	T₂ lesions in MRI (%)		Gd⁺lesions in MRI (%)		Pathologic	Pathologic	Pathologic
					MEP	SSEP	VEP
	brain	spinal	brain	spinal			
CIS	71.4	65.0	52.4	33.3	10 of 16	10 of 18	16 of 17
(n=21)							
RR-MS	100	80.0	52.2	28.6	18 of 24	23 of 29	18 of 29
(n=46)							
SP-MS	100	100	77.8	22.2	10 of 11	9 of 9	8 of 8
(n=18)							
PP-MS	100	100	20.0	20.0	5 of 5	5 of 5	5 of 5
(n=5)							
Total	77.8	61.1	44.4	20.2	43 of 56	53 of 60	41 of 60
(n=90)							

Table A in S1 File: Diagnostic findings before the initiation of treatment

CIS = clinically isolated syndrome, Gd⁺ = gadolinium contrast medium enhancement, MEP = motor-evoked potentials, MRI = magnetic resonance imaging, MS = multiple sclerosis, PP-MS = primary progressive MS with acute worsening, RR-MS = relapsing-remitting MS, SP-MS = secondary progressive MS with superimposed relapse, SSEP = somatosensory-evoked potentials, VEP = visual-evoked potentials, $T_2 = T_2$ weighted imaging. Pathologic result of MEP/SSEP/VEP = loss of potential or prolonged latency or definite site difference Table B in S1 File: Administration of disease modifying drugs before theinitiation of therapeutic plasma exchange (n=47)

Disease modifying drug	Ν
Interferone beta 1-a	12
Interferone beta 1-b	3
Intravenous immunglobuline	3
Mitoxantrone	8
Azathioprine	2
Natalizumab	3
Intermittent GCS treatment	8
Glatirameracetate	7
Cyclophosphamide	1

GCS = Glucocorticosteroid

Table C in S1 File: Univariate statistical analysis of therapeutic plasmaexchange in clinically isolated syndrome and multiple sclerosis patients

Variable	TPE response	TPE non-response	Total	p
	(n)	(n)	(n)	
Group analysis				
CIS vs. RR-MS	17 vs. 38	4 vs. 8	21/46	1.000
CIS vs. SP-MS	17 vs.7	4 vs. 11	21/18	0.010
RR-MS vs. SP-MS	38 vs. 7	8 vs. 11	46/18	0.002
CIS/RR-MS vs.	55 vs. 10	12 vs. 13	67/23	0.001
SP-MS/PP-MS				
Gender				0.451
Male	22	6	28	
Female	43	19	62	
Age in years	35.0 (18-69)	41.0 (20-66)		0.057
(median, range)				
DMD				
Yes	28	18	46	
No	37	7	44	0.017
Disease activity				0.488
before TPE				
0 relapses	17	4	21	

1 relapse	1	1	2	
≥ 2 relapses	47	20	67	
Worsening				
during GCS				
treatment				
Yes	16	12	28	
No	49	13	62	0.043
Time to TPE				1.000
≤ 6 weeks	18	7	25	
> 6 weeks	47	18	65	
Symptom extent				0.343
before TPE				
Monosymptomatic	9	6	15	
Polysymptomatic	56	19	75	
GCS treatment				0.104
before TPE				
1g MP only	16	10	26	
1g and 2g MP	44	11	55	
MEP before TPE				0.082
Pathologic	28	15	43	
Physiologic	12	1	13	

VEP before TPE				0.346
Pathologic	29	12	41	
Physiologic	16	3	19	
SSEP before TPE				0.173
Pathologic	37	16	53	
Physiologic	7	0	7	
T ₂ lesions in MRI				1.000
Detected	57	19	76	
Not detected	1	0	1	
Gd⁺ lesions in				
MRI				
Detected	42	5	47	0.001
Not detected	16	14	30	
EDSS before TPE				
EDSS ≤ 5	46	10	56	0.014
EDSS > 5	19	15	34	

CIS = Clinically Isolated Syndrome, DMD = Disease modifying drug, EDSS = Expanded disability status scale, Gd^+ = Gadolineum contrast medium enhancement, GCS = Glucocorticosteroid, MEP = Motor-evoked potentials, Monosymptomatic = single functional system affected, MRI = Magnetic resonance imaging, MS = Multiple sclerosis, Polysymptomatic = \geq 2 functional systems affected, PP-MS = Primary progressive MS with acute worsening, RR-MS = Relapsing-remitting MS, SP-MS = Secondary progressive MS with superimposed relapse, SSEP = Somatosensoryevoked potentials, $T_2 = T_2$ weighted imaging, TPE = Therapeutic plasma exchange, VEP = Visual-evoked potentials, vs. = versus. Pathologic result of MEP/SSEP/VEP = loss of potential or prolonged latency or definite site difference.

PP-MS patients excluded due to low patient number of this group.