

CLINICAL EVALUATION

ID ____ - ____

CASE DETAILS

Age: _____

Gender:

- Male
 Female

Diagnosis: _____

Years of disease history: _____

Predominant side:

- Left
 Right

Date of implant: _____

Target structure: _____

VITAL SIGNS

Parameter	Unit	Value
Weight	Kg	
Height	m	
BMI	Kg/m ²	
Temperature	C	
Pulse	descriptive	
Systolic Blood Pressure	mmHg	
Diastolic blood pressure	mmHg	
Heart rate	bpm	
ECG	Report (qualitative)	

UPDRS MOTOR EXAMINATION

1. Speech

- 0 Normal.
- 1 Slight loss of expression, diction and/or volume.
- 2 Monotone, slurred but understandable; moderately impaired.
- 3 Marked impairment, difficult to understand.
- 4 Unintelligible.

2. Facial expression

- 0 Normal.
- 1 Minimal hypomimia, could be normal 'poker face'.
- 2 Slight but definitely abnormal diminution of facial expression.
- 3 Moderate hypomimia; lips parted some of the time.
- 4 Masked or fixed facies with severe or complete loss of facial expression; lips parted ¼ inch or more.

3a. Tremor at rest – Face, lips, chin

- 0 Absent.
- 1 Slight and infrequently present.
- 2 Mild in amplitude and persistent; or moderate in amplitude, but only intermittently present.
- 3 Moderate in amplitude and present most of the time.
- 4 Marked in amplitude and present most of the time.

3b. Tremor at rest – Right hand

- 0 Absent.
- 1 Slight and infrequently present.
- 2 Mild in amplitude and persistent; or moderate in amplitude, but only intermittently present.
- 3 Moderate in amplitude and present most of the time.
- 4 Marked in amplitude and present most of the time.

3c. Tremor at rest – Left hand

- 0 Absent.
- 1 Slight and infrequently present.
- 2 Mild in amplitude and persistent; or moderate in amplitude, but only intermittently present.
- 3 Moderate in amplitude and present most of the time.
- 4 Marked in amplitude and present most of the time.

3d. Tremor at rest – Right foot

- 0 Absent.
- 1 Slight and infrequently present.
- 2 Mild in amplitude and persistent; or moderate in amplitude, but only intermittently present.
- 3 Moderate in amplitude and present most of the time.
- 4 Marked in amplitude and present most of the time.

3e. Tremor at rest – Left foot

- 0 Absent.
- 1 Slight and infrequently present.
- 2 Mild in amplitude and persistent; or moderate in amplitude, but only intermittently present.
- 3 Moderate in amplitude and present most of the time.
- 4 Marked in amplitude and present most of the time.

4a. Action or postural tremor of hands – Right hand

- 0 Absent.

- 1 Slight; present with action.
- 2 Moderate in amplitude, present with action.
- 3 Moderate in amplitude with posture holding as well as action.
- 4 Marked in amplitude; interferes with feeding.

4b. Action or postural tremor of hands – Left hand

- 0 Absent.
- 1 Slight; present with action.
- 2 Moderate in amplitude, present with action.
- 3 Moderate in amplitude with posture holding as well as action.
- 4 Marked in amplitude; interferes with feeding.

5a. Rigidity – Neck (judged on passive movement of major joints with patient relaxed in sitting position; cogwheeling to be ignored)

- 0 Absent.
- 1 Slight or detectable only when activated by mirror or other movements.
- 2 Mild to moderate.
- 3 Marked, but full range of motion easily achieved.
- 4 Severe; range of motion achieved with difficulty.

5b. Rigidity – Right upper extremity (judged on passive movement of major joints with patient relaxed in sitting position; cogwheeling to be ignored)

- 0 Absent.
- 1 Slight or detectable only when activated by mirror or other movements.
- 2 Mild to moderate.
- 3 Marked, but full range of motion easily achieved.
- 4 Severe; range of motion achieved with difficulty.

5c. Rigidity – Left upper extremity (judged on passive movement of major joints with patient relaxed in sitting position; cogwheeling to be ignored)

- 0 Absent.
- 1 Slight or detectable only when activated by mirror or other movements.
- 2 Mild to moderate.
- 3 Marked, but full range of motion easily achieved.
- 4 Severe; range of motion achieved with difficulty.

5d. Rigidity – Right lower extremity (judged on passive movement of major joints with patient relaxed in sitting position; cogwheeling to be ignored)

- 0 Absent.
- 1 Slight or detectable only when activated by mirror or other movements.
- 2 Mild to moderate.
- 3 Marked, but full range of motion easily achieved.
- 4 Severe; range of motion achieved with difficulty.

5e. Rigidity – Left lower extremity (judged on passive movement of major joints with patient relaxed in sitting position; cogwheeling to be ignored)

- 0 Absent.
- 1 Slight or detectable only when activated by mirror or other movements.
- 2 Mild to moderate.
- 3 Marked, but full range of motion easily achieved.
- 4 Severe; range of motion achieved with difficulty.

6a. Finger taps – Right hand (patient taps thumb with index finger in rapid succession)

- 0 Normal.

- 1 Mild showing and/or reduction in amplitude.
- 2 Moderately impaired; definite and early fatiguing; may have occasional arrests in movement.
- 3 Severely impaired; frequent hesitation in initiating movements or arrests in ongoing movement.
- 4 Can barely perform the task.

6b. Finger taps – Left hand (patient taps thumb with index finger in rapid succession)

- 0 Normal.
- 1 Mild showing and/or reduction in amplitude.
- 2 Moderately impaired; definite and early fatiguing; may have occasional arrests in movement.
- 3 Severely impaired; frequent hesitation in initiating movements or arrests in ongoing movement.
- 4 Can barely perform the task.

7a. Hand movements – Right hand (patient opens and closes hands in rapid succession)

- 0 Normal.
- 1 Mild showing and/or reduction in amplitude.
- 2 Moderately impaired; definite and early fatiguing; may have occasional arrests in movement.
- 3 Severely impaired; frequent hesitation in initiating movements or arrests in ongoing movement.
- 4 Can barely perform the task.

7b. Hand movements – Left hand (patient opens and closes hands in rapid succession)

- 0 Normal.
- 1 Mild showing and/or reduction in amplitude.
- 2 Moderately impaired; definite and early fatiguing; may have occasional arrests in movement.
- 3 Severely impaired; frequent hesitation in initiating movements or arrests in ongoing movement.
- 4 Can barely perform the task.

8a. Rapid alternating movements of hands – Right hand (pronation-supination movements of hands, vertically and horizontally, with as large an amplitude as possible, both hands simultaneously)

- 0 Normal.
- 1 Mild showing and/or reduction in amplitude.
- 2 Moderately impaired; definite and early fatiguing; may have occasional arrests in movement.
- 3 Severely impaired; frequent hesitation in initiating movements or arrests in ongoing movement.
- 4 Can barely perform the task.

8b. Rapid alternating movements of hands – Left hand (pronation-supination movements of hands, vertically and horizontally, with as large an amplitude as possible, both hands simultaneously)

- 0 Normal.
- 1 Mild showing and/or reduction in amplitude.
- 2 Moderately impaired; definite and early fatiguing; may have occasional arrests in movement.
- 3 Severely impaired; frequent hesitation in initiating movements or arrests in ongoing movement.
- 4 Can barely perform the task.

9a. Leg agility – Right leg (patient taps heel on the ground in rapid succession, picking up entire leg; amplitude should be at least 3 inches)

- 0 Normal.
- 1 Mild showing and/or reduction in amplitude.
- 2 Moderately impaired; definite and early fatiguing; may have occasional arrests in movement.
- 3 Severely impaired; frequent hesitation in initiating movements or arrests in ongoing movement.
- 4 Can barely perform the task.

9b. Leg agility – Left leg (patient taps heel on the ground in rapid succession, picking up entire leg; amplitude should be at least 3 inches)

- 0 Normal.

- 1 Mild showing and/or reduction in amplitude.
- 2 Moderately impaired; definite and early fatiguing; may have occasional arrests in movement.
- 3 Severely impaired; frequent hesitation in initiating movements or arrests in ongoing movement.
- 4 Can barely perform the task.

10. Arising from chair (patient attempts to rise from a straight-backed chair, with arms folded across chest)

- 0 Normal.
- 1 Slow; or may need more than one attempt.
- 2 Pushes self up from arms of seat.
- 3 Tends to fall back and may have to try more than one time, but can get up without help.
- 4 Unable to arise without help.

11. Posture

- 0 Normal.
- 1 Not quite erect, slightly stooped posture; could be normal for older person.
- 2 Moderately stooped posture, definitely abnormal; can be slightly leaning to one side.
- 3 Severely stooped posture with kyphosis; can be moderately leaning to one side.
- 4 Marked flexion with extreme abnormality of posture.

12. Gait

- 0 Normal.
- 1 Walks slowly; may shuffle with short steps, but no festination or propulsion.
- 2 Walks with difficulty, but requires little or no assistance; may have some festination, short steps or propulsion.
- 3 Severe disturbance of gait requiring assistance.
- 4 Cannot walk at all, even with assistance.

13. Posture stability (response to sudden, strong posterior displacement produced by pull on shoulders while patient erect with eyes open and feet slightly apart; patient is prepared)

- 0 Normal erect.
- 1 Retropulsion, but recovers unaided.
- 2 Absence of postural response; would fall if not caught by examiner.
- 3 Very unstable, tends to lose balance spontaneously.
- 4 Unable to stand without assistance.

14. Body bradykinesia and hypokinesia (combining slowness, hesitancy, decreased arm swing, small amplitude, and poverty of movement in general)

- 0 None.
- 1 Minimal slowness, giving movement a deliberate character; could be normal for some persons; possibly reduced amplitude.
- 2 Mild degree of slowness and poverty of movement which is definitely abnormal. Alternatively, some reduced amplitude.
- 3 Moderate slowness, poverty or small amplitude of movement.
- 4 Marked slowness, poverty or small amplitude of movement.

Score:

INTENSITY SCALE: IMPAIRMENT

0=No dyskinesia

1=Questionable or mild dyskinesia

2=Moderate dyskinesia with movements which are not intrusive nor distort voluntary movements

3=Severe dyskinesia which disturbs but does not prohibit posture or voluntary movements

4=Incapacitating dyskinesia which prohibits some postures and voluntary movements

IMPAIRMENT SCORE	Communication	Ambulation	Highest score
FACE			
NECK			
R ARM/SHOULDER			
L ARM/SHOULDER			
TRUNK			
R LEG/HIP			
L LEG/HIP			

DISABILITY SCALE

Communication

- 0 No dyskinesia
- 1 Dyskinesia present but does not impair communication
- 2 Dyskinesia impairs communication but patient is fully understandable
- 3 Dyskinesia interferes with communication such that parts of communication cannot be understood but overall content is understandable
- 4 Dyskinesia interferes with comprehension of overall communication

Ambulation

- 0 No dyskinesia observed
- 1 Mild dyskinesia present but does not alter normal synchrony or cadence
- 2 Dyskinesia is present which alters the normal cadence of rising, sitting or walking but does not slow overall performance.
- 3 Dyskinesia is present which disrupts or distorts arising, sitting or walking. Performance is slowed. Patient is able to rise and walk without imminent danger of falling.
- 4 Dyskinesia prohibits walking safely without assistance

Score:

Considering all of the activities above:

Patient exhibits: (check all applicable answers)

- On dyskinesia
- Off dystonia
- Transition state (neither clearly On or Off)
- No dyskinesia or dystonia

What movements were seen? (check all types)

- chorea
- dystonia
- Other

The predominant dyskinesia was (check one)

- chorea
- dystonia
- Other