

Supplemental Table 1. Mixed model analysis of OCT and OCTA parameters associated with logMAR visual acuity based on glaucoma severity

Variables	Early glaucoma						Moderate-advanced glaucoma					
	Superficial VD (per 1% lower)		Deep VD (per 1% lower)		GCC thickness (per 1 um thinner)		Superficial VD (per 1% lower)		Deep VD (per 1% lower)		GCC thickness (per 1 um thinner)	
	β , 95 % CI	P value	β , 95 % CI	P value	β , 95 % CI	P value	β , 95 % CI	P value	β , 95 % CI	P value	β , 95 % CI	P value
Corrected FAZ area, per 0.1 mm ² increase	0.005 (-0.014, 0.024)	0.605					0.022 (0.001, 0.044)	0.037				
FAZ circumference, per 1mm increase	0.014 (-0.028, 0.057)	0.500					0.063 (0.005, 0.121)	0.035				
FD300	0.002 (-0.002, 0.006)	0.215					0.001 (-0.004, 0.006)	0.687				
Foveal	0.000 (-0.002, 0.003)	0.727	0.002 (-0.000, 0.004)	0.060	0.001 (-0.002, 0.003)	0.642	0.002 (-0.001, 0.005)	0.174	0.004 (-0.000, 0.007)	0.052	0.003 (0.002, 0.005)	0.001
Parafoveal	0.003 (-0.001, 0.006)	0.129	0.003 (-0.002, 0.007)	0.286	0.001 (-0.001, 0.002)	0.547	0.005 (-0.002, 0.012)	0.175	0.002 (-0.007, 0.012)	0.599	0.003 (0.001, 0.004)	<0.001
Superior hemifield	0.003 (-0.001, 0.007)	0.116	0.004 (-0.002, 0.010)	0.202	0.001 (-0.001, 0.003)	0.347	0.007 (-0.000, 0.014)	0.063	0.003 (-0.007, 0.013)	0.499	0.003 (0.002, 0.005)	<0.001
Inferior hemifield	0.001 (-0.001, 0.004)	0.272	0.003 (-0.004, 0.004)	0.882	0.000 (-0.001, 0.002)	0.812	0.002 (-0.005, 0.008)	0.602	0.001 (-0.007, 0.008)	0.866	0.002 (0.000, 0.003)	0.013
Perifoveal	0.001 (-0.004, 0.005)	0.759	0.003 (-0.002, 0.007)	0.236	-0.001 (-0.004, 0.002)	0.448	0.006 (-0.001, 0.013)	0.095	0.006 (-0.002, 0.013)	0.117	0.003 (0.001, 0.005)	0.013
Superior hemifield	0.001 (-0.004, 0.006)	0.659	0.004 (-0.001, 0.008)	0.118	-0.001 (-0.003, 0.002)	0.591	0.007 (0.000, 0.014)	0.047	0.006 (-0.002, 0.013)	0.122	0.003 (0.001, 0.005)	0.001
Inferior hemifield	0.000 (-0.004, 0.004)	0.896	0.001 (-0.003, 0.005)	0.640	-0.001 (-0.003, 0.001)	0.389	0.003 (-0.002, 0.009)	0.239	0.004 (-0.003, 0.010)	0.253	0.001 (-0.001, 0.003)	0.297
Whole-image	0.002 (-0.004, 0.006)	0.563	0.002 (-0.003, 0.007)	0.371	-0.001 (-0.004, 0.002)	0.378	0.006 (-0.001, 0.014)	0.105	0.007 (-0.001, 0.015)	0.091	0.003 (0.001, 0.005)	0.007
Superior hemifield	0.002 (-0.004, 0.008)	0.450	0.003 (-0.002, 0.008)	0.197	-0.001 (-0.003, 0.002)	0.658	0.008 (0.000, 0.016)	0.043	0.007 (-0.002, 0.016)	0.117	0.003 (0.001, 0.005)	0.001
Inferior hemifield	0.001 (-0.003, 0.005)	0.700	0.001 (-0.003, 0.005)	0.610	-0.001 (-0.003, 0.001)	0.284	0.003 (-0.003, 0.009)	0.294	0.005 (-0.002, 0.012)	0.154	0.001 (-0.001, 0.003)	0.204

*Values are shown in β coefficient (95% CI). A positive β coefficient indicated worse logMAR VA. Statistically significant P values are shown in bold.

**All models were adjusted for age and signal strength index. The FAZ area was additionally adjusted for axial length.

Abbreviations: CI = confidence interval; FAZ = foveal avascular zone; FD300 = foveal density 300; GCC = ganglion cell complex; OCT = optical coherence tomography; OCTA = optical coherence tomography angiography; POAG = primary open angle glaucoma; VD = vessel density