

## Supplementary table 1

ID	Sex	Diag.	Time since first sympt. (y)	Time since diag. (y)	Dur. OCR (y)	OCR cycl.	Previous DMTs	Last DMT	Medication	Comorbidities	EDSS BL	EDSS F/U	EDSS last inf.	EDSS p.t. start OCR	AE of OCR	Vaccination
1	m	RRMS	29	28	2.6	5	Interferon beta-1a Dimethyl fumarate	DMF	4-Aminopyridine Baclofen	No	6.5	6.5	6.5	6.5	No	BioNTech
2	f	RRMS	10	8	2.9	6	Interferon beta-1a Natalizumab	NAT	Zopiclone Vitamin D Sativex	Obesity	3.5	3.5	4.0	4.5	No	BioNTech
3	f	RRMS	2	1	0.4	2	Dimethyl fumarate	DMF	Vitamin D Contraception	No	0.0	na	0	1.0	No	BioNTech
4	m	RRMS	4	3	2.9	6	No	-	Multivitamins	No	0	0	0	0	No	BioNTech
5	f	RRMS	3	2	1.4	3	No	-	No	No	0	0	1.0	0	No	BioNTech
6	f	RRMS	2	2	2.0	4	Dimethyl fumarate	DMF	Pregabalin	Diabetes Anisometropia Amblyopia (left eye) Anemia	4.0	5.5	3.5	3.5	Fatigue	BioNTech
7	m	RRMS	20	17	3.3	7	Interferon beta-1a Natalizumab Dimethyl fumarate Daclizumab	DAC	4-Aminopyridine Vitamin D	No	2.5	1.5	2.5	2.5	Fatigue	BioNTech
8	f	RRMS	11	11	6.1	8	Interferon beta-1a Fingolimod Natalizumab Daclizumab	DAC	4-Aminopyridine Vitamin D Contraception	Migraine CTS bilaterally S/p ovarian cystectomy	3.5	3.5	4.0	na	Fatigue, myalgias	BioNTech
9	f	RRMS	14	13	2.8	6	Glatiramer acetate Natalizumab Dimethyl fumarate	DMF	Botulinum toxin Esomeprazole Sertraline Fluoxetine Vitamin D Modafinil	Narcolepsy S/p colloid cysts S/p pituitary adenoma Hip dysplasia	3.5	3.5	2.0	na	No	BioNTech
10	f	RRMS	12	11	2.2	7	Interferon beta-1b Dimethyl fumarate Fingolimod Daclizumab	DAC	Baclofen Trospium chloride Tamsulosin Fluoxetine Vitamin D	No	2.0	2.0	na	4.0	Not further specified	BioNTech
11	m	RRMS	6	5	3.1	7	Dimethyl fumarate	DMF	Venlafaxine	Depression	2.0	2.0	na	0	No	BioNTech

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12	m	RRMS	35	26	1.7	4	Teriflunomide	TERI	4-Aminopyridine Tamsulosin Bisoprolol Lisinopril Amlodipine Vitamin D	Hypertension	2.5	2.5	3.0	na	na	BioNTech
13	m	RRMS	15	14	1.8	4	Interferon beta-1a Natalizumab	NAT	Vitamin D	S/p testicular torsion S/p tonsillectomy S/p cavernoma	3.0	3.0	3.0	na	No	BioNTech
14	m	RRMS	17	13	1.8	4	Interferon beta	IFN	Aspirin Lercanidipine Candesartan Pantoprazole Rivaroxaban Sitagliptin Bisoprolol Ezetimibe Atorvastatin	Ischemic heart disease S/p myocardial infarction Hypertension Elevated level of lipoprotein(a)	na	2.0	na	na	No	BioNTech
15	f	RRMS	27	23	1.8	4	Dimethyl fumarate	DMF	Metoprolol Amlodipine L-thyroxine	Hypertension Hypothyroidism	4.5	4.5	4.5	4.0	Not further specified	BioNTech
16	m	RRMS	15	12	1.8	4	Interferon beta-1a Natalizumab	NAT	Vitamin D	Hip osteonecrosis	6.0	4.0	6.0	na	na	BioNTech
17	f	RRMS	4	3	2.0	4	Interferon beta-1b Glatiramer acetate Teriflunomide Dimethyl fumarate	DMF	Vitamin D	No	0	0	na	1.0	Fatigue	BioNTech
18	m	RRMS	16	15	2.9	6	Interferon beta-1b Natalizumab Fingolimod Natalizumab	NAT	Vitamin D	No	2.0	1.0	2.0	1.0	No	AstraZeneca/ BioNTech
19	m	RRMS	31	20	1.5	3	Interferon beta-1a Teriflunomide Dimethyl fumarate recurrent IVIG	DMF IVIG	No	No	3.5	3.5	3.5	4.0	No	BioNTech
20	f	RRMS	34	28	2.9	6	Interferon beta-1b Interferon beta-1a	IFN	4-Aminopyridine Vitamin D Tizanidine Rivaroxaban	Factor V Leiden S/p DVTs	6.0	6.0	na	6.0	No	BioNTech

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21	m	RRMS	21	19	2.8	6	Dimethyl fumarate Natalizumab Interferon beta-1b Glatiramer acetate	DMF	Baclofen Vitamin D + Calcium Modafinil	Retinal detachment	6.0	6.0	6.5	5.5	No	na
22	m	RRMS	3	2	2.5	5	No	-	Rivaroxaban Ramipril Amlodipine Pantoprazole Metoprolol	S/p jugular vein thrombosis S/p DVT and PE Hypertension	1.0	2.0	na	na	No	BioNTech
23	m	RRMS	29	24	2.6	5	Dimethyl fumarate	DMF	Pantoprazole	No	2.5	2.5	na	3.0	No	BioNTech
24	f	RRMS	13	12	3.1	6	Interferon beta-1b Dimethyl fumarate Peginterferon beta-1a Natalizumab	NAT	Iodide Vitamin D Tamsulosin, Iron	No	4.5	4.5	4.5	4.5	No	BioNTech
25	f	RRMS	9	8	3.0	6	Glatiramer acetate Fingolimod Dimethyl fumarate	DMF	Bisoprolol Amlodipine L-thyroxine Pantoprazole Pregabalin Vitamin D Salbutamol	Hypothyroidism IIH	4.5	4.5	na	2.5	No	BioNTech
26	f	RRMS	32	14	3.1	7	Natalizumab	NAT	Levetiracetam Tenofovir Baclofen Sativex	S/p hepatitis B S/p trigeminal neuralgia S/p herpes zoster S/p psychogenic pseudo-syncope Hypertension Vitamin D and B12 deficiency	6.5	6.5	na	na	Skin reaction Pruritus Pericardial effusion	BioNTech
27	m	RRMS	7	2	2.2	5	No	-	Ramipril HCT Pantoprazole Vitamin D Baclofen Tizanidine Trospium chloride	Hypertension Vitamin D and B12 deficiency	6.0	6.0	na	na	Tinnitus	BioNTech
28	f	RRMS	9	9	0.4	1	Interferon beta-1a Natalizumab	NAT	No	No	0	-	0	0	No	BioNTech

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29	m	RRMS	4	4	3.2	8	No	-	Escitalopram Promethazine Baclofen 4-Aminopyridine Vitamin D + B12	No	6.5		6.5	na	No	BioNTech
30	m	RRMS	5	4	3.2	7	No	-	Ramipril Sumatriptan	Migraine Hypertension	4.0	4.0	na	3.5	No	BioNTech
31	f	RRMS	20	20	2.3	7	Interferon beta-1a Glatiramer acetate Natalizumab Dimethyl fumarate	DMF	Formoterol/ fluticasone	Asthma Factor XII deficiency	1.5	1.5	na	2.0	na	BioNTech
32	f	RRMS	24	19	3.1	6	Interferon beta-1a Fingolimod	FNG	4-Aminopyridine Ramipril Opipramol Citalopram Iron Biotin Vitamin D Levocetirizine	Hypertension Depression S/p hysterectomy	6.5	6.5	na	5.0	No	BioNTech
33	m	RRMS	8	8	2.1	2	Dimethyl fumarate	DMF	Amitriptyline	S/p disc herniation	na	6.0	6.0	6.0	No	BioNTech
34	m	RRMS	19	14	1.9	4	Natalizumab	NAT	4-Aminopyridine Vitamin D Vitamin B12 Magnesium	No	5.5	5.5	5.5	na	No	BioNTech
35	m	RRMS	32	30	2.8	6	Glatiramer acetate Natalizumab Dimethyl fumarate	DMF	No	No	na	na	na	na	Not further specified	BioNTech
36	f	RRMS	27	25	2.4	1	Interferon beta-1a Glatiramer acetate Fingolimod	GLA	L-thyroxine Trospiumchloride	Hypothyroidism	na	8.0	na	7.5	No	BioNTech
37	m	RRMS	15	14	1.9	4	Interferon beta-1a Natalizumab	NAT	Sertraline Vitamin D	No	3.5	3.5	3.5	3.5	No	BioNTech
38	f	RRMS	9	9	8.3	15	No	-	Losartan Baclofen	Hypertension Hypercholesterolemia	na	4.0	na	na	No	BioNTech
39	m	RRMS	7	3	na	3	Interferon beta-1a	IFN	Trospium chloride Vitamin D	No	3.5	na	3.5	3.5	na	BioNTech

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40	m	PPMS	10	4	3.2	7	No	-	Valproic acid Citalopram Pregabalin Folate Vitamin D	Epilepsy	5.0	5.0	4.5	5.0	No	BioNTech
41	f	PPMS	37	18	2.8	6	Interferon beta-1a Dimethyl fumarate	DMF	Candesartan 4-Aminopyridine Tizanidine Vitamin D Magnesium Nabiximols	Hypertension	6.5	6.5	na	na	No	BioNTech
42	f	PPMS	20	15	2.1	4	No	-	4-Aminopyridine Vitamin D	No	3.5	3.5	3.0	3.0	No	AstraZeneca
43	f	PPMS	11	4	2.9	6	No	-	4-Aminopyridine Gabapentin Baclofen Escitalopram Ramipril Mirabegron	Hypertension	5.0	5.0	4.5	2.5	No	BioNTech
44	f	PPMS	6	4	3.4	7	No	-	Baclofen Vitamin D	No	6.5	6.5	6.5	6.5	No	Astra Zeneca
45	f	PPMS	20	12	2.5	6	Interferon beta-1a	IFN	Vitamin D CBD oil Magnesium	Tremor Hypothyroidism	6.5	6.5	6.5	6.5	No	BioNTech
46	m	PPMS	11	8	3.5	9	Interferon beta	IFN	4-Aminopyridine Vitamin D	No	6.0	6.5	6.0	na	No	BioNTech
47	m	PPMS	18	18	2.3	5	Fingolimod	FNG	4-Aminopyridine	No	6.0	6.0	na	na	na	BioNTech
48	m	PPMS	7	6	2.3	5	No	-	Tamsulosin Baclofen Sativex Amitriptyline Vitamin D Magnesium	S/p melanoma	7.5	7.5	7.5	6.5	No	BioNTech
49	m	PPMS	5	4	2.3	5	No	-	Ramipril	Hypertension	6.0	6.0	na	na	No	BioNTech
50	f	PPMS	10	6	1.8	4	Interferon beta-1a	IFN	Pramipexole Vitamin D L-thyroxine	RLS S/p thyroidectomy	4.5	5.5	4.5	3.5	No	BioNTech
51	m	PPMS	16	16	2.5	5	Dimethyl fumarate	DMF	4-Aminopyridine	No	6.0	6.0	na	5.5	No	
52	m	PPMS	13	5	2.8	2	No	-	No	Hypertension	4.5	4.5	na	na	No	BioNTech

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53	m	PPMS	7	4	3.6	8	No	-	4-Aminopyridine Baclofen Vitamin D	Depression	6.0	6.0	6.0	na	No	BioNTech
54	f	PPMS	9	7	2.1	4	Dimethyl fumarate	DMF	Ramipril Fluoxetine 4-Aminopyridine	Migraine Hypertension	6.5	6.5	6.5	na	Subfebrile temperatures Weight gain Fatigue	BioNTech
55	m	PPMS	3	2	2.3	5	No	-	Cetirizine Loratadine Metformin	Diabetes	6.0	6.0	na	3.5	No	BioNTech
56	m	PPMS	4	3	0.3	1	No	-	Ramipril Amlodipine	Hypertension	6.5	6.5	6.5	6.5	No	BioNTech
57	m	PPMS	5	2	1.3	3	No	-	Baclofen Candesartan Magnesium Vitamin B12 and D Trospium chloride Tamsulosin	Hypertension	7.0	7.0	na	na	No	BioNTech
58	f	PPMS	32	2	1.9	4	No	-	Indacaterol/ Glycopyrronium Vitamin D	COPD	na	4.0	1.5	1.5	No	BioNTech
59	f	PPMS	5	4	3.5	7	No	-	4-Aminopyridine Vitamin D	No	2.0	2.0	3.0	3.0	No	BioNTech