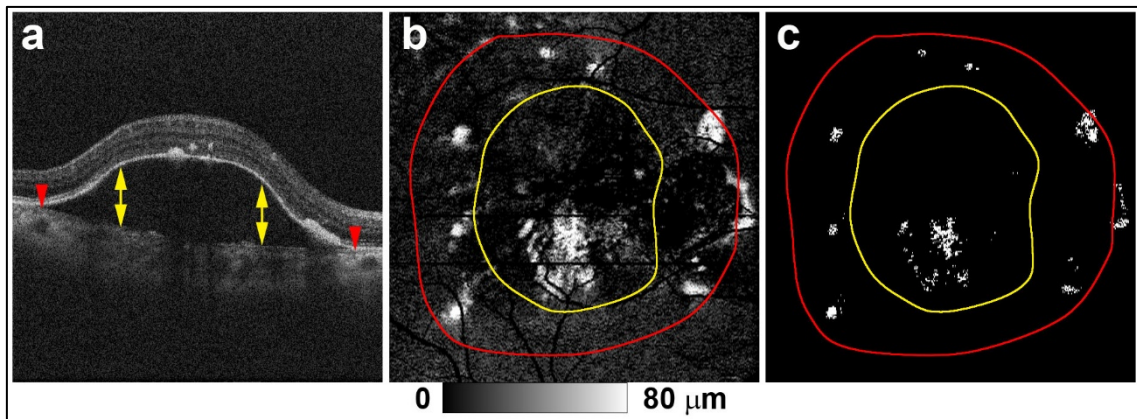


Evaluation of retinal pigment epithelium changes in serous pigment epithelial detachment in age-related macular degeneration

Masahiro Miura, Shuichi Makita, Yoshiaki Yasuno, Takuya Iwasaki, Shinnosuke Azuma, Toshihiro Mino, Tatsuo Yamaguchi

Supplementary Figure S1

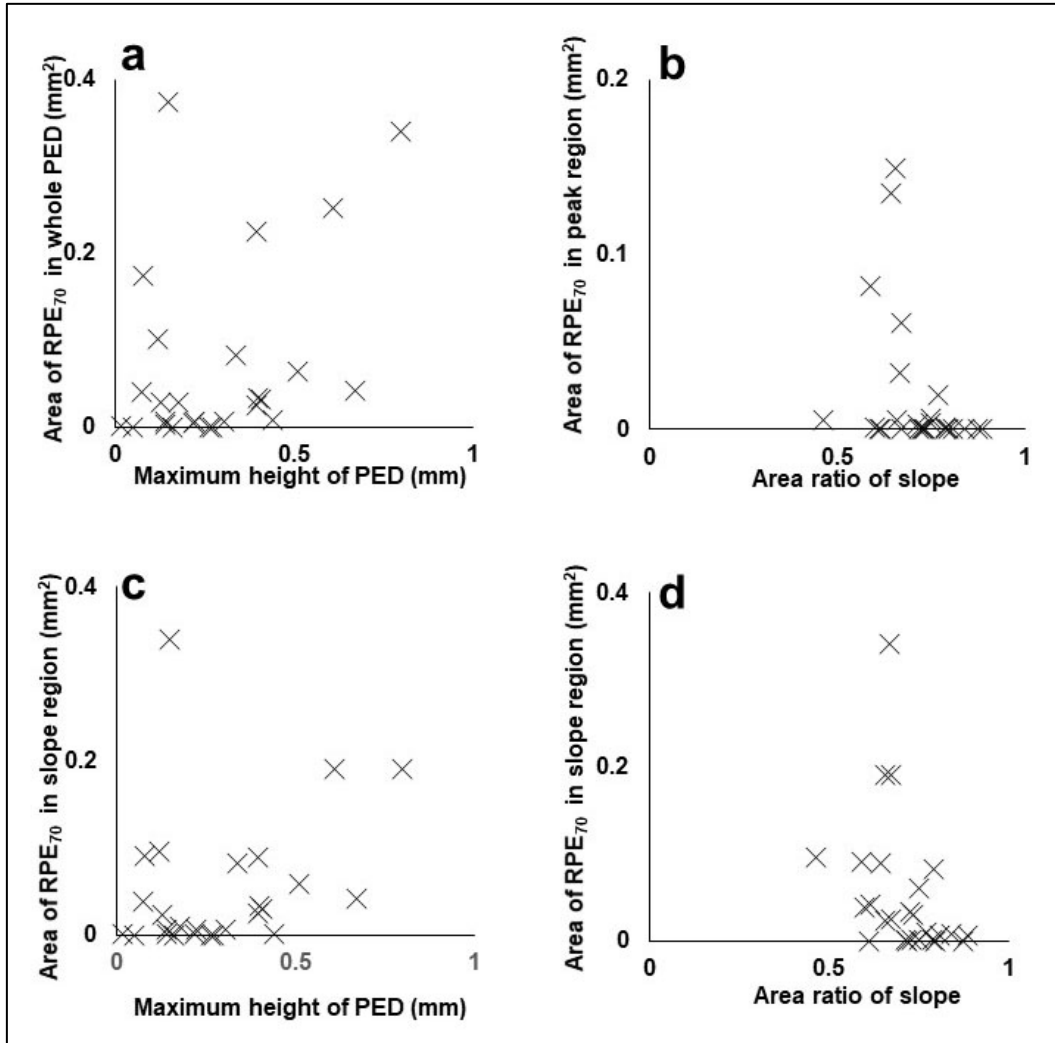
Methods for measurement of RPE₇₀ areas for the peak and slope regions.



A standard optical coherence tomography (OCT) B-scan image (a) was used to determine the margins of the PED (red arrowheads) and the axis positions for 70% of the maximum PED height (yellow arrows). RPE-melanin thickness map is shown in panel b and *en face* map of RPE₇₀ is shown in panel c. Red lines indicate the margin of the PED and yellow lines indicate the axis positions for 70% of the maximum PED height. The area within the yellow line was defined as the peak region, while the area between the red and yellow lines was defined as the slope region. The *en face* map of RPE₇₀ (c) was used to measure the RPE₇₀ area and RPE₇₀ area ratio for the whole PED, peak region, and slope region.

Supplementary Figure S2

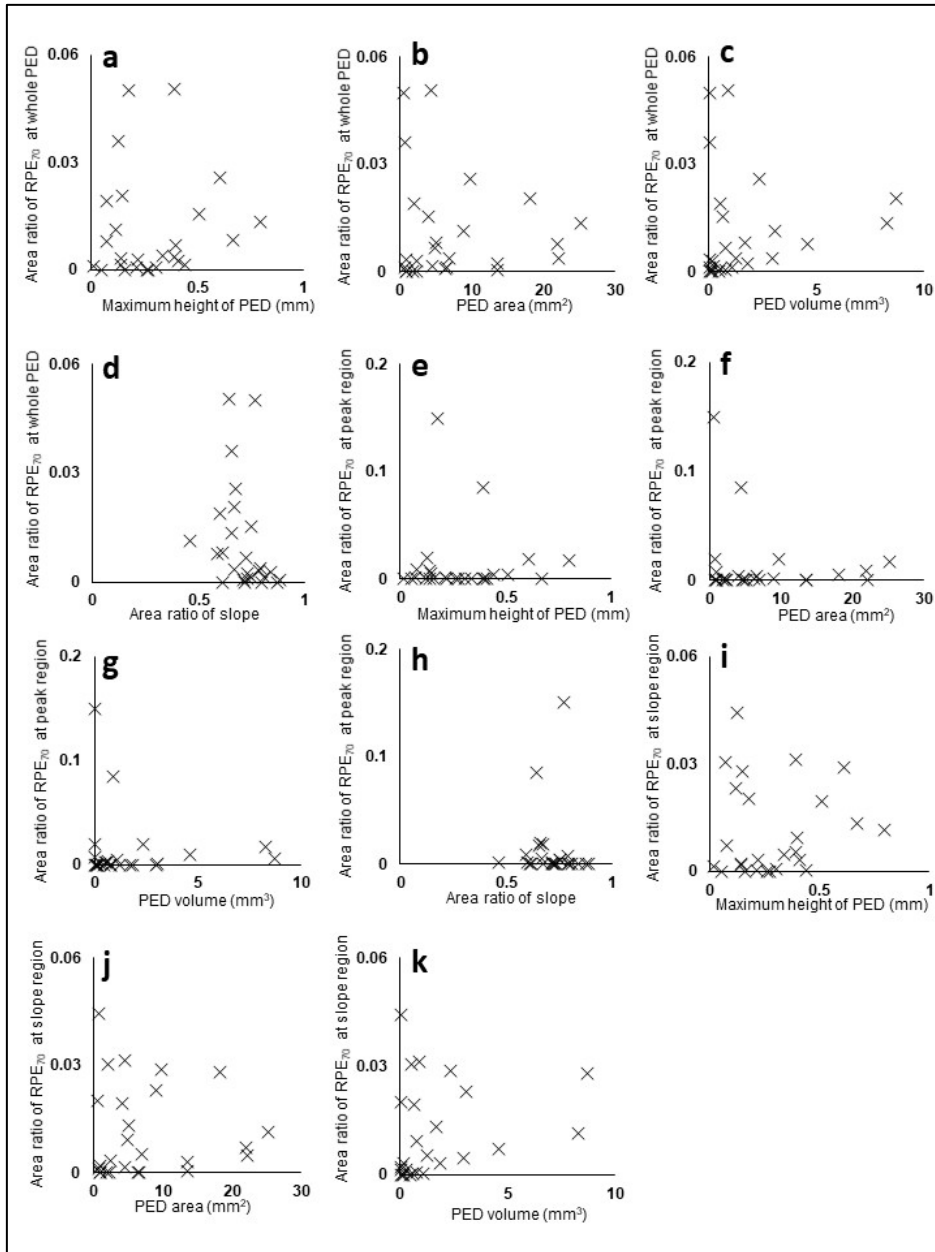
Scatterplots of RPE₇₀ areas and morphometric PED parameters without statistically significant correlations.



(a) Scatterplot of the RPE₇₀ area for the whole PED as a function of maximum PED height. (b) Scatterplot of the RPE₇₀ area for the peak region as a function of slope area ratio. Scatterplots of the RPE₇₀ area for the slope region as a function of (c) maximum PED height of PED and (d) area ratio.

Supplementary Figure S3

Scatterplots of RPE₇₀ area ratios and morphometric PED parameters without statistically significant correlations.



Scatterplots of RPE₇₀ area ratios for the whole PED as a function of (a) maximum PED height, (b) PED area, (c) PED volume, and (d) slope area ratio. Scatterplots of the area ratio of RPE₇₀ for the peak region as a function of (e) maximum PED height, (f) PED area, (g) PED volume, and (h) slope area ratio. Scatterplots of the RPE₇₀ area ratio for the slope region as a function of (i) maximum PED height, (j) PED area, and (k) PED volume.

Morphometric PED parameters, RPE₇₀ areas, and RPE₇₀ area ratios

Patient	Eye	Max height (mm)	PED area (mm ²)	PED volume (mm ³)	Slope area ratio	RPE ₇₀ area (mm ²)			RPE ₇₀ area ratio		
						Whole PED	Peak region	Slope region	Whole PED	Peak region	Slope region
1	R	0.39	4.45	0.91	0.64	0.2244	0.1346	0.0898	0.0505	0.0851	0.0313
2	R	0.31	13.62	0.77	0.89	0.0064	0.0000	0.0064	0.0005	0.0000	0.0005
2	L	0.41	13.62	1.84	0.73	0.0311	0.0008	0.0303	0.0023	0.0002	0.0030
3	R	0.12	9.00	3.06	0.46	0.1015	0.0053	0.0962	0.0113	0.0011	0.0231
4	R	0.08	22.00	4.60	0.59	0.1733	0.0818	0.0914	0.0079	0.0091	0.0070
5	R	0.02	0.75	0.03	0.73	0.0008	0.0000	0.0008	0.0010	0.0000	0.0014
5	L	0.05	0.97	0.15	0.61	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	L	0.22	6.34	0.57	0.71	0.0046	0.0032	0.0013	0.0007	0.0018	0.0003
7	R	0.15	18.17	8.72	0.67	0.3733	0.0326	0.3406	0.0205	0.0054	0.0281
8	R	0.61	9.82	2.37	0.67	0.2523	0.0613	0.1910	0.0257	0.0191	0.0289
8	L	0.14	4.62	0.27	0.81	0.0063	0.0005	0.0058	0.0014	0.0006	0.0015
9	R	0.80	25.29	8.29	0.65	0.3392	0.1491	0.1900	0.0134	0.0171	0.0115
9	L	0.34	22.22	2.98	0.79	0.0831	0.0003	0.0829	0.0037	0.0001	0.0047
10	L	0.16	1.92	0.06	0.87	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	R	0.18	0.56	0.03	0.77	0.0282	0.0194	0.0088	0.0500	0.1500	0.0202
12	R	0.13	0.78	0.05	0.66	0.0282	0.0053	0.0229	0.0360	0.0198	0.0443
12	L	0.22	2.50	0.16	0.84	0.0070	0.0000	0.0070	0.0028	0.0000	0.0033
13	L	0.26	1.05	0.11	0.72	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14	R	0.27	2.33	0.45	0.80	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
15	R	0.67	5.18	1.69	0.62	0.0424	0.0003	0.0421	0.0082	0.0001	0.0132
16	R	0.51	4.09	0.66	0.75	0.0632	0.0037	0.0595	0.0155	0.0036	0.0194
17	L	0.40	4.92	0.79	0.72	0.0332	0.0000	0.0332	0.0068	0.0000	0.0093
18	R	0.07	2.09	0.51	0.60	0.0397	0.0015	0.0382	0.0190	0.0019	0.0304
19	R	0.39	7.01	1.25	0.67	0.0255	0.0000	0.0255	0.0036	0.0000	0.0054
19	L	0.44	6.67	1.08	0.75	0.0082	0.0066	0.0016	0.0012	0.0040	0.0003
20	L	0.14	0.97	0.04	0.79	0.0031	0.0015	0.0016	0.0032	0.0073	0.0021

L: left, PED: pigment epithelial detachment, R: right, RPE: retinal pigment epithelium