

Supplementary Materials

Chronic Glaucoma Using Biodegradable Microspheres to Induce Intraocular Pressure Elevation. Six-Month Follow-Up

Table S1. Structural analysis of neuroretina by optical coherence tomography, evaluating the left eyes of animals that had previously received the Ms20/10 model in the right eye.

OCT PARAMETERS (μm)	BASELINE Mean \pm SD	LEFT EYE, MICROSPHERE 20/10 MODEL											
		8 w			12 w			18 w			24 w		
		Mean \pm SD	%Ch	<i>p</i>	Mean \pm SD	%Ch	<i>p</i>	Mean \pm SD	%Ch	<i>p</i>	Mean \pm SD	%Ch	<i>p</i>
RETINAL THICKNESS													
CENTRAL	275.13 \pm 13.09	251.50 \pm 7.76	−8.59	0.080	267.20 \pm 16.23	−2.88	0.416	265.40 \pm 11.14	−3.54	0.039	263.00 \pm 11.33	−4.41	0.173
INNER INFERIOR	255.71 \pm 7.21	239.00 \pm 5.29	−6.53	0.012[#]	249.60 \pm 6.10	−2.39	0.042	239.80 \pm 3.70	−6.22	0.043	243.33 \pm 9.83	−4.84	0.075
OUTER INFERIOR	245.67 \pm 4.77	231.50 \pm 4.50	−5.77	0.005[#]	239.20 \pm 6.38	−2.63	0.279	228.00 \pm 3.67	−7.19	0.042	236.50 \pm 6.18	−3.73	0.028
INNER SUPERIOR	251.50 \pm 5.87	235.00 \pm 9.66	−6.56	0.040	241.60 \pm 10.33	−3.94	0.138	236.80 \pm 8.95	−5.84	0.042	247.50 \pm 9.33	−1.59	0.115
OUTER SUPERIOR	251.29 \pm 6.44	241.00 \pm 9.76	−4.09	0.058	245.00 \pm 5.14	−2.50	0.588	240.00 \pm 7.34	−4.49	0.068	253.50 \pm 7.63	0.88	0.600
INNER NASAL	254.75 \pm 8.71	244.00 \pm 10.86	−4.22	0.228	255.60 \pm 10.35	0.33	0.686	244.00 \pm 9.97	−4.22	0.043	252.33 \pm 13.56	−0.95	0.599
OUTER NASAL	246.79 \pm 5.31	241.00 \pm 13.95	−2.35	0.387	246.00 \pm 7.96	−0.32	0.786	233.80 \pm 2.86	−5.26	0.042	250.00 \pm 14.95	1.30	0.416
INNER TEMPORAL	250.25 \pm 7.57	232.75 \pm 6.99	−6.99	0.027	242.60 \pm 7.02	−3.06	0.080	236.60 \pm 5.32	−5.45	0.042	242.33 \pm 10.53	−3.16	0.104
OUTER TEMPORAL	247.88 \pm 5.61	236.50 \pm 6.40	−4.59	0.028	244.80 \pm 6.05	−1.24	0.786	236.20 \pm 3.11	−4.71	0.043	247.50 \pm 9.58	−0.15	0.686
TOTAL VOLUME	1.71 \pm 0.36	1.68 \pm 0.17	−1.75	0.134	1.75 \pm 0.41	2.34	0.042	1.69 \pm 0.14	−1.17	0.496	1.71 \pm 0.13	−0.29	0.027
RNFL THICKNESS													
GLOBAL	46.00 \pm 4.51	39.25 \pm 2.98	−14.67	0.059	45.00 \pm 4.79	−2.17	0.225	38.40 \pm 1.81	−16.52	0.043	42.50 \pm 7.47	−7.61	0.400
INFERIOR TEMPORAL	43.21 \pm 7.53	37.00 \pm 3.16	−14.37	0.022	44.40 \pm 6.10	2.75	0.686	35.00 \pm 4.30	−19.00	0.043	43.17 \pm 11.97	−0.09	0.752
INFERIOR NASAL	46.83 \pm 6.37	42.50 \pm 5.32	−9.25	0.252	49.80 \pm 11.45	6.34	0.893	38.40 \pm 5.17	−18.00	0.042	53.17 \pm 17.10	13.54	0.753
SUPERIOR TEMPORAL	50.38 \pm 8.94	37.50 \pm 7.72	−25.57	0.024	49.40 \pm 5.94	−1.95	0.144	42.40 \pm 4.98	−15.84	0.034	39.00 \pm 3.28	−22.59	0.027
SUPERIOR NASAL	41.13 \pm 7.18	34.50 \pm 10.63	−16.12	0.188	37.40 \pm 8.64	−9.07	0.345	33.40 \pm 6.42	−18.79	0.042	36.00 \pm 10.93	−12.47	0.093
NASAL	43.67 \pm 5.91	43.00 \pm 5.35	−1.53	0.287	40.60 \pm 9.31	−7.03	0.715	40.00 \pm 3.87	−8.40	0.141	43.50 \pm 17.01	−0.39	0.752

TEMPORAL GCL THICKNESS	49.54 ± 8.37	37.50 ± 4.20	−24.30	0.033	49.60 ± 9.86	0.12	0.080	40.20 ± 3.03	−18.85	0.042	41.33 ± 7.14	−16.57	0.027
CENTRAL	23.46 ± 2.04	17.75 ± 3.30	−24.34	0.058	17.40 ± 1.81	−25.83	0.043	19.60 ± 2.70	−16.45	0.042	19.00 ± 2.68	−19.01	0.042
INNER INFERIOR	27.83 ± 1.52	23.00 ± 2.70	−17.36	0.115	25.80 ± 1.48	−7.29	0.066	24.60 ± 1.34	−11.61	0.034	24.00 ± 1.67	−13.76	0.027
OUTER INFERIOR	27.00 ± 1.21	22.25 ± 3.20	−17.59	0.112	24.20 ± 2.58	−10.37	0.059	24.20 ± 0.83	−10.37	0.039	23.00 ± 2.19	−14.81	0.027
INNER SUPERIOR	27.04 ± 1.42	18.75 ± 4.78	−30.66	0.049	22.20 ± 1.92	−17.90	0.042	22.00 ± 0.70	−18.64	0.042	21.67 ± 2.16	−19.86	0.027
OUTER SUPERIOR	25.96 ± 1.70	20.25 ± 1.50	−22.00	0.028	24.00 ± 3.00	−7.55	0.336	24.40 ± 1.81	−6.01	0.078	23.33 ± 2.94	−10.13	0.078
INNER NASAL	26.54 ± 1.91	23.75 ± 0.95	−10.51	0.135	22.20 ± 2.28	−16.35	0.042	23.00 ± 1.87	−13.34	0.042	21.67 ± 1.96	−18.35	0.027
OUTER NASAL	26.79 ± 1.50	23.50 ± 2.38	−12.28	0.005[#]	23.00 ± 2.82	−14.15	0.102	24.00 ± 1.00	−10.41	0.039	21.20 ± 1.30	−20.87	0.042
INNER TEMPORAL	26.88 ± 1.65	20.50 ± 7.04	−23.71	0.239	23.20 ± 2.49	−13.66	0.043	24.20 ± 1.64	−9.94	0.041	23.33 ± 1.21	−13.17	0.024
OUTER TEMPORAL	27.38 ± 1.31	22.00 ± 6.78	−19.65	0.273	25.40 ± 1.34	−7.23	0.063	25.00 ± 0.70	−8.69	0.038	24.17 ± 0.98	−11.72	0.026
TOTAL VOLUME	23.46 ± 2.04	17.75 ± 3.30	−24.34	0.058	17.40 ± 1.81	−25.83	0.043	19.60 ± 2.70	−16.45	0.042	19.00 ± 2.68	−19.01	0.042

Abbreviations: OCT: optical coherence tomography; RNFL: retinal nerve fiber layer; GCL: ganglion cell layer; thickness in microns (μm); mean ± S D (SD: standard deviation); %Ch: percentage change in thickness loss (with respect to baseline); $p < 0.05$ statistical significance (in bold); $p < 0.02$ [#] statistical significance with Bonferroni correction for multiple comparisons