

**Supplemental Table 2a: Patient Data Model Inputs**

	Diagnosis		Sex (N Male)	Eye (N OD)		Age (Years)	Years of education	logMAR VA
	AD	Control						
<b>Test Set</b>								
<b>N*</b>	22	46	20	34	<b>Mean</b>	67.56	16.71	0.13
<b>%</b>	32.3%	68.7%	29.4%	50.0%	<b>SD</b>	7.95	2.18	0.11
<b>Validation Set</b>								
<b>N*</b>	6	24	8	15	<b>Mean</b>	68.88	17.00	0.12
<b>%</b>	20.0%	80.0%	26.7%	50.0%	<b>SD</b>	8.01	2.39	0.10
<b>Training Set</b>								
<b>N*</b>	34	152	49	97	<b>Mean</b>	69.46	16.96	0.12
<b>%</b>	18.3%	81.7%	26.3%	52.2%	<b>SD</b>	7.85	2.41	0.11

\*Number of eyes included in the training, validation, and test sets. There was no overlap.

AD, Alzheimer's disease; logMAR, logarithm of the minimum angle of resolution; SD, standard deviation; VA, visual acuity

**Supplemental Table 2b: Optical Coherence Tomography Quantitative Data Model Inputs**

	Mean GC-IPL thickness ( $\mu\text{m}$ )	Mean RNFL thickness ( $\mu\text{m}$ )	Subfoveal choroidal thickness ( $\mu\text{m}$ )	Central subfield thickness* ( $\mu\text{m}$ )
<b>Test Set</b>				
<b>Mean</b>	77.47	90.29	271.55	273.28
<b>SD</b>	7.49	11.65	90.36	23.95
<b>Validation Set</b>				
<b>Mean</b>	75.82	88.69	256.23	262.41
<b>SD</b>	7.69	9.79	91.66	24.58
<b>Training Set</b>				
<b>Mean</b>	76.26	88.91	264.01	264.26
<b>SD</b>	7.57	9.56	96.48	23.19

\*Central 1mm at the fovea on optical coherence tomography.

GC-IPL, ganglion cell-inner plexiform layer; RNFL, retinal nerve fiber layer; SD, standard deviation

**Supplemental Table 2c: Optical Coherence Tomography Angiography Quantitative Data Model Inputs**

	FAZ area (mm <sup>2</sup> )	FAZ circ	PD 3mm circle	PD 3mm ring	VD 3mm circle (mm/mm <sup>2</sup> )	VD 3mm ring (mm/mm <sup>2</sup> )	PD 6mm circle	PD 6mm inner ring	PD 6mm outer ring	VD 6mm circle (mm/mm <sup>2</sup> )	VD 6mm inner ring (mm/mm <sup>2</sup> )	VD 6mm outer ring (mm/mm <sup>2</sup> )
<b>Test Set</b>												
<b>Mean</b>	0.22	0.65	0.37	0.39	20.28	21.29	0.44	0.43	0.45	17.76	17.77	18.04
<b>SD</b>	0.09	0.08	0.03	0.03	1.60	1.57	0.03	0.04	0.03	1.13	1.51	1.07
<b>Validation Set</b>												
<b>Mean</b>	0.26	0.66	0.36	0.38	20.01	21.14	0.44	0.43	0.45	17.92	17.99	18.21
<b>SD</b>	0.10	0.08	0.03	0.03	1.60	1.54	0.03	0.03	0.03	1.11	1.39	1.08
<b>Training Set</b>												
<b>Mean</b>	0.25	0.66	0.36	0.38	20.00	21.09	0.44	0.43	0.45	17.87	17.86	18.20
<b>SD</b>	0.13	0.08	0.03	0.03	1.62	1.60	0.03	0.04	0.03	1.05	1.46	1.01

Circ, circularity; FAZ, foveal avascular zone; PD, perfusion density; SD, standard deviation; VD, vessel density