Supplementary material

Petzold et al. “Retinal asymmetry in multiple sclerosis”

Supplementary Table: Study participant characteristics for ICD-10 disease subgroups.

Study subgroup characteristics. Subjects were categorised into the main ICD-10 disease categories. Subjects were permitted to have more than one condition and therefore appear in more than one category. The mean ± SD, number (percentages) are shown.

	MS patients	Control subjects	Congenital conditions	Urogenital disease	Digestive tract	External causes	Musculo-skeletal	Skin conditions
N	147	13075	783	16339	24982	5621	17886	6409
Age (years)	55.27±7.80	51.21±5.89	56.36±8.20	57.34±7.96	58.35±7.69	57.40±8.01	58.73±7.51	57.92±7.87
Female sex	110 (74%)	6402 (49%)	446 (57%)	11124 (68%)	12903 (52%)	2683 (48%)	7817 (44%)	3327 (52%)
Ethnicity Non-Caucasian	4 (3%)	1384 (11%)	59 (8%)	1499 (9%)	1907 (8%)	320 (6%)	1317 (7%)	454 (7%)
Caucasian	141 (96%)	11618 (89%)	722 (92%)	14741 (90%)	22903 (92%)	5268 (94%)	16449 (92%)	5915 (92%)
Height (cm)	166.90±7.91	170.28±9.32	167.81±9.46	166.72±8.72	168.61±9.17	169.54±9.15	168.04±9.25	169.02±9.35
BMI	27.03±5.10	26.56±4.45	27.84±4.99	27.76±5.10	27.85±4.87	27.54±4.84	28.29±5.11	28.11±5.23
Alcohol (units)	15.12 22.89	16.78 24.84	10.60 20.01	13.04 21.21	15.16 24.07	17.84 26.47	15.16 23.73	15.07 23.60
Smoker	94 (65%)	7346 (56%)	453 (58%)	9489 (59%)	15389 (62%)	3540 (63%)	10973 (62%)	3954 (62%)
Diabetes mellitus	10 (7%)	304 (2%)	43 (6%)	1105 (7%)	1703 (7%)	338 (6%)	1293 (7%)	559 (9%)
Optic Neuritis	3 (2%)	0 (0%)	4 (0.51%)	17 (0.1%)	23 (0.09%)	7 (0.12%)	19 (0.11%)	12 (0.19%)
Other eye disease	12 (8%)	0 (0%)	48 (6%)	590 (4%)	885 (4%)	230 (4%)	740 (4%)	275 (4%)
Visual acuity (logMAR) OD	0.08±0.25	-0.01±0.20	0.05±0.22	0.03±0.21	0.03±0.21	0.03±0.21	0.03±0.21	0.03±0.20
Visual acuity (logMAR) OS	0.08±0.27	-0.00±0.23	0.06±0.26	0.04±0.24	0.04±0.24	0.04±0.24	0.04±0.24	0.04±0.24
Intraocular pressure (mmHg) OD	14.73±3.80	15.78±4.91	16.34±6.15	15.71±4.42	15.84±4.40	15.94±4.62	15.91±4.44	16.05±4.96
Intraocular pressure (mmHg) OS	15.11±3.76	15.64±4.17	15.88±4.03	15.75±4.33	15.90±4.23	15.77±4.27	15.83±4.21	15.81±4.02
Refraction (dioptres) OD	-1.16±3.09	-1.31±2.69	-0.87±2.66	-0.67±2.63	-0.58±2.58	-0.66±2.64	-0.47±2.49	-0.61±2.56
Refraction (dioptres) OS	-1.04±3.27	-1.25±2.73	-0.74±2.53	-0.61±2.63	-0.51±2.60	-0.61±2.66	-0.41±2.51	-0.54±2.56

	Infectious diseases	Pulmonary issues	Mental Health issues	Other Neurological	Cancer	Circulation	Anaemias & Blood disorders	Ear problems	NMOSD
N	4353	9459	4701	5810	6781	20341	3353	1344	59
Age (years)	58.20±7.87	58.02±7.98	56.84±8.05	57.88±7.77	60.50±6.80	59.77±7.08	57.60±8.22	58.62±7.72	53.22±8.07
Female sex	2280 (52%)	4900 (52%)	2389 (51%)	3231 (55%)	3587 (53%)	9632 (47%)	2019 (60%)	698 (52%)	33 (56%)
Ethnicity Non-Caucasian	458 (11%)	757 (8%)	348 (7%)	458 (8%)	303 (5%)	1675 (8%)	432 (13%)	97 (7%)	4 (7%)
Caucasian	3888 (89%)	8639 (91%)	4323 (92%)	5390 (91%)	6440 (95%)	18515 (91%)	2905 (87%)	1242 (92%)	54 (92%)
Height (cm)	168.22±9.25	168.44±9.31	168.60±9.05	167.90±9.37	168.77±9.19	168.98±9.29	167.22±9.00	168.18±9.30	170.28±8.05
BMI	28.10±5.19	28.32±5.22	28.44±5.57	28.94±5.65	27.36±4.72	28.65±5.11	27.97±5.21	28.06±4.91	27.52±5.11
Alcohol [units/week]	14.44 23.50	15.09 24.15	16.63 27.57	13.29 21.94	15.78 23.61	15.98 24.67	11.81 21.81	13.18 22.35	14.32 21.25
Smoker	2660 (61%)	6009 (64%)	3513 (75%)	3641 (62%)	4213 (38%)	12646 (63%)	1923 (58%)	796 (60%)	43 (73%)
Diabetes mellitus	440 (10%)	783 (8%)	428 (9%)	571 (10%)	412 (6%)	2087 (10%)	388 (12%)	118 (9%)	0 (0%)
Optic Neuritis	10 (0.23%)	10 (0.11%)	13 (0.28%)	16 (0.27%)	10 (0.15%)	23 (0.11%)	8 (0.24%)	5 (0.37%)	2 (3.4%)
Other eye disease	213 (5%)	432 (5%)	275 (6%)	370 (6%)	250 (4%)	995 (5%)	186 (6%)	89 (7%)	4 (7%)
Visual acuity (logMAR) OD	0.04±0.21	0.04±0.21	0.05±0.22	0.04±0.21	0.04±0.20	0.04±0.21	0.05±0.22	0.04±0.20	0.02±0.19
Visual acuity (logMAR) OS	0.05±0.24	0.05±0.25	0.06±0.25	0.05±0.25	0.05±0.24	0.05±0.25	0.06±0.25	0.04±0.23	0.02±0.26
Intraocular pressure (mmHg) OD	15.63±4.55	15.72±4.38	15.67±5.06	15.68±4.90	16.19±4.56	16.00±4.47	15.67±4.79	15.43±3.68	14.24±3.24
Intraocular pressure (mmHg) OS	15.68±4.05	15.80±4.04	15.53±4.04	15.68±4.42	16.12±4.50	16.01±4.25	15.65±4.14	15.59±4.00	15.36±3.70
Refraction (dioptres) OD	-0.52±2.54	-0.61±2.62	-0.59±2.56	-0.48±2.51	-0.56±2.66	-0.53±2.57	-0.63±2.55	-0.61±2.72	-0.83±2.03
Refraction (dioptres) OS	-0.48±2.54	-0.53±2.63	-0.53±2.61	-0.42±2.55	-0.50±2.67	-0.47±2.62	-0.59±2.60	-0.49±2.60	-0.73±2.11