

Supplementary etable 1: Comparison of subgroup of MOGAD adults with relapsing course.

Adulthood onset	MOGAD (N=64)	AQP4-IgG NMOSD (N=352)	Total (N=467)	p value
Sex				< 0.001¹
F	35 (54.7%)	296 (84.1%)	331 (79.6%)	
M	29 (45.3%)	56 (15.9%)	85 (20.4%)	
Age				0.023²
Median	40.0	46.0	45.5	
IQR	30.0, 51.2	35.0, 56.0	34.0, 55.2	
Any autoimmune disease*	8 (12.5%)	118 (33.5%)	126 (30.3%)	< 0.001¹
Rheumatoid arthritis	0 (0.0%)	9 (2.6%)	9 (2.2%)	0.366 ¹
SLE	0 (0.0%)	25 (7.1%)	25 (6.0%)	0.021¹
Autoimmune thyroid disease	7 (10.9%)	69 (19.6%)	76 (18.3%)	0.114 ¹
Sjogren's syndrome	1 (1.6%)	18 (5.1%)	19 (4.6%)	0.331 ¹
APS	0 (0.0%)	8 (2.3%)	8 (1.9%)	0.615 ¹
Myasthenia Gravis	0 (0.0%)	12 (3.4%)	12 (2.9%)	0.227 ¹

MCTD	0 (0.0%)	2 (0.6%)	2 (0.5%)	1.000 ¹
Polymyositis	0 (0.0%)	1 (0.3%)	1 (0.2%)	1.000 ¹
Acetylcholine Receptor Binding (muscle)				0.026¹
Negative	44 (100.0%)	128 (88.9%)	172 (91.5%)	
Positive	0 (0.0%)	16 (11.1%)	16 (8.5%)	
ANA				< 0.001¹
Negative	41 (95.3%)	89 (51.1%)	130 (59.9%)	
Positive	2 (4.7%)	85 (48.9%)	87 (40.1%)	
dsDNA				< 0.001¹
Negative	34 (100.0%)	80 (74.1%)	114 (80.3%)	
Positive	0 (0.0%)	28 (25.9%)	28 (19.7%)	
SSA				0.134 ¹
Negative	31 (96.9%)	124 (85.5%)	155 (87.6%)	
Positive	1 (3.1%)	21 (14.5%)	22 (12.4%)	
SSB				0.367 ¹
Negative	32 (100.0%)	136 (93.8%)	168 (94.9%)	
Positive	0 (0.0%)	9 (6.2%)	9 (5.1%)	
Sm				1.000 ¹

Negative	32 (100.0%)	142 (97.9%)	174 (98.3%)
Positive	0 (0.0%)	3 (2.1%)	3 (1.7%)
RNP			0.697 ¹
Negative	31 (96.9%)	134 (92.4%)	165 (93.2%)
Positive	1 (3.1%)	11 (7.6%)	12 (6.8%)

1. Fisher's Exact Test for Count Data
2. Wilcoxon rank sum test

*Patients could contribute to multiple autoimmune diseases

^One patient had discoid lupus erythematosus without a diagnosis of SLE, not included.

No patients had systemic sclerosis.

No patients were positive of scl70 or Jo1.

Supplementary etable 2: Comparison of subgroup of MOGAD adults with persistent MOG-IgG1.

Adulthood onset	MOGAD Persistent MOG- IgG1 (N=71)	AQP4-IgG NMOSD (N=352)	Total (N=416)	p value
Sex				< 0.001¹
F	40 (56.3%)	296 (84.1%)	336 (79.4%)	
M	31 (43.7%)	56 (15.9%)	87 (20.6%)	
Age				0.021²
Median	40.0	46.0	45.0	
IQR	30.0, 53.0	35.0, 56.0	34.0, 55.0	
Any autoimmune disease*	8 (11.3%)	118 (33.5%)	126 (29.8%)	< 0.001¹
Rheumatoid arthritis	1 (1.4%)	9 (2.6%)	10 (2.4%)	1.000 ¹
SLE	0 (0.0%)	25 (7.1%)	25 (5.9%)	0.012¹
Autoimmune thyroid disease	6 (8.5%)	69 (19.6%)	75 (17.7%)	0.026¹
Sjogren's syndrome	1 (1.4%)	18 (5.1%)	19 (4.5%)	0.221 ¹
APS	0 (0.0%)	8 (2.3%)	8 (1.9%)	0.362 ¹
Myasthenia Gravis	0 (0.0%)	12 (3.4%)	12 (2.8%)	0.231 ¹

MCTD	0 (0.0%)	2 (0.6%)	2 (0.5%)	1.000 ¹
Polymyositis	0 (0.0%)	1 (0.3%)	1 (0.2%)	1.000 ¹
Acetylcholine Receptor Binding (muscle)				0.025 ¹
Negative	44 (100.0%)	128 (88.9%)	172 (91.5%)	
Positive	0 (0.0%)	16 (11.1%)	16 (8.6%)	
ANA				< 0.001 ¹
Negative	48 (96.0%)	89 (51.1%)	137 (61.2%)	
Positive	2 (4.0%)	85 (48.9%)	87 (38.8%)	
dsDNA				<0.001 ¹
Negative	37 (97.4%)	48 (69.6%)	85 (79.4%)	
Positive	1 (2.6%)	21 (30.4%)	22 (20.6%)	
SSA				0.050 ¹
Negative	37 (97.4%)	124 (85.5%)	161 (88.0%)	
Positive	1 (2.6%)	21 (14.5%)	22 (12.0%)	
SSB				0.207 ¹
Negative	38 (100.0%)	136 (93.8%)	174	

			(95.1%)	
Positive	0 (0.0%)	9 (6.2%)	9 (4.9%)	
Sm				1.000 ¹
Negative	38 (100.0%)	142 (97.9%)	180 (98.4%)	
Positive	0 (0.0%)	3 (2.1%)	3 (1.6%)	
RNP				0.465 ¹
Negative	37 (97.4%)	134 (92.4%)	171 (93.4%)	
Positive	1 (2.6%)	11 (7.6%)	12 (6.6%)	

3. Fisher's Exact Test for Count Data

4. Wilcoxon rank sum test

*Patients could contribute to multiple autoimmune diseases

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No patients had systemic sclerosis.

No patients were positive of scl70 or Jo1.