Table 21: Clinical evidence profile: bilateral pallidal deep brain stimulation versus pre-operative

Quality assessment							Nº of patients		Effect			
№ of studie s	Study design	Risk of bias	Inconsisten cy	Indirectnes s	Imprecisio n	Other consideratio ns	Bilateral pallidal deep brain stimulatio n	preoperativ e	Relativ e (95% CI)	Absolut e (95% CI)	Quality	Importance
HRQoL	HRQoL (follow up: range 1 years to 4 years; assessed with: SF-36 General Health; Scale from: 0 to 100; Higher better)											
2	observation al studies	not seriou s	not serious	not serious	serious ²	none	28	28	-	HRQoL after DBS ranged from 3.30 higher to 10.54 higher	VERY LOW	CRITICAL
HRQoL	(follow up: ra	nge 1 ye	ars to 4 years	; assessed w	ith: SF-36 P	hysical Function	oning; Scale	from: 0 to 10	0; Higher	better)		
2	observation al studies	not seriou s	serious b	not serious	serious ²	none	28	28	-	HRQoL after DBS ranged from 3.46 higher to 30.00 higher	VERY LOW	CRITICAL
HRQoL	(follow up: ra	inge 1 ye	ars to 4 years	; assessed w	vith: SF-36 R	ole (Physical);	Scale from:	0 to 100; Hig	her bette	r)		

FINAL Management of abnormal muscle tone in adults aged 19 and over with cerebral palsy

Quality	assessment						Nº of patie	nts	Effect			
№ of studie s	Study design	Risk of bias	Inconsisten cy	Indirectnes s	Imprecisio n	Other considerations	Bilateral pallidal deep brain stimulatio n	preoperativ e	Relativ e (95% CI)	Absolut e (95% CI)	Quality	Importance
2	observation al studies	not seriou s	not serious	not serious	serious ²	none	28	28	-	HRQoL after DBS ranged from 4.62 higher to 43.40 higher	VERY LOW	CRITICAL
HRQoL	. (follow up: ra	inge 1 ye	ars to 4 years	; assessed v	vith: SF-36 R	Role (Emotiona	l); Scale fror	n: 0 to 100; H	igher bet	ter)		
2	observation al studies	not seriou s	not serious	not serious	serious ²	none	28	28	-	HRQoL after DBS ranged from 23.09 higher to 29.10 higher)	VERY LOW	CRITICAL
HRQoL	. (follow up: ra	inge 1 ye	ars to 4 years	; assessed v	vith: SF-36 S	ocial Function	ing; Scale fr	om: 0 to 100;	Higher b	etter)		
2	observation al studies	not seriou s	not serious	not serious	serious ²	none	28	28	-	HRQoL after DBS ranged from 0.96 higher to 23.40 higher	VERY LOW	CRITICAL
HRQoL	. (follow up: ra	inge 1 ye	ars to 4 years	; assessed v	vith: SF-36 B	Body pain; Scal	e from: 0 to	100; Higher k	etter)			
2	observation al studies	not seriou s	not serious	not serious	serious ²	none	28	28	-	HRQoL after DBS ranged from 18.54 higher to 36.80 higher	VERY LOW	CRITICAL

FINAL Management of abnormal muscle tone in adults aged 19 and over with cerebral palsy

Quality	assessment						Nº of patie	nts	Effect			
№ of studie s	Study design	Risk of bias	Inconsisten cy	Indirectnes s	Imprecisio n	Other consideratio	Bilateral pallidal deep brain stimulatio n	preoperativ e	Relativ e (95% CI)	Absolut e (95% CI)	Quality	Importance
2	observation al studies	not seriou s	not serious	not serious	serious ³	none	28	28	-	HRQoL after DBS ranged from 2.31 higher to 15.70 higher	VERY LOW	CRITICAL
HRQoL	(follow up: ra	nge 1 ye	ars to 4 years	; assessed w	vith: SF-36 N	lental health; S	Scale from: 0) to 100; High	er better)			
2	observation al studies	not seriou s	not serious	not serious	serious ²	none	28	28	-	HRQoL after DBS ranged from 8.92 higher to 15.70 higher	VERY LOW	CRITICAL
Dyston	ia (follow up:	range 6 ı	months to 4 ye	ears; assess	ed with: Bur	ke-Fahn-Marsd	len moveme	nt scale; Sca	le from: 0	to 120; Lo	ower bette	r)
4	observation al studies	not seriou s	not serious	not serious	serious ²	none	42	42	-	Dystonia after DBS ranged from 7.60 lower to 35.40 lower	VERY LOW	CRITICAL
Dyston	ia (follow up:	range 6 ı	months to 4 ye	ears; assess	ed with: Bur	ke-Fahn-Marsd	len disability	y scale ; Scal	e from: 0	to 30; Low	ver better)	
4	observation al studies	not seriou s	not serious	not serious	serious ²	none	42	42	-	Dystonia after DBS ranged from 0.40 lower to 6.60 lower	VERY LOW	CRITICAL
Satisfa	ction - not rep	orted										
-	-	-	-	-	-	-	-	-	-	-	-	CRITICAL
Motor f	unction - not	reported										

FINAL Management of abnormal muscle tone in adults aged 19 and over with cerebral palsy

Quality	Quality assessment						Nº of patie	nts	Effect			
№ of studie s	Study design	Risk of bias	Inconsisten cy	Indirectnes s	Imprecisio n	Other consideratio ns	Bilateral pallidal deep brain stimulatio n	preoperativ e	Relativ e (95% CI)	Absolut e (95% CI)	Quality	Importance
-	-	-	-	-	-	-	-	-	-	-	-	IMPORTA NT
Advers	e events - Hy	oophonia	a (follow up: 4	years)								
1	observation al studies	seriou s ⁴	not serious	not serious	serious ²	none	Rate was 2	2/15 (13%)			VERY LOW	IMPORTA NT
Advers	e events - Dys	sarthria (follow up: 4 y	ears)								
1	observation al studies	seriou s ⁴	not serious	not serious	serious ²	none	Rate was 4	/15 (27%)		VERY LOW	IMPORTA NT	
Advers	e events - Loc	cal pain (follow up: ran	ige 1 years to	4 years)							
2	observation al studies	seriou s ⁴	not serious	not serious	serious ²	none	Rate range	d from 1/13 (8	5 (13%)	VERY LOW	IMPORTA NT	
Advers	e events - Par	aesthesi	a (follow up:	4 years)								
1	observation al studies	seriou s ⁴	not serious	not serious	serious ²	none	Rate was 2	2/15 (13%)		VERY LOW	IMPORTA NT	
Advers	e events - An	xiety (fol	low up: 1 year	rs)								
1	observation al studies	seriou s ⁴	not serious	not serious	serious ²	none	Rate was 5	5/13 (38%)			VERY LOW	IMPORTA NT
Advers	e events - Stir	mulation	adjusted due	to insufficier	nt benefit (fo	llow up: 1 year	rs)					
1	observation al studies	seriou s ⁴	not serious	not serious	serious ²	none	Rate was 4	/13 (31%)		VERY LOW	IMPORTA NT	
Advers	e events - Stir	mulator f	ailure (exposi	ure to magne	tic field) (fol	low up: 1 years	s)					
1	observation al studies	seriou s ⁴	not serious	not serious	serious ²	none	Rate was 1	/13 (8%)		VERY LOW	IMPORTA NT	
Goal at	ttainment sco	res - not	reported									
-	-	-	-	-	-	-	-	-	-	-	-	IMPORTA NT

FINAL Management of abnormal muscle tone in adults aged 19 and over with cerebral palsy

Quality assessment							№ of patients		Effect			
№ of studie s	Study design	Risk of bias	Inconsisten cy	Indirectnes s	Imprecisio n	Other consideratio ns	Bilateral pallidal deep brain stimulatio n	preoperativ e	Relativ e (95% CI)	Absolut e (95% CI)	Quality	Importance
1	observation al studies	not seriou s	not serious	not serious	serious ²	none	13	13	-	MD 0.93 lower (2.79 lower to 0.93 higher)	VERY LOW	IMPORTA NT