

**Supplemental Table S4.** BRVO/CRVO subgroup performance (with 95% CI) of our proposed 3D SS-OCTA-omics (3D ConvNeXt-tiny + mRMR).

Types	Acc.	Sen.	Spe.	Pre.	F1.	AUC.
BRVO	0.785 (0.590-0.917)	0.789 (0.544-0.939)	0.812 (0.612-0.941)	0.761 (0.528-0.918)	0.768 (0.562-0.902)	0.780 (0.591-0.969)
CRVO	0.857 (0.673-0.960)	0.830 (0.601-0.950)	0.848 (0.621-0.968)	0.788 (0.540-0.939)	0.792 (0.612-0.925)	0.812 (0.628-0.995)
BRVO (external)	0.779 (0.690-0.852)	0.798 (0.710-0.869)	0.811 (0.725-0.880)	0.791 (0.702-0.864)	0.782 (0.695-0.850)	0.757 (0.665-0.849)
CRVO (external)	0.811 (0.725-0.880)	0.813 (0.727-0.881)	0.831 (0.747-0.896)	0.808 (0.721-0.878)	0.791 (0.705-0.858)	0.773 (0.682-0.864)