

Supplemental Table 1. Comparisons of capillary density in the whole retina between highly myopic eyes and normal controls

Variables	Regions	Normal controls	HM with an AL <28 mm	HM with an AL >28 mm	P*	Bonferroni multiple comparisons (P values)		
						P ¹	P ²	P ³
CD in the whole retina	ETDRS 1–3 mm average	59.3±11.2	59.5±10.9	50.7±19.3	<0.001	0.90	<0.001	<0.001
	ETDRS 1–3 mm S	61.3±10.5	61.8±10.5	52.8±20.2	<0.001	0.73	<0.001	<0.001
	ETDRS 1–3 mm T	56.7±11.2	57.4±11.6	47.2±20.5	<0.001	0.70	<0.001	<0.001
	ETDRS 1–3 mm I	58.8±10.6	59.3±12.8	52.0±19.9	<0.001	0.75	<0.001	<0.001
	ETDRS 1–3 mm N	58.3±10.0	58.0±12.1	51.1±20.1	<0.001	0.87	<0.001	<0.001
	ETDRS 3–6 mm average	62.5±6.6	61.9±8.1	53.5±15.3	<0.001	0.58	<0.001	<0.001
	ETDRS 3–6 mm S	63.9±7.0	63.7±6.6	55.6±15.9	<0.001	0.84	<0.001	<0.001
	ETDRS 3–6 mm T	60.5±8.0	59.7±9.3	49.8±16.6	<0.001	0.54	<0.001	<0.001
	ETDRS 3–6 mm I	63.3±7.9	62.0±10.2	55.2±16.6	<0.001	0.32	<0.001	<0.001
	ETDRS 3–6 mm N	68.9±5.6	68.3±9.2	63.8±14.5	<0.001	0.60	<0.001	<0.001
	ETDRS 6–9 mm average	57.4±5.7	56.2±6.4	49.0±11.7	<0.001	0.54	<0.001	<0.001
	ETDRS 6–9 mm S	60.0±6.4	59.6±6.0	53.2±12.6	0.003	0.21	0.03	<0.001
	ETDRS 6–9 mm T	53.6±8.0	52.0±9.1	43.3±14.8	<0.001	0.85	0.002	<0.001
	ETDRS 6–9 mm I	58.5±7.1	56.9±8.6	55.9±13.9	0.05	0.79	0.07	0.22
	ETDRS 9–12 mm average	49.5±5.0	46.7±5.9	42.5±8.2	<0.001	0.02	<0.001	0.003
	ETDRS 9–12 mm S	53.6±6.5	51.9±6.5	46.6±10.3	0.01	0.93	0.01	0.01
	ETDRS 9–12 mm T	44.9±9.2	40.3±10.2	35.1±13.5	<0.001	0.002	<0.001	<0.001
	ETDRS 9–12 mm I	50.1±7.5	48.9±9.1	43.9±11.7	<0.001	0.20	<0.001	<0.001

Boldface values indicate statistical significance.

*One-way analysis of variance followed by post-hoc Bonferroni correction. P¹, comparison between normal controls and HM eyes with an AL <28 mm; P², comparison between normal controls and HM eyes with an AL >28 mm; P³, comparison between HM eyes with an AL <28 mm and an AL >28 mm.

AL, axial length; CD, capillary density; ETDRS, Early Treatment Diabetic Retinopathy Study; HM, high myopia; I, inferior; N, nasal; S, superior; T, temporal.

Supplemental Table 2. The multivariable linear regression models adjusted for age and systolic blood pressure with axial length as the independent variable

Regions	CD in the whole retina		
	$\beta^\dagger$	95%CI	P*
ETDRS 1–3 mm average	-0.154	(-0.209, -0.098)	<0.001
ETDRS 1–3 mm S	-0.250	(-0.336, -0.164)	<0.001
ETDRS 1–3 mm T	-0.260	(-0.346, -0.173)	<0.001
ETDRS 1–3 mm I	-0.142	(-0.225, -0.058)	0.001
ETDRS 1–3 mm N	-0.182	(-0.269, -0.095)	<0.001
ETDRS 3–6 mm average	-0.217	(-0.273, -0.160)	<0.001
ETDRS 3–6 mm S	-0.260	(-0.329, -0.191)	<0.001
ETDRS 3–6 mm T	-0.275	(-0.341, -0.210)	<0.001
ETDRS 3–6 mm I	-0.208	(-0.283, -0.134)	<0.001
ETDRS 3–6 mm N	-0.120	(-0.178, -0.063)	<0.001
ETDRS 6–9 mm average	-0.297	(-0.352, -0.242)	<0.001
ETDRS 6–9 mm S	-0.228	(-0.296, -0.160)	<0.001
ETDRS 6–9 mm T	-0.289	(-0.347, -0.231)	<0.001
ETDRS 6–9 mm I	-0.069	(-0.136, -0.001)	0.05
ETDRS 9–12 mm average	-0.315 [‡]	(-0.416, -0.214)	<0.001
ETDRS 9–12 mm S	-0.248	(-0.339, -0.157)	<0.001
ETDRS 9–12 mm T	-0.301	(-0.385, -0.217)	<0.001
ETDRS 9–12 mm I	-0.189	(-0.252, -0.126)	<0.001

Boldface values indicate statistical significance.

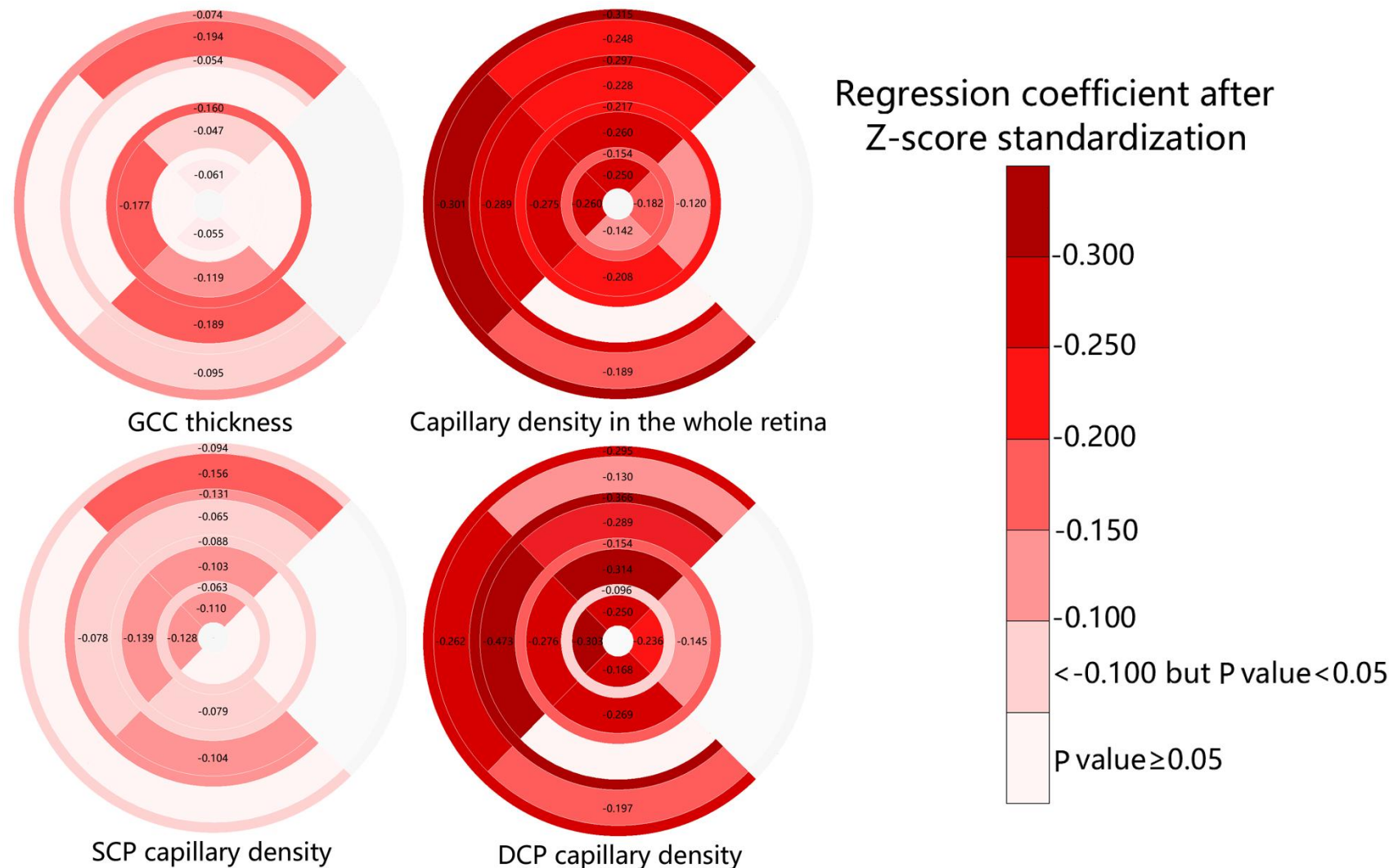
*Adjusted for age and systolic blood pressure.

[†]All β values are Z-score standardized.

[‡]The most negative β value of multivariable linear regression models of CD in the whole retina.

β , regression coefficient; CD, capillary density; CI, confidence interval; ETDRS, Early Treatment Diabetic Retinopathy Study; I, inferior; N, nasal; S, superior; T, temporal.

Supplemental Figure 1. β values for changes in ganglion cell complex thickness and capillary density in the whole retina, superficial capillary plexus and deep capillary plexus are shown in Early Treatment Diabetic Retinopathy Study grids and subfields.



Early Treatment Diabetic Retinopathy Study (ETDRS) grids include the 1–3 mm, 3–6 mm, 6–9 mm, and 9–12 mm annular regions, each annulus is divided into four quadrants: superior, inferior, nasal, and temporal. The unsegmented rings around the periphery of each ETDRS annulus show β values of the average values in the corresponding regions. DCP, deep capillary plexus; GCC, ganglion cell complex; SCP, superficial capillary density.