origia\_unet\_esa\_grid\_Lovasz\_best\_epoch\_19\_0：

Confusion Matrix:

[[33500336 29568 630]

[ 16045 296533 28739]

[ 22 25185 181662]]

IoU: [0.99862087 0.74868836 0.76897874]

DSC: [0.99930996 0.85628564 0.86940416]

PC: [0.99952062 0.84413555 0.86083087]

SE: [0.99909939 0.8687906 0.87814994]

SP: [0.9674929490836843, 0.9983770517795267, 0.9991317686584006]

F1: [0.99930996 0.85628564 0.86940416]

Testing: MIoU: 0.8388, MDSC: 0.9083, MPC: 0.9015, AC: 0.9971, MSE: 0.9153, MSP: 0.9883, MF1: 0.9083

origia\_unet\_esa\_Lovasz\_best\_epoch\_13\_0：

Confusion Matrix:

[[33505618 24916 0]

[ 26068 296312 18937]

[ 1129 34555 171185]]

IoU: [0.99844706 0.73932353 0.75810652]

DSC: [0.99922293 0.85012767 0.8624125 ]

PC: [0.99918894 0.83284474 0.90039554]

SE: [0.99925692 0.8681431 0.82750436]

SP: [0.945022579614873, 0.9982371793636725, 0.9994400794042329]

F1: [0.99922293 0.85012767 0.8624125 ]

Testing: MIoU: 0.8320, MDSC: 0.9039, MPC: 0.9108, AC: 0.9969, MSE: 0.8983, MSP: 0.9809, MF1: 0.9039

origia\_unet\_Lovasz\_best\_epoch\_12\_0：

Confusion Matrix:

[[33501723 28080 731]

[ 22659 270838 47820]

[ 324 14777 191768]]

IoU: [0.99845638 0.70498784 0.75079477]

DSC: [0.99922759 0.82697111 0.85766165]

PC: [0.99931445 0.86338003 0.79797269]

SE: [0.99914075 0.79350867 0.92700211]

SP: [0.9526698504290666, 0.9987296491013194, 0.9985644765317001]

F1: [0.99922759 0.82697111 0.85766165]

Testing: MIoU: 0.8181, MDSC: 0.8946, MPC: 0.8869, AC: 0.9966, MSE: 0.9066, MSP: 0.9833, MF1: 0.8946

refuge\_unet\_Lovasz\_best\_epoch\_11\_0：

Confusion Matrix:

[[103013067 173115 1031]

[ 25286 1130423 69912]

[ 346 34491 409929]]

IoU: [0.99806441 0.78872572 0.79488432]

DSC: [0.99903127 0.88188559 0.88572206]

PC: [0.99975124 0.84484193 0.8524701 ]

SE: [0.99831233 0.92232672 0.92167342]

SP: [0.9836320166744998, 0.9979966728360798, 0.9993192593582503]

F1: [0.99903127 0.88188559 0.88572206]

Testing: MIoU: 0.8606, MDSC: 0.9222, MPC: 0.8990, AC: 0.9971, MSE: 0.9474, MSP: 0.9936, MF1: 0.9222

refuge\_unet\_esa\_Lovasz\_best\_epoch\_15\_0：

Confusion Matrix:

[[103082945 103216 1052]

[ 46484 1112764 66373]

[ 101 36162 408503]]

IoU: [0.99853872 0.81521232 0.79755989]

DSC: [0.99926883 0.89820051 0.88738061]

PC: [0.99954829 0.88868834 0.85832941]

SE: [0.99898953 0.90791852 0.91846724]

SP: [0.9702873740633682, 0.9986550526963859, 0.9993533188825879]

F1: [0.99926883 0.89820051 0.88738061]

Testing: MIoU: 0.8704, MDSC: 0.9283, MPC: 0.9155, AC: 0.9976, MSE: 0.9418, MSP: 0.9894, MF1: 0.9283

refuge\_unet\_esa\_grid\_Lovasz\_best\_epoch\_23\_0

Confusion Matrix:

[[103097923 89290 0]

[ 51288 1121592 52741]

[ 527 42775 401464]]

IoU: [0.99863322 0.82610559 0.80695146]

DSC: [0.99931614 0.90477308 0.89316341]

PC: [0.99949767 0.89465619 0.88388283]

SE: [0.99913468 0.9151214 0.90264094]

SP: [0.9670988925442148, 0.9987256282002108, 0.9994941991089173]

F1: [0.99931614 0.90477308 0.89316341]

Testing: MIoU: 0.8772, MDSC: 0.9324, MPC: 0.9260, AC: 0.9977, MSE: 0.9390, MSP: 0.9884, MF1: 0.9324

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Bg 视盘(高) 视杯(低)