

***Supplementary information***

**Increased aqueous flare is associated with thickening of  
inner retinal layers in eyes with retinitis pigmentosa**

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**Supplementary Table S1:** Thickness of each retinal layer of RP eyes without CME group and control group ( $\mu\text{m}$ )

	NFL	GCL	IPL	INL	Outer layers	Total neural retina	Foveal Thickness
<b>RP eyes without CME</b>	41.3 $\pm$ 7.1	59.3 $\pm$ 9.7	33.3 $\pm$ 4.9	50.3 $\pm$ 7.2	95.9 $\pm$ 36.5	279.9 $\pm$ 41.9	200.6 $\pm$ 62.9
<b>Controls</b>	27.6 $\pm$ 2.1	52.5 $\pm$ 2.5	33.0 $\pm$ 2.2	44.4 $\pm$ 2.3	172.9 $\pm$ 7.9	330.2 $\pm$ 11.8	227.6 $\pm$ 18.3
<b>P</b>	<0.001	0.01	0.84	0.004	<0.001	<0.001	0.12

NFL= nerve fiber layer; GCL=ganglion cell layer; IPL= inner plexiform layer; INL=inner nuclear layer; RP=retinitis

pigmentosa; CME=cystoid macular edema; Total neural retina= NFL+GCL+IPL+INL+Outer layers

**Supplementary Table S2:** Association of covariates with the thicker retinal layers in RP eyes

Dependent Variable	Covariates	$\beta$	Standard Error	95% Wald Confidence Interval	P
Nerve Fiber Layer	Aqueous flare (pc/ms)	0.75	0.27	0.22 to 1.27	0.006
	Outer layers ( $\mu\text{m}$ )	-0.042	0.022	-0.085 to -0.000	0.049
	SERE (diopters)	0.17	0.16	-0.15 to 0.49	0.29
	Age (yrs)	-0.039	0.061	-0.16 to 0.080	0.52
Ganglion Cell Layer	Aqueous flare (pc/ms)	0.76	0.32	0.14 to 1.37	0.017
	Outer layers ( $\mu\text{m}$ )	0.033	0.29	-0.023 to 0.089	0.25
	SERE (diopters)	0.23	0.39	-0.53 to 0.99	0.55
	Age (yrs)	-0.085	0.075	-0.23 to 0.063	0.26
Inner Nuclear Layer	Aqueous flare (pc/ms)	0.46	0.16	0.14 to 0.78	0.005
	Outer layers ( $\mu\text{m}$ )	-0.043	0.019	-0.080 to -0.005	0.026
	SERE (diopters)	-0.40	0.21	-0.82 to 0.014	0.058
	Age (yrs)	0.00	0.058	-0.12 to 0.11	0.99
Ganglion Cell Complex	Aqueous flare (pc/ms)	0.81	0.23	0.37 to 1.26	<0.001
	Outer layers ( $\mu\text{m}$ )	0.053	0.057	-0.058 to 0.16	0.35
	SERE (diopters)	1.23	0.69	-0.13 to 2.59	0.076
	Age (yrs)	-0.21	0.15	-0.51 to 0.094	0.18

SERE= spherical equivalent refractive error

**Supplementary Table S3:** Association of covariates with the visual acuity in RP eyes

Dependent Variable	Covariates	$\beta$	Standard Error	95% Wald Confidence Interval	P
BCVA (logMAR)	Foveal thickness ( $\mu\text{m}$ )	-0.0050	0.00060	-0.0060 to 0.0035	<0.001
	Age (yrs)	0.0030	0.0026	-0.0020 to 0.008	0.18
	Aqueous flare (pc/ms)	0.0090	0.011	-0.012 to 0.030	0.38
	SERE (diopters)	0.0080	0.011	-0.013 to 0.030	0.46

BCVA= best-corrected visual acuity; SERE= spherical equivalent refractive error

**Supplementary Table S4:** Association of covariates with the visual field in RP eyes

Dependent Variable	Covariates	$\beta$	Standard Error	95% Wald Confidence Interval	P
Visual field score	Outer layers ( $\mu\text{m}$ )	0.064	0.0075	0.049 to 0.078	<0.001
	Aqueous flare (pc/ms)	-0.14	0.070	-0.28 to -0.007	0.040
	Age (yrs)	-0.024	0.022	-0.067 to 0.019	0.28
	SERE (diopters)	0.070	0.10	-0.13 to 0.27	0.49

SERE= spherical equivalent refractive error