

**Supplemental material (SM)** (Since this is a very extensive supplemental material, the format and content have not been edited by JRM)

**Table SM1 – Parameters with no statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Point estimate	Lower limit range	Upper limit range	Source
<b>Anagraphics, clinical classification and employment status</b>							
1	Age	Parameters (L20)	Patient's age	66	40	79	Physiatrists' opinion
2	Pr_INHS_funded_Mobility_Aids_No_Orthesis_Leg_Foot	Parameters (L99)	Probability INHS-funded mobility aids different from leg/foot orthosis or walking cane	1.000	1.000	1.000	Physiatrists' opinion
3	Pr_OOP_funded_Cane	Parameters (L101)	Probability OOP-funded walking cane (single item)	1.000	1.000	1.000	Physiatrists' opinion
4	Pr_FU_Vis_Rehab_BoNT_A	Parameters (L105)	Probability follow-visit for patient on Rehab/aboBoNT-A	1.000	1.000	1.000	Physiatrists' opinion
5	Pr_Car_Transportation	Parameters (L137)	Probability patient transported by car	1.000	1.000	1.000	Physiatrists' opinion
<b>Healthcare resources - Volumes</b>							
6	U_adm_Mild_Rehab_BoNT_A	Parameters (L152)	Posology per administration patient with mild PSS on Rehab/aboBoNT-A	500.00	500.00	500.00	Physiatrists' opinion
7	U_adm_Moderate_Rehab_BoNT_A	Parameters (L154)	Posology per administration patient with moderate PSS on Rehab/aboBoNT-A	909.14	650	1000	Physiatrists' opinion
8	U_adm_Severe_Rehab_BoNT_A	Parameters (L156)	Posology per administration patient with severe PSS on Rehab/aboBoNT-A	1500	1500	1500	Physiatrists' opinion
9	U_adm_Very_Severe_Rehab_BoNT_A	Parameters (L158)	Posology per administration patient with very severe PSS on Rehab/aboBoNT-A	1634.41	1500	2000	Physiatrists' opinion
10	Adm_year_Mild_Rehab_BoNT_A	Parameters (L160)	Yearly volume administrations patient with mild PSS on Rehab/aboBoNT-A	2.34	2.00	3.25	Physiatrists' opinion
11	Adm_year_Moderate_Rehab_BoNT_A	Parameters (L162)	Yearly volume administrations patient with moderate PSS on Rehab/aboBoNT-A	2.34	2.00	3.25	Physiatrists' opinion
12	Adm_year_Severe_Rehab_BoNT_A	Parameters (L164)	Yearly volume administrations patient with severe PSS on Rehab/aboBoNT-A	2.96	2.50	3.25	Physiatrists' opinion
13	Adm_year_Very_Severe_Rehab_BoNT_A	Parameters (L166)	Yearly volume administrations patient with very severe PSS on Rehab/aboBoNT-A	3.07	3.00	3.25	Physiatrists' opinion

INHS=Italian National Health Service; U=potency unit; LYS=Life-year saved; OOP=out-of-pocket; PSS=post-stroke spasticity; QALYs=Quality-Adjusted Life Years; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation.

**Table SM2 – Parameters with no statistical distribution for base case and sensitivity analyses (one-way and probabilistic) (Costs in € 2018)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Point estimate	Lower limit range	Upper limit range	Source
<b>Healthcare resources - Volumes</b>							
14	Posology_Baclofen_per_os_Rehab_only	Parameters (L168)	Posology_Baclofen <i>per os</i> (tablets) mg <i>per diem</i> patient on Rehab (all severity levels)	30.11	0	50	Physiatrists' opinion
15	Posology_Baclofen_per_os_Rehab_BoNT-A	Parameters (L170)	Posology_Baclofen <i>per os</i> (tablets) mg <i>per diem</i> patient on Rehab/aboBoNT-A (all severity levels)	39.25	0	50	Physiatrists' opinion
16	Posology_Baclofen_intratecal_Rehab_only	Parameters (L172)	Posology_Baclofen intratecal (infusion) mg <i>per diem</i> patient on Rehab (all severity levels)	0.08	0	0.08	Physiatrists' opinion; Eleopra, 2009
17	Posology_Gabapentin_per_os_Rehab_BoNT-A	Parameters (L174)	Posology Gabapentin <i>per os</i> (tablets) mg <i>per diem</i> patient on Rehab/aboBoNT-A (all severity levels)	450	0	450	Physiatrists' opinion;
18	Posology_per_os_AE_Chronic_urticaria_Rehab_BoNT-A	Parameters (L220)	Posology triamcinolone+chlorphenamine <i>per os</i> tablets <i>per diem</i> patient with AE chronic urticarial on Rehab/aboBoNT-A (all severity levels)	4.00	0	4	Physiatrists' opinion
19	Drug_therapy_duration_AE_Chronic_urticaria_Rehab_BoNT-A	Parameters (L222)	Days per year therapy triamcinolone+chlorphenamine <i>per os</i> tablets <i>per diem</i> patient with AE chronic urticarial on Rehab/aboBoNT-A (all severity levels)	243.50	0	243.50	Physiatrists' opinion
<b>Healthcare resources - Unit and yearly costs</b>							
20	uc_Ex-factory price per unit BoNT-A	Parameters (L293)	Unit cost INHS-funded ex-factory <i>per IU</i> aboBoNT-A patient on Rehab/aboBoNT-A (all severity levels)	€0.35	€0.35	€0.35	SM1
21	uc_Baclofen_per_os_Rehab_All	Parameters (L315)	Unit cost INHS-funded <i>per mg</i> Baclofen <i>per os</i> patient on Rehab/aboBoNT-A and on Rehab (all severity levels)	€0.03	€0.03	€0.03	SM2,SM3
22	uc_Baclofen_intratecal_Rehab_only	Parameters (L317)	Unit cost INHS-funded <i>per mg</i> Baclofen intratecal patient on Rehab (all severity levels)	€0.60	€0.60	€0.60	SM2,SM3
23	uc_Antihistamine_per_os_Rehab_BoNT-A	Parameters (L324)	Unit cost OOP-funded triamcinolone+chlorphenamine <i>per tablet</i> patient on Rehab/aboBoNT-A (all severity levels)	€0.38	€0.38	€0.38	SM3
<b>Discounting cost, LYS and QALYs</b>							
24	disc_rate_costs	Parameters (L254)	Real social discount rate for costs	0.03	0.00	0.05	SM4-SM6
25	disc_rate_LYS_QALYs	Parameters (L255)	Real social discount rate for LYS and QALYs	0.03	0.00	0.05	SM4-SM6

AE=adverse event; INHS=Italian National Health Service; mg=milligram; LYS=Life-year saved; OOP=out-of-pocket; QALYs=Quality-Adjusted Life Years; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation.

**Table SM3 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations <sup>a</sup>	Mean	SE	LL 95% CI	UL 95% CI	Parameters Beta distribution for PSA		Source
									Alfa	Beta	
<b>Anagraphics, clinical classification and employment status</b>											
26	Pr_female	Parameters (L18)	Probability female patient	930	0.475	0.016	0.443	0.507	442	488	Physiatrists' opinion
27	Rehab_only	Parameters (L25)	Probability patient on Rehab	930	0.072	0.008	0.056	0.089	67	864	Physiatrists' opinion
28	Rehab_plus_BoNT_A	Parameters (L 27)	Probability patient on Rehab/aboBoNT-A	930	0.928	0.008	0.911	0.944	864	67	Physiatrists' opinion
29	Pr_Empl_No_hour_red_All	Parameters (L47)	Probability employed patient without working hours reduction	930	0.700	0.015	0.670	0.729	651	279	Physiatrists' opinion
30	Pr_Empl_Mild_Rehab_only	Parameters (L49)	Conditional probability employed patients with mild PSS given Rehab	41	0.415	0.077	0.272	0.566	17	24	Physiatrists' opinion
31	Pr_Empl_Moderate_Rehab_only	Parameters (L51)	Conditional probability employed patients with moderate PSS given Rehab	24	0.260	0.090	0.108	0.450	6	17	Physiatrists' opinion
32	Pr_Empl_Severe_Rehab_only	Parameters (L53)	Conditional probability employed patients with severe PSS given Rehab	1	0.000	0.000	0.000	0.000	0	1	Physiatrists' opinion
33	Pr_Empl_Very_Severe_Rehab_only	Parameters (L55)	Conditional probability employed patients with very severe PSS given Rehab	1	0.000	0.000	0.000	0.000	0	1	Physiatrists' opinion
34	Pr_Empl_Mild_Rehab_BoNT_A	Parameters (L57)	Conditional probability employed patients with mild PSS given Rehab/aboBoNT-A	128	0.388	0.043	0.306	0.474	50	78	Physiatrists' opinion
35	Pr_Empl_Moderate_Rehab_BoNT_A	Parameters (L59)	Conditional probability employed patients with moderate PSS given Rehab/aboBoNT-A	287	0.233	0.025	0.186	0.284	67	220	Physiatrists' opinion
36	Pr_Empl_Severe_Rehab_BoNT_A	Parameters (L61)	Conditional probability employed patients with severe PSS given Rehab/aboBoNT-A	247	0.052	0.014	0.028	0.082	13	235	Physiatrists' opinion
37	Pr_Empl_Very_Severe_Rehab_BoNT_A	Parameters (L63)	Conditional probability employed patients with very severe PSS given Rehab/aboBoNT-A	201	0.052	0.016	0.026	0.086	10	191	Physiatrists' opinion

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; PSS=post-stroke spasticity; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.

**Table SM4 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations <sup>a</sup>	Mean	SE	LL 95% CI	UL 95% CI	Parameters Beta distribution for PSA		Source
									Alfa	Beta	
<b>Anagraphics, clinical classification and employment status</b>											
38	Pr_Empl_Hour_red_All	Parameters (L65)	Probability employed patient with working hour reduction (from 8 to 4)	279	0.300	0.027	0.248	0.355	84	195	Physiatrists' opinion
39	Pr_Housekeepers_Rehab_only	Parameters (L67)	Conditional probability patient being housekeeper given Rehab	32	0.439	0.088	0.273	0.611	14	18	Physiatrists' opinion
40	Pr_Housekeepers_Rehab_BoNT_A	Parameters (L69)	Conditional probability patient being housekeeper given Rehab/aboBoNT-A	410	0.417	0.024	0.370	0.465	171	239	Physiatrists' opinion
41	Pr_Housekeepers_Hour_red_All	Parameters (L71)	Probability patient with working hour reduction given housekeeper	442	0.652	0.023	0.607	0.695	288	154	Physiatrists' opinion
42	Pr_Mild_Rehab_care_giving_Rehab_only	Parameters (L73)	Probability patient with mild PSS on Rehab needing informal care	67	0.246	0.053	0.151	0.356	16	50	Physiatrists' opinion
43	Pr_Moderate_Rehab_care_giving_Rehab_only	Parameters (L75)	Probability patient with moderate PSS on Rehab needing informal care	25	0.349	0.095	0.180	0.542	9	16	Physiatrists' opinion
44	Pr_Severe_Rehab_care_giving_Rehab_only	Parameters (L77)	Probability patient with severe PSS on Rehab needing informal care	16	0.608	0.122	0.367	0.822	10	6	Physiatrists' opinion
45	Pr_Very_Severe_Rehab_care_giving_Rehab_only	Parameters (L79)	Probability patient with very severe PSS on Rehab needing informal care	16	0.608	0.122	0.366	0.823	10	6	Physiatrists' opinion

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; PSS=post-stroke spasticity; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI=upper limit 95% confidence interval.

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.

**Table SM5 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations	Mean	SE	LL 95% CI	UL 95% CI	Parameters Beta distribution for PSA		Source
									Alfa	Beta	
<b>Anagraphics, clinical classification and employment status</b>											
46	Pr_Mild_Rehab_care_giving_Rehab_BoNT_A	Parameters (L81)	Probability patient with mild PSS on Rehab/aboBoNT-A needing informal care	864	0.327	0.016	0.296	0.359	282	581	Physiatrists' opinion
47	Pr_Moderate_Rehab_care_giving_Rehab_BoNT_A	Parameters (L83)	Probability patient with moderate PSS on Rehab/aboBoNT-A needing informal care	735	0.538	0.018	0.502	0.574	395	340	Physiatrists' opinion
48	Pr_Severe_Rehab_care_giving_Rehab_BoNT_A	Parameters (L85)	Probability patient with severe PSS on Rehab/aboBoNT-A needing informal care	247	0.796	0.026	0.743	0.843	197	51	Physiatrists' opinion
49	Pr_Very_Severe_Rehab_care_giving_Rehab_BoNT_A	Parameters (L87)	Probability patient with very severe PSS on Rehab/aboBoNT-A needing informal care	201	0.796	0.028	0.737	0.848	160	41	Physiatrists' opinion
50	Pr_home_help_Rehab_only	Parameters (L89)	Probability patient on Rehab needing home help	67	0.384	0.060	0.272	0.503	26	41	Physiatrists' opinion
51	Pr_home_help_Rehab_BoNT_A	Parameters (L91)	Probability patient on Rehab/aboBoNT-A needing home help	864	0.411	0.017	0.379	0.444	355	508	Physiatrists' opinion
52	Pr_INHS_funded_DH_BoNT_A_adm	Parameters (L93)	Probability INHS-funded day.hospital administration of aboBoNT-A	864	0.925	0.009	0.906	0.941	799	65	Physiatrists' opinion
53	Pr_INHS_funded_amb_BoNT_A_adm	Parameters (L95)	Probability INHS-funded outpatient administration of aboBoNT-A	864	0.075	0.009	0.059	0.094	65	799	Physiatrists' opinion
54	Pr_INHS_funded_Orthesis_Leg_Foot	Parameters (L97)	Probability INHS-funded for leg/foot orthosis	930	0.978	0.005	0.968	0.987	910	20	Physiatrists' opinion

INHS=Italian National Health Service; LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; PSS=post-stroke spasticity; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.

**Table SM6 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations	Mean	SE	LL 95% CI	UL 95% CI	Parameters Beta distribution for PSA		Source
									Alfa	Beta	
<b>Anagraphics, clinical classification and employment status</b>											
55	Pr_FU_Vis_Rehab_only	Parameters (L103)	Probability follow-up visits patient on Rehab	67	0.919	0.033	0.844	0.972	61	5	Physiatrists' opinion
56	Pr_FU_US_Rehab_BoNT_A	Parameters (L107)	Probability follow-up visits patient on Rehab/aboBoNT-A	864	0.785	0.014	0.757	0.812	678	186	Physiatrists' opinion
57	Pr_OOP_funded_Home_rehab_Rehab_only	Parameters (L115)	Probability OOP-funded home rehabilitation sessions patient on Rehab	930	0.043	0.007	0.031	0.057	40	890	Physiatrists' opinion
58	Pr_OOP_funded_home_rehab_Rehab_BoNT_A_No_Moderate	Parameters (L117)	Probability OOP-funded home rehabilitation sessions patient with non-moderate PSS on Rehab/aboBoNT-A	577	0.043	0.008	0.028	0.061	25	252	Physiatrists' opinion
59	Pr_OOP_funded_home_rehab_Rehab_BoNT_A_Moderate	Parameters (L119)	Probability OOP-funded home rehabilitation sessions patient with moderate PSS on Rehab/aboBoNT-A	287	0.301	0.027	0.249	0.355	86	201	Physiatrists' opinion
60	Pr_OOP_funded_shockwave_sessions	Parameters (L121)	Probability OOP-funded shockwave sessions	930	0.170	0.012	0.147	0.195	158	772	Physiatrists' opinion
61	Pr_Baclofen_per_os_Rehab_onlu	Parameters (L123)	Conditional probability Baclofen <i>per os</i> patient on Rehab	67	0.230	0.052	0.138	0.338	15	51	Physiatrists' opinion
62	Pr_Baclofen_intratecal_Rehab_only	Parameters (L125)	Conditional probability intratecal Baclofen patient on Rehab	67	0.011	0.013	0.000	0.011	1	66	Physiatrists' opinion

INHS=Italian National Health Service; LL 95% CI=lower limit 95% confidence interval; OOP=out-of-pocket; PSA=Probabilistic Sensitivity Analysis; PSS=post-stroke spasticity; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.

**Table SM7 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations	Mean	SE	Parameters Beta distribution for PSA		Alfa	Beta	Source
							LL 95% CI	UL 95% CI			
<b>Anagraphics, clinical classification and employment status</b>											
63	Pr_Baclofen_per_os_Mild_Rehab_BoNT_A	Parameters (L127)	Conditional probability Baclofen <i>per os</i> patient with mild post-stroke spasticity onRehab/aboBoNT-A	128	0.155	0.032	0.098	0.222	20	108	Physiatrists' opinion
64	Pr_Baclofen_per_os_Moderate_Rehab_BoNT_A	Parameters (L129)	Conditional probability Baclofen <i>per os</i> patient with moderate post-stroke spasticity onRehab/aboBoNT-A	287	0.235	0.025	0.188	0.286	68	219	Physiatrists' opinion
65	Pr_Baclofen_per_os_Severe_Rehab_BoNT_A	Parameters (L131)	Conditional probability Baclofen <i>per os</i> patient with severe post-stroke spasticity onRehab/aboBoNT-A	247	0.330	0.030	0.272	0.389	82	166	Physiatrists' opinion
66	Pr_Baclofen_per_os_Very_Severe_Rehab_BoNT_A	Parameters (L133)	Conditional probability Baclofen <i>per os</i> patient with very severe post-stroke spasticity onRehab/aboBoNT-A	268	0.155	0.022	0.114	0.200	41	226	Physiatrists' opinion
67	Pr_Gabapentin_per_os_Severe_Rehab_BoNT_A	Parameters (L135)	Conditional probability Gabapentin <i>per os</i> patient with very severe post-stroke spasticity onRehab/aboBoNT-A	247	0.054	0.014	0.029	0.085	13	234	Physiatrists' opinion

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.

**Table SM8 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations	Mean	SE	LL 95% CI	UL 95% CI	Parameters Beta distribution for PSA		
									Alfa	Beta	Source
<b>Anagraphics, clinical classification and employment status</b>											
68	First_year_age_related_bckg_death	Parameters (L139)	Death probability general population aged 66	930	0.009	0.003	0.004	0.017	9	921	SM7
69	Second_year_age_related_bckg_death	Parameters (L141)	Death probability general population aged 67	921	0.010	0.003	0.005	0.018	10	912	SM7
70	Pr_Botulism_BoNT_A	Parameters (L265)	Probability botilism patient on Rehab/aboBoNT-A	864	0.0003	0.001	0.000	0.002	0	863	Physiatrists' opinion
71	Pr_Chronic_urticaria_BoNT_A	Parameters (L266)	Probability chronic urticaria patient on Rehab/aboBoNT-A	864	0.0002	0.001	0.000	0.002	0	501	Physiatrists' opinion
72	Pr_Orthesis_Leg_Foot_Rehab_only	Parameters (L270)	Probability leg/foot orthesis (1 item) patient on Rehab	67	0.474	0.061	0.356	0.594	32	35	Physiatrists' opinion
73	Pr_Wheelchair_Rehab_only	Parameters (L271)	Probability wheelchair patient on Rehab	67	0.075	0.032	0.025	0.149	5	61	Physiatrists' opinion
74	Pr_Crutches_Rehab_only	Parameters (L272)	Probability crutches (1 pair) patient on Rehab	67	0.129	0.041	0.060	0.219	9	58	Physiatrists' opinion
75	Pr_Orthesis_Hand_Wrist_Rehab_only	Parameters (L273)	Probability hand/wrist orthesis (1 item) patient on Rehab	67	0.258	0.054	0.161	0.369	17	49	Physiatrists' opinion
76	Pr_Walker_Rehab_only	Parameters (L274)	Probability walker (1 item) patient on Rehab	67	0.129	0.041	0.060	0.219	9	58	Physiatrists' opinion
77	Pr_Cane_Rehab_only	Parameters (L275)	Probability walking cane (1 item) patient on Rehab	67	0.387	0.060	0.275	0.506	26	41	Physiatrists' opinion
78	Pr_Wheelchair_Rehab_BoNT-A	Parameters (L276)	Probability wheelchair patient on Rehab/aboBoNT-A	864	0.065	0.008	0.049	0.082	56	808	Physiatrists' opinion
79	Pr_Crutches_Rehab_BoNT-A	Parameters (L277)	Probability crutches (1 pair) patient on Rehab/aboBoNT-A	864	0.108	0.011	0.088	0.129	93	771	Physiatrists' opinion
80	Pr_Orthesis_Hand_Wrist_Rehab_BoNT_A	Parameters (L278)	Probability hand/wrist orthesis (1 item) patient on Rehab/aboBoNT-A	864	0.258	0.015	0.229	0.288	223	641	Physiatrists' opinion
81	Pr_Walker_Rehab_BoNT_A	Parameters (L279)	Probability walker (1 item) patient on Rehab/aboBoNT-A	864	0.129	0.011	0.108	0.152	111	752	Physiatrists' opinion
82	Pr_Cane_Rehab_BoNT_A	Parameters (L280)	Probability walking cane (1 item) patient on Rehab/aboBoNT-A	864	0.387	0.017	0.355	0.420	334	529	Physiatrists' opinion
83	Pr_Orthesis_Leg_Foot_Rehab_BoNT_A	Parameters (L281)	Probability leg/foot orthesis (1 item) patient on Rehab/aboBoNT-A	864	0.528	0.017	0.495	0.561	456	408	Physiatrists' opinion

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.



**Table SM9 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations	Mean	SE	LL 95% CI	UL 95% CI	Parameters Beta distribution for PSA		Source
									Alfa	Beta	
<b>Anagraphics, clinical classification and employment status</b>											
84	Pr_Wrist_Splint_Rehab_BoNT_A	Parameters (L282)	Probability wrist splint (1 item) patient on Rehab/aboBoNT-A	864	0.054	0.008	0.040	0.070	46	817	Physiatrists' opinion
85	Pr_Orthosis_Ankle_Rehab_BoNT_A	Parameters (L283)	Probability ankle orthosis (1 item) patient on Rehab/aboBoNT-A	864	0.081	0.009	0.063	0.100	70	794	Physiatrists' opinion
86	Pr_Orthosis_Knee_Rehab_BoNT_A	Parameters (L284)	Probability knee orthosis (1 item) patient on Rehab/aboBoNT-A	864	0.081	0.009	0.063	0.100	70	794	Physiatrists' opinion
87	Pr_Shoulder_Bracing_Rehab_BoNT-A	Parameters (L285)	Probability shoulder brace (1 item) patient on Rehab/aboBoNT-A	864	0.013	0.004	0.007	0.022	12	852	Physiatrists' opinion
88	Pr_Tripod_Quadruped_Stick_Rehab_BoNT_A	Parameters (L286)	Probability tripod/quadruped stick (1 item) patient on Rehab/aboBoNT-A	864	0.202	0.176	0.229	0.022	174	689	Physiatrists' opinion

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.

**Table SM10 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations	Mean	SE	LL 95% CI	UL 95% CI	Parameters Log-normal distribution for PSA		
									Mean	SE	Source
<b>Anagraphics, clinical classification and employment status</b>											
89	Death_prob_multiplier_1_year_after_ictus	Parameters (L143)	Post-stroke SMR vs death probability general population aged 66	930	5.720	0.495	4.810	6.750	5.720	0.086	SM8
90	Death_prob_multiplier_2_year_after_ictus	Parameters (L145)	Post-stroke SMR vs death probability general population aged 67	921	3.140	0.179	2.800	3.500	3.140	0.179	SM8

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; SMR=Standardized Mortality Ratio; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.

**Table SM11 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations <sup>a</sup>	Mean	SE	LI 95% CI	UL 95% CI	Parameter Dirichlet distribution for PSA Alfa	Source
<b>Anagraphics, clinical classification and employment status</b>										
91	Pr_Mild_Rehab_only	Parameters (L31)	Probability patient with mild PSS on Rehab	67	0.624	0.059	0.505	0.735	41	Physiatrists' opinion
92	Pr_Moderate_Rehab_only	Parameters (L33)	Probability patient with moderate PSS on Rehab	25	0.355	0.096 <sup>b</sup>	0.184	0.548	9	Physiatrists' opinion
93	Pr_Severe_Rehab_only	Parameters (L35)	Probability patient with severe PSS on Rehab	16	0.011	0.026 <sup>c</sup>	0.000	0.085	0	Physiatrists' opinion
94	Pr_Very_Severe_Rehab_only	Parameters (L37)	Probability patient with very severe PSS on Rehab	16	0.011	0.026 <sup>d</sup>	0.000	0.086	0	Physiatrists' opinion
95	Pr_Mild_Rehab_BoNT_A	Parameters (L39)	Probability patient with mild PSS on Rehab/aboBoNT-A	864	0.148	0.012	0.125	0.173	128	Physiatrists' opinion
96	Pr_Moderate_Rehab_BoNT_A	Parameters (L41)	Probability patient with moderate PSS on Rehab/aboBoNT-A	735	0.332	0.017 <sup>e</sup>	0.299	0.367	244	Physiatrists' opinion
97	Pr_Severe_Rehab_BoNT_A	Parameters (L43)	Probability patient with severe PSS on Rehab/aboBoNT-A	491	0.287	0.020 <sup>f</sup>	0.247	0.327	141	Physiatrists' opinion
98	Pr_Very_Severe_Rehab_BoNT_A	Parameters (L45)	Probability patient with very severe PSS on Rehab/aboBoNT-A	350	0.233	0.02 <sup>g</sup>	0.190	0.278	82	Physiatrists' opinion

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; PSS=post-stroke spasticity; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval;

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.

<sup>b</sup> SE calculated assuming a sample of 25 patients (67 patients -41 patients; parameter Alfa Pr\_Mild\_Rehab\_only=25).

<sup>c</sup> SE calculated assuming a sample of 16 patients (67 patients -41 patients -9 patients; parameter Alfa Pr\_Mild\_Rehab\_only=41; parameter Alfa Pr\_Moderate\_Rehab\_only=9).

<sup>d</sup> patients (67 patients -41 patients -9 patients -0 patients; parameter Alfa Pr\_Mild\_Rehab\_only=41; parameter Alfa Pr\_Moderate\_Rehab\_only=9; parameter Alfa Pr\_Severe\_Rehab\_only=0).

<sup>e</sup> SE calculated assuming a sample of 735 patients (864 patients -128 patients; parameter Alfa Pr\_Mild\_Rehab\_BoNT\_A=128).

<sup>f</sup> SE calculated assuming a sample of 491 patients (864 patients -128 patients -244 patients; parameter Alfa Pr\_Mild\_Rehab\_BoNT\_A=128; parameter Alfa Pr\_Moderate\_Rehab\_BoNT\_A=244).

<sup>g</sup> SE calculated assuming a sample of 350 patients (864 patient-128 patient-244 patient-141 patient; parameter Alfa Pr\_Mild\_Rehab\_BoNT\_A=128; parameter Alfa Pr\_Moderate\_Rehab\_BoNT\_A=244; parameter Alfa Pr\_Severe\_Rehab\_BoNT\_A=141).

**Table SM12 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations <sup>a</sup>	Mean	SE	LI 95% CI	UL 95% CI	Parameter Dirichlet distribution for PSA	
									Alfa	Source
<b>Anagraphics, clinical classification and employment status</b>										
99	Pr_INHS_funded_amb_rehab	Parameters (L111)	Probability INHS-funded rehabilitation session in outpatient setting	930	0.806	0.013	0.780	0.831	750	Physiatrists' opinion
100	Pr_INHS_funded_DH_rehab	Parameters (L112)	Probability INHS-funded rehabilitation session in day-hospital setting	180	0.183	0.029 <sup>ab</sup>	0.130	0.242	33	Physiatrists' opinion
101	Pr_INHS_funded_Home_Rehab	Parameters (L113)	Probability INHS-funded rehabilitation session in home setting	147	0.011	0.009 <sup>c</sup>	0.001	0.033	2	Physiatrists' opinion

INHS=Italian National Health Service; LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI=upper limit 95% confidence interval.

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.

<sup>b</sup> SE calculated assuming a sample of 180 patients (930 patients-750 patients; parameter Alfa Pr\_INHS\_funded\_amb\_rehab=750).

<sup>c</sup> SE calculated assuming a sample of 147 patients (930 patients -750 patients -33 patients; parameter Alfa Pr\_Mild\_Rehab\_only=750; parameter Alfa Pr\_Moderate\_Rehab\_only=33).

**Table SM13 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Mean	SE	LL 95% CI	UL 95% CI	Parameters Gamma distribution per PSA		Source
								Alfa	Beta	
<b>Healthcare resources - Volumes</b>										
102	Vol_INHS_funded_Ultrasounds_year_BoNT_A	Parameters (L180)	Volume INHS-funded follow-up muscle/tendon ultrasounds performed in outpatient setting per year in patient on Rehab/aboBoNT-A	11.18	4.47 <sup>a</sup>	4.209	21.505	6	2	Physiatrists' opinion
103	Vol_INHS_funded_FU_vis_year_Rehab_only	Parameters (L176)	Volume INHS-funded follow-up visits per year patient on Rehab	2.28	0.91 <sup>a</sup>	0.860	4.394	6	0	Physiatrists' opinion
104	Vol_INHS_funded_FU_vis_year_BoNT_A	Parameters (L178)	Volume INHS-funded follow-up visits per year patient on Rehab/aboBoNT-A	4.46	1.78 <sup>a</sup>	1.679	8.581	6	1	Physiatrists' opinion
105	Vol_INHS_funded_yearly_rehab_sess_Mild_Rehab_only	Parameters (L181)	Volume INHS-funded follow-up visits per year patient with mild PSS on Rehab	15.38	6.15 <sup>a</sup>	5.787	29.570	6	2	Physiatrists' opinion
106	Vol_INHS_funded_yearly_rehab_sess_Mild_Rehab_BoNT_A	Parameters (L186)	Volume INHS-funded follow-up visits per year patient with mild PSS on Rehab/aboBoNT-A	38.82	15.53 <sup>a</sup>	14.609	74.648	6	6	Physiatrists' opinion
107	Vol_INHS_funded_yearly_rehab_sess_Moderate_Rehab_only	Parameters (L184)	Volume INHS-funded follow-up visits per year patient with moderate PSS on Rehab	15.91	6.37 <sup>a</sup>	5.989	30.603	6	3	Physiatrists' opinion
108	Vol_INHS_funded_yearly_rehab_sess_Moderate_Rehab_BoNT_A	Parameters (L188)	Volume INHS-funded follow-up visits per year patient with moderate PSS on Rehab/aboBoNT-A	38.82	15.53 <sup>a</sup>	14.609	74.648	6	6	Physiatrists' opinion
109	Vol_INHS_funded_yearly_rehab_sess_Severe_Rehab_BoNT_A	Parameters (L190)	Volume INHS-funded follow-up visits per year patient with severe PSS on Rehab/aboBoNT-A	43.98	17.59 <sup>a</sup>	16.551	84.573	6	7	Physiatrists' opinion
110	Vol_INHS_funded_yearly_rehab_sess_Very_Severe_Rehab_BoNT_A	Parameters (L192)	Volume INHS-funded follow-up visits per year patient with very severe PSS on Rehab/aboBoNT-A	41.83	16.73 <sup>a</sup>	15.742	80.438	6	7	Physiatrists' opinion

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; PSS=post-stroke spasticity; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI=upper limit 95% confidence interval.

<sup>a</sup>Due to the lack of an analytically calculated SE, a CV=40% of the sample mean has been imposed (SM9, SM10).

**Table SM14 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter parametro	Mean	SE	LL 95% CI	UL 95% CI	Parameters Gamma distribution per PSA		Source
								Alfa	Beta	
<b>Healthcare resources - Volumes</b>										
111	Vol_OOP_funded_yearly_shockwave_sessions	Parameters (L194)	Yearly volume of OOP-funded scockwave sessions	12.00	4.80 <sup>a</sup>	4.516	23.077	6	2	Physiatrists' opinion
112	Vol_INHS_funded_yearly_EMG_AE_Botulism_Rehab_BoNT_A	Parameters (L196)	Yearly volume of INHS-funded botulism-related electromyographies in outpatient setting patient on Rehab/aboBoNT-A	1.00	0.04 <sup>a</sup>	0.376	1.923	6	0	Physiatrists' opinion
113	Vol_INHS_funded_yearly_Phys_Visits_AE_Botulism_Rehab_BoNT_A	Parameters (L198)	Yearly volume of INHS-funded botulism-related physiatrist visits in outpatient setting patient on Rehab/aboBoNT-A	6.00	2.40 <sup>a</sup>	2.258	11.538	6	1	Physiatrists' opinion
114	Vol_INHS_funded_yearly_Neurologist_Visits_AE_Botulism_Rehab_BoNT_A	Parameters (L200)	Yearly volume of INHS-funded botulism-related neurologist visits in outpatient setting patient on Rehab/aboBoNT-A	1.00	0.04 <sup>a</sup>	0.376	1.923	6	0	Physiatrists' opinion
115	Vol_INHS_funded_yearly_Amb_Rehab_session_AE_Botulism_Rehab_BoNT_A	Parameters (L202)	Yearly volume of INHS-funded botulism-related rehabilitation sessions in outpatient setting patient on Rehab/aboBoNT-A	20.00	8.00 <sup>a</sup>	7.527	38.461	6	3	Physiatrists' opinion
116	Vol_OOP_funded_yearly_home_rehab_Rehab_only_Mild	Parameters (L204)	Yearly volume of OOP-funded rehabilitation sessions in home setting patient with mild PSS on Rehab	10.00	4.00 <sup>a</sup>	3.763	19.231	6	2	Physiatrists' opinion
117	Vol_OOP_funded_yearly_home_rehab_Rehab_only_Moderate	Parameters (L206)	Yearly volume of OOP-funded rehabilitation sessions in home setting patient with moderate PSS on Rehab	10.00	4.00 <sup>a</sup>	3.763	19.231	6	2	Physiatrists' opinion
118	Vol_OOP_funded_yearly_home_rehab_Rehab_only_Severe	Parameters (L208)	Yearly volume of OOP-funded rehabilitation sessions in home setting patient with severe PSS on Rehab	20.00	8.00 <sup>a</sup>	7.527	38.461	6	3	Physiatrists' opinion

AE=Adverse Events; LL 95% CI=lower limit 95% confidence interval; OOP=out-of-pocket; PSA=Probabilistic Sensitivity Analysis; PSS=post-stroke spasticity; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA; SE=standard error; UL 95% CI=upper limit 95% confidence interval.

<sup>a</sup>Due to the lack of an analytically calculated SE, a CV=40% of the sample mean has been imposed (SM9, SM10).

**Table SM15 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Mean	SE	LL 95% CI	UL 95% CI	Parameters Gamma distribution per PSA		Source
								Alfa	Beta	
<b>Healthcare resources - Volumes</b>										
119	Vol_OOP_funded_yearly_home_rehab_Rehab_only_Very_Severe	Parameters (L210)	Yearly volume of OOP-funded rehabilitation sessions in home setting patient very severe PSS on Rehab	20.00	8.00 <sup>a</sup>	7.527	38.461	6	3	Physiatrists' opinion
120	Vol_OOP_funded_Home_Rehab_BoNT_A_Mild	Parameters (L212)	Yearly volume of OOP-funded rehabilitation sessions in home setting patient mild PSS on Rehab/aboBoNT-A	10.00	4.00 <sup>a</sup>	3.763	19.231	6	2	Physiatrists' opinion
121	Vol_OOP_funded_Home_Rehab_BoNT_A_Moderate	Parameters (L214)	Yearly volume of OOP-funded rehabilitation sessions in home setting patient moderate PSS on Rehab/aboBoNT-A	7.31	2.93 <sup>a</sup>	2.752	14.061	6	1	Physiatrists' opinion
122	Vol_OOP_funded_Home_Rehab_BoNT_A_Severe	Parameters (L216)	Yearly volume of OOP-funded rehabilitation sessions in home setting patient severe PSS on Rehab/aboBoNT-A	20.00	8.00 <sup>a</sup>	7.527	38.461	6	3	Physiatrists' opinion
123	Vol_OOP_funded_Home_Rehab_BoNT_A_Very_Severe	Parameters (L218)	Yearly volume of OOP-funded rehabilitation sessions in home setting patient very severe PSS on Rehab/aboBoNT-A	20.00	8.00 <sup>a</sup>	7.527	38.461	6	3	Physiatrists' opinion

LL 95% CI=lower limit 95% confidence interval; OOP=out-of-pocket; PSA=Probabilistic Sensitivity Analysis; PSS=post-stroke spasticity; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA; SE=standard error; UL 95% CI=upper limit 95% confidence interval.  
<sup>a</sup>Due to the lack of an analytically calculated SE, a CV=40% of the sample mean has been imposed (SM9, SM10).

**Table SM16 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Mean	SE	LL 95% CI	UL 95% CI	Parameters Gamma distribution per PSA		Source
								Alfa	Beta	
<b>Non-healthcare resources – Caregiving, transportation and parking</b>										
124	Vol_caregivers	Parameters (L225)	Volume <i>caregivers</i> patient needing informal care	1.054	0.42	0.40	2.03	6	0	Physiatrists' opinion
125	Km_from_home_to_go_Rehab_only	Parameters (L226)	Kilometers from patient's home to healthcare facility patient on Rehab (one-way trip)	25.91	10.37 <sup>a</sup>	9.75	49.83	6	4	Physiatrists' opinion
126	Km_from_home_to_go_Rehab_BoNT_A	Parameters (L227)	Kilometers from patient's home to healthcare facility patient on Rehab/aboBoNT-A (one-way trip)	32.37	12.95 <sup>a</sup>	12.18	62.24	6	5	Physiatrists' opinion
127	Home_paid_help_minutes	Parameters (L230)	Daily time home help (minutes)	240.00	96.00 <sup>a</sup>	90.32	461.53	6	38	Rersearch assumption
128	Pkg_minutes	Parameters (L231)	Parking time (minutes)	90.00	36.00 <sup>a</sup>	33.87	173.08	6	14	Rersearch assumption

Km=kilometers; LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA; SE=standard error; UL 95% CI=upper limit 95% confidence interval.

<sup>a</sup> Due to the lack of an analytically calculated SE, a CV=40% of the sample mean has been imposed (SM9, SM10).



**Table SM17 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Mean	SE	LL 95% CI	UL 95% CI	Parameters Gamma distribution per PSA		Source
								Alfa	Beta	
<b>Non-healthcare resources - Patient and caregiver's time</b>										
129	Minutes_Transportation_Rehab_only	Parameters (L228)	Minutes from patient's home to healthcare facility patient on Rehab (one-way trip)	28.60	11.44 <sup>a</sup>	10.76	55.00	6	5	Research assumption
130	Minutes_Transportation_Rehab_BoNT_A	Parameters (L229)	Minutes from patient's home to healthcare facility patient on Rehab/aboBoNT-A (one-way trip)	32.90	13.16 <sup>a</sup>	12.38	63.27	6	5	Research assumption
131	INHS_funded_Adm_BoNT_A_min	Parameters (L235)	Minutes aboBoNT-A administration <sup>b</sup>	43.71	17.48 <sup>a</sup>	16.45	84.06	6	7	Physiatrists' opinion
132	INHS_funded_amb_Mild_Rehab_only_rehabilitation_session_min	Parameters (L236)	Minutes INHS-funded rehabilitation session in outpatient setting patient with mild PSS on Rehab	41.61	16.25 <sup>a</sup>	15.66	80.02	6	7	Physiatrists' opinion
133	INHS_funded_amb_Moderate_Rehab_only_rehabilitation_session_min	Parameters (L237)	Minutes INHS-funded rehabilitation session in outpatient setting patient with moderate PSS on Rehab	31.40	12.56 <sup>a</sup>	60.38	31.40	6	5	Physiatrists' opinion
134	INHS_funded_DH_Mild_Rehab_only_rehabilitation_session_min	Parameters (L238)	Minutes INHS-funded rehabilitation session in day-hospital setting patient with mild PSS on Rehab	60.00	24.00 <sup>a</sup>	22.58	115.38	6	10	Physiatrists' opinion
135	INHS_funded_home_Mild_Rehab_only_rehabilitation_session_min	Parameters (L239)	Minutes INHS-funded rehabilitation session in home setting patient with mild PSS on Rehab	60.00	24.00 <sup>a</sup>	22.58	115.38	6	10	Physiatrists' opinion
136	INHS_funded_Rehab_amb_BoNT_A_All_rehab_sess_min	Parameters (L240)	Minutes INHS-funded rehabilitation session in outpatient setting patient on Rehab/aboBoNT-A	51.94	20.77 <sup>a</sup>	99.87	51.94	6	8	Physiatrists' opinion
137	INHS_funded_Rehab_DH_BoNT_A_All_rehab_sess_min	Parameters (L241)	Minutes INHS-funded rehabilitation session in day-hospital setting patient on Rehab/aboBoNT-A	120.00	48.00 <sup>a</sup>	45.16	230.77	6	19	Physiatrists' opinion
138	INHS_funded_home_rehabilitation_sessions_Rehab_BoNT_A_min	Parameters (L242)	Minutes INHS-funded rehabilitation session in home setting patient on Rehab/aboBoNT-A	60.00	24.00 <sup>a</sup>	22.58	115.38	6	10	Physiatrists' opinion

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; PSS=post-stroke spasticity; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Due to the lack of an analytically calculated SE, a CV=40% of the sample mean has been imposed (SM9, SM10).

<sup>b</sup> The same duration has been assumed for an outpatient follow-up visit.

**Table SM18 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Mean	SE	LL 95% CI	UL 95% CI	Parameters Gamma distribution for PSA		Source
								Alfa	Beta	
<b>Non-healthcare resources - Patient and caregiver's time</b>										
139	OOP_funded_Mild_Rehab_home_Rehab_only_session_min	Parameters (L243)	Minutes OOP-funded rehabilitation session in outpatient setting patient with mild PSS on Rehab	30.00	12.00 <sup>a</sup>	11.29	57.69	6	5	Physiatrists' opinion
140	OOP_funded_Moderate_Rehab_home_Rehab_only_session_min	Parameters (L244)	Minutes OOP-funded rehabilitation session in outpatient setting patient with moderate PSS on Rehab	30.00	12.00 <sup>a</sup>	11.29	57.69	6	5	Physiatrists' opinion
141	OOP_funded_Severe_Rehab_home_Rehab_only_session_min	Parameters (L245)	Minutes OOP-funded rehabilitation session in outpatient setting patient with severe PSS on Rehab	30.00	12.00 <sup>a</sup>	11.29	57.69	6	5	Physiatrists' opinion
142	OOP_funded_Very_Severe_Rehab_home_Rehab_only_session_min	Parameters (L246)	Minutes OOP-funded rehabilitation session in outpatient setting patient with very severe PSS on Rehab	30.00	12.00 <sup>a</sup>	11.29	57.69	6	5	Physiatrists' opinion
143	OOP_funded_Mild_Rehab_home_Rehab_BoNT_A_sess_min	Parameters (L247)	Minutes OOP-funded rehabilitation session in outpatient setting patient with mild PSS on Rehab/aboBoNT-A	30.00	12.00 <sup>a</sup>	11.29	57.69	6	5	Physiatrists' opinion
144	OOP_funded_Moderate_Rehab_home_Rehab_BoNT_A_sess_min	Parameters (L248)	Minutes OOP-funded rehabilitation session in outpatient setting patient with moderate PSS on Rehab/aboBoNT-A	37.42	14.97 <sup>a</sup>	14.08	71.96	6	6	Physiatrists' opinion
145	OOP_funded_Severe_Rehab_home_Rehab_BoNT_A_sess_min	Parameters (L249)	Minutes OOP-funded rehabilitation session in outpatient setting patient with severe PSS on Rehab/aboBoNT-A	30.00	12.00 <sup>a</sup>	11.29	57.69	6	5	Physiatrists' opinion
146	OOP_funded_Very_Severe_Rehab_home_Rehab_BoNT_A_sess_min	Parameters (L250)	Minutes OOP-funded rehabilitation session in outpatient setting patient with very severe PSS on Rehab/aboBoNT-A	30.00	12.00 <sup>a</sup>	11.29	57.69	6	5	Physiatrists' opinion
147	Add_time_for_health_care_serv	Parameters (L251)	Additional minutes for dealing with admission procedure before healthcare service delivery	30.00	12.00 <sup>a</sup>	11.29	57.69	6	5	Research assumption
148	Patient_hosp_min_intratecal_pump_Rehab_only_min	Parameters (L252)	Minutes inward hospitalization for Baclofen intratecal pump implant patient on Rehab (2 days)	576.00	230.40 <sup>a</sup>	216.77	1107.68	6	92	Research assumption

LL 95% CI=lower limit 95% confidence interval; OOP=out-of-pocket; PSA=Probabilistic Sensitivity Analysis; PSS=post-stroke spasticity; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI=upper limit 95% confidence interval.

<sup>a</sup> Due to the lack of an analytically calculated SE, a CV=40% of the sample mean has been imposed (SM9, SM10).

**Table SM19 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic) (Costs in € 2018)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Mean	SE	LL 95% CI	UL 95% CI	Parameters Normal distribution per PSA		Source
								Mean	SE	
<b>Healthcare resources - Unit and yearly costs</b>										
149	uc_INHS_funded_physiatrist_visit	Parameters (L290)	Unit cost INHS-funded physiatrist visit in outpatient setting	€12.91	€1.29 <sup>a</sup>	€10.38	€15.44	€12.91	€1.29	SM11
150	uc_Muscles_Ultrasounds_Rehab_BoNT-A	Parameters (L291)	Unit cost INHS-funded muscle/tendon ultrasound in outpatient setting	€28.41	€2.84 <sup>a</sup>	€22.84	€33.98	€28.41	€2.84	SM11
151	uc_INHS_funded_Adm_amb	Parameters (L294)	Unit cost INHS-funded Rehab/aboBoNT-A administration in outpatient setting	€9.71	€0.97 <sup>a</sup>	€7.81	€11.61	€9.71	€0.97	SM11
152	uc_INHS_funded_Adm_DH	Parameters (L295)	Unit cost INHS-funded Rehab/aboBoNT-A administration in day-hospital setting	€218.16	€21.82 <sup>a</sup>	€175.40	€260.92	€218.16	€21.82	SM11
153	uc_INHS_funded_Rehab_Outpatient_setting	Parameters (L297)	Unit cost INHS-funded rehabilitation session in outpatient setting	€11.36	€1.14 <sup>a</sup>	€9.13	€13.59	€11.36	€1.14	SM11
154	uc_INHS_funded_Rehab_DH_setting	Parameters (L298)	Unit cost INHS-funded rehabilitation session in day-hospital setting	€218.16	€21.82 <sup>a</sup>	€175.40	€260.92	€218.16	€21.82	SM11
155	uc_INHS_funded_Rehab_Home_setting	Parameters (L299)	Unit cost INHS-funded rehabilitation session in home setting	€14.43	€1.44 <sup>a</sup>	€11.60	€17.26	€14.43	€1.44	SM12
156	uc_OOP_funded_Rehab_Home_setting	Parameters (L300)	Unit cost OOP-funded rehabilitation session in home setting	€64.00	€6.40 <sup>a</sup>	€51.46	€76.54	€64.00	€6.40	SM13
157	uc_neurologist_visit	Parameters (L321)	Unit cost INHS-funded neurologist visit in outpatient setting	€20.66	€2.07 <sup>a</sup>	€16.61	€ 24.71	€20.66	€2.07	SM1
158	uc_EMG	Parameters (L322)	Unit cost INHS-funded electromyography in outpatient setting	€14.43	€1.44 <sup>a</sup>	€11.60	€17.26	€14.43	€1.44	SM12

EMG=electromyography; INHS=Italian National Health Service; LL 95% CI=lower limit 95% confidence interval; OOP=out-of-pocket; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval..

<sup>a</sup> Due to the lack of an analytically calculated SE, a CV=10% of the sample mean has been imposed (SM9, SM10).

**Table SM20 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic) (Costs in € 2018)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Mean	SE	LL 95% CI	UL 95% CI	Parameters Normal distribution per PSA		Source
								Mean	SE	
<b>Healthcare resources - Unit and yearly costs</b>										
159	uc_OOP_funded_shockwave_session	Parameters (L319)	Unit cost OOP-funded ultrasound session	€60.00	€6.00 <sup>a</sup>	€48.24	€71.76	€60.00	€6.00	Physiatrists' opinion
160	Yearly_cost_INHS_funded_Orthesis_Leg_Foot	Parameters (L302)	Yearly cost share 5-year cost INHS-funded leg/foot orthosis (1 item) <sup>b</sup>	€49.37	€4.94 <sup>a</sup>	€198.48	€39.70	€59.05	€4.94	SM14
161	Yearly_cost_OOP_funded_Orthesis	Parameters (L303)	Yearly cost share 5-year cost OOP-funded orthosis (1 item) <sup>b</sup>	€33.02	€3.30	€26.55	€39.49	€33.02	€3.30	SM15
162	Yearly_cost_INHS_funded_Wheelchair	Parameters (L304)	Yearly cost share 5-year cost INHS-funded wheelchair (1 item) <sup>b</sup>	€85.34	€8.53 <sup>a</sup>	€68.61	€102.07	€85.34	€8.53	SM14
163	uc_INHS_funded_Crutches	Parameters (L305)	Unit cost INHS-funded crutches(1 pair)	€10.54	€1.05	€8.47	€12.61	€10.54	€1.05	SM16
164	uc_OOP_funded_Cane	Parameters (L306)	Unit cost OOP-funded walking cane (1 item)	€20.80	€2.08 <sup>a</sup>	€16.72	€24.88	€20.80	€2.08	SM17
165	Yearly_cost_INHS_Orthesis_Hand_Wrist	Parameters (L307)	Yearly cost share 5-year cost INHS-funded hand/wrist orthosis (1 item) <sup>b</sup>	€29.84	€2.98 <sup>a</sup>	€23.99	€35.69	€29.84	€2.98	SM14
167	Yearly_cost_INHS_funded_Walker	Parameters (L308)	Yearly cost share 5-year cost INHS-funded walker (1 item) <sup>b</sup>	€311.40	€31.14 <sup>a</sup>	€250.37	€372.44	€311.40	€31.14	SM14
168	Yearly_cost_INHS_funded_Wrist_Splint	Parameters (L309)	Yearly cost share 5-year cost INHS-funded wrist splint (1 item) <sup>b</sup>	€21.39	€2.14 <sup>a</sup>	€17.20	€25.58	€21.39	€2.14	SM14
169	Yearly_cost_INHS_funded_Orthesis_Ankle	Parameters (L310)	Yearly cost share 5-year cost INHS-funded ankle orthosis (1 item) <sup>b</sup>	€20.95	€2.09 <sup>a</sup>	€16.84	€25.05	€20.95	€2.09	SM14
170	Yearly_cost_INHS_funded_Orthesis_Knee	Parameters (L311)	Yearly cost share 5-year cost INHS-funded knee orthosis (1 item) <sup>b</sup>	€48.93	€4.89 <sup>a</sup>	€39.34	€58.52	€48.93	€4.89	SM14

INHS=Italian National Health Service; LL 95% CI=lower limit 95% confidence interval; OOP=out-of-pocket; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Due to the lack of an analytically calculated SE, a CV=10% of the sample mean has been imposed (SM9, SM10).

<sup>b</sup> Assumed useful life: 5 years.

**Table SM21 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic) (Costs in € 2018)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Mean	SE	LL 95% CI	UL 95% CI	Parameters Normal distribution per PSA		Source
								Mean	SE	
<b>Healthcare resources - Unit and yearly costs</b>										
171	Yearly_cost_INHS_funded_Shoulder_Bracing	Parameters (L312)	Yearly cost share 5-year cost INHS-funded shoulder brace (1 item) <sup>b</sup>	€81.93	€8.19 <sup>a</sup>	€65.87	€97.99	€81.93	€8.19	SM14
172	uc_cost_INHS_funded_Tripod_Quadruped_Stick	Parameters (L313)	Unit cost INHS-funded tripod/quadruped stick (1 item) (1 item) <sup>b</sup>	€7.76	€0.78 <sup>a</sup>	€6.24	€9.27	€7.76	€0.78	SM16
173	Yealy_cost_Intratecal_pump_implant_Rehab_only	Parameters (L318)	Yearly cost share 5-year cost INHS-funded intratecal pump implant Baclofen patient on Rehab <sup>b</sup>	€1391.25	€139.12 <sup>a</sup>	€1118.57	€1663.93	€ 1391.25	€139.12	SM18,SM19

INHS=Italian National Health Service; LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Due to the lack of an analytically calculated SE, a CV=10% of the sample mean has been imposed (SM9, SM10).

<sup>b</sup> Assumed useful life: 5 years.

**Table SM22 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic) (Costs in € 2018)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Mean	SE	LL 95% CI	UL 95% CI	Parameters Normal distribution per PSA		Source
								Mean	SE	
<b>Non-healthcare resources - Unit costs</b>										
174	uc_Pkg_per_minute	Parameters (L238)	Unit cost per minute car parking	€0.05	€0.01 <sup>a</sup>	€10.38	€15.44	€0.05	€0.01	SM20
175	uc_Car_per_km	Parameters (L239)	Unit cost per kilometer car <sup>b</sup>	€0.42	€0.04 <sup>a</sup>	€0.33	€0.50	€0.42	€0.04	SM21
176	uc_Home_paid_help_minute	Parameters (L240)	Unit cost per minute home helper/housekeeper	€0.17	€0.02 <sup>a</sup>	€0.14	€0.21	€0.17	€0.02	SM22-SM24
177	uc_minute_Patient_time	Parameters (L241)	Unit cost per minute patient's time	€0.45	€0.04 <sup>a</sup>	€0.36	€0.54	€0.45	€0.04	SM22,SM25-SM27
178	uc_minute_Caregiver_time	Parameters (L242)	Unit cost per minute caregiver's time	€0.45	€0.04 <sup>a</sup>	€0.36	€0.54	€0.45	€0.04	SM22,SM25-SM27

km=kilometer; LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Due to the lack of an analytically calculated SE, a CV=10% of the sample mean has been imposed (SM9., SM10.).

<sup>b</sup> Patient has been assumed to be transported with the following car: Fiat Punto 1.2 69 CV (SM21).

**Table SM23 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations	Mean	SE	LL 95% CI	UL 95% CI	Parameters Beta distribution for PSA		Source
									Alfa	Beta	
<b>Utility</b>											
179	First_year_utility_Rehab_only	Parameters (L193)	Utility patient on Rehab (year 1)	67	0.600	0.060	0.481	0.714	40	27	SM28
180	Second_year_utility_Rehab_only	Parameters (L194)	Utility patient on Rehab (year 2)	66	0.640	0.088	0.521	0.751	42	24	SM28

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; SMR=Standardized Mortality Ratio; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Number of patients on rehab only out of 930 patients followed by physiatrists who coauthored this research. In the second year, the number of observations is adjusted for the SMR.

**Table SM24 – Parameters with statistical distribution for base case and sensitivity analyses (one-way and probabilistic)**

Parameter number	Parameter name	Spreadsheet (point estimate cell)	Parameter description	Observations <sup>a</sup>	Mean	SE	LL 95% CI	UL 95% CI	Parameters Normal distribution per PSA		Source
									Mean	SE	
<b>Utility</b>											
181	Utility_multiplier_BoNT_A	Parameters (L261)	Utility multiplier (years 1 and 2) patient on Rehab/aboBoNT-A	864	1.41	0.141 <sup>b</sup>	1.133	1.685	1.41	0.141	Physiatrists' opinion

LL 95% CI=lower limit 95% confidence interval; PSA=Probabilistic Sensitivity Analysis; CV=coefficient of variation; Rehab=rehabilitation; Rehab/aboBoNT-A=abobotulinumtoxinA + rehabilitation; SE=standard error; UL 95% CI= upper limit 95% confidence interval.

<sup>a</sup> Number of patients considered for parameter calculation out of 930 patients followed by physiatrists who coauthored this research.

<sup>b</sup> Due to the lack of an analytically calculated SE, a CV=10% of the sample mean has been imposed (SM9, SM10).



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