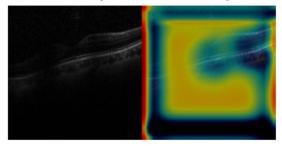
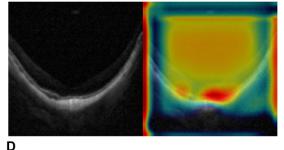
A Category A

Ground truth: 0.000 logMAR. Predicted VA: 0.315 logMAR.



С

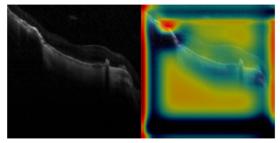
Category C case 1 Ground truth: 0.155 logMAR. Predicted VA: 0.465logMAR.



D Category D case 1 Ground truth: 0.532 logMAR. Predicted VA: 0.295 logMAR.

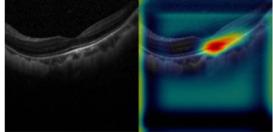


Ground truth: 0.000 logMAR. Predicted VA: 0.372 logMAR.

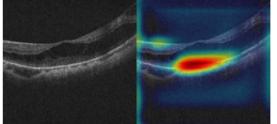


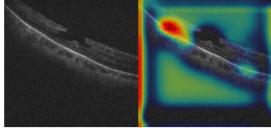
Category C case 2

Ground truth: 0.398 logMAR. Predicted VA: 0.200 logMAR.



Category D case 2 Ground truth: 0.699 logMAR. Predicted VA: 0.168 logMAR.





Supplemental Figure 1. The representative falsely-predicted cases and Grad-CAM visualizations in 4 categories. **A.** A case in Category A shows a vague OCT image induced by extraordinarily cloudy cataract. **B.** A case in Category B shows a morphological change on OCT scan but located away from the macular, which might have poor effect on VA, and was irregularly focused by the model. **C.** Two cases in Category C shows morphological changes on OCT scan but might have unclear effect on VA. Case 1 shows a rough retinal pigment epithelium layer, while case 2 shows an irregular inner segment/outer segment layer. **D.** Two Cases in Category D shows signal-deficient changes on OCT scan which might have some effect on VA, but accidentally ignored by the model. Case 1 shows a cystoid macular edema, while case 2 shows a macular hole. Red regions corresponds to highly discriminative areas of OCT scans when predicting the VA. All values were provided in logMAR units. BCVA= best corrected distance visual acuity; logMAR = logarithm of the minimum angle of resolution; Grad-CAM = Gradient-weighted Class Activation Mapping.