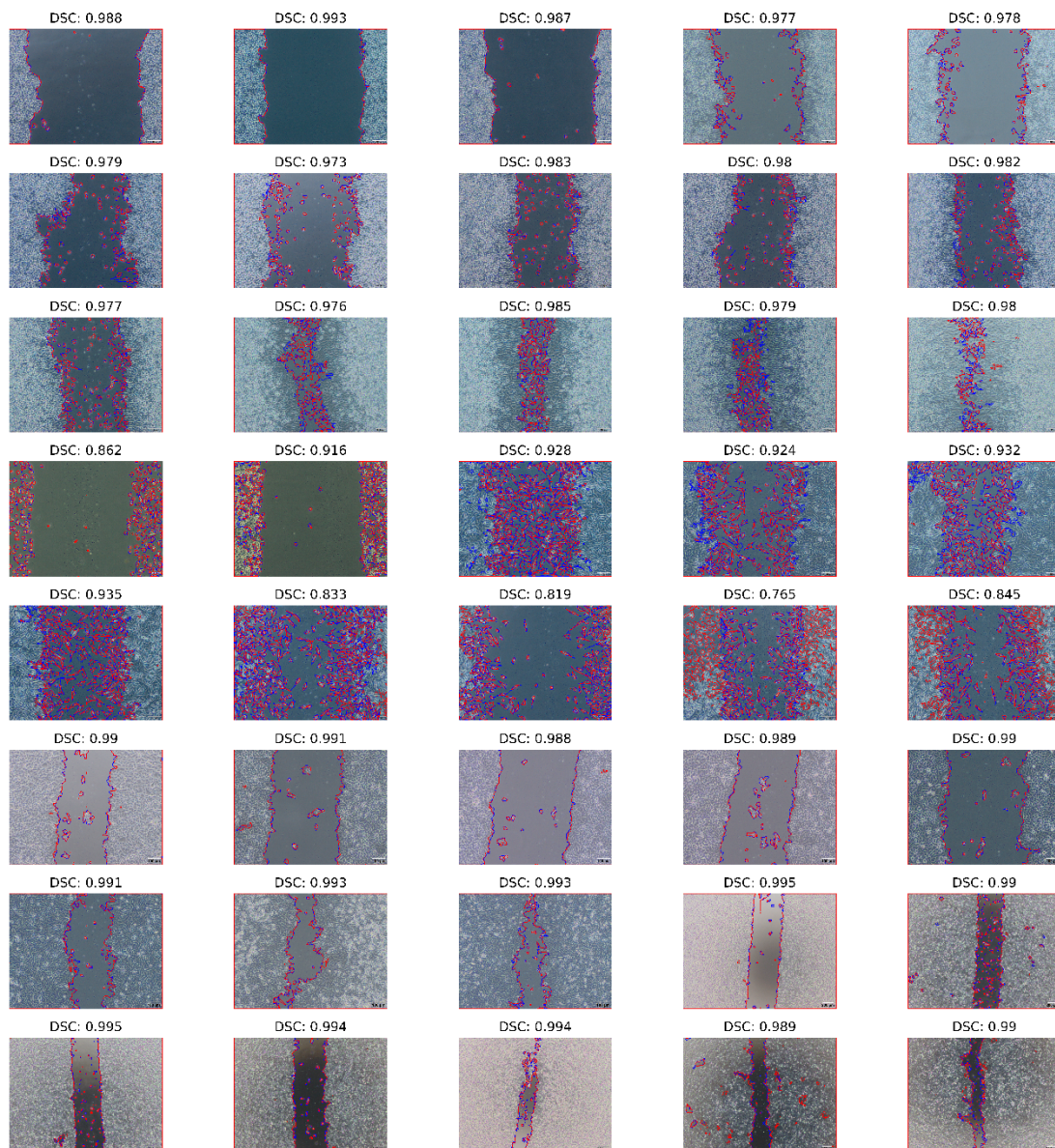
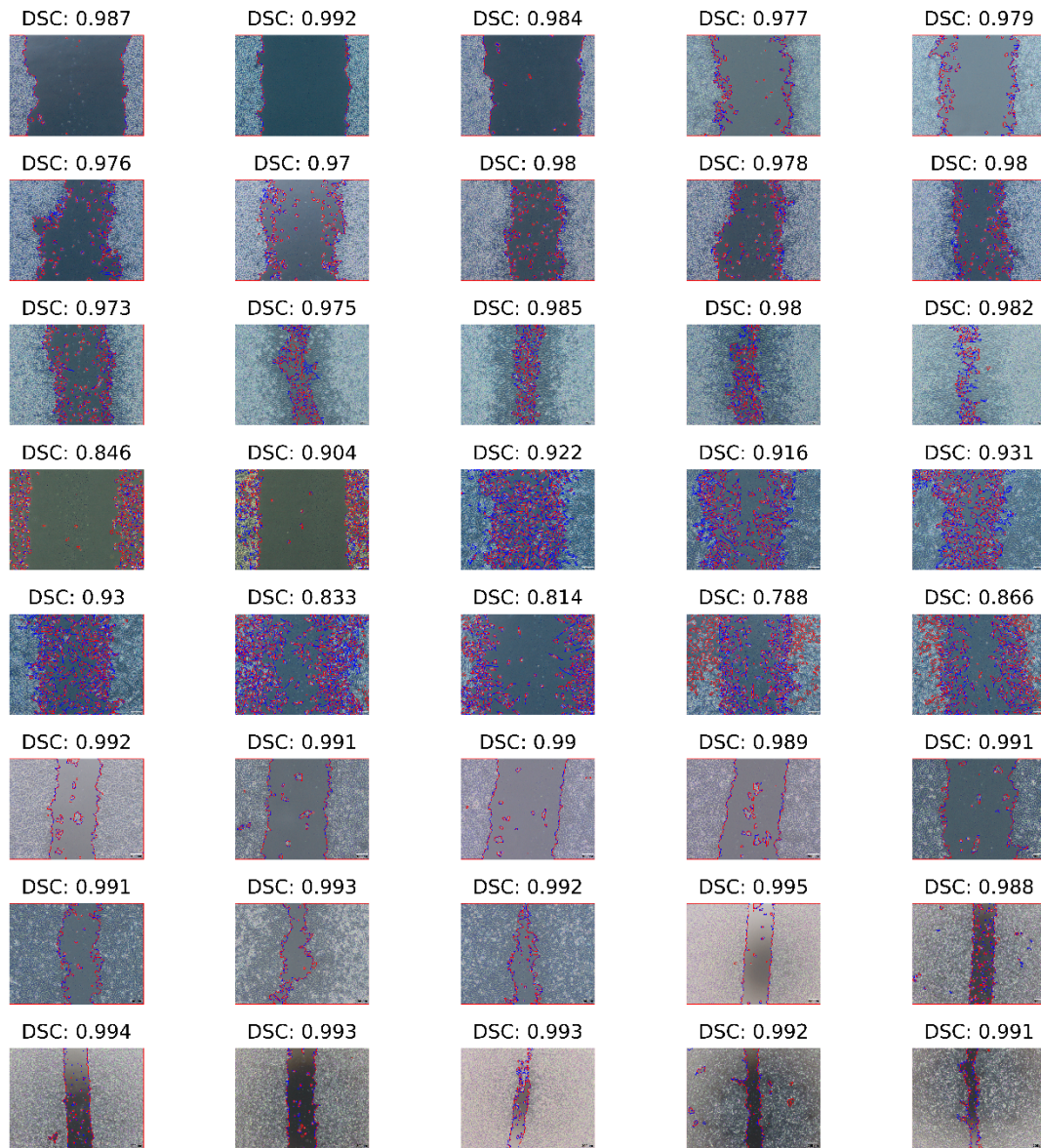


Additional File 4 – Figure A1: Test phase results for **U-net** model. Each test image sample showed as in its original form, and the predicted and ground truth labels contours were drawn on the image to observe the edge prediction discrimination. Contour lines were denoted as Red (-) for Predicted and Blue (-) for Ground-Truth (DSC: Dice Similarity Coefficient).



Additional File 4. – Figure A2: Test phase results for **U-net++** model. Each test image sample showed as in its original form, and the predicted and ground truth labels contours were drawn on the image to observe the edge prediction discrimination. Contour lines were denoted as Red (-) for Predicted and Blue (-) for Ground-Truth (DSC: Dice Similarity Coefficient).



Additional File 4. – Figure A3: Test phase results for **Attention U-net** model. Each test image sample showed as in its original form, and the predicted and ground truth labels contours were drawn on the image to observe the edge prediction discrimination. Contour lines were denoted as Red (-) for Predicted and Blue (-) for Ground-Truth (DSC: Dice Similarity Coefficient).

