APPENDIX 3: Unified Dystonia Rating Scale (UDRS)

Factor/area	Criteria			
Duration				
0	None			
0.5	Occasional (<25% of the time); predominantly submaximal			
1.0	Occasional (<25% of the time); predominantly maximal			
1.5	Intermittent (25–50% of the time); predominantly submaximal			
2.0	Intermittent (25–50% of the time); predominantly maximal			
2.5	Frequent (50–75% of the time); predominantly submaximal			
3.0	Frequent (50–75% of the time); predominantly maximal			
3.5	Constant (>75% of the time); predominantly submaximal			
4.0	Constant (>75% of the time); predominantly maximal			
Motor severity				
Eyes and upper face				
0	None			
1	Mild: increased blinking or slight forehead wrinkling (≤25% maximal intensity)			
2	Moderate: eye closure without squeezing or pronounced forehead wrinkling (>25% but ≤50% maximal intensity)			
3	Severe: eye closure with squeezing, able to open eyes within 10 seconds or marked forehead wrinkling (>50% but ≤75% maximal intensity)			
4	Extreme: eye closure with squeezing, unable to open eyes within 10 seconds or intense forehead wrinkling (>75% maximal intensity)			
Lower face	\$ C			
0	None			
1	Mild: grimacing of lower face with minimal distortion of mouth (≤25% maximal)			
2	Moderate: grimacing of lower face with moderate distortion of mouth (>25% but ≤50% maximal)			
3	Severe: marked grimacing with severe distortion of mouth (>50% but ≤75% maximal)			
4	Extreme: intense grimacing with extreme distortion of mouth (>75% maximal)			
Jaw and tongue				
0	None			
1	Mild: jaw opening or tongue protrusion ≤25% of possible range or forced jaw clenching without bruxism			
2	Moderate: jaw opening or tongue protrusion >25% but ≤50% of possible range or forced jaw clenching with mild bruxism secondary to dystonia			
3	Severe: jaw opening and/or tongue protrusion >50% but ≤75% of possible range or forced jaw clenching with pronounced bruxism secondary to dystonia			
4	Extreme: jaw opening or tongue protrusion >75% of possible range or forced jaw clenching with inability to open mouth			
Larynx	with machity to open mount			
0	None			
1	Mild: barely detectable hoarseness or choked voice or occasional voice breaks			
2	Moderate: obvious hoarseness or choked voice or frequent voice breaks			
3	Severe: marked hoarseness or choked voice or continuous voice breaks			
4	Extreme: unable to vocalize			
Neck	Zintonio, analo to robanzo			
0	None			
1	Mild: movement of head from neutral position ≤25% of possible normal range			
2	Moderate: movement of head from neutral position $>25\%$ but $\le 50\%$ of possible normal range			
3	Severe: movement of head from neutral position >50% but ≤75% of possible normal range			
4	Extreme: movement of head from neutral position >75% of possible normal range			
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APPENDIX 3: (Continued)

Factor/area	Criteria			
Shoulder and proximal arm (right and				
left)				
0	None			
1	Mild: movement of shoulder or upper arm ≤25% of possible normal range			
2	Moderate: movement of shoulder or upper arm 25% but ≤50% of possible normal range			
3	Severe: movement of shoulder or upper arm 50% but ≤75% of possible normal range			
4	Extreme: movement of shoulder or upper arm 75% of possible normal range			
Distal arm and hand including elbow				
(right and left)				
0	None			
1	Mild: movement of distal arm or hand ≤25% of possible normal range			
2	Moderate: movement of distal arm or hand 25% but ≤50% of possible normal range			
3	Severe: movement of distal arm or hand 50% but ≤75% of possible normal range			
4	Extreme: movement of distal arm or hand 75% of possible normal range			
Pelvis and proximal leg (right and left)				
0	None			
1	Mild: tilting of pelvis or movement of proximal leg or hip ≤25% of possible normal range			
2	Moderate: tilting of pelvis or movement of proximal leg or hip 25% but ≤50% of possible normal range			
3	Severe: tilting of pelvis or movement of proximal leg or hip 50% but ≤75% of possible normal range			
4	Extreme: tilting of pelvis or movement of proximal leg or hip 75% of possible normal range			
Distal leg and foot including knee (right and left)				
0	None			
1	Mild: movements of distal leg or foot $\leq 25\%$ of possible normal range			
2	Moderate: movements of distal leg or foot 25% but ≤50% of possible normal range			
3	Severe: movements of distal leg or foot 50% but ≤75% of possible normal range			
4	Extreme: movements of distal leg or foot 75% of possible normal range			
Trunk				
0	None			
1	Mild: bending of trunk ≤25% of possible normal range			
2	Moderate: bending of trunk 25% but ≤50% of possible normal range			
3	Severe: bending of trunk $>50\%$ but $\le 75\%$ of possible normal range			
4	Extreme: bending of trunk >75% of possible normal range			

APPENDIX 4A. Fahn Marsden rating scale

Region	Provoking factor	Severity factor	Weight	Product
Eyes	0–4	×0–4	0.5	0–8
Mouth	0–4	×0–4	0.5	0–8
Speech and swallow	0–4	×0–4	1.0	0-16
Neck	0–4	×0–4	0.5	0–8
Arm (R)	0–4	×0–4	1.0	0-16
Arm (L)	0–4	×0–4	1.0	0-16
Trunk	0–4	×0–4	1.0	0-16
Leg (R)	0–4	×0–4	1.0	0-16
Leg (L)	0–4	×0–4	1.0	0-16
Sum				Max 120