

Table S1. Choroidal parameters in study patients, stratified according to the type of DME.

Characteristic	Cystoid	Diffuse	Subretinal fluid	Controls
Choroidal thickness (μm):				
outerT	239.69±48.22	257.92±47.26	257.85±33.13	297.45±68.58
innerT	251.02±51.96	266.53±47.65	267.46±31.95	304.45±70.53
central macular	254.83±54.13	265.61±43.61	269.38±39.82	303.64±72.77
innerN	248.17±60.84	257.97±49.15	258.31±48.13	295.67±75.15
outerN	220.07±63.83	237.24±55.21	235.23±59.79	268.45±80.88
outerS	256.71±54.68	273.34±41.33	275.23±41.89	315.68±67.03
innerS	259.07±52.97	270.24±40.86	278.08±30.58	309.99±70.26
innerI	251.29±55.16	265.84±49.75	262.08±41.18	299.80±74.84
outerI	241.17±58.63	250.03±49.43	268.15±62.27	289.83±77.48
SFCT	252.97±57.11	268.53±50.81	272.23±42.22	300.37±75.09
Choroidal volume (mm <sup>3</sup> ):				
outerT	1.27±0.26	1.37±0.25	1.37±0.18	1.58±0.36
innerT	0.39±0.08	0.42±0.07	0.42±0.05	0.48±0.11
central macular	0.20±0.04	0.21±0.03	0.21±0.03	0.24±0.06
innerN	0.39±0.10	0.41±0.08	0.41±0.07	0.46±0.12
outerN	1.16±0.33	1.26±0.29	1.25±0.32	1.42±0.43
outerS	1.36±0.29	1.45±0.22	1.46±0.22	1.68±0.35
innerS	0.41±0.08	0.42±0.06	0.44±0.05	0.49±0.11
innerI	0.39±0.09	0.42±0.08	0.41±0.06	0.47±0.12
outerI	1.28±0.31	1.33±0.26	1.38±0.26	1.54±0.41
total	6.84±1.45	7.29±1.21	7.34±1.07	8.34±1.97
Other choroidal parameters:				
CVI	0.59±0.06	0.58±0.05	0.60±0.04	0.63±0.05
LA (mm <sup>2</sup> )	1.30±0.37	1.42±0.34	1.50±0.34	1.53±0.40
SA (mm <sup>2</sup> )	0.90±0.21	1.03±0.22	1.01±0.22	0.87±0.19
TCA (mm <sup>2</sup> )	2.19±0.51	2.45±0.50	2.51±0.51	2.40±0.53

Data presented as means ± SD

n = 216 eyes (76 eyes in the control group, 13 eyes with subretinal fluid, 89 eyes with cystoid macular oedema, and 38 eyes with diffuse macular oedema)

T = temporal; I = inferior; N = nasal; S = superior; SFCT = subfoveal choroidal thickness; CVI = choroidal vascular index; LA = luminal area; SA = stromal area; TCA = total choroidal area; conventional ETDRS grid with nine subfields: central macular subfield (central field within a 500 μm radius), four inner subfields (within a 500–1500 μm radius), and four outer subfields (within a 1500–3000 μm radius)

Table S2. Univariate mixed-effect models (without covariates) comparing the study groups identified based on the presence of DME and type thereof (cystoid/diffuse/subretinal fluid vs. controls).

Characteristic	Cystoid vs. controls (baseline)			Diffuse vs. controls (baseline)			Subretinal fluid vs. controls (baseline)		
	$\beta$	SE	p	$\beta$	SE	p	$\beta$	SE	p
<b>Choroidal thickness (<math>\mu\text{m}</math>):</b>									
outerT	<b>-56.93</b>	<b>9.68</b>	<b>&lt;.001</b>	<b>-41.87</b>	<b>11.27</b>	<b>&lt;.001</b>	<b>-35.10</b>	<b>16.09</b>	<b>.030</b>
innerT	<b>-50.85</b>	<b>10.25</b>	<b>&lt;.001</b>	<b>-42.29</b>	<b>12.13</b>	<b>.001</b>	<b>-36.15</b>	<b>17.52</b>	<b>.040</b>
central macular	<b>-46.08</b>	<b>10.63</b>	<b>&lt;.001</b>	<b>-40.27</b>	<b>12.44</b>	<b>.001</b>	<b>-39.06</b>	<b>17.84</b>	<b>.030</b>
innerN	<b>-45.68</b>	<b>11.46</b>	<b>&lt;.001</b>	<b>-42.26</b>	<b>13.41</b>	<b>.002</b>	<b>-39.75</b>	<b>19.23</b>	<b>.040</b>
outerN	<b>-46.80</b>	<b>12.39</b>	<b>&lt;.001</b>	<b>-37.78</b>	<b>14.28</b>	<b>.009</b>	-23.46	20.19	.246
outerS	<b>-57.49</b>	<b>10.17</b>	<b>&lt;.001</b>	<b>-46.62</b>	<b>11.78</b>	<b>&lt;.001</b>	<b>-36.86</b>	<b>16.83</b>	<b>.029</b>
innerS	<b>-49.60</b>	<b>11.12</b>	<b>&lt;.001</b>	<b>-41.89</b>	<b>11.88</b>	<b>.001</b>	-27.86	17.07	.104
innerI	<b>-46.89</b>	<b>11.09</b>	<b>&lt;.001</b>	<b>-34.41</b>	<b>12.83</b>	<b>.008</b>	<b>-41.83</b>	<b>18.21</b>	<b>.023</b>
outerI	<b>-47.85</b>	<b>11.65</b>	<b>&lt;.001</b>	<b>-36.59</b>	<b>13.31</b>	<b>.007</b>	-27.17	18.73	.148
SFCT	<b>-44.21</b>	<b>11.17</b>	<b>&lt;.001</b>	<b>-34.88</b>	<b>13.31</b>	<b>.009</b>	-33.85	19.33	.081
<b>Choroidal volume (<math>\text{mm}^3</math>):</b>									
outerT	<b>-0.30</b>	<b>0.05</b>	<b>&lt;.001</b>	<b>-0.22</b>	<b>0.06</b>	<b>&lt;.001</b>	<b>-0.18</b>	<b>0.09</b>	<b>.032</b>
innerT	<b>-0.08</b>	<b>0.02</b>	<b>&lt;.001</b>	<b>-0.06</b>	<b>0.02</b>	<b>.002</b>	-0.05	0.03	.052
central macular	<b>-0.04</b>	<b>0.01</b>	<b>&lt;.001</b>	<b>-0.03</b>	<b>0.01</b>	<b>.001</b>	<b>-0.03</b>	<b>0.01</b>	<b>.032</b>
innerN	<b>-0.07</b>	<b>0.02</b>	<b>&lt;.001</b>	<b>-0.08</b>	<b>0.02</b>	<b>&lt;.001</b>	<b>-0.06</b>	<b>0.03</b>	<b>.042</b>
outerN	<b>-0.26</b>	<b>0.06</b>	<b>&lt;.001</b>	<b>-0.21</b>	<b>0.07</b>	<b>.006</b>	-0.12	0.10	.256
outerS	<b>-0.31</b>	<b>0.05</b>	<b>&lt;.001</b>	<b>-0.26</b>	<b>0.06</b>	<b>&lt;.001</b>	<b>-0.20</b>	<b>0.09</b>	<b>.021</b>
innerS	<b>-0.08</b>	<b>0.02</b>	<b>&lt;.001</b>	<b>-0.07</b>	<b>0.02</b>	<b>.001</b>	-0.04	0.03	.110
innerI	<b>-0.07</b>	<b>0.02</b>	<b>&lt;.001</b>	<b>-0.05</b>	<b>0.02</b>	<b>.010</b>	<b>-0.07</b>	<b>0.03</b>	<b>.023</b>
outerI	<b>-0.25</b>	<b>0.06</b>	<b>&lt;.001</b>	<b>-0.20</b>	<b>0.07</b>	<b>.005</b>	-0.17	0.09	.087
total	<b>-1.45</b>	<b>0.29</b>	<b>&lt;.001</b>	<b>-1.15</b>	<b>0.32</b>	<b>&lt;.001</b>	<b>-0.93</b>	<b>0.45</b>	<b>.039</b>
<b>Other choroidal parameters:</b>									
CVI	<b>-0.04</b>	<b>0.01</b>	<b>&lt;.001</b>	<b>-0.05</b>	<b>0.01</b>	<b>&lt;.001</b>	<b>-0.04</b>	<b>0.02</b>	<b>.015</b>
LA ( $\text{mm}^2$ )	<b>-0.20</b>	<b>0.07</b>	<b>.004</b>	-0.11	0.08	.144	0.05	0.11	.679
SA ( $\text{mm}^2$ )	0.03	0.04	.455	<b>0.14</b>	<b>0.04</b>	<b>.002</b>	<b>0.19</b>	<b>0.07</b>	<b>.004</b>
TCA ( $\text{mm}^2$ )	-0.17	0.09	.070	0.03	0.11	.815	0.24	0.16	.135

$\beta$  – coefficient from the regression model, SE – standard error, p<0.05 highlighted with bold

n = 216 eyes (76 eyes in the control group, 13 eyes with subretinal fluid, 89 eyes with cystoid macular oedema, and 38 eyes with diffuse macular oedema)

Each row represents one model with a factorial response variable (diffuse, cystoid, subretinal fluid), with the control group as a baseline

T = temporal; I = inferior; N = nasal; S = superior; SFCT = subfoveal choroidal thickness; CVI = choroidal vascular index; LA = luminal area; SA = stromal area; TCA = total choroidal area; conventional ETDRS grid with nine subfields: central macular subfield (central field within a 500  $\mu\text{m}$  radius), four inner subfields (within a 500-1500  $\mu\text{m}$  radius), and four outer subfields (within a 1500-3000  $\mu\text{m}$  radius)

Table S3. Univariate mixed-effect models (without covariates) comparing the study groups identified based on the type of DME (cystoid vs. subretinal fluid, diffuse vs. subretinal fluid).

Characteristic	Cystoid vs. subretinal fluid (baseline)			Diffuse vs. subretinal fluid (baseline)		
	$\beta$	SE	p	$\beta$	SE	p
Choroidal thickness ( $\mu\text{m}$ ):						
outerT	-21.76	12.49	.084	-6.63	12.75	.604
innerT	-14.77	14.52	.311	-5.32	15.11	.725
central macular	-7.89	14.80	.595	-1.15	15.35	.940
innerN	-5.50	16.51	.740	-0.75	17.06	.965
outerN	-21.35	17.06	.213	-10.74	17.45	.539
outerS	-20.18	14.08	.154	-8.75	14.39	.545
innerS	-20.71	13.99	.141	-12.16	14.45	.402
innerI	-6.06	15.14	.690	7.04	15.62	.653
outerI	-21.16	15.66	.179	-9.96	16.02	.536
SFCT	-12.77	16.49	.440	-2.09	17.32	.904
Choroidal volume ( $\text{mm}^3$ ):						
outerT	-0.12	0.07	.078	-0.04	0.07	.583
innerT	-0.03	0.02	.234	-0.01	0.02	.788
central macular	-0.01	0.01	.583	-0.002	0.01	.850
innerN	-0.008	0.03	.777	-0.01	0.03	.615
outerN	-0.13	0.09	.127	-0.08	0.09	.388
outerS	-0.11	0.07	.144	-0.05	0.08	.526
innerS	-0.04	0.02	.111	-0.02	0.02	.380
innerI	-0.01	0.02	.668	0.01	0.02	.639
outerI	-0.09	0.08	.261	-0.03	0.08	.702
total	-0.51	0.35	.153	-0.19	0.35	.594
Other choroidal parameters:						
CVI	0.003	0.02	.863	-0.005	0.02	.787
LA ( $\text{mm}^2$ )	<b>-0.24</b>	<b>0.10</b>	<b>.020</b>	-0.15	0.10	.148
SA ( $\text{mm}^2$ )	<b>-0.16</b>	<b>0.07</b>	<b>.014</b>	-0.05	0.07	.465
TCA ( $\text{mm}^2$ )	<b>-0.41</b>	<b>0.18</b>	<b>.007</b>	-0.21	0.15	.172

$\beta$  – coefficient from the regression model, SE – standard error, p<0.05 highlighted with bold

n = 140 eyes (13 eyes with subretinal fluid, 89 eyes with cystoid macular oedema, and 38 eyes with diffuse macular oedema)

Each row represents one model with a factorial response variable (diffuse, cystoid, subretinal fluid), with subretinal fluid as a baseline

T = temporal; I = inferior; N = nasal; S = superior; SFCT = subfoveal choroidal thickness; CVI = choroidal vascularity index; LA = luminal area; SA = stromal area; TCA = total choroidal area; conventional ETDRS grid with nine subfields: central macular subfield (central field within a 500  $\mu\text{m}$  radius), four inner subfields (within a 500-1500  $\mu\text{m}$  radius), and four outer subfields (within a 1500-3000  $\mu\text{m}$  radius)

Table S4. Univariate mixed-effect models (with covariates) comparing the study groups identified based on the type of DME (cystoid vs. subretinal fluid, diffuse vs. subretinal fluid).

Characteristic	Cystoid vs. subretinal fluid (baseline)			Diffuse vs. subretinal fluid (baseline)		
	$\beta$	SE	p	$\beta$	SE	p
Choroidal thickness ( $\mu\text{m}$ ):						
outerT	-15.46	11.87	.195	-3.11	12.28	.801
innerT	-8.11	14.02	.564	0.07	14.71	.996
central macular	-1.39	14.38	.923	3.90	15.05	.795
innerN	0.42	15.99	.979	3.35	16.66	.841
outerN	-14.22	16.65	.394	-5.08	17.15	.767
outerS	-12.60	13.58	.355	-2.73	14.01	.846
innerS	-13.44	13.52	.322	-6.68	14.09	.636
innerI	1.15	14.60	.937	12.79	15.23	.403
outerI	-12.71	14.78	.391	-2.65	15.34	.863
SFCT	-5.88	15.91	.712	3.49	16.85	.836
Choroidal volume ( $\text{mm}^3$ ):						
outerT	-0.08	0.06	.184	-0.02	0.07	.778
innerT	-0.02	0.02	.462	0.001	0.02	.959
central macular	-0.001	0.01	.944	0.002	0.01	.851
innerN	0.004	0.02	.877	-0.003	0.03	.915
outerN	-0.09	0.08	.248	-0.05	0.09	.579
outerS	-0.07	0.07	.334	-0.02	0.07	.822
innerS	-0.02	0.02	.284	-0.01	0.02	.653
innerI	0.001	0.02	.985	0.02	0.02	.414
outerI	-0.05	0.08	.499	0.002	0.08	.983
total	-0.34	0.34	.322	-0.06	0.35	.859
Other choroidal parameters:						
CVI	0.01	0.02	.502	0.002	0.02	.920
LA ( $\text{mm}^2$ )	<b>-0.20</b>	<b>0.01</b>	<b>.047</b>	-0.12	0.10	.228
SA ( $\text{mm}^2$ )	<b>-0.17</b>	<b>0.07</b>	<b>.011</b>	-0.07	0.07	.352
TCA ( $\text{mm}^2$ )	<b>-0.37</b>	<b>0.15</b>	<b>.011</b>	-0.20	0.15	.192

$\beta$  – coefficient from regression model, SE – standard error, p<0.05 highlighted with bold

n = 140 eyes (13 eyes with subretinal fluid, 89 eyes with cystoid macular oedema, and 38 eyes with diffuse macular oedema)

Each row represents one model with factorial response variable (diffuse, cystoid, subretinal fluid), with subretinal fluid as a baseline

Covariates included in each model: age in years, sex (male/female), DR (NPDR/PDR), PRP (no/yes)

T = temporal; I = inferior; N = nasal; S = superior; SFCT = subfoveal choroidal thickness; CVI = choroidal vascularity index; LA = luminal area; SA = stromal area; TCA = total choroidal area; conventional ETDRS grid with nine subfields: central macular subfield (central field within a 500  $\mu\text{m}$  radius), four inner subfields (within a 500-1500  $\mu\text{m}$  radius), and four outer subfields (within a 1500-3000  $\mu\text{m}$  radius)

Table S5. Univariate mixed-effect models (with covariates and without) comparing the study groups identified based on the type of DME (cystoid vs. diffuse).

Characteristic	Univariate models			Univariate models (sex, age, DR severity, PRP as covariates)		
	<b>β</b>	SE	p	<b>β</b>	SE	p
Choroidal thickness (μm):						
outerT	<b>16.46</b>	<b>8.04</b>	<b>.043</b>	13.52	7.62	.079
innerT	10.25	9.64	.290	9.09	9.14	.322
central macular	7.07	9.70	.468	5.75	9.23	.534
innerN	5.95	10.82	.584	4.43	10.33	.669
outerN	11.44	10.71	.288	10.67	10.39	.306
outerS	10.70	9.04	.239	9.41	8.68	.281
innerS	8.34	9.10	.361	6.73	8.64	.437
innerI	13.83	9.89	.165	12.46	9.49	.191
outerI	11.08	9.51	.246	10.92	9.11	.233
SFCT	10.92	10.86	.317	9.77	10.26	.343
Choroidal volume (mm <sup>3</sup> ):						
outerT	<b>0.09</b>	<b>0.04</b>	<b>.042</b>	0.07	0.04	.079
innerT	0.02	0.02	.155	0.02	0.01	.209
central macular	0.004	0.008	.569	0.003	0.007	.641
innerN	-0.003	0.02	.862	-0.002	0.02	.887
outerN	0.06	0.05	.259	0.06	0.05	.269
outerS	0.06	0.05	.234	0.05	0.05	.273
innerS	0.01	0.01	.303	0.01	0.01	.343
innerI	0.02	0.02	.149	0.02	0.02	.179
outerI	0.06	0.05	.256	0.06	0.05	.239
total	0.33	0.23	.151	0.31	0.22	.176
Other choroidal parameters:						
CVI	-0.007	0.01	.560	-0.008	0.01	.456
LA (mm <sup>2</sup> )	0.11	0.06	.069	0.10	0.06	.099
SA (mm <sup>2</sup> )	<b>0.12</b>	<b>0.04</b>	<b>.005</b>	<b>0.12</b>	<b>0.04</b>	<b>.008</b>
TCA (mm <sup>2</sup> )	<b>0.23</b>	<b>0.09</b>	<b>.013</b>	<b>0.21</b>	<b>0.09</b>	<b>.021</b>

β – coefficient from the regression model, SE – standard error, p<0.05 highlighted with bold

n = 126 eyes (89 eyes with cystoid macular oedema, and 38 eyes with diffuse macular oedema)

Covariates included in each model: age in years, sex (male/female), DR (NPDR/PDR), PRP (no/yes)

T = temporal; I = inferior; N = nasal; S = superior; SFCT = subfoveal choroidal thickness; CVI = choroidal vascular index; LA = luminal area; SA = stromal area; TCA = total choroidal area; conventional ETDRS grid with nine subfields: central macular subfield (central field within a 500 μm radius), four inner subfields (within a 500-1500 μm radius), and four outer subfields (within a 1500-3000 μm radius)