

**Supplemental Table 1a: Patient Data**

	<b>Total eyes included</b>	<b>Sex (male)</b>	<b>Eye (OD)</b>		<b>Age (years)</b>	<b>Years of education</b>	<b>logMAR VA</b>
<b>Alzheimer's Disease (N=62)</b>							
<b>N</b>	62	16	32	<b>Mean</b>	71.08	15.82	0.20
<b>%</b>	21.8%	25.8%	51.6%	<b>SD</b>	8.83	2.63	0.10
<b>Cognitively Healthy Controls (N=222)</b>							
<b>N</b>	222	61	114	<b>Mean</b>	68.35	17.21	0.10
<b>%</b>	78.2%	27.5%	51.4%	<b>SD</b>	7.56	2.18	0.10
<b>p*</b>		0.79	0.97		<b>0.015</b>	<b>0.0041</b>	<b>&lt;0.0001</b>

\* P-value for chi square testing for categorical variables and Wilcoxon rank sum testing for continuous variables.

logMAR, logarithm of the minimum angle of resolution; SD, standard deviation; VA, visual acuity; OD, right eye.

**Supplemental Table 1b: Quantitative Optical Coherence Tomography Summary Data**

	<b>Mean GC-IPL thickness (μm)</b>	<b>Mean RNFL thickness (μm)</b>	<b>Subfoveal choroidal thickness (μm)</b>	<b>Central subfield thickness* (μm)</b>
<b>Alzheimer's Disease (N=62)</b>				
<b>Mean</b>	73.20	86.10	228.77	263.32
<b>SD</b>	7.57	9.41	86.82	19.05
<b>Cognitively Healthy Controls (N=222)</b>				
<b>Mean</b>	77.44	90.08	275.13	267.03
<b>SD</b>	7.33	10.18	94.39	24.98
<b>p**</b>	<b>0.0004</b>	0.45	<b>0.0011</b>	0.79

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

\*\*P value for Wilcoxon rank sum testing.

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

**Supplemental Table 1c: Quantitative Optical Coherence Tomography Angiography Data**

	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>Alzheimer's Disease (N=62)</b>												
<b>Mean</b>	0.23	0.66	0.35	0.37	19.53	20.52	0.43	0.43	0.44	17.60	17.66	17.83
<b>SD</b>	0.09	0.08	0.03	0.03	2.01	1.93	0.03	0.05	0.03	1.29	1.77	1.21
<b>Cognitively Healthy Controls (N=222)</b>												
<b>Mean</b>	0.25	0.66	0.37	0.39	20.22	21.32	0.44	0.43	0.45	17.92	17.90	18.25
<b>SD</b>	0.12	0.08	0.02	0.02	1.47	1.44	0.03	0.04	0.02	1.00	1.36	0.95
<b>p*</b>	0.20	0.88	0.082	<b>0.013</b>	<b>0.045</b>	<b>0.0043</b>	0.12	0.30	<b>0.049</b>	0.11	0.27	0.063

\* P value for Wilcoxon rank sum testing.

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