

## Supplement

	HC	NMOSD-NON	NMOSD-ON	TOTAL
Berlin, Germany	27	9	4	40
Düsseldorf, Germany	16	4	2	22
Mangalore, India	9	6	3	18
Barcelona, Spain	10	2	1	13
Oxford, UK	.	7	5	12
Milan, Italy	.	7	2	9
Belo Horizonte, Brazil	.	1	6	7
Munich, Germany	.	3	1	4
Isfahan, Iran	.	2	1	3
Lyon, France	.	1	1	2
Odense, Denmark	.	1	2	3
Liverpool, UK	.	1	.	1
Michigan, US	.	1	.	1

**Supplementary table 1:** Contributing centers with number of patients per study cohort. *Abbreviation:* HC, healthy controls; MS-ON, patients with multiple sclerosis and a history of unilateral ON; N, number; NMOSD-ON, patients with aquaporin-4-antibody seropositive neuromyelitis optica spectrum disorders and a history of unilateral optic neuritis; NMOSD-NON, patients with aquaporin-4-antibody seropositive neuromyelitis optica spectrum disorders and no history of optic neuritis.