**Table S5.** Metrics obtained for all test sets as a whole for the different models and datasets used during training. Best value per metric is indicated in bold.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dataset for training/validation set** | **Network** | **All datasets** | | | | | | |
| Accuracy | Precision | Recall | Specificity | F2-score | Jaccard | Dice |
| CVC-EndoSceneStill | U-Net+VGG16 | 86.30±16.63 | 64.72±40.19 | 52.15±39.17 | 95.56±10.02 | 49.88±37.84 | 42.69±35.13 | 50.68±37.70 |
| U-Net+Densenet121 | 88.70±16.68 | 70.14±39.97 | 56.15±41.46 | 98.05±5.85 | 55.89±40.88 | 50.88±38.51 | 57.26±40.32 |
| Linknet+VGG16 | 87.31±16.00 | 65.46±38.89 | 54.3±39.900 | 96.71±6.42 | 52.50±38.02 | 44.51±34.86 | 52.77±37.13 |
| Linknet+Densenet121 | 89.12±16.15 | 67.75±40.26 | 59.31±40.94 | 97.93±5.00 | 58.75±40.00 | 52.63±37.53 | 59.39±39.36 |
| Kvasir-SEG | U-Net+VGG16 | 88.91±15.28 | 60.69±44.27 | 44.16±42.17 | **98.94±2.93** | 44.23±41.22 | 39.50±37.98 | 45.63±40.84 |
| U-Net+Densenet121 | 91.46±13.99 | 72.23±35.85 | 71.15±38.56 | 96.96±7.56 | 68.20±37.29 | 59.87±35.72 | 66.82±36.57 |
| Linknet+VGG16 | 91.35±11.91 | 72.95±36.99 | 61.19±39.94 | 98.52±3.31 | 60.69±38.60 | 54.04±35.99 | 61.49±37.60 |
| Linknet+Densenet121 | 90.87±14.69 | 71.70±35.83 | 71.48±38.08 | 95.58±12.13 | 67.82±37.00 | 59.35±35.33 | 66.52±36.41 |
| PICCOLO | U-Net+VGG16 | 90.99±11.51 | 70.81±35.48 | 65.56±37.97 | 96.25±7.89 | 63.02±36.47 | 54.24±34.93 | 62.34±35.79 |
| U-Net+Densenet121 | **92.96±11.10** | **79.06±31.81** | **72.41±35.54** | 98.08±4.48 | **70.97±34.80** | **63.97±34.35** | **70.90±34.45** |
| Linknet+VGG16 | 91.88±11.28 | 74.34±34.56 | 64.73±38.91 | 97.62±5.43 | 63.21±37.56 | 55.76±35.87 | 63.24±36.79 |
| Linknet+Densenet121 | 92.74±11.94 | 78.03±32.64 | 68.42±37.87 | 97.59±7.47 | 67.48±36.97 | 61.02±35.79 | 67.79±36.40 |
|  |  | **All datasets (from PICCOLO, only WL frames are included)** | | | | | | |
| CVC-EndoSceneStill | U-Net+VGG16 | 88.51±13.20 | 68.61±37.41 | 60.50±36.80 | 94.87±10.56 | 57.45±35.79 | 49.19±34.07 | 57.94±35.59 |
| U-Net+Densenet121 | 91.33±12.05 | 76.31±36.15 | 61.85±39.29 | 98.11±5.21 | 61.50±38.71 | 56.14±36.88 | 63.05±37.91 |
| Linknet+VGG16 | 89.69±11.85 | 69.65±35.90 | 61.65±37.34 | 96.19±6.83 | 59.29±35.44 | 50.15±33.28 | 59.29±34.47 |
| Linknet+Densenet121 | 91.72±11.43 | 72.83±37.49 | 64.64±38.69 | 97.89±4.13 | 64.03±37.86 | 57.72±36.17 | 64.76±37.23 |
| Kvasir-SEG | U-Net+VGG16 | 91.25±11.13 | 59.78±44.54 | 47.33±42.48 | **98.83±3.20** | 47.26±41.55 | 42.37±38.48 | 48.48±41.30 |
| U-Net+Densenet121 | 93.91±9.55 | 76.00±33.04 | **75.71±35.63** | 97.32±6.60 | 72.91±34.68 | 64.57±33.72 | 71.59±34.03 |
| Linknet+VGG16 | 92.59±10.36 | 73.33±36.85 | 62.34±39.88 | 98.59±3.36 | 61.86±38.71 | 55.41±36.29 | 62.59±37.81 |
| Linknet+Densenet121 | 94.13±9.01 | 75.93±33.70 | 71.73±37.72 | 98.12±4.33 | **70.39±36.57** | **62.99±34.45** | **69.87±35.54** |
| PICCOLO | U-Net+VGG16 | 90.76±11.90 | 68.02±36.71 | 63.43±39.14 | 95.89±8.56 | 60.49±37.55 | 51.67±35.83 | 59.53±36.95 |
| U-Net+Densenet121 | **93.08±10.80** | **77.34±33.12** | 71.25±36.07 | 97.91±4.90 | 69.45±35.29 | 62.19±34.94 | 69.23±35.09 |
| Linknet+VGG16 | 92.13±10.87 | 73.05±35.55 | 63.74±39.11 | 97.60±5.55 | 62.24±37.75 | 54.80±36.03 | 62.27±37.15 |
| Linknet+Densenet121 | 92.76±11.91 | 76.34±33.70 | 67.08±38.20 | 97.54±7.83 | 65.95±37.28 | 59.34±36.14 | 66.22±36.87 |