

Supplementary Table S1. Choroidal volume between patients before and after the PDT and control

		normal	CSC		
		control	pretreatment	one month	three months
choroidal volume	central area	1.65 (0.63)	2.36 (0.70) $p=0.039$	1.90 (0.69) $p<0.001$	1.86 (0.66) $p<0.001$
	superior nasal area	0.92 (0.26)	1.25 (0.38) $p=0.096$	1.14 (0.35) $p=0.002$	1.13 (0.34) $p=0.002$
	superior temporal area	1.13 (0.31)	1.47 (0.41) $p=0.096$	1.28 (0.43) $p<0.001$	1.26 (0.43) $p<0.001$
	inferior nasal area	0.82 (0.26)	1.07 (0.49) $p=0.224$	0.95 (0.38) $p=0.013$	0.93 (0.35) $p=0.062$
	inferior temporal area	1.03 (0.36)	1.17 (0.38) $p=0.305$	1.04 (0.32) $p<0.001$	1.03 (0.33) $p=0.001$

Data are presented as mean (standard deviation) and round off to three decimal places.

Mann-Whitney U test for the comparison between central serous chorioretinopathy (CSC) pretreatment and normal control and Bonferroni test for the comparison between CSC pretreatment and one month, pretreatment and three months after the treatment. p values written in CSC pretreatment section were compared to values in normal control and written in CSC one month and three months section were compared to values in CSC before treatment.

Supplementary Table S2. Average choroidal thickness, maximum and minimum choroidal thickness between patients before and after the PDT and control

		normal	CSC		
		control	pretreatment	one month	Three months
Average choroidal thickness	central area	233.52 (89.53)	333.96 (98.52)	269.09 (97.40)	263.67 (92.54)
			$p=0.039$	$p<0.001$	$p<0.001$
	superior nasal area	206.97 (57.48)	281.73 (84.43)	255.71 (78.93)	253.16 (77.09)
			$p=0.096$	$p=0.002$	$p=0.002$
	superior temporal area	253.69 (69.79)	328.98 (93.14)	286.59 (96.58)	283.34 (96.05)
			$p=0.096$	$p<0.001$	$p<0.001$
	inferior nasal area	183.12 (58.83)	236.38 (105.25)	210.12 (82.87)	204.97 (72.01)
			$p=0.224$	$p=0.001$	$p=0.069$
	inferior temporal area	231.06 (80.59)	263.53 (86.23)	232.56 (71.96)	230.54 (73.37)
			$p=0.305$	$p<0.001$	$p=0.001$
maximum choroidal thickness	central area	302.39 (119.61)	407.30 (103.43)	341.62 (113.70)	316.99 (122.86)
			$p=0.072$	$p=0.003$	$p=0.005$
	superior nasal area	271.99 (77.79)	355.67 (97.32)	316.45 (100.21)	319.46 (104.79)
			$p=0.053$	$p=0.001$	$p=0.021$
	superior temporal area	298.96 (81.65)	373.92 (97.47)	328.49 (103.40)	322.43 (98.90)
			$p=0.096$	$p<0.001$	$p<0.001$
	inferior nasal area	235.72 (80.20)	296.99 (120.87)	263.05 (102.10)	252.86 (86.52)
			$p=0.201$	$p=0.001$	$p=0.024$
	inferior temporal area	286.53 (94.68)	330.95 (92.46)	289.18 (79.01)	287.37 (75.10)
			$p=0.224$	$p<0.001$	$p<0.001$
minimum choroidal thickness	central area	160.21 (51.58)	246.41 (93.40)	195.54 (87.65)	192.21 (83.83)
			$p=0.046$	$p<0.001$	$p<0.001$
	superior nasal area	154.28 (45.44)	213.44 (75.08)	200.80 (64.89)	197.53 (62.81)
			$p=0.053$	$p=0.103$	$p=0.026$
	superior temporal area	200.75 (47.71)	258.11 (97.98)	225.52 (89.64)	228.50 (89.41)
			$p=0.224$	$p=0.003$	$p=0.014$
	inferior nasal area	142.20 (42.29)	177.76 (86.36)	157.51 (55.23)	153.72 (46.14)
			$p=0.369$	$p=0.16$	$p=0.28$
	inferior temporal area	176.36 (61.69)	200.38 (72.93)	181.09 (62.20)	177.35 (62.11)
			$p=0.516$	$p=0.011$	$p=0.011$

Data are presented as mean (standard deviation) and round off to three decimal places. Mann-Whitney U test for the comparison between central serous chorioretinopathy (CSC) pretreatment and normal control and Bonferroni test for the comparison between CSC pretreatment and one month, pretreatment and three months after the

treatment. p values written in CSC pretreatment section were compared to values in normal control and written in CSC one month and three months section were compared to values in CSC before treatment.

Supplementary Tables S3

Supplementary Table S3.1: The demographics between three different treatment groups

	Reduced dose (n=5)	Reduced fluence (n=7)	Reduced time (n=2)	<i>p</i> value
Age	59.8	64.6	41.0	0.086
logMAR (pretreatment)	0.162	0.210	-0.079	0.234
logMAR (one month)	0.184	0.248	0.071	0.417
logMAR (three months)	0.152	0.237	-0.079	0.222
Mean refractive error	0.15	-0.54	0.25	0.980
spot size	4620	4529	4250	0.978

Data are presented as mean and the Kruskal-Wallis test for the comparison between three groups.

Supplementary Table S3.2: Choroidal Volume between three different treatment groups before and after the PDT

		Reduced dose	Reduced fluence	Reduced time	<i>p</i> value
Central area	pretreatment	2.229	2.188	3.305	0.188
	one month	1.771	1.694	2.969	0.128
	three months	1.842	1.596	2.855	0.153
Superior nasal area	pretreatment	1.286	1.079	1.789	0.093
	one month	1.172	0.962	1.680	0.052
	three months	1.197	0.962	1.538	0.133
Superior temporal area	pretreatment	1.556	1.199	2.193	0.032*
	one month	1.318	1.024	2.081	0.025*
	three months	1.364	0.986	1.969	0.025*
Inferior nasal area	pretreatment	1.110	1.045	1.057	0.632
	one month	0.985	0.927	0.927	0.744
	three months	1.025	0.869	0.884	0.661
Inferior temporal area	pretreatment	1.184	1.133	1.288	0.618
	one month	1.046	1.010	1.097	0.694
	three months	1.077	0.985	1.045	0.756

Data are presented as mean and round off to four decimal places. The Steel-Dwass test was used for multiple comparisons in each area between different treatment conditions. No statistically significant difference was found among superior temporal area at all time even though there were statistically significant differences in Kruskal-Wallis test.

Supplementary Table S3.3: Average choroidal thickness between three different treatment groups before and after the PDT

		Reduced dose	Reduced fluence	Reduced time	<i>p</i> value
Central area	pretreatment	315.12	309.34	467.20	0.188
	one month	250.33	239.45	419.73	0.128
	three months	260.45	225.98	403.63	0.153
Superior nasal area	pretreatment	288.84	242.33	401.85	0.093
	one month	262.71	216.00	377.21	0.052
	three months	268.24	216.04	345.36	0.106
Superior temporal area	pretreatment	349.58	267.55	492.48	0.032*
	one month	295.97	228.27	467.28	0.025*
	three months	306.44	221.44	442.26	0.025*
Inferior nasal area	pretreatment	238.19	234.78	237.45	0.632
	one month	213.48	208.26	208.25	0.744
	three months	221.32	195.11	198.58	0.744
Inferior temporal area	pretreatment	265.98	254.43	289.26	0.618
	one month	234.92	226.92	246.40	0.694
	three months	242.00	221.17	234.66	0.756

Data are presented as mean and round off to three decimal places. The Steel-Dwass test was used for multiple comparisons in each area between different treatment conditions. No statistically significant difference was found among superior temporal area at all time even though there were statistically significant differences in Kruskal-Wallis test, as well as choroidal volume.

Supplementary Table S3.4: Maximum choroidal thickness between three different treatment groups before and after the PDT

		Reduced dose	Reduced fluence	Reduced time	<i>p</i> value
Central area	pretreatment	377.18	392.49	534.46	0.072
	one month	319.23	308.96	511.91	0.049*
	three months	331.54	258.03	487.01	0.025*
Superior nasal area	pretreatment	371.59	302.99	500.24	0.025*
	one month	323.50	262.61	487.21	0.008*
	three months	331.36	275.44	443.75	0.059
Superior temporal area	pretreatment	386.43	317.31	540.78	0.012*
	one month	326.79	276.01	516.41	0.012*
	three months	338.30	265.97	480.34	0.012*
Inferior nasal area	pretreatment	297.76	292.02	312.50	0.402
	one month	261.26	260.70	275.77	0.619
	three months	273.00	235.95	261.67	0.513
Inferior temporal area	pretreatment	337.68	321.96	345.61	0.588
	one month	291.11	285.38	297.67	0.296
	three months	305.31	275.10	285.48	0.393

Data are presented as mean and rounded off to three decimal places. The Steel-Dwass test was used for multiple comparisons. In the central area, there was no statistically significant difference between the one month and three months after treatment (p value > 0.05). However, in the superior nasal area, there were statistically significant differences between the half fluence group and the half time group before and one month after treatment ($p=0.038$, respectively). There was also a statistically significant difference between the half fluence group and the half time group at all time in the superior temporal area ($p=0.038$, respectively).

Supplementary Table S3.5: Minimum choroidal thickness between three different treatment groups before and after the PDT

		Reduced dose	Reduced fluence	Reduced time	<i>p</i> value
Central area	pretreatment	238.06	215.59	375.15	0.086
	one month	187.16	161.83	334.49	0.030*
	three months	190.15	158.28	316.12	0.028*
Superior nasal area	pretreatment	228.68	183.58	279.89	0.122
	one month	213.34	174.33	262.10	0.122
	three months	217.70	171.58	237.95	0.102
Superior temporal area	pretreatment	269.38	203.08	422.53	0.015*
	one month	228.82	175.69	391.68	0.011*
	three months	236.64	180.24	377.10	0.022*
Inferior nasal area	pretreatment	167.39	186.48	173.15	0.846
	one month	159.07	157.38	154.05	0.588
	three months	160.85	150.74	146.33	0.543
Inferior temporal area	pretreatment	193.95	197.57	226.28	0.524
	one month	176.36	178.69	201.34	0.524
	three months	180.60	174.35	179.75	0.866

Data are presented as mean and rounded off to three decimal places. The Steel-Dwass test was used for multiple comparisons in each area between different treatment conditions. In the central area, there was no statistically significant difference between the one month and three months after treatment (*p* value > 0.05). However, there was a statistically significant difference between the half fluence group and the half time group at all time in the superior temporal area (*p*=0.038, respectively).