crossentropy: 0.4855
Epoch 00332: val_loss did not improve from 0.53244
100/100 [=====] - 93s 911ms/step - loss: 1.3711 - dice_soft:
  0.6572 - dice_crossentropy: 0.4855 - val_loss: 1.3548 - val_dice_soft: 0.6143 - val_d
ice_crossentropy: 0.4973 - lr: 1.0000e-05
Epoch 333/500
100/100 [=====] - ETA: 0s - loss: 1.3998 - dice_soft: 0.6501
  - dice_crossentropy: 0.4898
Epoch 00333: val_loss did not improve from 0.53244
100/100 [=====] - 93s 902ms/step - loss: 1.3998 - dice_soft:
  0.6501 - dice_crossentropy: 0.4898 - val_loss: 0.5669 - val_dice_soft: 0.8525 - val_d
ice_crossentropy: 0.2795 - lr: 1.0000e-05
```

Epoch 334/500
100/100 [=====] - ETA: 0s - loss: 1.4757 - dice_soft: 0.6311
- dice_crossentropy: 0.5080
Epoch 00334: val_loss did not improve from 0.53244
100/100 [=====] - 89s 878ms/step - loss: 1.4757 - dice_soft:
0.6311 - dice_crossentropy: 0.5080 - val_loss: 1.3881 - val_dice_soft: 0.5963 - val_d
ice_crossentropy: 0.4760 - lr: 1.0000e-05
Epoch 335/500
100/100 [=====] - ETA: 0s - loss: 1.3933 - dice_soft: 0.6517
- dice_crossentropy: 0.4914
Epoch 00335: val_loss did not improve from 0.53244
100/100 [=====] - 90s 891ms/step - loss: 1.3933 - dice_soft:
0.6517 - dice_crossentropy: 0.4914 - val_loss: 1.4340 - val_dice_soft: 0.6331 - val_d
ice_crossentropy: 0.4523 - lr: 1.0000e-05
Epoch 336/500
100/100 [=====] - ETA: 0s - loss: 1.3084 - dice_soft: 0.6729
- dice_crossentropy: 0.4723
Epoch 00336: val_loss did not improve from 0.53244
100/100 [=====] - 93s 881ms/step - loss: 1.3084 - dice_soft:
0.6729 - dice_crossentropy: 0.4723 - val_loss: 1.4166 - val_dice_soft: 0.6450 - val_d
ice_crossentropy: 0.4708 - lr: 1.0000e-05
Epoch 337/500
100/100 [=====] - ETA: 0s - loss: 1.2320 - dice_soft: 0.6920
- dice_crossentropy: 0.4622
Epoch 00337: val_loss did not improve from 0.53244
100/100 [=====] - 89s 869ms/step - loss: 1.2320 - dice_soft:
0.6920 - dice_crossentropy: 0.4622 - val_loss: 1.6432 - val_dice_soft: 0.5388 - val_d
ice_crossentropy: 0.6287 - lr: 1.0000e-05
Epoch 338/500
100/100 [=====] - ETA: 0s - loss: 1.3208 - dice_soft: 0.6698
- dice_crossentropy: 0.4841
Epoch 00338: val_loss did not improve from 0.53244
100/100 [=====] - 93s 890ms/step - loss: 1.3208 - dice_soft:
0.6698 - dice_crossentropy: 0.4841 - val_loss: 1.0468 - val_dice_soft: 0.7721 - val_d
ice_crossentropy: 0.4024 - lr: 1.0000e-05
Epoch 339/500
100/100 [=====] - ETA: 0s - loss: 1.4084 - dice_soft: 0.6479
- dice_crossentropy: 0.4844
Epoch 00339: val_loss did not improve from 0.53244
100/100 [=====] - 89s 883ms/step - loss: 1.4084 - dice_soft:
0.6479 - dice_crossentropy: 0.4844 - val_loss: 0.6653 - val_dice_soft: 0.8419 - val_d
ice_crossentropy: 0.3417 - lr: 1.0000e-05
Epoch 340/500
100/100 [=====] - ETA: 0s - loss: 1.4237 - dice_soft: 0.6441
- dice_crossentropy: 0.4959
Epoch 00340: val_loss did not improve from 0.53244
100/100 [=====] - 91s 895ms/step - loss: 1.4237 - dice_soft:
0.6441 - dice_crossentropy: 0.4959 - val_loss: 1.5294 - val_dice_soft: 0.5971 - val_d
ice_crossentropy: 0.5045 - lr: 1.0000e-05
Epoch 341/500
100/100 [=====] - ETA: 0s - loss: 1.3403 - dice_soft: 0.6649
- dice_crossentropy: 0.4882
Epoch 00341: val_loss did not improve from 0.53244
100/100 [=====] - 91s 883ms/step - loss: 1.3403 - dice_soft:
0.6649 - dice_crossentropy: 0.4882 - val_loss: 1.6811 - val_dice_soft: 0.6010 - val_d
ice_crossentropy: 0.5029 - lr: 1.0000e-05
Epoch 342/500
100/100 [=====] - ETA: 0s - loss: 1.3956 - dice_soft: 0.6511
- dice_crossentropy: 0.4889
Epoch 00342: val_loss did not improve from 0.53244
100/100 [=====] - 91s 870ms/step - loss: 1.3956 - dice_soft:
0.6511 - dice_crossentropy: 0.4889 - val_loss: 1.4568 - val_dice_soft: 0.6069 - val_d
ice_crossentropy: 0.4455 - lr: 1.0000e-05
Epoch 343/500
100/100 [=====] - ETA: 0s - loss: 1.3780 - dice_soft: 0.6555
- dice_crossentropy: 0.4871

Epoch 00343: val_loss did not improve from 0.53244
100/100 [=====] - 91s 879ms/step - loss: 1.3780 - dice_soft:
0.6555 - dice_crossentropy: 0.4871 - val_loss: 0.8346 - val_dice_soft: 0.7868 - val_d
ice_crossentropy: 0.4838 - lr: 1.0000e-05
Epoch 344/500
100/100 [=====] - ETA: 0s - loss: 1.3277 - dice_soft: 0.6681
- dice_crossentropy: 0.4751
Epoch 00344: val_loss did not improve from 0.53244
100/100 [=====] - 89s 870ms/step - loss: 1.3277 - dice_soft:
0.6681 - dice_crossentropy: 0.4751 - val_loss: 1.0649 - val_dice_soft: 0.7485 - val_d
ice_crossentropy: 0.4704 - lr: 1.0000e-05
Epoch 345/500
100/100 [=====] - ETA: 0s - loss: 1.4068 - dice_soft: 0.6483
- dice_crossentropy: 0.5011
Epoch 00345: val_loss did not improve from 0.53244
100/100 [=====] - 95s 918ms/step - loss: 1.4068 - dice_soft:
0.6483 - dice_crossentropy: 0.5011 - val_loss: 0.8921 - val_dice_soft: 0.7954 - val_d
ice_crossentropy: 0.3664 - lr: 1.0000e-05
Epoch 346/500
100/100 [=====] - ETA: 0s - loss: 1.3573 - dice_soft: 0.6607
- dice_crossentropy: 0.4837
Epoch 00346: val_loss did not improve from 0.53244
100/100 [=====] - 90s 891ms/step - loss: 1.3573 - dice_soft:
0.6607 - dice_crossentropy: 0.4837 - val_loss: 1.2142 - val_dice_soft: 0.7066 - val_d
ice_crossentropy: 0.4248 - lr: 1.0000e-05
Epoch 347/500
100/100 [=====] - ETA: 0s - loss: 1.3602 - dice_soft: 0.6600
- dice_crossentropy: 0.4815
Epoch 00347: val_loss did not improve from 0.53244
100/100 [=====] - 91s 874ms/step - loss: 1.3602 - dice_soft:
0.6600 - dice_crossentropy: 0.4815 - val_loss: 1.2657 - val_dice_soft: 0.6581 - val_d
ice_crossentropy: 0.5148 - lr: 1.0000e-05
Epoch 348/500
100/100 [=====] - ETA: 0s - loss: 1.3906 - dice_soft: 0.6524
- dice_crossentropy: 0.4781
Epoch 00348: val_loss did not improve from 0.53244
100/100 [=====] - 90s 879ms/step - loss: 1.3906 - dice_soft:
0.6524 - dice_crossentropy: 0.4781 - val_loss: 1.2327 - val_dice_soft: 0.6442 - val_d
ice_crossentropy: 0.4335 - lr: 1.0000e-05
Epoch 349/500
100/100 [=====] - ETA: 0s - loss: 1.4081 - dice_soft: 0.6480
- dice_crossentropy: 0.4952
Epoch 00349: val_loss did not improve from 0.53244
100/100 [=====] - 94s 920ms/step - loss: 1.4081 - dice_soft:
0.6480 - dice_crossentropy: 0.4952 - val_loss: 1.9570 - val_dice_soft: 0.5250 - val_d
ice_crossentropy: 0.6081 - lr: 1.0000e-05
Epoch 350/500
100/100 [=====] - ETA: 0s - loss: 1.3158 - dice_soft: 0.6711
- dice_crossentropy: 0.4715
Epoch 00350: val_loss did not improve from 0.53244
100/100 [=====] - 90s 883ms/step - loss: 1.3158 - dice_soft:
0.6711 - dice_crossentropy: 0.4715 - val_loss: 1.1523 - val_dice_soft: 0.7554 - val_d
ice_crossentropy: 0.3937 - lr: 1.0000e-05
Epoch 351/500
100/100 [=====] - ETA: 0s - loss: 1.4028 - dice_soft: 0.6493
- dice_crossentropy: 0.4878
Epoch 00351: val_loss did not improve from 0.53244
100/100 [=====] - 91s 884ms/step - loss: 1.4028 - dice_soft:
0.6493 - dice_crossentropy: 0.4878 - val_loss: 1.6169 - val_dice_soft: 0.6487 - val_d
ice_crossentropy: 0.4648 - lr: 1.0000e-05
Epoch 352/500
100/100 [=====] - ETA: 0s - loss: 1.3858 - dice_soft: 0.6535
- dice_crossentropy: 0.4838
Epoch 00352: val_loss did not improve from 0.53244
100/100 [=====] - 91s 899ms/step - loss: 1.3858 - dice_soft:
0.6535 - dice_crossentropy: 0.4838 - val_loss: 1.3121 - val_dice_soft: 0.6113 - val_d

ice_crossentropy: 0.5759 - lr: 1.0000e-05
Epoch 353/500
100/100 [=====] - ETA: 0s - loss: 1.2213 - dice_soft: 0.6947
- dice_crossentropy: 0.4495
Epoch 00353: val_loss did not improve from 0.53244
100/100 [=====] - 92s 893ms/step - loss: 1.2213 - dice_soft:
0.6947 - dice_crossentropy: 0.4495 - val_loss: 1.1862 - val_dice_soft: 0.6946 - val_d
ice_crossentropy: 0.4053 - lr: 1.0000e-05
Epoch 354/500
100/100 [=====] - ETA: 0s - loss: 1.2904 - dice_soft: 0.6774
- dice_crossentropy: 0.4625
Epoch 00354: val_loss did not improve from 0.53244
100/100 [=====] - 91s 885ms/step - loss: 1.2904 - dice_soft:
0.6774 - dice_crossentropy: 0.4625 - val_loss: 1.8279 - val_dice_soft: 0.6426 - val_d
ice_crossentropy: 0.4967 - lr: 1.0000e-05
Epoch 355/500
100/100 [=====] - ETA: 0s - loss: 1.3479 - dice_soft: 0.6630
- dice_crossentropy: 0.4819
Epoch 00355: val_loss did not improve from 0.53244
100/100 [=====] - 88s 874ms/step - loss: 1.3479 - dice_soft:
0.6630 - dice_crossentropy: 0.4819 - val_loss: 2.1156 - val_dice_soft: 0.5353 - val_d
ice_crossentropy: 0.5321 - lr: 1.0000e-05
Epoch 356/500
100/100 [=====] - ETA: 0s - loss: 1.2908 - dice_soft: 0.6773
- dice_crossentropy: 0.4629
Epoch 00356: val_loss did not improve from 0.53244
100/100 [=====] - 90s 878ms/step - loss: 1.2908 - dice_soft:
0.6773 - dice_crossentropy: 0.4629 - val_loss: 1.6953 - val_dice_soft: 0.6201 - val_d
ice_crossentropy: 0.4350 - lr: 1.0000e-05
Epoch 357/500
100/100 [=====] - ETA: 0s - loss: 1.3242 - dice_soft: 0.6689
- dice_crossentropy: 0.4759
Epoch 00357: val_loss did not improve from 0.53244
100/100 [=====] - 91s 889ms/step - loss: 1.3242 - dice_soft:
0.6689 - dice_crossentropy: 0.4759 - val_loss: 1.2323 - val_dice_soft: 0.7029 - val_d
ice_crossentropy: 0.3846 - lr: 1.0000e-05
Epoch 358/500
100/100 [=====] - ETA: 0s - loss: 1.2282 - dice_soft: 0.6930
- dice_crossentropy: 0.4564
Epoch 00358: val_loss did not improve from 0.53244
100/100 [=====] - 92s 898ms/step - loss: 1.2282 - dice_soft:
0.6930 - dice_crossentropy: 0.4564 - val_loss: 1.9224 - val_dice_soft: 0.5113 - val_d
ice_crossentropy: 0.5170 - lr: 1.0000e-05
Epoch 359/500
100/100 [=====] - ETA: 0s - loss: 1.3311 - dice_soft: 0.6672
- dice_crossentropy: 0.4803
Epoch 00359: val_loss did not improve from 0.53244
100/100 [=====] - 89s 865ms/step - loss: 1.3311 - dice_soft:
0.6672 - dice_crossentropy: 0.4803 - val_loss: 1.6695 - val_dice_soft: 0.5728 - val_d
ice_crossentropy: 0.5034 - lr: 1.0000e-05
Epoch 360/500
100/100 [=====] - ETA: 0s - loss: 1.4168 - dice_soft: 0.6458
- dice_crossentropy: 0.4987
Epoch 00360: val_loss did not improve from 0.53244
100/100 [=====] - 92s 917ms/step - loss: 1.4168 - dice_soft:
0.6458 - dice_crossentropy: 0.4987 - val_loss: 0.7614 - val_dice_soft: 0.8205 - val_d
ice_crossentropy: 0.3146 - lr: 1.0000e-05
Epoch 361/500
100/100 [=====] - ETA: 0s - loss: 1.3381 - dice_soft: 0.6655
- dice_crossentropy: 0.4864
Epoch 00361: val_loss did not improve from 0.53244
100/100 [=====] - 90s 877ms/step - loss: 1.3381 - dice_soft:
0.6655 - dice_crossentropy: 0.4864 - val_loss: 1.3197 - val_dice_soft: 0.6204 - val_d
ice_crossentropy: 0.4265 - lr: 1.0000e-05
Epoch 362/500
100/100 [=====] - ETA: 0s - loss: 1.3302 - dice_soft: 0.6675

- dice_crossentropy: 0.4659
Epoch 00362: val_loss did not improve from 0.53244
100/100 [=====] - 93s 912ms/step - loss: 1.3302 - dice_soft:
0.6675 - dice_crossentropy: 0.4659 - val_loss: 0.9661 - val_dice_soft: 0.7652 - val_d
ice_crossentropy: 0.4012 - lr: 1.0000e-05
Epoch 363/500
100/100 [=====] - ETA: 0s - loss: 1.3273 - dice_soft: 0.6682
- dice_crossentropy: 0.4689
Epoch 00363: val_loss did not improve from 0.53244
100/100 [=====] - 91s 887ms/step - loss: 1.3273 - dice_soft:
0.6682 - dice_crossentropy: 0.4689 - val_loss: 1.6874 - val_dice_soft: 0.5670 - val_d
ice_crossentropy: 0.5413 - lr: 1.0000e-05
Epoch 364/500
100/100 [=====] - ETA: 0s - loss: 1.3626 - dice_soft: 0.6594
- dice_crossentropy: 0.4761
Epoch 00364: val_loss did not improve from 0.53244
100/100 [=====] - 91s 885ms/step - loss: 1.3626 - dice_soft:
0.6594 - dice_crossentropy: 0.4761 - val_loss: 2.1861 - val_dice_soft: 0.4146 - val_d
ice_crossentropy: 0.6694 - lr: 1.0000e-05
Epoch 365/500
100/100 [=====] - ETA: 0s - loss: 1.3989 - dice_soft: 0.6503
- dice_crossentropy: 0.4879
Epoch 00365: val_loss did not improve from 0.53244
100/100 [=====] - 92s 892ms/step - loss: 1.3989 - dice_soft:
0.6503 - dice_crossentropy: 0.4879 - val_loss: 1.3960 - val_dice_soft: 0.7018 - val_d
ice_crossentropy: 0.4592 - lr: 1.0000e-05
Epoch 366/500
100/100 [=====] - ETA: 0s - loss: 1.4836 - dice_soft: 0.6291
- dice_crossentropy: 0.5055
Epoch 00366: val_loss did not improve from 0.53244
100/100 [=====] - 90s 872ms/step - loss: 1.4836 - dice_soft:
0.6291 - dice_crossentropy: 0.5055 - val_loss: 1.0260 - val_dice_soft: 0.7067 - val_d
ice_crossentropy: 0.3826 - lr: 1.0000e-05
Epoch 367/500
100/100 [=====] - ETA: 0s - loss: 1.2434 - dice_soft: 0.6892
- dice_crossentropy: 0.4627
Epoch 00367: val_loss did not improve from 0.53244
100/100 [=====] - 90s 884ms/step - loss: 1.2434 - dice_soft:
0.6892 - dice_crossentropy: 0.4627 - val_loss: 1.4187 - val_dice_soft: 0.6930 - val_d
ice_crossentropy: 0.3971 - lr: 1.0000e-05
Epoch 368/500
100/100 [=====] - ETA: 0s - loss: 1.2050 - dice_soft: 0.6988
- dice_crossentropy: 0.4496
Epoch 00368: val_loss did not improve from 0.53244
100/100 [=====] - 91s 882ms/step - loss: 1.2050 - dice_soft:
0.6988 - dice_crossentropy: 0.4496 - val_loss: 1.6535 - val_dice_soft: 0.5602 - val_d
ice_crossentropy: 0.5557 - lr: 1.0000e-05
Epoch 369/500
100/100 [=====] - ETA: 0s - loss: 1.3119 - dice_soft: 0.6720
- dice_crossentropy: 0.4733
Epoch 00369: val_loss did not improve from 0.53244
100/100 [=====] - 91s 880ms/step - loss: 1.3119 - dice_soft:
0.6720 - dice_crossentropy: 0.4733 - val_loss: 1.7747 - val_dice_soft: 0.5568 - val_d
ice_crossentropy: 0.5452 - lr: 1.0000e-05
Epoch 370/500
100/100 [=====] - ETA: 0s - loss: 1.3289 - dice_soft: 0.6678
- dice_crossentropy: 0.4846
Epoch 00370: val_loss did not improve from 0.53244
100/100 [=====] - 92s 919ms/step - loss: 1.3289 - dice_soft:
0.6678 - dice_crossentropy: 0.4846 - val_loss: 1.8158 - val_dice_soft: 0.5468 - val_d
ice_crossentropy: 0.5590 - lr: 1.0000e-05
Epoch 371/500
100/100 [=====] - ETA: 0s - loss: 1.3562 - dice_soft: 0.6610
- dice_crossentropy: 0.4753
Epoch 00371: val_loss did not improve from 0.53244
100/100 [=====] - 92s 889ms/step - loss: 1.3562 - dice_soft:

0.6610 - dice_crossentropy: 0.4753 - val_loss: 1.3520 - val_dice_soft: 0.6635 - val_dice_crossentropy: 0.4927 - lr: 1.0000e-05
Epoch 372/500
100/100 [=====] - ETA: 0s - loss: 1.3734 - dice_soft: 0.6566
- dice_crossentropy: 0.4798
Epoch 00372: val_loss did not improve from 0.53244
100/100 [=====] - 91s 900ms/step - loss: 1.3734 - dice_soft:
0.6566 - dice_crossentropy: 0.4798 - val_loss: 1.3851 - val_dice_soft: 0.7091 - val_dice_crossentropy: 0.4706 - lr: 1.0000e-05
Epoch 373/500
100/100 [=====] - ETA: 0s - loss: 1.3985 - dice_soft: 0.6504
- dice_crossentropy: 0.4822
Epoch 00373: val_loss did not improve from 0.53244
100/100 [=====] - 90s 883ms/step - loss: 1.3985 - dice_soft:
0.6504 - dice_crossentropy: 0.4822 - val_loss: 1.5185 - val_dice_soft: 0.6494 - val_dice_crossentropy: 0.4335 - lr: 1.0000e-05
Epoch 374/500
100/100 [=====] - ETA: 0s - loss: 1.2947 - dice_soft: 0.6763
- dice_crossentropy: 0.4659
Epoch 00374: val_loss did not improve from 0.53244
100/100 [=====] - 93s 893ms/step - loss: 1.2947 - dice_soft:
0.6763 - dice_crossentropy: 0.4659 - val_loss: 0.6733 - val_dice_soft: 0.8223 - val_dice_crossentropy: 0.3932 - lr: 1.0000e-05
Epoch 375/500
100/100 [=====] - ETA: 0s - loss: 1.4471 - dice_soft: 0.6382
- dice_crossentropy: 0.4991
Epoch 00375: val_loss did not improve from 0.53244
100/100 [=====] - 91s 905ms/step - loss: 1.4471 - dice_soft:
0.6382 - dice_crossentropy: 0.4991 - val_loss: 2.2808 - val_dice_soft: 0.4552 - val_dice_crossentropy: 0.6510 - lr: 1.0000e-05
Epoch 376/500
100/100 [=====] - ETA: 0s - loss: 1.3146 - dice_soft: 0.6714
- dice_crossentropy: 0.4658
Epoch 00376: val_loss did not improve from 0.53244
100/100 [=====] - 93s 915ms/step - loss: 1.3146 - dice_soft:
0.6714 - dice_crossentropy: 0.4658 - val_loss: 1.0159 - val_dice_soft: 0.7127 - val_dice_crossentropy: 0.4089 - lr: 1.0000e-05
Epoch 377/500
100/100 [=====] - ETA: 0s - loss: 1.4278 - dice_soft: 0.6431
- dice_crossentropy: 0.4909
Epoch 00377: val_loss did not improve from 0.53244
100/100 [=====] - 91s 889ms/step - loss: 1.4278 - dice_soft:
0.6431 - dice_crossentropy: 0.4909 - val_loss: 1.2744 - val_dice_soft: 0.7337 - val_dice_crossentropy: 0.4231 - lr: 1.0000e-05
Epoch 378/500
100/100 [=====] - ETA: 0s - loss: 1.4100 - dice_soft: 0.6475
- dice_crossentropy: 0.4870
Epoch 00378: val_loss did not improve from 0.53244
100/100 [=====] - 90s 883ms/step - loss: 1.4100 - dice_soft:
0.6475 - dice_crossentropy: 0.4870 - val_loss: 1.2869 - val_dice_soft: 0.6650 - val_dice_crossentropy: 0.4446 - lr: 1.0000e-05
Epoch 379/500
100/100 [=====] - ETA: 0s - loss: 1.3706 - dice_soft: 0.6573
- dice_crossentropy: 0.4889
Epoch 00379: val_loss did not improve from 0.53244
100/100 [=====] - 89s 873ms/step - loss: 1.3706 - dice_soft:
0.6573 - dice_crossentropy: 0.4889 - val_loss: 0.7951 - val_dice_soft: 0.8157 - val_dice_crossentropy: 0.3757 - lr: 1.0000e-05
Epoch 380/500
100/100 [=====] - ETA: 0s - loss: 1.3449 - dice_soft: 0.6638
- dice_crossentropy: 0.4641
Epoch 00380: val_loss did not improve from 0.53244
100/100 [=====] - 87s 863ms/step - loss: 1.3449 - dice_soft:
0.6638 - dice_crossentropy: 0.4641 - val_loss: 0.7535 - val_dice_soft: 0.8174 - val_dice_crossentropy: 0.3876 - lr: 1.0000e-05

100/100 [=====] - ETA: 0s - loss: 1.3279 - dice_soft: 0.6680
- dice_crossentropy: 0.4739
Epoch 00381: val_loss did not improve from 0.53244
100/100 [=====] - 92s 894ms/step - loss: 1.3279 - dice_soft:
0.6680 - dice_crossentropy: 0.4739 - val_loss: 0.7806 - val_dice_soft: 0.8012 - val_d
ice_crossentropy: 0.4163 - lr: 1.0000e-05
Epoch 382/500
100/100 [=====] - ETA: 0s - loss: 1.3923 - dice_soft: 0.6519
- dice_crossentropy: 0.4812
Epoch 00382: val_loss did not improve from 0.53244
100/100 [=====] - 86s 860ms/step - loss: 1.3923 - dice_soft:
0.6519 - dice_crossentropy: 0.4812 - val_loss: 1.2579 - val_dice_soft: 0.6562 - val_d
ice_crossentropy: 0.4937 - lr: 1.0000e-05
Epoch 383/500
100/100 [=====] - ETA: 0s - loss: 1.3867 - dice_soft: 0.6533
- dice_crossentropy: 0.4846
Epoch 00383: val_loss did not improve from 0.53244
100/100 [=====] - 92s 911ms/step - loss: 1.3867 - dice_soft:
0.6533 - dice_crossentropy: 0.4846 - val_loss: 1.7193 - val_dice_soft: 0.5367 - val_d
ice_crossentropy: 0.5070 - lr: 1.0000e-05
Epoch 384/500
100/100 [=====] - ETA: 0s - loss: 1.3102 - dice_soft: 0.6725
- dice_crossentropy: 0.4733
Epoch 00384: val_loss did not improve from 0.53244
100/100 [=====] - 90s 860ms/step - loss: 1.3102 - dice_soft:
0.6725 - dice_crossentropy: 0.4733 - val_loss: 1.9133 - val_dice_soft: 0.4274 - val_d
ice_crossentropy: 0.6458 - lr: 1.0000e-05
Epoch 385/500
100/100 [=====] - ETA: 0s - loss: 1.3586 - dice_soft: 0.6603
- dice_crossentropy: 0.4775
Epoch 00385: val_loss did not improve from 0.53244
100/100 [=====] - 93s 919ms/step - loss: 1.3586 - dice_soft:
0.6603 - dice_crossentropy: 0.4775 - val_loss: 1.4242 - val_dice_soft: 0.6522 - val_d
ice_crossentropy: 0.4671 - lr: 1.0000e-05
Epoch 386/500
100/100 [=====] - ETA: 0s - loss: 1.3614 - dice_soft: 0.6596
- dice_crossentropy: 0.4767
Epoch 00386: val_loss did not improve from 0.53244
100/100 [=====] - 91s 901ms/step - loss: 1.3614 - dice_soft:
0.6596 - dice_crossentropy: 0.4767 - val_loss: 1.5534 - val_dice_soft: 0.6269 - val_d
ice_crossentropy: 0.4434 - lr: 1.0000e-05
Epoch 387/500
100/100 [=====] - ETA: 0s - loss: 1.3105 - dice_soft: 0.6724
- dice_crossentropy: 0.4718
Epoch 00387: val_loss did not improve from 0.53244
100/100 [=====] - 92s 895ms/step - loss: 1.3105 - dice_soft:
0.6724 - dice_crossentropy: 0.4718 - val_loss: 0.7987 - val_dice_soft: 0.8018 - val_d
ice_crossentropy: 0.3989 - lr: 1.0000e-05
Epoch 388/500
100/100 [=====] - ETA: 0s - loss: 1.3128 - dice_soft: 0.6718
- dice_crossentropy: 0.4755
Epoch 00388: val_loss did not improve from 0.53244
100/100 [=====] - 91s 880ms/step - loss: 1.3128 - dice_soft:
0.6718 - dice_crossentropy: 0.4755 - val_loss: 2.1134 - val_dice_soft: 0.5139 - val_d
ice_crossentropy: 0.5781 - lr: 1.0000e-05
Epoch 389/500
100/100 [=====] - ETA: 0s - loss: 1.3511 - dice_soft: 0.6622
- dice_crossentropy: 0.4792
Epoch 00389: val_loss did not improve from 0.53244
100/100 [=====] - 87s 865ms/step - loss: 1.3511 - dice_soft:
0.6622 - dice_crossentropy: 0.4792 - val_loss: 1.1987 - val_dice_soft: 0.6506 - val_d
ice_crossentropy: 0.4582 - lr: 1.0000e-05
Epoch 390/500
100/100 [=====] - ETA: 0s - loss: 1.3339 - dice_soft: 0.6665
- dice_crossentropy: 0.4734
Epoch 00390: val_loss did not improve from 0.53244

```
100/100 [=====] - 90s 871ms/step - loss: 1.3339 - dice_soft:
0.6665 - dice_crossentropy: 0.4734 - val_loss: 1.2624 - val_dice_soft: 0.7434 - val_d
ice_crossentropy: 0.4717 - lr: 1.0000e-05
Epoch 391/500
100/100 [=====] - ETA: 0s - loss: 1.2913 - dice_soft: 0.6772
- dice_crossentropy: 0.4686
Epoch 00391: val_loss did not improve from 0.53244
100/100 [=====] - 91s 892ms/step - loss: 1.2913 - dice_soft:
0.6772 - dice_crossentropy: 0.4686 - val_loss: 2.3537 - val_dice_soft: 0.4673 - val_d
ice_crossentropy: 0.6712 - lr: 1.0000e-05
Epoch 392/500
100/100 [=====] - ETA: 0s - loss: 1.4027 - dice_soft: 0.6493
- dice_crossentropy: 0.4765
Epoch 00392: val_loss did not improve from 0.53244
100/100 [=====] - 88s 871ms/step - loss: 1.4027 - dice_soft:
0.6493 - dice_crossentropy: 0.4765 - val_loss: 1.1520 - val_dice_soft: 0.7536 - val_d
ice_crossentropy: 0.3793 - lr: 1.0000e-05
Epoch 393/500
100/100 [=====] - ETA: 0s - loss: 1.2590 - dice_soft: 0.6852
- dice_crossentropy: 0.4651
Epoch 00393: val_loss did not improve from 0.53244
100/100 [=====] - 96s 921ms/step - loss: 1.2590 - dice_soft:
0.6852 - dice_crossentropy: 0.4651 - val_loss: 1.2719 - val_dice_soft: 0.6653 - val_d
ice_crossentropy: 0.4578 - lr: 1.0000e-05
Epoch 394/500
100/100 [=====] - ETA: 0s - loss: 1.3012 - dice_soft: 0.6747
- dice_crossentropy: 0.4743
Epoch 00394: val_loss did not improve from 0.53244
100/100 [=====] - 88s 864ms/step - loss: 1.3012 - dice_soft:
0.6747 - dice_crossentropy: 0.4743 - val_loss: 1.1827 - val_dice_soft: 0.6803 - val_d
ice_crossentropy: 0.4218 - lr: 1.0000e-05
Epoch 395/500
100/100 [=====] - ETA: 0s - loss: 1.4739 - dice_soft: 0.6315
- dice_crossentropy: 0.5064
Epoch 00395: val_loss did not improve from 0.53244
100/100 [=====] - 90s 892ms/step - loss: 1.4739 - dice_soft:
0.6315 - dice_crossentropy: 0.5064 - val_loss: 1.4600 - val_dice_soft: 0.6241 - val_d
ice_crossentropy: 0.4694 - lr: 1.0000e-05
Epoch 396/500
100/100 [=====] - ETA: 0s - loss: 1.4311 - dice_soft: 0.6422
- dice_crossentropy: 0.4902
Epoch 00396: val_loss did not improve from 0.53244
100/100 [=====] - 91s 887ms/step - loss: 1.4311 - dice_soft:
0.6422 - dice_crossentropy: 0.4902 - val_loss: 1.1956 - val_dice_soft: 0.6588 - val_d
ice_crossentropy: 0.4072 - lr: 1.0000e-05
Epoch 397/500
100/100 [=====] - ETA: 0s - loss: 1.3358 - dice_soft: 0.6661
- dice_crossentropy: 0.4673
Epoch 00397: val_loss did not improve from 0.53244
100/100 [=====] - 92s 890ms/step - loss: 1.3358 - dice_soft:
0.6661 - dice_crossentropy: 0.4673 - val_loss: 1.2599 - val_dice_soft: 0.6406 - val_d
ice_crossentropy: 0.5203 - lr: 1.0000e-05
Epoch 398/500
100/100 [=====] - ETA: 0s - loss: 1.3811 - dice_soft: 0.6547
- dice_crossentropy: 0.4883
Epoch 00398: val_loss did not improve from 0.53244
100/100 [=====] - 92s 913ms/step - loss: 1.3811 - dice_soft:
0.6547 - dice_crossentropy: 0.4883 - val_loss: 1.5297 - val_dice_soft: 0.6176 - val_d
ice_crossentropy: 0.4614 - lr: 1.0000e-05
Epoch 399/500
100/100 [=====] - ETA: 0s - loss: 1.4037 - dice_soft: 0.6491
- dice_crossentropy: 0.4927
Epoch 00399: val_loss did not improve from 0.53244
100/100 [=====] - 93s 903ms/step - loss: 1.4037 - dice_soft:
0.6491 - dice_crossentropy: 0.4927 - val_loss: 1.5071 - val_dice_soft: 0.5919 - val_d
ice_crossentropy: 0.4913 - lr: 1.0000e-05
```

Epoch 400/500
100/100 [=====] - ETA: 0s - loss: 1.4182 - dice_soft: 0.6455
- dice_crossentropy: 0.4797
Epoch 00400: val_loss did not improve from 0.53244
100/100 [=====] - 93s 889ms/step - loss: 1.4182 - dice_soft:
0.6455 - dice_crossentropy: 0.4797 - val_loss: 0.6220 - val_dice_soft: 0.8364 - val_d
ice_crossentropy: 0.4027 - lr: 1.0000e-05
Epoch 401/500
100/100 [=====] - ETA: 0s - loss: 1.4158 - dice_soft: 0.6461
- dice_crossentropy: 0.4962
Epoch 00401: val_loss did not improve from 0.53244
100/100 [=====] - 91s 902ms/step - loss: 1.4158 - dice_soft:
0.6461 - dice_crossentropy: 0.4962 - val_loss: 1.8352 - val_dice_soft: 0.5388 - val_d
ice_crossentropy: 0.5438 - lr: 1.0000e-05
Epoch 402/500
100/100 [=====] - ETA: 0s - loss: 1.4221 - dice_soft: 0.6445
- dice_crossentropy: 0.4938
Epoch 00402: val_loss did not improve from 0.53244
100/100 [=====] - 89s 874ms/step - loss: 1.4221 - dice_soft:
0.6445 - dice_crossentropy: 0.4938 - val_loss: 1.1677 - val_dice_soft: 0.7583 - val_d
ice_crossentropy: 0.3935 - lr: 1.0000e-05
Epoch 403/500
100/100 [=====] - ETA: 0s - loss: 1.3144 - dice_soft: 0.6714
- dice_crossentropy: 0.4565
Epoch 00403: val_loss did not improve from 0.53244
100/100 [=====] - 88s 873ms/step - loss: 1.3144 - dice_soft:
0.6714 - dice_crossentropy: 0.4565 - val_loss: 0.6362 - val_dice_soft: 0.8397 - val_d
ice_crossentropy: 0.2985 - lr: 1.0000e-05
Epoch 404/500
100/100 [=====] - ETA: 0s - loss: 1.4021 - dice_soft: 0.6495
- dice_crossentropy: 0.4825
Epoch 00404: val_loss did not improve from 0.53244
100/100 [=====] - 91s 877ms/step - loss: 1.4021 - dice_soft:
0.6495 - dice_crossentropy: 0.4825 - val_loss: 1.2429 - val_dice_soft: 0.6839 - val_d
ice_crossentropy: 0.4393 - lr: 1.0000e-05
Epoch 405/500
100/100 [=====] - ETA: 0s - loss: 1.3223 - dice_soft: 0.6694
- dice_crossentropy: 0.4679
Epoch 00405: val_loss did not improve from 0.53244
100/100 [=====] - 90s 881ms/step - loss: 1.3223 - dice_soft:
0.6694 - dice_crossentropy: 0.4679 - val_loss: 1.9962 - val_dice_soft: 0.4923 - val_d
ice_crossentropy: 0.5323 - lr: 1.0000e-05
Epoch 406/500
100/100 [=====] - ETA: 0s - loss: 1.4258 - dice_soft: 0.6436
- dice_crossentropy: 0.4895
Epoch 00406: val_loss did not improve from 0.53244
100/100 [=====] - 88s 879ms/step - loss: 1.4258 - dice_soft:
0.6436 - dice_crossentropy: 0.4895 - val_loss: 1.7955 - val_dice_soft: 0.4470 - val_d
ice_crossentropy: 0.6238 - lr: 1.0000e-05
Epoch 407/500
100/100 [=====] - ETA: 0s - loss: 1.3553 - dice_soft: 0.6612
- dice_crossentropy: 0.4823
Epoch 00407: val_loss did not improve from 0.53244
100/100 [=====] - 91s 904ms/step - loss: 1.3553 - dice_soft:
0.6612 - dice_crossentropy: 0.4823 - val_loss: 1.6763 - val_dice_soft: 0.5650 - val_d
ice_crossentropy: 0.5192 - lr: 1.0000e-05
Epoch 408/500
100/100 [=====] - ETA: 0s - loss: 1.2672 - dice_soft: 0.6832
- dice_crossentropy: 0.4555
Epoch 00408: val_loss did not improve from 0.53244
100/100 [=====] - 91s 891ms/step - loss: 1.2672 - dice_soft:
0.6832 - dice_crossentropy: 0.4555 - val_loss: 1.0927 - val_dice_soft: 0.6941 - val_d
ice_crossentropy: 0.4332 - lr: 1.0000e-05
Epoch 409/500
100/100 [=====] - ETA: 0s - loss: 1.2799 - dice_soft: 0.6800
- dice_crossentropy: 0.4673

Epoch 00409: val_loss did not improve from 0.53244
100/100 [=====] - 88s 872ms/step - loss: 1.2799 - dice_soft:
0.6800 - dice_crossentropy: 0.4673 - val_loss: 1.2826 - val_dice_soft: 0.6611 - val_d
ice_crossentropy: 0.4250 - lr: 1.0000e-05
Epoch 410/500
100/100 [=====] - ETA: 0s - loss: 1.3064 - dice_soft: 0.6734
- dice_crossentropy: 0.4693
Epoch 00410: val_loss did not improve from 0.53244
100/100 [=====] - 89s 881ms/step - loss: 1.3064 - dice_soft:
0.6734 - dice_crossentropy: 0.4693 - val_loss: 0.7953 - val_dice_soft: 0.7862 - val_d
ice_crossentropy: 0.3438 - lr: 1.0000e-05
Epoch 411/500
100/100 [=====] - ETA: 0s - loss: 1.3020 - dice_soft: 0.6745
- dice_crossentropy: 0.4665
Epoch 00411: val_loss did not improve from 0.53244
100/100 [=====] - 90s 878ms/step - loss: 1.3020 - dice_soft:
0.6745 - dice_crossentropy: 0.4665 - val_loss: 1.3120 - val_dice_soft: 0.6245 - val_d
ice_crossentropy: 0.4768 - lr: 1.0000e-05
Epoch 412/500
100/100 [=====] - ETA: 0s - loss: 1.3171 - dice_soft: 0.6707
- dice_crossentropy: 0.4796
Epoch 00412: val_loss did not improve from 0.53244
100/100 [=====] - 90s 890ms/step - loss: 1.3171 - dice_soft:
0.6707 - dice_crossentropy: 0.4796 - val_loss: 0.7479 - val_dice_soft: 0.8174 - val_d
ice_crossentropy: 0.3483 - lr: 1.0000e-05
Epoch 413/500
100/100 [=====] - ETA: 0s - loss: 1.4261 - dice_soft: 0.6435
- dice_crossentropy: 0.4984
Epoch 00413: val_loss did not improve from 0.53244
100/100 [=====] - 92s 910ms/step - loss: 1.4261 - dice_soft:
0.6435 - dice_crossentropy: 0.4984 - val_loss: 1.3748 - val_dice_soft: 0.6166 - val_d
ice_crossentropy: 0.5216 - lr: 1.0000e-05
Epoch 414/500
100/100 [=====] - ETA: 0s - loss: 1.4005 - dice_soft: 0.6499
- dice_crossentropy: 0.4952
Epoch 00414: val_loss did not improve from 0.53244
100/100 [=====] - 91s 900ms/step - loss: 1.4005 - dice_soft:
0.6499 - dice_crossentropy: 0.4952 - val_loss: 0.6954 - val_dice_soft: 0.8225 - val_d
ice_crossentropy: 0.4185 - lr: 1.0000e-05
Epoch 415/500
100/100 [=====] - ETA: 0s - loss: 1.4433 - dice_soft: 0.6392
- dice_crossentropy: 0.4940
Epoch 00415: val_loss did not improve from 0.53244
100/100 [=====] - 93s 905ms/step - loss: 1.4433 - dice_soft:
0.6392 - dice_crossentropy: 0.4940 - val_loss: 1.9765 - val_dice_soft: 0.5173 - val_d
ice_crossentropy: 0.5598 - lr: 1.0000e-05
Epoch 416/500
100/100 [=====] - ETA: 0s - loss: 1.2508 - dice_soft: 0.6873
- dice_crossentropy: 0.4648
Epoch 00416: val_loss did not improve from 0.53244
100/100 [=====] - 89s 877ms/step - loss: 1.2508 - dice_soft:
0.6873 - dice_crossentropy: 0.4648 - val_loss: 0.7497 - val_dice_soft: 0.8074 - val_d
ice_crossentropy: 0.3037 - lr: 1.0000e-05
Epoch 417/500
100/100 [=====] - ETA: 0s - loss: 1.4673 - dice_soft: 0.6332
- dice_crossentropy: 0.5013
Epoch 00417: val_loss did not improve from 0.53244
100/100 [=====] - 89s 869ms/step - loss: 1.4673 - dice_soft:
0.6332 - dice_crossentropy: 0.5013 - val_loss: 0.9842 - val_dice_soft: 0.7508 - val_d
ice_crossentropy: 0.4095 - lr: 1.0000e-05
Epoch 418/500
100/100 [=====] - ETA: 0s - loss: 1.2795 - dice_soft: 0.6801
- dice_crossentropy: 0.4644
Epoch 00418: val_loss did not improve from 0.53244
100/100 [=====] - 92s 896ms/step - loss: 1.2795 - dice_soft:
ice_crossentropy: 0.4644 - val_loss: 1.9875 - val_dice_soft: 0.5523 - val_d

ice_crossentropy: 0.4621 - lr: 1.0000e-05
Epoch 419/500
100/100 [=====] - ETA: 0s - loss: 1.2351 - dice_soft: 0.6912
- dice_crossentropy: 0.4532
Epoch 00419: val_loss did not improve from 0.53244
100/100 [=====] - 93s 906ms/step - loss: 1.2351 - dice_soft:
0.6912 - dice_crossentropy: 0.4532 - val_loss: 1.2274 - val_dice_soft: 0.7485 - val_d
ice_crossentropy: 0.3751 - lr: 1.0000e-05
Epoch 420/500
100/100 [=====] - ETA: 0s - loss: 1.3541 - dice_soft: 0.6615
- dice_crossentropy: 0.4698
Epoch 00420: val_loss did not improve from 0.53244
100/100 [=====] - 89s 877ms/step - loss: 1.3541 - dice_soft:
0.6615 - dice_crossentropy: 0.4698 - val_loss: 1.2877 - val_dice_soft: 0.6659 - val_d
ice_crossentropy: 0.4252 - lr: 1.0000e-05
Epoch 421/500
100/100 [=====] - ETA: 0s - loss: 1.2930 - dice_soft: 0.6768
- dice_crossentropy: 0.4511
Epoch 00421: val_loss did not improve from 0.53244
100/100 [=====] - 89s 876ms/step - loss: 1.2930 - dice_soft:
0.6768 - dice_crossentropy: 0.4511 - val_loss: 1.2152 - val_dice_soft: 0.7255 - val_d
ice_crossentropy: 0.4652 - lr: 1.0000e-05
Epoch 422/500
100/100 [=====] - ETA: 0s - loss: 1.3581 - dice_soft: 0.6605
- dice_crossentropy: 0.4753
Epoch 00422: val_loss did not improve from 0.53244
100/100 [=====] - 90s 893ms/step - loss: 1.3581 - dice_soft:
0.6605 - dice_crossentropy: 0.4753 - val_loss: 2.0863 - val_dice_soft: 0.4182 - val_d
ice_crossentropy: 0.6183 - lr: 1.0000e-05
Epoch 423/500
100/100 [=====] - ETA: 0s - loss: 1.3150 - dice_soft: 0.6713
- dice_crossentropy: 0.4653
Epoch 00423: val_loss did not improve from 0.53244
100/100 [=====] - 89s 868ms/step - loss: 1.3150 - dice_soft:
0.6713 - dice_crossentropy: 0.4653 - val_loss: 0.9827 - val_dice_soft: 0.7498 - val_d
ice_crossentropy: 0.3928 - lr: 1.0000e-05
Epoch 424/500
100/100 [=====] - ETA: 0s - loss: 1.2726 - dice_soft: 0.6819
- dice_crossentropy: 0.4640
Epoch 00424: val_loss did not improve from 0.53244
100/100 [=====] - 92s 911ms/step - loss: 1.2726 - dice_soft:
0.6819 - dice_crossentropy: 0.4640 - val_loss: 1.8949 - val_dice_soft: 0.5771 - val_d
ice_crossentropy: 0.5786 - lr: 1.0000e-05
Epoch 425/500
100/100 [=====] - ETA: 0s - loss: 1.3284 - dice_soft: 0.6679
- dice_crossentropy: 0.4783
Epoch 00425: val_loss did not improve from 0.53244
100/100 [=====] - 92s 897ms/step - loss: 1.3284 - dice_soft:
0.6679 - dice_crossentropy: 0.4783 - val_loss: 0.6451 - val_dice_soft: 0.8500 - val_d
ice_crossentropy: 0.3879 - lr: 1.0000e-05
Epoch 426/500
100/100 [=====] - ETA: 0s - loss: 1.4259 - dice_soft: 0.6435
- dice_crossentropy: 0.4982
Epoch 00426: val_loss did not improve from 0.53244
100/100 [=====] - 92s 899ms/step - loss: 1.4259 - dice_soft:
0.6435 - dice_crossentropy: 0.4982 - val_loss: 1.3069 - val_dice_soft: 0.6344 - val_d
ice_crossentropy: 0.4843 - lr: 1.0000e-05
Epoch 427/500
100/100 [=====] - ETA: 0s - loss: 1.3770 - dice_soft: 0.6558
- dice_crossentropy: 0.4904
Epoch 00427: val_loss did not improve from 0.53244
100/100 [=====] - 90s 877ms/step - loss: 1.3770 - dice_soft:
0.6558 - dice_crossentropy: 0.4904 - val_loss: 1.6652 - val_dice_soft: 0.5983 - val_d
ice_crossentropy: 0.4573 - lr: 1.0000e-05
Epoch 428/500

Epoch 428/500: val_loss did not improve from 0.53244
100/100 [=====] - 90s 890ms/step - loss: 1.3830 - dice_soft: 0.6542 - dice_crossentropy: 0.4841 - val_loss: 2.2042 - val_dice_soft: 0.4706 - val_dice_crossentropy: 0.5600 - lr: 1.0000e-05

Epoch 429/500
100/100 [=====] - ETA: 0s - loss: 1.3282 - dice_soft: 0.6680 - dice_crossentropy: 0.4759

Epoch 00429: val_loss did not improve from 0.53244
100/100 [=====] - 92s 879ms/step - loss: 1.3282 - dice_soft: 0.6680 - dice_crossentropy: 0.4759 - val_loss: 0.6033 - val_dice_soft: 0.8461 - val_dice_crossentropy: 0.2662 - lr: 1.0000e-05

Epoch 430/500
100/100 [=====] - ETA: 0s - loss: 1.4196 - dice_soft: 0.6451 - dice_crossentropy: 0.4878

Epoch 00430: val_loss did not improve from 0.53244
100/100 [=====] - 90s 875ms/step - loss: 1.4196 - dice_soft: 0.6451 - dice_crossentropy: 0.4878 - val_loss: 1.6389 - val_dice_soft: 0.6020 - val_dice_crossentropy: 0.4960 - lr: 1.0000e-05

Epoch 431/500
100/100 [=====] - ETA: 0s - loss: 1.3208 - dice_soft: 0.6698 - dice_crossentropy: 0.4755

Epoch 00431: val_loss did not improve from 0.53244
100/100 [=====] - 90s 890ms/step - loss: 1.3208 - dice_soft: 0.6698 - dice_crossentropy: 0.4755 - val_loss: 1.4741 - val_dice_soft: 0.6549 - val_dice_crossentropy: 0.5745 - lr: 1.0000e-05

Epoch 432/500
100/100 [=====] - ETA: 0s - loss: 1.3859 - dice_soft: 0.6535 - dice_crossentropy: 0.4799

Epoch 00432: val_loss did not improve from 0.53244
100/100 [=====] - 88s 869ms/step - loss: 1.3859 - dice_soft: 0.6535 - dice_crossentropy: 0.4799 - val_loss: 2.0042 - val_dice_soft: 0.4556 - val_dice_crossentropy: 0.6062 - lr: 1.0000e-05

Epoch 433/500
100/100 [=====] - ETA: 0s - loss: 1.4026 - dice_soft: 0.6494 - dice_crossentropy: 0.4911

Epoch 00433: val_loss did not improve from 0.53244
100/100 [=====] - 91s 894ms/step - loss: 1.4026 - dice_soft: 0.6494 - dice_crossentropy: 0.4911 - val_loss: 1.7382 - val_dice_soft: 0.5222 - val_dice_crossentropy: 0.5300 - lr: 1.0000e-05

Epoch 434/500
100/100 [=====] - ETA: 0s - loss: 1.2621 - dice_soft: 0.6845 - dice_crossentropy: 0.4466

Epoch 00434: val_loss did not improve from 0.53244
100/100 [=====] - 91s 869ms/step - loss: 1.2621 - dice_soft: 0.6845 - dice_crossentropy: 0.4466 - val_loss: 1.2288 - val_dice_soft: 0.7164 - val_dice_crossentropy: 0.4562 - lr: 1.0000e-05

Epoch 435/500
100/100 [=====] - ETA: 0s - loss: 1.3963 - dice_soft: 0.6509 - dice_crossentropy: 0.4901

Epoch 00435: val_loss did not improve from 0.53244
100/100 [=====] - 90s 892ms/step - loss: 1.3963 - dice_soft: 0.6509 - dice_crossentropy: 0.4901 - val_loss: 2.2046 - val_dice_soft: 0.4859 - val_dice_crossentropy: 0.5586 - lr: 1.0000e-05

Epoch 436/500
100/100 [=====] - ETA: 0s - loss: 1.3514 - dice_soft: 0.6622 - dice_crossentropy: 0.4777

Epoch 00436: val_loss did not improve from 0.53244
100/100 [=====] - 91s 893ms/step - loss: 1.3514 - dice_soft: 0.6622 - dice_crossentropy: 0.4777 - val_loss: 1.8262 - val_dice_soft: 0.5567 - val_dice_crossentropy: 0.5767 - lr: 1.0000e-05

Epoch 437/500
100/100 [=====] - ETA: 0s - loss: 1.3667 - dice_soft: 0.6583 - dice_crossentropy: 0.4833

Epoch 00437: val_loss did not improve from 0.53244
100/100 [=====] - 90s 898ms/step - loss: 1.3667 - dice_soft: 0.6583 - dice_crossentropy: 0.4833

0.6583 - dice_crossentropy: 0.4833 - val_loss: 1.9579 - val_dice_soft: 0.5298 - val_dice_crossentropy: 0.5576 - lr: 1.0000e-05
Epoch 438/500
100/100 [=====] - ETA: 0s - loss: 1.4598 - dice_soft: 0.6351
- dice_crossentropy: 0.5013
Epoch 00438: val_loss did not improve from 0.53244
100/100 [=====] - 92s 891ms/step - loss: 1.4598 - dice_soft:
0.6351 - dice_crossentropy: 0.5013 - val_loss: 2.2268 - val_dice_soft: 0.3789 - val_dice_crossentropy: 0.6680 - lr: 1.0000e-05
Epoch 439/500
100/100 [=====] - ETA: 0s - loss: 1.2888 - dice_soft: 0.6778
- dice_crossentropy: 0.4644
Epoch 00439: val_loss did not improve from 0.53244
100/100 [=====] - 89s 868ms/step - loss: 1.2888 - dice_soft:
0.6778 - dice_crossentropy: 0.4644 - val_loss: 0.6168 - val_dice_soft: 0.8423 - val_dice_crossentropy: 0.2632 - lr: 1.0000e-05
Epoch 440/500
100/100 [=====] - ETA: 0s - loss: 1.3788 - dice_soft: 0.6553
- dice_crossentropy: 0.4860
Epoch 00440: val_loss did not improve from 0.53244
100/100 [=====] - 91s 894ms/step - loss: 1.3788 - dice_soft:
0.6553 - dice_crossentropy: 0.4860 - val_loss: 1.2591 - val_dice_soft: 0.6358 - val_dice_crossentropy: 0.4682 - lr: 1.0000e-05
Epoch 441/500
100/100 [=====] - ETA: 0s - loss: 1.3162 - dice_soft: 0.6709
- dice_crossentropy: 0.4697
Epoch 00441: val_loss did not improve from 0.53244
100/100 [=====] - 90s 873ms/step - loss: 1.3162 - dice_soft:
0.6709 - dice_crossentropy: 0.4697 - val_loss: 1.0434 - val_dice_soft: 0.7718 - val_dice_crossentropy: 0.3963 - lr: 1.0000e-05
Epoch 442/500
100/100 [=====] - ETA: 0s - loss: 1.3599 - dice_soft: 0.6600
- dice_crossentropy: 0.4852
Epoch 00442: val_loss did not improve from 0.53244
100/100 [=====] - 92s 917ms/step - loss: 1.3599 - dice_soft:
0.6600 - dice_crossentropy: 0.4852 - val_loss: 1.7876 - val_dice_soft: 0.5360 - val_dice_crossentropy: 0.5590 - lr: 1.0000e-05
Epoch 443/500
100/100 [=====] - ETA: 0s - loss: 1.3749 - dice_soft: 0.6563
- dice_crossentropy: 0.4837
Epoch 00443: val_loss did not improve from 0.53244
100/100 [=====] - 89s 882ms/step - loss: 1.3749 - dice_soft:
0.6563 - dice_crossentropy: 0.4837 - val_loss: 1.7671 - val_dice_soft: 0.5613 - val_dice_crossentropy: 0.5200 - lr: 1.0000e-05
Epoch 444/500
100/100 [=====] - ETA: 0s - loss: 1.2801 - dice_soft: 0.6800
- dice_crossentropy: 0.4560
Epoch 00444: val_loss did not improve from 0.53244
100/100 [=====] - 89s 879ms/step - loss: 1.2801 - dice_soft:
0.6800 - dice_crossentropy: 0.4560 - val_loss: 0.8100 - val_dice_soft: 0.7862 - val_dice_crossentropy: 0.3479 - lr: 1.0000e-05
Epoch 445/500
100/100 [=====] - ETA: 0s - loss: 1.2439 - dice_soft: 0.6890
- dice_crossentropy: 0.4607
Epoch 00445: val_loss did not improve from 0.53244
100/100 [=====] - 90s 888ms/step - loss: 1.2439 - dice_soft:
0.6890 - dice_crossentropy: 0.4607 - val_loss: 1.9481 - val_dice_soft: 0.5485 - val_dice_crossentropy: 0.4870 - lr: 1.0000e-05
Epoch 446/500
100/100 [=====] - ETA: 0s - loss: 1.3074 - dice_soft: 0.6731
- dice_crossentropy: 0.4642
Epoch 00446: val_loss did not improve from 0.53244
100/100 [=====] - 92s 891ms/step - loss: 1.3074 - dice_soft:
0.6731 - dice_crossentropy: 0.4642 - val_loss: 1.0141 - val_dice_soft: 0.7077 - val_dice_crossentropy: 0.4234 - lr: 1.0000e-05

```
100/100 [=====] - ETA: 0s - loss: 1.2678 - dice_soft: 0.6831
- dice_crossentropy: 0.4541
Epoch 00447: val_loss did not improve from 0.53244
100/100 [=====] - 91s 891ms/step - loss: 1.2678 - dice_soft:
0.6831 - dice_crossentropy: 0.4541 - val_loss: 1.1758 - val_dice_soft: 0.7444 - val_d
ice_crossentropy: 0.4090 - lr: 1.0000e-05
Epoch 448/500
100/100 [=====] - ETA: 0s - loss: 1.3265 - dice_soft: 0.6684
- dice_crossentropy: 0.4651
Epoch 00448: val_loss did not improve from 0.53244
100/100 [=====] - 92s 879ms/step - loss: 1.3265 - dice_soft:
0.6684 - dice_crossentropy: 0.4651 - val_loss: 0.6444 - val_dice_soft: 0.8330 - val_d
ice_crossentropy: 0.3345 - lr: 1.0000e-05
Epoch 449/500
100/100 [=====] - ETA: 0s - loss: 1.2942 - dice_soft: 0.6765
- dice_crossentropy: 0.4533
Epoch 00449: val_loss did not improve from 0.53244
100/100 [=====] - 92s 910ms/step - loss: 1.2942 - dice_soft:
0.6765 - dice_crossentropy: 0.4533 - val_loss: 2.2639 - val_dice_soft: 0.4712 - val_d
ice_crossentropy: 0.5809 - lr: 1.0000e-05
Epoch 450/500
100/100 [=====] - ETA: 0s - loss: 1.3992 - dice_soft: 0.6502
- dice_crossentropy: 0.4840
Epoch 00450: val_loss did not improve from 0.53244
100/100 [=====] - 92s 891ms/step - loss: 1.3992 - dice_soft:
0.6502 - dice_crossentropy: 0.4840 - val_loss: 1.2834 - val_dice_soft: 0.6369 - val_d
ice_crossentropy: 0.5380 - lr: 1.0000e-05
Epoch 451/500
100/100 [=====] - ETA: 0s - loss: 1.4510 - dice_soft: 0.6373
- dice_crossentropy: 0.5030
Epoch 00451: val_loss did not improve from 0.53244
100/100 [=====] - 91s 884ms/step - loss: 1.4510 - dice_soft:
0.6373 - dice_crossentropy: 0.5030 - val_loss: 2.3509 - val_dice_soft: 0.4346 - val_d
ice_crossentropy: 0.6200 - lr: 1.0000e-05
Epoch 452/500
100/100 [=====] - ETA: 0s - loss: 1.2596 - dice_soft: 0.6851
- dice_crossentropy: 0.4553
Epoch 00452: val_loss did not improve from 0.53244
100/100 [=====] - 90s 870ms/step - loss: 1.2596 - dice_soft:
0.6851 - dice_crossentropy: 0.4553 - val_loss: 1.0524 - val_dice_soft: 0.7719 - val_d
ice_crossentropy: 0.3423 - lr: 1.0000e-05
Epoch 453/500
100/100 [=====] - ETA: 0s - loss: 1.2799 - dice_soft: 0.6800
- dice_crossentropy: 0.4576
Epoch 00453: val_loss did not improve from 0.53244
100/100 [=====] - 92s 887ms/step - loss: 1.2799 - dice_soft:
0.6800 - dice_crossentropy: 0.4576 - val_loss: 1.8896 - val_dice_soft: 0.5249 - val_d
ice_crossentropy: 0.6383 - lr: 1.0000e-05
Epoch 454/500
100/100 [=====] - ETA: 0s - loss: 1.2904 - dice_soft: 0.6774
- dice_crossentropy: 0.4581
Epoch 00454: val_loss did not improve from 0.53244
100/100 [=====] - 91s 882ms/step - loss: 1.2904 - dice_soft:
0.6774 - dice_crossentropy: 0.4581 - val_loss: 1.6221 - val_dice_soft: 0.6027 - val_d
ice_crossentropy: 0.4598 - lr: 1.0000e-05
Epoch 455/500
100/100 [=====] - ETA: 0s - loss: 1.2691 - dice_soft: 0.6827
- dice_crossentropy: 0.4688
Epoch 00455: val_loss did not improve from 0.53244
100/100 [=====] - 92s 894ms/step - loss: 1.2691 - dice_soft:
0.6827 - dice_crossentropy: 0.4688 - val_loss: 1.2558 - val_dice_soft: 0.7369 - val_d
ice_crossentropy: 0.3904 - lr: 1.0000e-05
Epoch 456/500
100/100 [=====] - ETA: 0s - loss: 1.3348 - dice_soft: 0.6663
- dice_crossentropy: 0.4739
Epoch 00456: val_loss did not improve from 0.53244
```



```
100/100 [=====] - 91s 885ms/step - loss: 1.3348 - dice_soft:
0.6663 - dice_crossentropy: 0.4739 - val_loss: 1.7221 - val_dice_soft: 0.4786 - val_d
ice_crossentropy: 0.5831 - lr: 1.0000e-05
Epoch 457/500
100/100 [=====] - ETA: 0s - loss: 1.3132 - dice_soft: 0.6717
- dice_crossentropy: 0.4674
Epoch 00457: val_loss did not improve from 0.53244
100/100 [=====] - 90s 896ms/step - loss: 1.3132 - dice_soft:
0.6717 - dice_crossentropy: 0.4674 - val_loss: 1.7252 - val_dice_soft: 0.5518 - val_d
ice_crossentropy: 0.5814 - lr: 1.0000e-05
Epoch 458/500
100/100 [=====] - ETA: 0s - loss: 1.3294 - dice_soft: 0.6676
- dice_crossentropy: 0.4665
Epoch 00458: val_loss did not improve from 0.53244
100/100 [=====] - 89s 886ms/step - loss: 1.3294 - dice_soft:
0.6676 - dice_crossentropy: 0.4665 - val_loss: 1.2137 - val_dice_soft: 0.7495 - val_d
ice_crossentropy: 0.4142 - lr: 1.0000e-05
Epoch 459/500
100/100 [=====] - ETA: 0s - loss: 1.3410 - dice_soft: 0.6648
- dice_crossentropy: 0.4673
Epoch 00459: val_loss did not improve from 0.53244
100/100 [=====] - 88s 877ms/step - loss: 1.3410 - dice_soft:
0.6648 - dice_crossentropy: 0.4673 - val_loss: 1.8542 - val_dice_soft: 0.5352 - val_d
ice_crossentropy: 0.5449 - lr: 1.0000e-05
Epoch 460/500
100/100 [=====] - ETA: 0s - loss: 1.3828 - dice_soft: 0.6543
- dice_crossentropy: 0.4738
Epoch 00460: val_loss did not improve from 0.53244
100/100 [=====] - 90s 886ms/step - loss: 1.3828 - dice_soft:
0.6543 - dice_crossentropy: 0.4738 - val_loss: 1.5827 - val_dice_soft: 0.6247 - val_d
ice_crossentropy: 0.4658 - lr: 1.0000e-05
Epoch 461/500
100/100 [=====] - ETA: 0s - loss: 1.3158 - dice_soft: 0.6710
- dice_crossentropy: 0.4628
Epoch 00461: val_loss did not improve from 0.53244
100/100 [=====] - 90s 878ms/step - loss: 1.3158 - dice_soft:
0.6710 - dice_crossentropy: 0.4628 - val_loss: 1.4391 - val_dice_soft: 0.6823 - val_d
ice_crossentropy: 0.5735 - lr: 1.0000e-05
Epoch 462/500
100/100 [=====] - ETA: 0s - loss: 1.3133 - dice_soft: 0.6717
- dice_crossentropy: 0.4678
Epoch 00462: val_loss did not improve from 0.53244
100/100 [=====] - 91s 883ms/step - loss: 1.3133 - dice_soft:
0.6717 - dice_crossentropy: 0.4678 - val_loss: 1.7388 - val_dice_soft: 0.5734 - val_d
ice_crossentropy: 0.4800 - lr: 1.0000e-05
Epoch 463/500
100/100 [=====] - ETA: 0s - loss: 1.2338 - dice_soft: 0.6916
- dice_crossentropy: 0.4513
Epoch 00463: val_loss did not improve from 0.53244
100/100 [=====] - 93s 890ms/step - loss: 1.2338 - dice_soft:
0.6916 - dice_crossentropy: 0.4513 - val_loss: 1.8231 - val_dice_soft: 0.5505 - val_d
ice_crossentropy: 0.5226 - lr: 1.0000e-05
Epoch 464/500
100/100 [=====] - ETA: 0s - loss: 1.3063 - dice_soft: 0.6734
- dice_crossentropy: 0.4710
Epoch 00464: val_loss did not improve from 0.53244
100/100 [=====] - 91s 862ms/step - loss: 1.3063 - dice_soft:
0.6734 - dice_crossentropy: 0.4710 - val_loss: 2.2948 - val_dice_soft: 0.3904 - val_d
ice_crossentropy: 0.6417 - lr: 1.0000e-05
Epoch 465/500
100/100 [=====] - ETA: 0s - loss: 1.3942 - dice_soft: 0.6515
- dice_crossentropy: 0.4797
Epoch 00465: val_loss did not improve from 0.53244
100/100 [=====] - 90s 889ms/step - loss: 1.3942 - dice_soft:
0.6515 - dice_crossentropy: 0.4797 - val_loss: 1.0947 - val_dice_soft: 0.7655 - val_d
ice_crossentropy: 0.3835 - lr: 1.0000e-05
```

Epoch 466/500
100/100 [=====] - ETA: 0s - loss: 1.3778 - dice_soft: 0.6555
- dice_crossentropy: 0.4823
Epoch 00466: val_loss did not improve from 0.53244
100/100 [=====] - 90s 889ms/step - loss: 1.3778 - dice_soft:
0.6555 - dice_crossentropy: 0.4823 - val_loss: 1.2261 - val_dice_soft: 0.7406 - val_d
ice_crossentropy: 0.4193 - lr: 1.0000e-05
Epoch 467/500
100/100 [=====] - ETA: 0s - loss: 1.2618 - dice_soft: 0.6845
- dice_crossentropy: 0.4561
Epoch 00467: val_loss did not improve from 0.53244
100/100 [=====] - 92s 898ms/step - loss: 1.2618 - dice_soft:
0.6845 - dice_crossentropy: 0.4561 - val_loss: 1.0178 - val_dice_soft: 0.7373 - val_d
ice_crossentropy: 0.3720 - lr: 1.0000e-05
Epoch 468/500
100/100 [=====] - ETA: 0s - loss: 1.2911 - dice_soft: 0.6772
- dice_crossentropy: 0.4621
Epoch 00468: val_loss did not improve from 0.53244
100/100 [=====] - 89s 887ms/step - loss: 1.2911 - dice_soft:
0.6772 - dice_crossentropy: 0.4621 - val_loss: 1.7902 - val_dice_soft: 0.5548 - val_d
ice_crossentropy: 0.5292 - lr: 1.0000e-05
Epoch 469/500
100/100 [=====] - ETA: 0s - loss: 1.4210 - dice_soft: 0.6448
- dice_crossentropy: 0.4764
Epoch 00469: val_loss did not improve from 0.53244
100/100 [=====] - 90s 868ms/step - loss: 1.4210 - dice_soft:
0.6448 - dice_crossentropy: 0.4764 - val_loss: 0.6444 - val_dice_soft: 0.8416 - val_d
ice_crossentropy: 0.3680 - lr: 1.0000e-05
Epoch 470/500
100/100 [=====] - ETA: 0s - loss: 1.3171 - dice_soft: 0.6707
- dice_crossentropy: 0.4630
Epoch 00470: val_loss did not improve from 0.53244
100/100 [=====] - 90s 892ms/step - loss: 1.3171 - dice_soft:
0.6707 - dice_crossentropy: 0.4630 - val_loss: 1.9706 - val_dice_soft: 0.5692 - val_d
ice_crossentropy: 0.5914 - lr: 1.0000e-05
Epoch 471/500
100/100 [=====] - ETA: 0s - loss: 1.3713 - dice_soft: 0.6572
- dice_crossentropy: 0.4711
Epoch 00471: val_loss did not improve from 0.53244
100/100 [=====] - 89s 877ms/step - loss: 1.3713 - dice_soft:
0.6572 - dice_crossentropy: 0.4711 - val_loss: 1.5915 - val_dice_soft: 0.6565 - val_d
ice_crossentropy: 0.4340 - lr: 1.0000e-05
Epoch 472/500
100/100 [=====] - ETA: 0s - loss: 1.4055 - dice_soft: 0.6486
- dice_crossentropy: 0.4910
Epoch 00472: val_loss did not improve from 0.53244
100/100 [=====] - 89s 889ms/step - loss: 1.4055 - dice_soft:
0.6486 - dice_crossentropy: 0.4910 - val_loss: 1.4543 - val_dice_soft: 0.6678 - val_d
ice_crossentropy: 0.4271 - lr: 1.0000e-05
Epoch 473/500
100/100 [=====] - ETA: 0s - loss: 1.2733 - dice_soft: 0.6817
- dice_crossentropy: 0.4547
Epoch 00473: val_loss did not improve from 0.53244
100/100 [=====] - 92s 901ms/step - loss: 1.2733 - dice_soft:
0.6817 - dice_crossentropy: 0.4547 - val_loss: 1.6372 - val_dice_soft: 0.6058 - val_d
ice_crossentropy: 0.4695 - lr: 1.0000e-05
Epoch 474/500
100/100 [=====] - ETA: 0s - loss: 1.3230 - dice_soft: 0.6693
- dice_crossentropy: 0.4709
Epoch 00474: val_loss did not improve from 0.53244
100/100 [=====] - 93s 891ms/step - loss: 1.3230 - dice_soft:
0.6693 - dice_crossentropy: 0.4709 - val_loss: 1.9158 - val_dice_soft: 0.5158 - val_d
ice_crossentropy: 0.6318 - lr: 1.0000e-05
Epoch 475/500
100/100 [=====] - ETA: 0s - loss: 1.2923 - dice_soft: 0.6769
- dice_crossentropy: 0.4515

Epoch 00475: val_loss did not improve from 0.53244
100/100 [=====] - 89s 885ms/step - loss: 1.2923 - dice_soft:
0.6769 - dice_crossentropy: 0.4515 - val_loss: 1.7676 - val_dice_soft: 0.5524 - val_d
ice_crossentropy: 0.5693 - lr: 1.0000e-05
Epoch 476/500
100/100 [=====] - ETA: 0s - loss: 1.2763 - dice_soft: 0.6809
- dice_crossentropy: 0.4558
Epoch 00476: val_loss did not improve from 0.53244
100/100 [=====] - 92s 901ms/step - loss: 1.2763 - dice_soft:
0.6809 - dice_crossentropy: 0.4558 - val_loss: 0.9791 - val_dice_soft: 0.7880 - val_d
ice_crossentropy: 0.3211 - lr: 1.0000e-05
Epoch 477/500
100/100 [=====] - ETA: 0s - loss: 1.2542 - dice_soft: 0.6864
- dice_crossentropy: 0.4489
Epoch 00477: val_loss did not improve from 0.53244
100/100 [=====] - 92s 893ms/step - loss: 1.2542 - dice_soft:
0.6864 - dice_crossentropy: 0.4489 - val_loss: 0.5445 - val_dice_soft: 0.8669 - val_d
ice_crossentropy: 0.3240 - lr: 1.0000e-05
Epoch 478/500
100/100 [=====] - ETA: 0s - loss: 1.2856 - dice_soft: 0.6786
- dice_crossentropy: 0.4604
Epoch 00478: val_loss did not improve from 0.53244
100/100 [=====] - 91s 901ms/step - loss: 1.2856 - dice_soft:
0.6786 - dice_crossentropy: 0.4604 - val_loss: 1.1595 - val_dice_soft: 0.6800 - val_d
ice_crossentropy: 0.4119 - lr: 1.0000e-05
Epoch 479/500
100/100 [=====] - ETA: 0s - loss: 1.3895 - dice_soft: 0.6526
- dice_crossentropy: 0.4733
Epoch 00479: val_loss did not improve from 0.53244
100/100 [=====] - 91s 877ms/step - loss: 1.3895 - dice_soft:
0.6526 - dice_crossentropy: 0.4733 - val_loss: 1.8914 - val_dice_soft: 0.5166 - val_d
ice_crossentropy: 0.6340 - lr: 1.0000e-05
Epoch 480/500
100/100 [=====] - ETA: 0s - loss: 1.3382 - dice_soft: 0.6655
- dice_crossentropy: 0.4714
Epoch 00480: val_loss did not improve from 0.53244
100/100 [=====] - 90s 876ms/step - loss: 1.3382 - dice_soft:
0.6655 - dice_crossentropy: 0.4714 - val_loss: 1.3989 - val_dice_soft: 0.6826 - val_d
ice_crossentropy: 0.4164 - lr: 1.0000e-05
Epoch 481/500
100/100 [=====] - ETA: 0s - loss: 1.3356 - dice_soft: 0.6661
- dice_crossentropy: 0.4651
Epoch 00481: val_loss did not improve from 0.53244
100/100 [=====] - 91s 887ms/step - loss: 1.3356 - dice_soft:
0.6661 - dice_crossentropy: 0.4651 - val_loss: 1.6776 - val_dice_soft: 0.4987 - val_d
ice_crossentropy: 0.5820 - lr: 1.0000e-05
Epoch 482/500
100/100 [=====] - ETA: 0s - loss: 1.4148 - dice_soft: 0.6463
- dice_crossentropy: 0.4858
Epoch 00482: val_loss did not improve from 0.53244
100/100 [=====] - 91s 902ms/step - loss: 1.4148 - dice_soft:
0.6463 - dice_crossentropy: 0.4858 - val_loss: 1.0076 - val_dice_soft: 0.7799 - val_d
ice_crossentropy: 0.3612 - lr: 1.0000e-05
Epoch 483/500
100/100 [=====] - ETA: 0s - loss: 1.3681 - dice_soft: 0.6580
- dice_crossentropy: 0.4742
Epoch 00483: val_loss did not improve from 0.53244
100/100 [=====] - 90s 868ms/step - loss: 1.3681 - dice_soft:
0.6580 - dice_crossentropy: 0.4742 - val_loss: 1.6205 - val_dice_soft: 0.5113 - val_d
ice_crossentropy: 0.6058 - lr: 1.0000e-05
Epoch 484/500
100/100 [=====] - ETA: 0s - loss: 1.3517 - dice_soft: 0.6621
- dice_crossentropy: 0.4827
Epoch 00484: val_loss did not improve from 0.53244
100/100 [=====] - 93s 916ms/step - loss: 1.3517 - dice_soft:
0.6621 - dice_crossentropy: 0.4827 - val_loss: 1.1932 - val_dice_soft: 0.7340 - val_d

```
ice_crossentropy: 0.3692 - lr: 1.0000e-05
Epoch 485/500
100/100 [=====] - ETA: 0s - loss: 1.2057 - dice_soft: 0.6986
- dice_crossentropy: 0.4332
Epoch 00485: val_loss did not improve from 0.53244
100/100 [=====] - 90s 892ms/step - loss: 1.2057 - dice_soft:
0.6986 - dice_crossentropy: 0.4332 - val_loss: 1.2089 - val_dice_soft: 0.6463 - val_d
ice_crossentropy: 0.4642 - lr: 1.0000e-05
Epoch 486/500
100/100 [=====] - ETA: 0s - loss: 1.3722 - dice_soft: 0.6570
- dice_crossentropy: 0.4614
Epoch 00486: val_loss did not improve from 0.53244
100/100 [=====] - 88s 853ms/step - loss: 1.3722 - dice_soft:
0.6570 - dice_crossentropy: 0.4614 - val_loss: 0.9722 - val_dice_soft: 0.7914 - val_d
ice_crossentropy: 0.3782 - lr: 1.0000e-05
Epoch 487/500
100/100 [=====] - ETA: 0s - loss: 1.2622 - dice_soft: 0.6845
- dice_crossentropy: 0.4473
Epoch 00487: val_loss did not improve from 0.53244
100/100 [=====] - 89s 888ms/step - loss: 1.2622 - dice_soft:
0.6845 - dice_crossentropy: 0.4473 - val_loss: 1.3194 - val_dice_soft: 0.6602 - val_d
ice_crossentropy: 0.4276 - lr: 1.0000e-05
Epoch 488/500
100/100 [=====] - ETA: 0s - loss: 1.3389 - dice_soft: 0.6653
- dice_crossentropy: 0.4700
Epoch 00488: val_loss did not improve from 0.53244
100/100 [=====] - 91s 896ms/step - loss: 1.3389 - dice_soft:
0.6653 - dice_crossentropy: 0.4700 - val_loss: 1.3000 - val_dice_soft: 0.6553 - val_d
ice_crossentropy: 0.4226 - lr: 1.0000e-05
Epoch 489/500
100/100 [=====] - ETA: 0s - loss: 1.2500 - dice_soft: 0.6875
- dice_crossentropy: 0.4483
Epoch 00489: val_loss did not improve from 0.53244
100/100 [=====] - 89s 887ms/step - loss: 1.2500 - dice_soft:
0.6875 - dice_crossentropy: 0.4483 - val_loss: 1.3988 - val_dice_soft: 0.6109 - val_d
ice_crossentropy: 0.4670 - lr: 1.0000e-05
Epoch 490/500
100/100 [=====] - ETA: 0s - loss: 1.3192 - dice_soft: 0.6702
- dice_crossentropy: 0.4584
Epoch 00490: val_loss did not improve from 0.53244
100/100 [=====] - 88s 871ms/step - loss: 1.3192 - dice_soft:
0.6702 - dice_crossentropy: 0.4584 - val_loss: 1.4073 - val_dice_soft: 0.6839 - val_d
ice_crossentropy: 0.4393 - lr: 1.0000e-05
Epoch 491/500
100/100 [=====] - ETA: 0s - loss: 1.3398 - dice_soft: 0.6651
- dice_crossentropy: 0.4617
Epoch 00491: val_loss did not improve from 0.53244
100/100 [=====] - 92s 914ms/step - loss: 1.3398 - dice_soft:
0.6651 - dice_crossentropy: 0.4617 - val_loss: 1.0840 - val_dice_soft: 0.6982 - val_d
ice_crossentropy: 0.4255 - lr: 1.0000e-05
Epoch 492/500
100/100 [=====] - ETA: 0s - loss: 1.3923 - dice_soft: 0.6519
- dice_crossentropy: 0.4891
Epoch 00492: val_loss did not improve from 0.53244
100/100 [=====] - 89s 872ms/step - loss: 1.3923 - dice_soft:
0.6519 - dice_crossentropy: 0.4891 - val_loss: 1.0362 - val_dice_soft: 0.7603 - val_d
ice_crossentropy: 0.4129 - lr: 1.0000e-05
Epoch 493/500
100/100 [=====] - ETA: 0s - loss: 1.2924 - dice_soft: 0.6769
- dice_crossentropy: 0.4609
Epoch 00493: val_loss did not improve from 0.53244
100/100 [=====] - 94s 895ms/step - loss: 1.2924 - dice_soft:
0.6769 - dice_crossentropy: 0.4609 - val_loss: 2.0617 - val_dice_soft: 0.4064 - val_d
ice_crossentropy: 0.6216 - lr: 1.0000e-05
Epoch 494/500
Loading [MathJax]/extensions/Safe.js [=====] - ETA: 0s - loss: 1.3856 - dice_soft: 0.6536
```

```

- dice_crossentropy: 0.4814
Epoch 00494: val_loss did not improve from 0.53244
100/100 [=====] - 91s 903ms/step - loss: 1.3856 - dice_soft:
0.6536 - dice_crossentropy: 0.4814 - val_loss: 1.0234 - val_dice_soft: 0.7466 - val_d
ice_crossentropy: 0.3703 - lr: 1.0000e-05
Epoch 495/500
100/100 [=====] - ETA: 0s - loss: 1.2664 - dice_soft: 0.6834
- dice_crossentropy: 0.4473
Epoch 00495: val_loss did not improve from 0.53244
100/100 [=====] - 89s 873ms/step - loss: 1.2664 - dice_soft:
0.6834 - dice_crossentropy: 0.4473 - val_loss: 1.9616 - val_dice_soft: 0.4682 - val_d
ice_crossentropy: 0.5667 - lr: 1.0000e-05
Epoch 496/500
100/100 [=====] - ETA: 0s - loss: 1.3195 - dice_soft: 0.6701
- dice_crossentropy: 0.4592
Epoch 00496: val_loss did not improve from 0.53244
100/100 [=====] - 89s 868ms/step - loss: 1.3195 - dice_soft:
0.6701 - dice_crossentropy: 0.4592 - val_loss: 1.2061 - val_dice_soft: 0.6496 - val_d
ice_crossentropy: 0.4317 - lr: 1.0000e-05
Epoch 497/500
100/100 [=====] - ETA: 0s - loss: 1.2989 - dice_soft: 0.6753
- dice_crossentropy: 0.4606
Epoch 00497: val_loss did not improve from 0.53244
100/100 [=====] - 90s 873ms/step - loss: 1.2989 - dice_soft:
0.6753 - dice_crossentropy: 0.4606 - val_loss: 1.2401 - val_dice_soft: 0.6629 - val_d
ice_crossentropy: 0.4488 - lr: 1.0000e-05
Epoch 498/500
100/100 [=====] - ETA: 0s - loss: 1.3427 - dice_soft: 0.6643
- dice_crossentropy: 0.4703
Epoch 00498: val_loss did not improve from 0.53244
100/100 [=====] - 92s 889ms/step - loss: 1.3427 - dice_soft:
0.6643 - dice_crossentropy: 0.4703 - val_loss: 0.9996 - val_dice_soft: 0.7902 - val_d
ice_crossentropy: 0.3026 - lr: 1.0000e-05
Epoch 499/500
100/100 [=====] - ETA: 0s - loss: 1.3733 - dice_soft: 0.6567
- dice_crossentropy: 0.4671
Epoch 00499: val_loss did not improve from 0.53244
100/100 [=====] - 91s 898ms/step - loss: 1.3733 - dice_soft:
0.6567 - dice_crossentropy: 0.4671 - val_loss: 1.5542 - val_dice_soft: 0.6641 - val_d
ice_crossentropy: 0.3853 - lr: 1.0000e-05
Epoch 500/500
100/100 [=====] - ETA: 0s - loss: 1.3884 - dice_soft: 0.6529
- dice_crossentropy: 0.4738
Epoch 00500: val_loss did not improve from 0.53244
100/100 [=====] - 89s 865ms/step - loss: 1.3884 - dice_soft:
0.6529 - dice_crossentropy: 0.4738 - val_loss: 1.2314 - val_dice_soft: 0.6443 - val_d
ice_crossentropy: 0.4985 - lr: 1.0000e-05

```

```
In [22]: model.dump("./model")
```

```

2022-08-21 01:09:46.135334: W tensorflow/python/util/util.cc:368] Sets are not current
ly considered sequences, but this may change in the future, so consider avoiding using
them.
INFO:tensorflow:Assets written to: ./model/assets

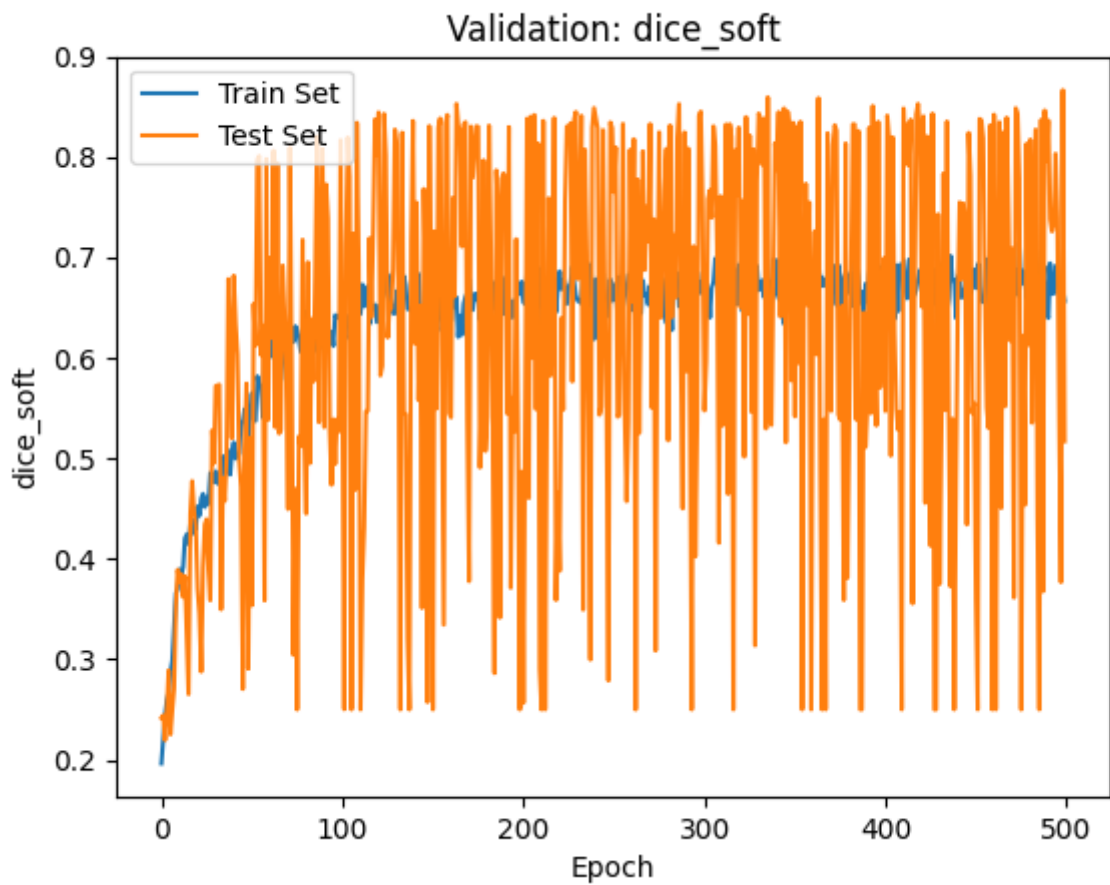
```

Let's check out the results

After running the Cross-Validation, we have a look on the visualizations, plots and results. Therefore, we open the results of fold 0 and load the automatically created plots.

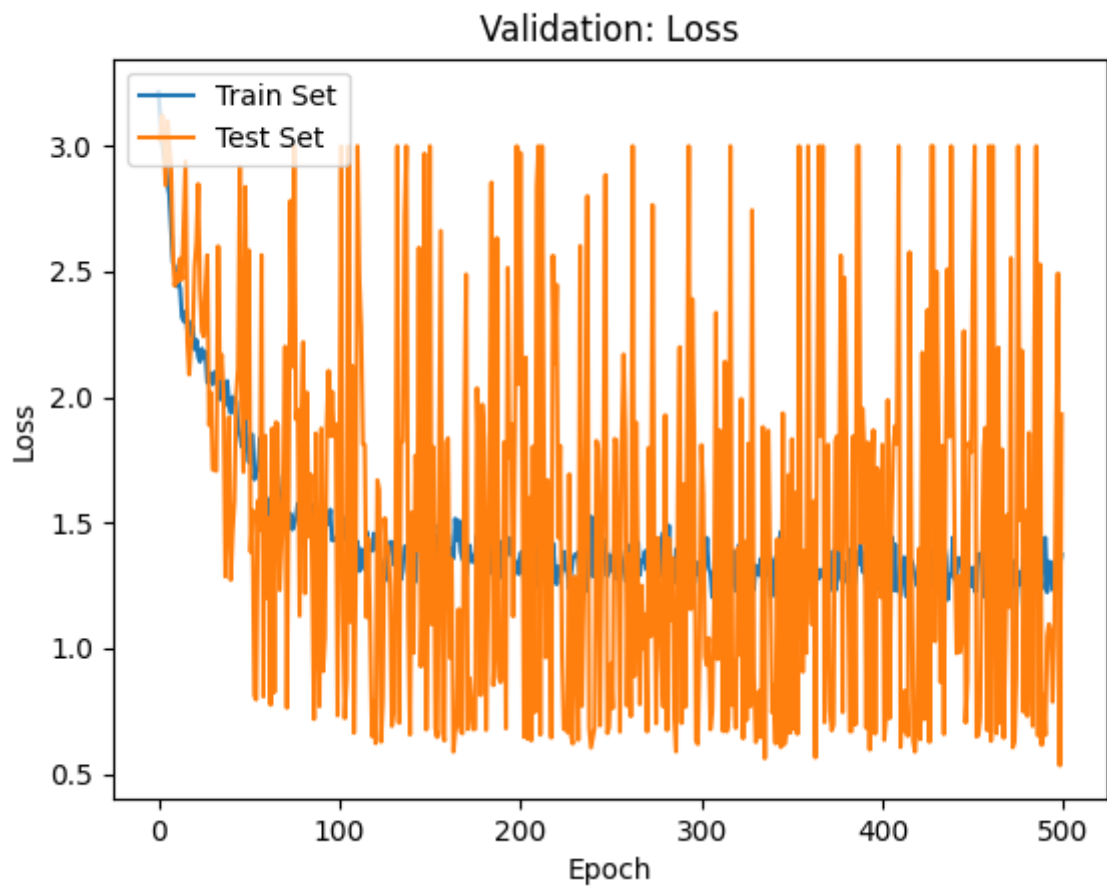
```
In [23]: from IPython.display import Image
Image(filename = "evaluation/fold_0/validation.dice_soft.png")
```

Out[23]:



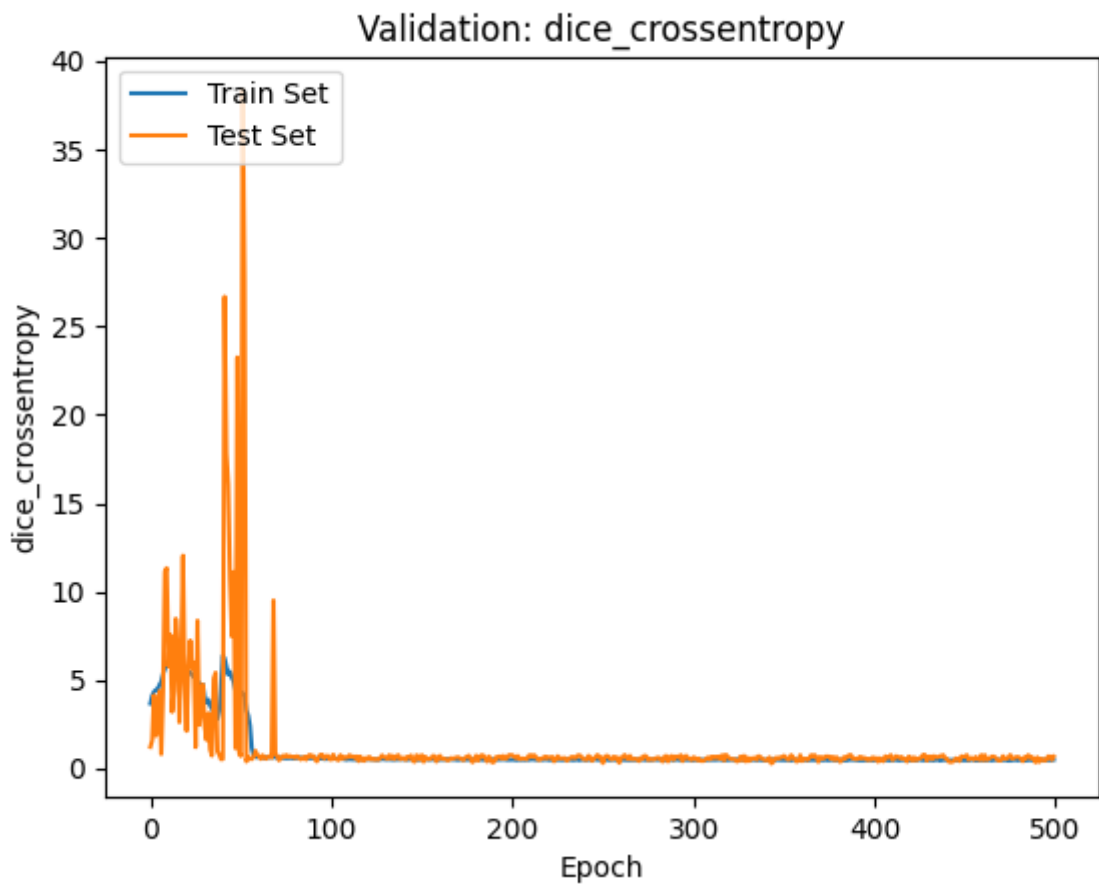
In [24]: `Image(filename = "evaluation/fold_0/validation.loss.png")`

Out[24]:



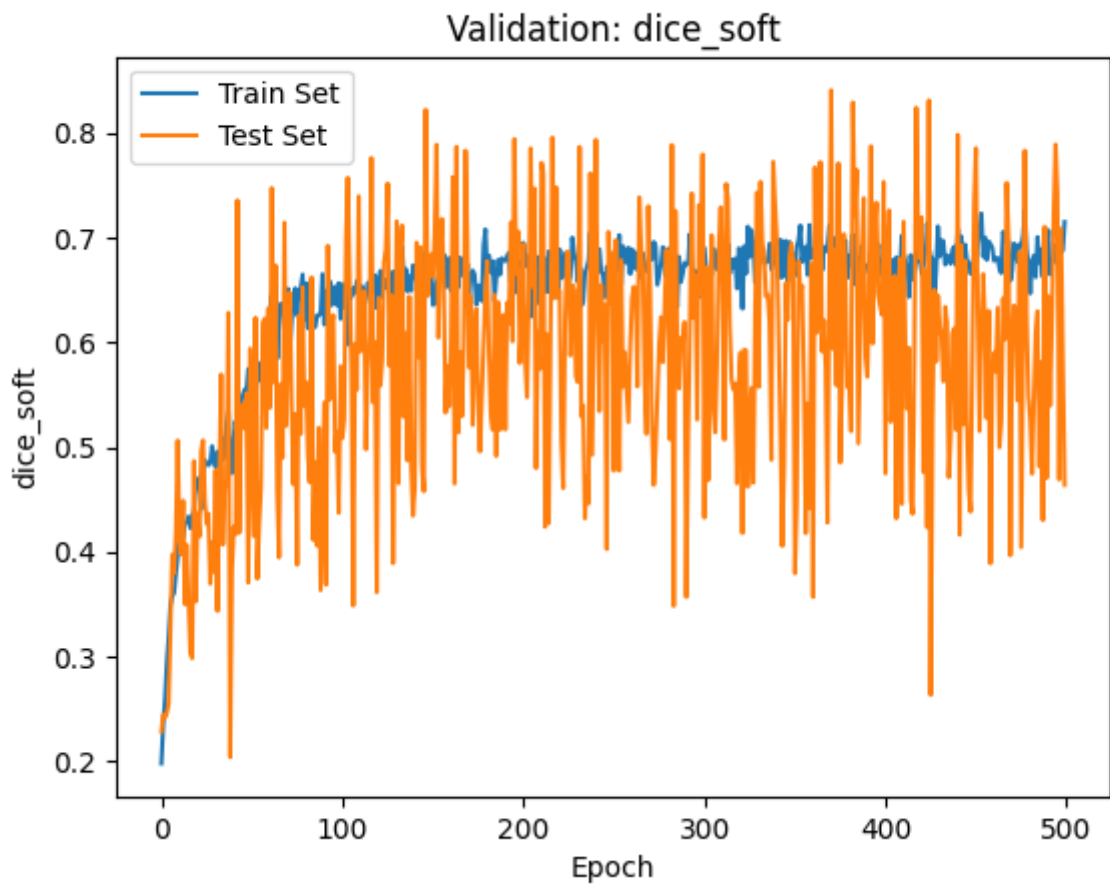
In [25]: `Image(filename = "evaluation/fold_0/validation.dice_crossentropy.png")`

Out[25]:



In [26]: `Image(filename = "evaluation/fold_1/validation.dice_soft.png")`

Out[26]:



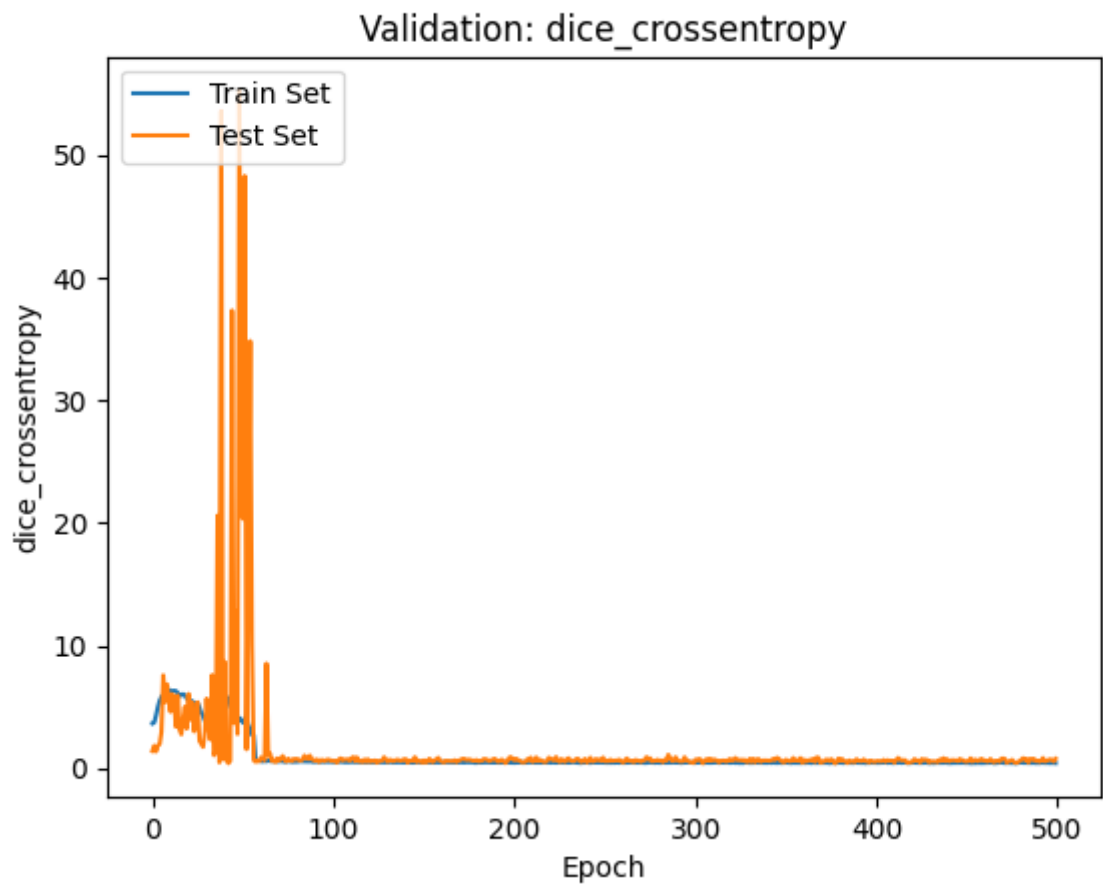
In [27]: `Image(filename = "evaluation/fold_1/validation.loss.png")`

Out[27]:



In [28]: `Image(filename = "evaluation/fold_1/validation.dice_crossentropy.png")`

Out[28]:



In [29]: `Image(filename = "evaluation/fold_2/validation.dice_soft.png")`

Out[29]:



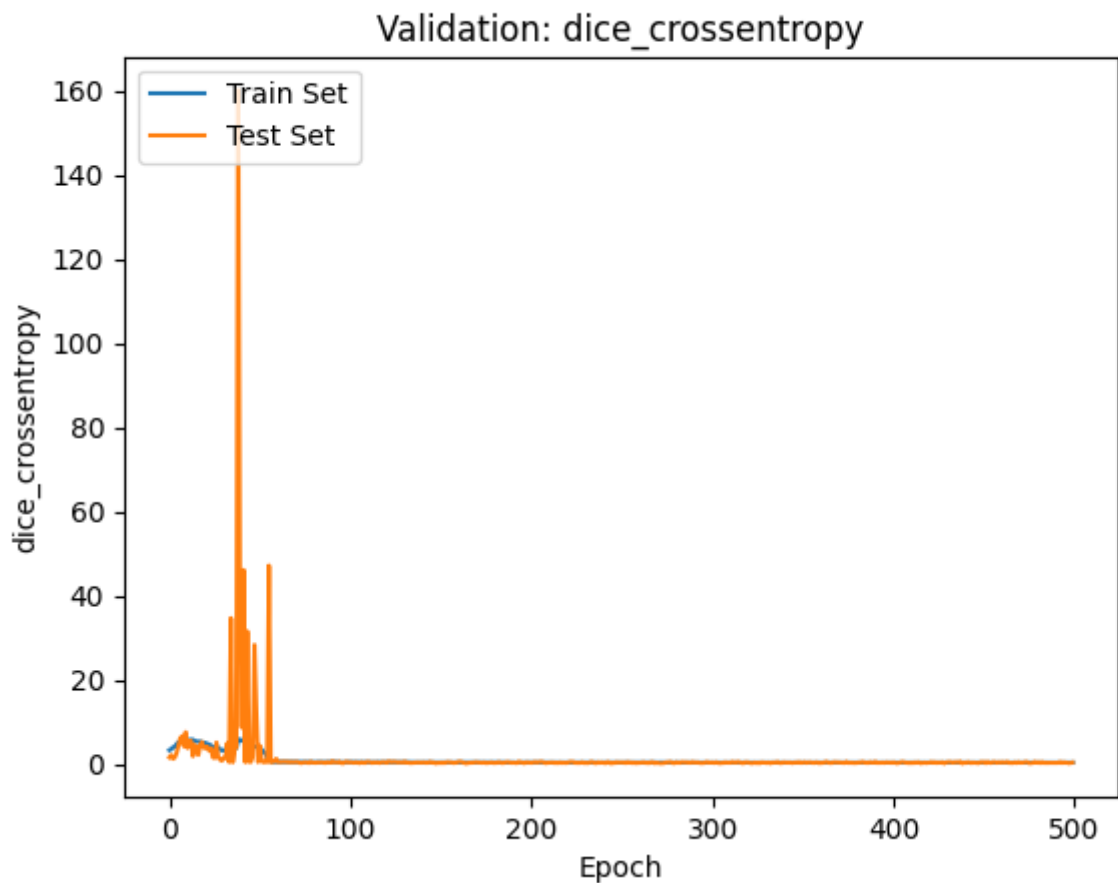
In [30]: `Image(filename = "evaluation/fold_2/validation.loss.png")`

Out[30]:



In [31]: `Image(filename = "evaluation/fold_2/validation.dice_crossentropy.png")`

Out[31]:



Final words

Here, I presented the workflow of using MIScnn for medical image segmentation problems like in this example: The Kidney Tumor Segmentation Challenge 2019.

I hope to give you an intention on how MIScnn works and how you can integrate/use MIScnn in your research projects.

For further questions or suggestions, please do not hesitate to get in contact with me.

Thanks for reading,
Dominik Müller

In [66]: `sample_list`

```
Out[66]: ['S302_6D',
          'A16X070_1D',
          '99N143_3D',
          'A16X070_14D',
          '02D128_1D',
          '35269_1D',
          'A13R045_1D',
          '36013_1D',
          '36013_14D',
          '99N143_7D',
          'A15N006_1D',
          'A16N082_1D',
          'S302_1D',
          'A16N082_3D',
          '32268_2H',
          'A15N006_14D',
          '32268_3D',
          'A13R045_14D',
          '02D128_14D',
          '35269_7D']
```

```
In [75]: monkey = '32268_2H'

pred = model.predict([monkey], return_output=True)
```

```
In [68]: # sample_list
#input_data
print(data_io.sample_loader(monkey).img_data.shape)

#labels_segmantation
print(data_io.sample_loader(monkey).seg_data.shape)
print(pred[0].shape)
# .img_data

(512, 512, 172, 1)
(512, 512, 172, 1)
(512, 512, 172)
```

```
In [69]: import tensorflow as tf
import tiffiffle
import napari
```

```
In [77]: v = napari.Viewer()
v.add_image(np.swapaxes(data_io.sample_loader(monkey).img_data[:,:,:,:0],0,2),scale=(3
v.add_labels(np.swapaxes(data_io.sample_loader(monkey).seg_data[:,:,:,:0],0,2),scale=(
v.add_labels(np.swapaxes(pred[0],0,2),scale=(c0, 1.1719, 1.1719),name="AImonkeh")
```

```
/home/jmamede/anaconda3/envs/miscnn/lib/python3.8/site-packages/napari/_vispy/vispy_ca
mera.py:105: RuntimeWarning: divide by zero encountered in true_divide
  zoom = canvas_size / scale
/home/jmamede/anaconda3/envs/miscnn/lib/python3.8/site-packages/napari/layers/labels/l
abels.py:382: UserWarning: Float dtypes are not supported for Labels layers. Converting
g data to integers...
  warnings.warn(
```

```
Out[77]: <Labels layer 'AImonkeh' at 0x7fefcc013340>
```

```
In [ ]:
```