### **MDS-UPDRS**

The Movement Disorder Society (MDS)-sponsored new version of the UDPRS is founded on the critique that was formulated by the Task Force for Rating Scales in Parkinson's disease (*Mov Disord* 2003;18:738-750). Thereafter, the MDS recruited a Chairperson to organize a program to provide the Movement Disorder community with a new version of the UDPRS that would maintain the overall format of the original UPDRS, but address issues identified in the critique as weaknesses and ambiguities. The Chairperson identified subcommittees with chairs and members. Each part was written by the appropriate subcommittee members and then reviewed and ratified by the entire group. These members are listed below.

The MDS UPDRS has four parts: Part I (non-motor experiences of daily living), Part II (motor experiences of daily living, Part III (motor examination) and Part IV (motor complications). Part I has two components: IA concerning a number of behaviors that are assessed by the investigator with all pertinent information from patients and caregivers and IB that is completed by the patient with or without the aid of the caregiver, but independently of the investigator. It can, however, be reviewed by the rater to ensure that all questions are answered clearly and the rater can help explain any perceived ambiguities. Part II is designed to be a self-administered questionnaire like Part IB, but can be reviewed by the investigator to ensure completeness and clarity. Of note, the official versions of Part1A, Part1B and Part2 of the MDS-UPDRS do not have separate on or off ratings. However, for individual programs or protocols the same questions can be used separately for on and off. Part III has instructions for the rater to give or demonstrate to the patient; it is completed by the rater. Part IV has instructions for the rater and also instructions to be read to the patient. This part integrates patient-derived information with the rater's clinical observations and judgments and is completed by the rater.

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### Part I: Non-Motor Aspects of Experiences of Daily Living (nM-EDL)

Overview: This portion of the scale assesses the non-motor impact of Parkinson's disease (PD) on patients' experiences of daily living. There are 13 questions. Part 1A is administered by the rater (six questions) and focuses on complex behaviors. Part 1B is a component of the self-administered Patient Questionnaire that covers seven questions on non-motor experiences of daily living.

#### Part 1A:

In administering Part IA, the examiner should use the following guidelines:

- 1. Mark at the top of the form the primary data source as patient, caregiver, or patient and caregiver in equal proportion.
- 2. The response to each item should refer to a period encompassing the prior week including the day on which the information is collected.
- 3. All items must have an integer rating (no half points, no missing scores). In the event that an item does not apply or cannot be rated (e.g., amputee who cannot walk), the item is marked UR for Unable to Rate.
- 4. The answers should reflect the usual level of function and words such as "usually", "generally", "most of the time" can be used with patients.
- 5. Each question has a text for you to read (Instructions to patients/caregiver). After that statement, you can elaborate and probe based on the target symptoms outlined in the Instructions to examiner. You should NOT READ the RATING OPTIONS to the patient/caregiver, because these are written in medical terminology. From the interview and probing, you will use your medical judgment to arrive at the best response.
- Patients may have co-morbidities and other medical conditions that can affect their function. You and the patient must rate the problem as it exists and do not attempt to separate elements due to Parkinson's disease from other conditions.

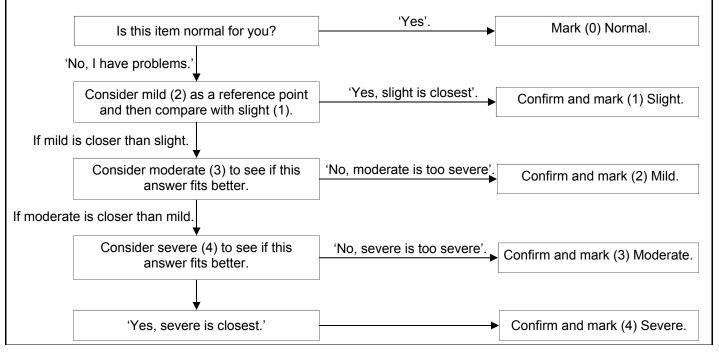
### **EXAMPLE OF NAVIGATING THROUGH THE RESPONSE OPTIONS FOR PART 1A**

Suggested strategies for obtaining the most accurate answer:

After reading the instructions to the patient, you will need to probe the entire domain under discussion to determine Normal vs. problematic: If your questions do not identify any problem in this domain, record 0 and move on to the next question.

If your questions identify a problem in this domain, you should work next with a reference anchor at the mid-range (option 2 or Mild) to find out if the patient functions at this level, better or worse. You will not be reading the choices of responses to the patient as the responses use clinical terminology. You will be asking enough probing questions to determine the response that should be coded.

Work up and down the options with the patient to identify the most accurate response, giving a final check by excluding the options above and below the selected response.



Patient Name or Subject ID	Site ID	(mm-dd-yyyy) Assessment Date	Investigator's Initials

MDS UPDRS Part I: Non-Motor Aspects of Experiences of Daily Living (nM-EDL)			
Part 1A: Complex behaviors: [completed by rater]			
Primary source of in	formation:		
☐ Patient	☐ Caregiver ☐ Patient and Caregiver in Equal Proportion		
To be read to the patient: I am going to ask you six questions about behaviors that you may or may not experience. Some questions concern common problems and some concern uncommon ones. If you have a problem in one of areas, please choose the best response that describes how you have felt MOST OF THE TIME during the PAST WEEK. If you are not bothered by a problem, you can simply respond NO. I am trying to be thorough, so I may as questions that have nothing to do with you.			
1.1 COGNITIVE IM	PAIRMENT	SCORE	
impaired reasoning, daily living as percei Instructions to patien following conversation	iner: Consider all types of altered level of cognitive function including cognitive slowing, memory loss, deficits in attention and orientation. Rate their impact on activities of ved by the patient and/or caregiver.  Ints [and caregiver]: Over the past week have you had problems remembering things, cons, paying attention, thinking clearly, or finding your way around the house or in town? Its patient or caregiver to elaborate and probes for information]		
[,,	γ		
0: Normal:	No cognitive impairment.		
1: Slight:	Impairment appreciated by patient or caregiver with no concrete interference with the patient's ability to carry out normal activities and social interactions.		
2: Mild:	Clinically evident cognitive dysfunction, but only minimal interference with the patient's ability to carry out normal activities and social interactions.		
3: Moderate:	Cognitive deficits interfere with but do not preclude the patient's ability to carry out normal activities and social interactions.		
4: Severe:	Cognitive dysfunction precludes the patient's ability to carry out normal activities and social interactions.		

1.2 HALLUCINATI	SCORE	
Instructions to examinallucinations (spon auditory, tactile, olfa presence or fleeting sensations. Rate the thinking.		
	nts [and caregiver]: Over the past week have you seen, heard, smelled or felt really there? [If yes, examiner asks patient or caregiver to elaborate and on]	
0: Normal:	No hallucinations or psychotic behaviour.	
1: Slight:	Illusions or non-formed hallucinations, but patient recognizes them without loss of insight.	
2: Mild:	Formed hallucinations independent of environmental stimuli. No loss of insight.	
3: Moderate:	Formed hallucinations with loss of insight.	
4: Severe:	Patient has delusions or paranoia.	
1.3 DEPRESSED	MOOD.	
Instructions to exam loss of enjoyment. I	niner: Consider low mood, sadness, hopelessness, feelings of emptiness or Determine their presence and duration over the past week and rate their e patient's ability to carry out daily routines and engage in social interactions.	
unable to enjoy thin difficult for you carry	tient (and caregiver): Over the past week have you felt low, sad, hopeless or gs? If yes, was this feeling for longer than one day at a time? Did it make it out your usual activities or to be with people? If yes, examiner asks patient or te and probes for information]	
0: Normal:	No depressed mood.	
1: Slight:	Episodes of depressed mood that are not sustained for more than one day at a time. No interference with patient's ability to carry out normal activities and social interactions.	
2: Mild:	Depressed mood that is sustained over days, but without interference with normal activities and social interactions.	
3: Moderate:	Depressed mood that interferes with, but does not preclude, the patient's ability to carry out normal activities and social interactions.	
4: Severe:	Depressed mood precludes patient's ability to carry out normal activities and social interactions.	

1.4 ANXIOUS MOOD				
<u>Instructions to examiner:</u> Determine nervous, tense, worried or anxious feelings (including panic attacks) over the past week and rate their duration and interference with the patient's ability to carry out daily routines and engage in social interactions.				
<u>Instructions to patients [and caregiver]:</u> Over the past week have you felt nervous, worried or tense? If yes, was this feeling for longer than one day at a time? Did it make it difficult for you to follow your usual activities or to be with other people? [If yes, examiner asks patient or caregiver to elaborate and probes for information.]				
0: Normal: No anxious feelings.				
1: Slight: Anxious feelings present but not sustained for more than one day at a time. No interference with patient's ability to carry out normal activities and social interactions.				
2: Mild: Anxious feelings are sustained over more than one day at a time, but without interference with patient's ability to carry out normal activities and social interactions.				
3: Moderate: Anxious feelings interfere with, but do not preclude, the patient's ability to carry out normal activities and social interactions.				
4: Severe: Anxious feelings preclude patient's ability to carry out normal activities and social interactions.				
1.5 APATHY				
<u>Instructions to examiner:</u> Consider level of spontaneous activity, assertiveness, motivation and initiative and rate the impact of reduced levels on performance of daily routines and social interactions. Here the examiner should attempt to distinguish between apathy and similar symptoms that are best explained by depression.				
<u>Instructions to patients (and caregiver):</u> Over the past week, have you felt indifferent to doing activities or being with people? If yes, examiner asks patient or caregiver to elaborate and probes for information.]				
0: Normal: No apathy.				
Slight: Apathy appreciated by patient and/or caregiver, but no interference with daily activities and social interactions.				
2: Mild: Apathy interferes with isolated activities and social interactions.				
3: Moderate: Apathy interferes with most activities and social interactions.				
4: Severe: Passive and withdrawn, complete loss of initiative.				

1.6 FEATURES OF DOPAMINE DYSREGULATION SYNDROME	SCORE
Instructions to examiner: Consider involvement in a variety of activities including atypical or excessive gambling (e.g. casinos or lottery tickets), atypical or excessive sexual drive or interests (e.g., unusual interest in pornography, masturbation, sexual demands on partner), other repetitive activities (e.g. hobbies, dismantling objects, sorting or organizing), or taking extra non-prescribed medication for non-physical reasons (i.e., addictive behavior). Rate the impact of such abnormal activities/behaviors on the patient's personal life and on his family and social relations (including need to borrow money or other financial difficulties like withdrawal of credit cards, major family conflicts, lost time from work, or missed meals or sleep because of the activity).  Instructions to patients [and caregiver]: Over the past week, have you had unusually strong urges that are hard to control? Do you feel driven to do or think about something and find it hard to stop? [Give patient examples such as gambling, cleaning, using the computer, taking extra medicine, obsessing about food or sex, all depending on the patients.	
0: Normal: No problems present.	
Slight: Problems are present but usually do not cause any difficulties for the patient or family/caregiver.	
2: Mild: Problems are present and usually cause a few difficulties in the patient's personal and family life.	
3: Moderate: Problems are present and usually cause a lot of difficulties in the patient's personal and family life.	
4: Severe: Problems are present and preclude the patient's ability to carry out normal activities or social interactions or to maintain previous standards in personal and family life.	
The remaining questions in Part I (Non-motor Experiences of Daily Living) [Sleep, Daytime Sleepines Other Sensation, Urinary Problems, Constipation Problems, Lightheadedness on Standing, and Fatigu <b>Patient Questionnaire</b> along with all questions in Part II [Motor Experiences of Daily Living	e] are in the

<del>_</del>
Patient Questionnaire:
Instructions:
This questionnaire will ask you about your experiences of daily living.
There are 20 questions. We are trying to be thorough, and some of these questions may therefore not apply to you now or ever. If you do not have the problem, simply mark 0 for NO.
Please read each one carefully and read all answers before selecting the one that best applies to you.
We are interested in your average or usual function over the past week including today. Some patients can do things better at one time of the day than at others. However, only one answer is allowed for each question, so please mark the answer that best describes what you can do <u>most of the time</u> .
You may have other medical conditions besides Parkinson's disease. Do not worry about separating Parkinson's disease from other conditions. Just answer the question with your best response.
Use only 0, 1, 2, 3, 4 for answers, nothing else. Do not leave any blanks.
Your doctor or nurse can review the questions with you, but this questionnaire is for patients to complete, either alone or with their caregivers.
Who is filling out this questionnaire (check the best answer):  Patient Caregiver Patient and Caregiver in Equal Proportion

.7 S	LEEP PROB	BLEMS	SCOR
	•	k, have you had trouble going to sleep at night or staying asleep Consider how rested you felt after waking up in the morning.	
0:	Normal:	No problems.	
1:	Slight:	Sleep problems are present but usually do not cause trouble getting a full night of sleep.	
2:	Mild:	Sleep problems usually cause some difficulties getting a full night of sleep.	
3:	Moderate:	Sleep problems cause a lot of difficulties getting a full night of sleep, but I still usually sleep for more than half the night.	
4:	Severe:	I usually do not sleep for most of the night.	
.8 D	AYTIME SLE	EEPINESS	
		EEPINESS k, have you had trouble staying awake during the daytime?	
ver t			
ver t 0:	he past weel	k, have you had trouble staying awake during the daytime?	
0: 1:	he past weel	k, have you had trouble staying awake during the daytime?  No daytime sleepiness.	
0: 1: 2:	he past weel Normal: Slight:	k, have you had trouble staying awake during the daytime?  No daytime sleepiness.  Daytime sleepiness occurs but I can resist and I stay awake.  Sometimes I fall asleep when alone and relaxing. For example,	

1.9 P	AIN AND OTI	HER SENSATIONS	SCORE
Over the past week, have you had uncomfortable feelings in your body like pain, aches tingling or cramps?			
0:	Normal:	No uncomfortable feelings.	
<b>1</b> :	Slight:	I have these feelings. However, I can do things and be with other people without difficulty.	
2:	Mild:	These feelings cause some problems when I do things or am with other people.	
3:	Moderate:	These feelings cause a lot of problems, but they do not stop me from doing things or being with other people.	
4:	Severe:	These feelings stop me from doing things or being with other people.	
1.10	URINARY PR	OBLEMS	
	•	, have you had trouble with urine control? For example, an urgent eed to urinate too often, or urine accidents?	
0:	Normal:	No urine control problems.	
1:	Slight:	I need to urinate often or urgently. However, these problems do not cause difficulties with my daily activities.	
2:	Mild:	Urine problems cause some difficulties with my daily activities. However, I do not have urine accidents.	
3:	Moderate:	Urine problems cause a lot of difficulties with my daily activities, including urine accidents.	
4:	Severe:	I cannot control my urine and use a protective garment or have a bladder tube.	

1.11	CONSTIPATION	ON PROBLEMS	SCORE	
Over the past week have you had constipation troubles that cause you difficulty moving your bowels?				
C	): Normal:	No constipation.		
1	: Slight:	I have been constipated. I use extra effort to move my bowels. However, this problem does not disturb my activities or my being comfortable.		
2	2: Mild:	Constipation causes me to have some troubles doing things or being comfortable.		
3	: Moderate:	Constipation causes me to have a lot of trouble doing things or being comfortable. However, it does not stop me from doing anything.		
4	: Severe:	I usually need physical help from someone else to empty my bowels.		
1.12	LIGHT HEAD	EDNESS ON STANDING		
	the past weeking down?	, have you felt faint, dizzy or foggy when you stand up after sitting		
C	): Normal:	No dizzy or foggy feelings.		
1	: Slight:	Dizzy or foggy feelings occur. However, they do not cause me troubles doing things.		
2	2: Mild:	Dizzy or foggy feelings cause me to hold on to something, but I do not need to sit or lie back down.		
3	3: Moderate:	Dizzy or foggy feelings cause me to sit or lie down to avoid fainting or falling.		
4	: Severe:	Dizzy or foggy feelings cause me to fall or faint.		
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1.1	3 FATIGUE		SCORE
	er the past w epy or sad	eek, have you usually felt fatigued? This feeling is not part of being	
	0: Normal:	No fatigue.	
	1: Slight:	Fatigue occurs. However it does not cause me troubles doing things or being with people.	
	2: Mild:	Fatigue causes me some troubles doing things or being with people.	
	3: Moderate	e: Fatigue causes me a lot of troubles doing things or being with people. However, it does not stop me from doing anything.	
	4: Severe:	Fatigue stops me from doing things or being with people.	
	Part II	· Motor Aspects of Experiences of Daily Living (M.EDL)	
	Part II	: Motor Aspects of Experiences of Daily Living (M-EDL)	
2.1	Part II	: Motor Aspects of Experiences of Daily Living (M-EDL)	
	SPEECH	: Motor Aspects of Experiences of Daily Living (M-EDL)  eek, have you had problems with your speech?	
	SPEECH		
	SPEECH er the past w	eek, have you had problems with your speech?	
	SPEECH er the past w 0: Normal:	eek, have you had problems with your speech?  Not at all (no problems).  My speech is soft, slurred or uneven, but it does not cause others	
	SPEECH er the past w 0: Normal: 1: Slight:	eek, have you had problems with your speech?  Not at all (no problems).  My speech is soft, slurred or uneven, but it does not cause others to ask me to repeat myself.  My speech causes people to ask me to occasionally repeat myself, but not everyday.	
	SPEECH er the past w 0: Normal: 1: Slight: 2: Mild:	eek, have you had problems with your speech?  Not at all (no problems).  My speech is soft, slurred or uneven, but it does not cause others to ask me to repeat myself.  My speech causes people to ask me to occasionally repeat myself, but not everyday.  e: My speech is unclear enough that others ask me to repeat myself	
	SPEECH er the past w 0: Normal: 1: Slight: 2: Mild: 3: Moderate	eek, have you had problems with your speech?  Not at all (no problems).  My speech is soft, slurred or uneven, but it does not cause others to ask me to repeat myself.  My speech causes people to ask me to occasionally repeat myself, but not everyday.  e: My speech is unclear enough that others ask me to repeat myself every day even though most of my speech is understood.	

2.2 SALIVA & DR	ROOLING	SCORE
Over the past week, have you usually had too much saliva during when you are awake or when you sleep?		
0: Normal:	Not at all (no problems).	
1: Slight:	I have too much saliva, but do not drool.	
2: Mild:	I have some drooling during sleep, but none when I am awake.	
3: Moderate:	I have some drooling when I am awake, but I usually do not need tissues or a handkerchief.	
4: Severe:	I have so much drooling that I regularly need to use tissues or a handkerchief to protect my clothes.	
2.3 CHEWING AND SWALLOWING  Over the past week, have you usually had problems swallowing pills or eating meals?  Do you need your pills cut or crushed or your meals to be made soft, chopped or blended to avoid choking?		
0: Normal:	No problems.	
1: Slight:	I am aware of slowness in my chewing or increased effort at swallowing, but I do not choke or need to have my food specially prepared.	
2: Mild:	I need to have my pills cut or my food specially prepared because of chewing or swallowing problems, but I have not choked over the past week.	
3: Moderate.	I choked at least once in the past week.	
4: Severe:	Because of chewing and swallowing problems, I need a feeding tube.	

2.4 E	ATING TASK	S	SCORE
Over the past week, have you usually had troubles handling your food and using eating utensils? For example, do you have trouble handling finger foods or using forks, knifes, spoons, chopsticks?			
0	: Normal:	Not at all (No problems).	
1	: Slight:	I am slow, but I do not need any help handling my food and have not had food spills while eating.	
2	: Mild:	I am slow with my eating and have occasional food spills. I may need help with a few tasks such as cutting meat.	
3	: Moderate:	I need help with many eating tasks but can manage some alone.	
4	: Severe:	I need help for most or all eating tasks.	
2.5 D	RESSING		
slow		x, have you usually had problems dressing? For example, are you d help with buttoning, using zippers, putting on or taking off your	
0	: Normal:	Not at all (no problems).	
1	: Slight:	I am slow but I do not need help.	
2	: Mild:	I am slow and need help for a few dressing tasks (buttons, bracelets).	
3	: Moderate:	I need help for many dressing tasks.	
4	: Severe:	I need help for most or all dressing tasks.	

2.6	HYGIENE		SCORE
Over the past week, have you usually been slow or do you need help with washing, bathing, shaving, brushing teeth, combing your hair or with other personal hygiene?			
	0: Normal:	Not at all (no problems).	
	1: Slight:	I am slow but I do not need any help.	
	2: Mild:	I need someone else to help me with some hygiene tasks.	
	3: Moderate:	I need help for many hygiene tasks.	
	4: Severe:	I need help for most or all of my hygiene tasks.	
2.7 HANDWRITING			
Ove	er the past weel	k, have people usually had trouble reading your handwriting?	
	0: Normal:	Not at all (no problems).	
	1: Slight:	My writing is slow, clumsy or uneven, but all words are clear.	
	2: Mild:	Some words are unclear and difficult to read.	
	3: Moderate:	Many words are unclear and difficult to read.	
	4: Severe:	Most or all words cannot be read.	
2.8	DOING HOBB	SIES AND OTHER ACTIVITIES	
	er the past week t you like to do?	k, have you usually had trouble doing your hobbies or other things	
	0: Normal:	Not at all (no problems).	
	1: Slight:	I am a bit slow but do these activities easily.	
	2: Mild:	I have some difficulty doing these activities.	
	3: Moderate:	I have major problems doing these activities, but still do most.	
	4: Severe:	I am unable to do most or all of these activities.	

2.9	TURNING IN E	BED	SCORE
Over the past week, do you usually have trouble turning over in bed?			
	0: Normal:	Not at all (no problems).	
	1: Slight:	I have a bit of trouble turning, but I do not need any help.	
	2: Mild	I have a lot of trouble turning and need occasional help from someone else.	
	3: Moderate:	To turn over I often need help from someone else.	
	4: Severe:	I am unable to turn over without help from someone else.	
2.10	0 TREMOR		
Ove	er the past week	x, have you usually had shaking or tremor?	
	0: Normal:	Not at all. I have no shaking or tremor.	
	1: Slight:	Shaking or tremor occurs but does not cause problems with any activities.	
	2: Mild:	Shaking or tremor causes problems with only a few activities.	
	3: Moderate:	Shaking or tremor causes problems with many of my daily activities.	
	4: Severe:	Shaking or tremor causes problems with most or all activities.	
2.1 <sup>-</sup>	1 GETTING OL	JT OF BED, A CAR, OR A DEEP CHAIR	
	er the past week p chair?	x, have you usually had trouble getting out of bed, a car seat, or a	
	0: Normal:	Not at all (no problems).	
	1: Slight:	I am slow or awkward, but I usually can do it on my first try.	
	2: Mild:	I need more than one try to get up or need occasional help.	
	3: Moderate:	I sometimes need help to get up, but most times I can still do it on my own.	
	4: Severe:	I need help most or all of the time.	

2.12 WALKING AI	ND BALANCE	SCORE		
Over the past week, have you usually had problems with balance and walking?				
0: Normal:	Not at all (no problems).			
1: Slight:	I am slightly slow or may drag a leg. I never use a walking aid.			
2: Mild:	I occasionally use a walking aid, but I do not need any help from another person.			
3: Moderate:	I usually use a walking aid (cane, walker) to walk safely without falling. However, I do not usually need the support of another person.			
4: Severe:	I usually use the support of another persons to walk safely without falling.			
2.13 FREEZING				
Over the past week, on your usual day when walking, do you suddenly stop or freeze as if your feet are stuck to the floor.				
0: Normal:	Not at all (no problems).			
1: Slight:	I briefly freeze but I can easily start walking again. I do not need help from someone else or a walking aid (cane or walker) because of freezing.			
2: Mild:	I freeze and have trouble starting to walk again, but I do not need someone's help or a walking aid (cane or walker) because of freezing.			
3: Moderate:	When I freeze I have a lot of trouble starting to walk again and, because of freezing, I sometimes need to use a walking aid or need someone else's help.			
4: Severe:	Because of freezing, most or all of the time, I need to use a walking aid or someone's help.			
This completes the questionnaire. We may have asked about problems you do not even have,				

and may have mentioned problems that you may never develop at all. Not all patients develop all these problems, but because they can occur, it is important to ask all the questions to every patient. Thank you for your time and attention in completing this questionnaire.

Part III: Motor Examination				
Overview: This portion of the scale assesses the motor signs of PD. In administering Part III of the MDS-UPDRS the examiner should comply with the following guidelines:				
At the top of the form, mark whether the patient is on medication for treating the symptoms of Parkinson's disease and, if on levodopa, the time since the last dose.				
Also, if the patient is receiving medication for treating the symptoms of Parkinson's Disease, mark the patient's clinical state using the following definitions:  ON is the typical functional state when patients are receiving medication and have a good response.  OFF is the typical functional state when patients have a poor response in spite of taking medications.				
The investigator should "rate what you see". Admittedly, concurrent medical problems such as stroke, paralysis, arthritis, contracture, and orthopedic problems such as hip or knee replacement and scoliosis may interfere with individual items in the motor examination. In situations where it is absolutely impossible to test (e.g., amputations, plegia, limb in a cast), use the notation " <b>UR</b> " for Unable to Rate. Otherwise, rate the performance of each task as the patient performs in the context of co-morbidities.				
All items must have an integer rating (no half points, no missing ratings).				
Specific instructions are provided for the testing of each item. These should be followed in all instances. The investigator demonstrates while describing tasks the patient is to perform and rates function immediately thereafter. For Global Spontaneous Movement and Rest Tremor items (3.14 and 3.17), these items have been placed purposefully at the end of the scale because clinical information pertinent to the score will be obtained throughout the entire examination.				
At the end of the rating, indicate if dyskinesia (chorea or dystonia) was present at the time of the examination, and if so, whether these movements interfered with the motor examination.				
3a Is the patient on medication for treating the symptoms of Parkinson's Disease? ☐ No ☐ Yes				
3b If the patient is receiving medication for treating the symptoms of Parkinson's Disease, mark the patient's clinical state using the following definitions:				
$\square$ ON: On is the typical functional state when patients are receiving medication and have a good response.				
$\square$ OFF: Off is the typical functional state when patients have a poor response in spite of taking medications.				
3c Is the patient on Levodopa ?				

3.1 SPEECH		
<u>Instructions to examiner</u> : Listen to the patient's free-flowing speech and engage in conversation if necessary. Suggested topics: ask about the patient's work, hobbies, exercise, or how he got to the doctor's office. Evaluate volume, modulation (prosody) and clarity, including slurring, palilalia (repetition of syllables) and tachyphemia (rapid speech, running syllables together).		
0: Normal: No speech problems.		
1: Slight: Loss of modulation, diction or volume, but still all words easy to understand.		
2: Mild: Loss of modulation, diction, or volume, with a few words unclear, but the overall sentences easy to follow.		
3: Moderate: Speech is difficult to understand to the point that some, but not most, sentences are poorly understood.	;	
4: Severe: Most speech is difficult to understand or unintelligible.		
3.2 FACIAL EXPRESSION		
<u>Instructions to examiner</u> : Observe the patient sitting at rest for 10 seconds, without talking and also while talking. Observe eye-blink frequency, masked facies or loss of facial expression, spontaneous smiling and parting of lips.		
0: Normal: Normal facial expression.		
1: Slight: Minimal masked facies manifested only by decreased frequency of blinking.		
2: Mild: In addition to decreased eye-blink frequency, Masked facies present in the lower face as well, namely fewer movements around the mouth, such as less spontaneous smiling, but lips not parted.		
3: Moderate: Masked facies with lips parted some of the time when the mouth is at rest.		
4: Severe: Masked facies with lips parted most of the time when the mouth is at rest.		

3.3 RIGIDITY		
Instructions to examiner: Rigidity is judged on slow passive movement of major joints with the patient in a relaxed position and the examiner manipulating the limbs and neck. First, test without an activation maneuver. Test and rate neck and each limb separately. For arms, test the wrist and elbow joints simultaneously. For legs, test the hip and knee joints simultaneously. If no rigidity is detected, use an activation maneuver such as tapping fingers, fist opening/closing, or heel tapping in a limb not being tested. Explain to the patient to go as limp as possible as you test for rigidity.		Neck
0: Normal:	No rigidity.	
1: Slight:	Rigidity only detected with activation maneuver.	
2: Mild:	Rigidity detected without the activation maneuver, but full range of motion is easily achieved.	RUE
3: Moderate:	Rigidity detected without the activation maneuver; full range of motion is achieved with effort.	
4: Severe:	Rigidity detected without the activation maneuver and full range of motion not achieved.	LUE
		RLE
		LLE
3.4 FINGER TAPE	PING	
Instructions to examiner: Each hand is tested separately. Demonstrate the task, but do not continue to perform the task while the patient is being tested. Instruct the patient to tap the index finger on the thumb 10 times as quickly AND as big as possible. Rate each side separately, evaluating speed, amplitude, hesitations, halts and decrementing amplitude.		
0: Normal:	No problems.	
1: Slight:	Any of the following: a) the regular rhythm is broken with one or two interruptions or hesitations of the tapping movement; b) slight slowing; c) the amplitude decrements near the end of the 10 taps.	R
2: Mild:	Any of the following: a) 3 to 5 interruptions during tapping; b) mild slowing; c) the amplitude decrements midway in the 10-tap sequence.	
3: Moderate:	Any of the following: a) more than 5 interruptions during tapping or at least one longer arrest (freeze) in ongoing movement; b) moderate slowing; c) the amplitude decrements starting after the 1st tap.	L
4: Severe:	Cannot or can only barely perform the task because of slowing, interruptions or decrements.	

3.5 HAND MOVEMENTS	SCORE	
Instructions to examiner. Test each hand separately. Demonstrate the task, but do not continue to perform the task while the patient is being tested. Instruct the patient to make a tight fist with the arm bent at the elbow so that the palm faces the examiner. Have the patient open the hand 10 times as fully AND as quickly as possible. If the patient fails to make a tight fist or to open the hand fully, remind him/her to do so. Rate each side separately, evaluating speed, amplitude, hesitations, halts and decrementing amplitude.		
0: Normal: No problem.		
1: Slight: Any of the following: a) the regular rhythm is broken with one or two interruptions or hesitations of the movement; b) slight slowing; c) the amplitude decrements near the end of the task.	R	
2: Mild: Any of the following: a) 3 to 5 interruptions during the movements; b) mild slowing; c) the amplitude decrements midway in the task.		
3: Moderate: Any of the following: a) more than 5 interruptions during the movement or at least one longer arrest (freeze) in ongoing movement; b) moderate slowing; c) the amplitude decrements starting after the 1st open-and-close sequence.	L	
4: Severe: Cannot or can only barely perform the task because of slowing, interruptions or decrements.		
<ul> <li>3.6 PRONATION-SUPINATION MOVEMENTS OF HANDS</li> <li>Instructions to examiner: Test each hand separately. Demonstrate the task, but do not continue to perform the task while the patient is being tested. Instruct the patient to extend the arm out in front of his/her body with the palms down; then to turn the palm up and down alternately 10 times as fast and as fully as possible. Rate each side separately, evaluating speed, amplitude, hesitations, halts and decrementing amplitude.</li> <li>0: Normal: No problems.</li> <li>1: Slight: Any of the following: a) the regular rhythm is broken with one or two interruptions or hesitations of the movement; b) slight slowing; c) the amplitude decrements near the end of the sequence.</li> <li>2: Mild: Any of the following: a) 3 to 5 interruptions during the movements; b) mild slowing; c) the amplitude decrements midway in the sequence.</li> <li>3: Moderate: Any of the following: a) more than 5 interruptions during the movement or at least one longer arrest (freeze) in ongoing movement; b) moderate slowing c) the</li> </ul>	R	
amplitude decrements starting after the 1st supination-pronation sequence.  4: Severe: Cannot or can only barely perform the task because of slowing, interruptions or decrements.	L	

3.7 TOE TAPPING		SCORE
Instructions to examiner: Have the patient sit in a straight-backed chair with arms, both feet on the floor. Test each foot separately. Demonstrate the task, but do not continue to perform the task while the patient is being tested. Instruct the patient to place the heel on the ground in a comfortable position and then tap the toes 10 times as big and as fast as possible. Rate each side separately, evaluating speed, amplitude, hesitations, halts and decrementing amplitude.		
0: Normal: 1: Slight:	No problem.  Any of the following: a) the regular rhythm is broken with one or two interruptions	
i. Oligiti.	or hesitations of the tapping movement; b) slight slowing; c) amplitude decrements near the end of the ten taps.	R
2: Mild:	Any of the following: a) 3 to 5 interruptions during the tapping movements; b) mild slowing; c) amplitude decrements midway in the task.	
3: Moderate:	Any of the following: a) more than 5 interruptions during the tapping movements or at least one longer arrest (freeze) in ongoing movement; b) moderate slowing; c) amplitude decrements after the first tap.	
4: Severe:	Cannot or can only barely perform the task because of slowing, interruptions or decrements.	L
have both feet components to perform ground in a comfort	niner: Have the patient sit in a straight-backed chair with arms. The patient should fortably on the floor. Test each leg separately. Demonstrate the task, but do not the task while the patient is being tested. Instruct the patient to place the foot on the able position and then raise and stomp the foot on the ground 10 times as high and Rate each side separately, evaluating speed, amplitude, hesitations, halts and tude.	
0: Normal:	No problems.	
1: Slight:	Any of the following: a) the regular rhythm is broken with one or two interruptions or hesitations of the movement; b) slight slowing; c) amplitude decrements near the end of the task.	R
2: Mild:	Any of the following: a) 3 to 5 interruptions during the movements; b) mild slowness; c) amplitude decrements midway in the task.	
3: Moderate:	Any of the following: a) more than 5 interruptions during the movement or at least one longer arrest (freeze) in ongoing movement; b) moderate slowing in speed; c) amplitude decrements after the first tap.	
4: Severe:	Cannot or can only barely perform the task because of slowing, interruptions or decrements.	-

3.9 ARISING FROM CHAIR		
Instructions to examiner: Have the patient sit in a straight-backed chair with arms, with both feet on the floor and sitting back in the chair (if the patient is not too short). Ask the patient to cross his/her arms across the chest and then to stand up. If the patient is not successful, repeat this attempt a maximum up to two more times. If still unsuccessful, allow the patient to move forward in the chair to arise with arms folded across the chest. Allow only one attempt in this situation. If unsuccessful, allow the patient to push off using his/her hands on the arms of the chair. Allow a maximum of three trials of pushing off. If still not successful, assist the patient to arise. After the patient stands up, observe the posture for item 3.13		
0: Normal:	No problems. Able to arise quickly without hesitation.	
1: Slight:	Arising is slower than normal; or may need more than one attempt; or may need to move forward in the chair to arise. No need to use the arms of the chair.	
2: Mild:	Pushes self up from arms of chair without difficulty.	
3: Moderate:	Needs to push off, but tends to fall back; or may have to try more than one time using arms of chair, but can get up without help.	
4: Severe:	Unable to arise without help.	
3.10 GAIT		
towards the examination simultaneously. The examiner. This iter strike during walkir	miner: Testing gait is best performed by having the patient walking away from and ner so that both right and left sides of the body can be easily observed ne patient should walk at least 10 meters (30 feet), then turn around and return to the n measures multiple behaviors: stride amplitude, stride speed, height of foot lift, heel ng, turning, and arm swing, but not freezing. Assess also for "freezing of gait" (next tient is walking. Observe posture for item 3.13	
0: Normal:	No problems.	
1: Slight:	Independent walking with minor gait impairment.	
2: Mild:	Independent walking but with substantial gait impairment.	
3: Moderate:	Requires an assistance device for safe walking (walking stick, walker) but not a person.	
4: Severe:	Cannot walk at all or only with another person's assistance.	

3.11	FREEZING OF G	SAIT	SCORE
<u>Instructions to examiner:</u> While assessing gait, also assess for the presence of any gait freezing episodes. Observe for start hesitation and stuttering movements especially when turning and reaching the end of the task. To the extent that safety permits, patients may NOT use sensory tricks during the assessment.			
	0: Normal:	No freezing.	
	1: Slight:	Freezes on starting, turning or walking through doorway with a single halt during any of these events, but then continues smoothly without freezing during straight walking.	
	2: Mild:	Freezes on starting, turning or walking through doorway with more than one halt during any of these activities, but continues smoothly without freezing during straight walking.	
	3: Moderate:	Freezes once during straight walking.	
	4: Severe:	Freezes multiple times during straight walking.	
Instructions to examiner: The test examines the response to sudden body displacement produced by a quick, forceful pull on the shoulders while the patient is standing erect with eyes open and feet comfortably apart and parallel to each other. Test retropulsion. Stand behind the patient and instruct the patient on what is about to happen. Explain that s/he is allowed to take a step backwards to avoid falling. There should be a solid wall behind the examiner, at least 1-2 meters away to allow for the observation of the number of retropulsive steps. The first pull is an instructional demonstration and is purposely milder and not rated. The second time the shoulders are pulled briskly and forcefully towards the examiner with enough force to displace the center of gravity so that patient MUST take a step backwards. The examiner needs to be ready to catch the patient, but must stand sufficiently back so as to allow enough room for the patient to take several steps to recover independently. Do not allow the patient to flex the body abnormally forward in anticipation of the pull. Observe for the number of steps backwards or falling. Up to and including two steps for recovery is considered normal, so abnormal ratings begin with three steps. If the patient fails to understand the test, the examiner can repeat the test so that the rating is based on an assessment that the examiner feels reflects the patient's limitations rather than misunderstanding or lack of preparedness. Observe standing posture for item 3.13  0: Normal:  No problems: Recovers with one or two steps.  1: Slight:  3-5 steps, but subject recovers unaided.  2: Mild:  More than 5 steps, but with absence of postural response; falls if not caught by examiner.			
	4: Severe:	Very unstable, tends to lose balance spontaneously or with just a gentle pull on the shoulders.	

3.13 POSTURE		SCORE	
Instructions to examiner: Posture is assessed with the patient standing erect after arising from a chair, during walking, and while being tested for postural reflexes. If you notice poor posture, tell the patient to stand up straight and see if the posture improves (see option 2 below). Rate the worst posture seen in these three observation points. Observe for flexion and side-to-side leaning.			
0: Normal:	No problems.		
1: Slight:	Not quite erect, but posture could be normal for older person.		
	Definite flexion, scoliosis or leaning to one side, but patient can correct posture to normal posture when asked to do so.		
	Stooped posture, scoliosis or leaning to one side that cannot be corrected volitionally to a normal posture by the patient.		
4: Severe: F	Flexion, scoliosis or leaning with extreme abnormality of posture.		
3.14 GLOBAL SPONTANEITY OF MOVEMENT (BODY BRADYKINESIA)  Instructions to examiner: This global rating combines all observations on slowness, hesitancy, and small amplitude and poverty of movement in general, including a reduction of gesturing and of crossing			
	nent is based on the examiner's global impression after observing for while sitting, and the nature of arising and walking.		
0: Normal:	No problems.		
1: Slight:	Slight global slowness and poverty of spontaneous movements.		
2: Mild:	Mild global slowness and poverty of spontaneous movements.		
3: Moderate:	Moderate global slowness and poverty of spontaneous movements.		
4: Severe:	Severe global slowness and poverty of spontaneous movements.		
3.15 POSTURAL TRE	MOR OF THE HANDS		
	er: All tremor, including re-emergent rest tremor, that is present in this posture is		
to be included in this rating. Rate each hand separately. Rate the highest amplitude seen. Instruct the patient to stretch the arms out in front of the body with palms down. The wrist should be straight and the fingers comfortably separated so that they do not touch each other. Observe this posture for 10 seconds.			
0: Normal:	No tremor.	R	
1: Slight:	Tremor is present but less than 1 cm in amplitude.		
2: Mild:	Tremor is at least 1 but less than 3 cm in amplitude.		
3: Moderate:	Tremor is at least 3 but less than 10 cm in amplitude.		
4: Severe:	Tremor is at least 10 cm in amplitude.	L	

3.16 KINETIC TREMOR OF THE HANDS			
<u>Instructions to examiner</u> : This is tested by the finger-to-nose maneuver. With the arm starting from the outstretched position, have the patient perform at least three finger-to-nose maneuvers with each hand reaching as far as possible to touch the examiner's finger. The finger-to-nose maneuver should be performed slowly enough not to hide any tremor that could occur with very fast arm movements. Repeat with the other hand, rating each hand separately. The tremor can be present throughout the movement or as the tremor reaches either target (nose or finger). Rate the highest amplitude seen.			
c	): Normal:	No tremor.	
1	I: Slight:	Tremor is present but less than 1 cm in amplitude.	R
2	2: Mild:	Tremor is at least 1 but less than 3 cm in amplitude.	
3	3: Moderate:	Tremor is at least 3 but less than 10 cm in amplitude.	
4	1: Severe:	Tremor is at least 10 cm in amplitude.	
			L
	REST TREMOR		
Instructions to examiner: This and the next item have been placed purposefully at the end of the examination to allow the rater to gather observations on rest tremor that may appear at any time during the exam, including when quietly sitting, during walking and during activities when some body parts are moving but others are at rest. Score the maximum amplitude that is seen at any time as the final score. Rate only the amplitude and not the persistence or the intermittency of the tremor. As part of this rating, the patient should sit quietly in a chair with the hands placed on the arms of the chair (not in the lap) and the feet comfortably supported on the floor for 10 seconds with no other directives. Rest tremor is assessed separately for all four limbs and also for the lip/jaw. Rate only the maximum amplitude that is seen at any time as the final rating.			RUE
E	Extremity ratings		
C	): Normal:	No tremor.	LUE
1	l: Slight.:	< 1 cm in maximal amplitude.	
2	2: Mild:	> 1 cm but < 3 cm in maximal amplitude.	
3	3: Moderate:	3 - 10 cm in maximal amplitude.	
4	1: Severe:	> 10 cm in maximal amplitude.	RLE
L	_ip/Jaw ratings		
C	): Normal:	No tremor.	LLE
1	I: Slight:	< 1 cm in maximal amplitude.	
2	2: Mild:	> 1 cm but < 2 cm in maximal amplitude.	
3	3: Moderate:	> 2 cm but < 3 cm in maximal amplitude.	Lip/Jaw
4	l: Severe:	> 3 cm in maximal amplitude.	

3.18 CONSTANCY OF REST TREMOR	SCORE				
<u>Instructions to examiner</u> : This item receives one rating for all rest tremor and focuses on the constancy of rest tremor during the examination period when different body parts are variously at rest. It is rated purposefully at the end of the examination so that several minutes of information can be coalesced into the rating.					
0: Normal: No tremor.					
1: Slight: Tremor at rest is present < 25% of the entire examination period.					
2: Mild: Tremor at rest is present 26-50% of the entire examination period.					
3: Moderate: Tremor at rest is present 51-75% of the entire examination period.	<u> </u>				
4: Severe: Tremor at rest is present > 75% of the entire examination period.					
DYSKINESIA IMPACT ON PART III RATINGS					
A. Were dyskinesias (chorea or dystonia) present during examination? $\Box$ No $\Box$ Yes					
B. If yes, did these movements interfere with your ratings? $\hfill\Box$ No $\hfill\Box$ Yes					
HOEHN AND YAHR STAGE					
0: Asymptomatic.					
1: Unilateral involvement only.					
2: Bilateral involvement without impairment of balance.					
Mile to moderate involvement; some postural instability but physically independent; needs assistance to recover from pull test.					
4: Severe disability; still able to walk or stand unassisted.					
5: Wheelchair bound or bedridden unless aided.					

<b>Part</b>	IV:	Motor	Comp	lications
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Overview and Instructions: In this section, the rater uses historical and objective information to assess two motor complications, dyskinesias and motor fluctuations that include OFF-state dystonia. Use all information from patient, caregiver, and the examination to answer the six questions that summarize function over the past week including today. As in the other sections, rate using only integers (no half points allowed) and leave no missing ratings. If the item cannot be rated, place UR for Unable to Rate. You will need to choose some answers based on percentages, and therefore you will need to establish how many hours generally are awake hours and use this figure as the denominator for "OFF" time and Dyskinesias. For "OFF dystonia", the total "Off" time will be the denominator. Operational definitions for examiner's use.

Dyskinesias: Involuntary random movements

Words that patients often recognize for dyskinesias include "irregular jerking", "wiggling", "twitching". <u>It is essential to stress to the patient the difference between dyskinesias and tremor, a common error when patients are assessing dyskinesias.</u>

Dystonia: contorted posture, often with a twisting component:

Words that patients often recognize for dystonia include "spasms", "cramps", "posture".

Motor fluctuation: Variable response to medication:

Words that patients often recognize for motor fluctuation include "wearing out", "wearing off", "roller-coaster effect", "on-off", "uneven medication effects".

OFF: Typical functional state when patients have a poor response in spite of taking mediation or the typical functional response when patients are on NO treatment for parkinsonism. Words that patients often recognize include "low time", "bad time", "shaking time", "slow time", "time when my medications don't work."

ON: Typical functional state when patients are receiving medication and have a good response:

Words that patients often recognize include "good time", "walking time", "time when my medications work."

# A. DYSKINESIAS [exclusive of OFF-state dystonia]

4.1 TIME SPENT WITH DYSKINESIAS					
Instructions to examiner: Determine the hours in the usual waking day and then the hours of dyskinesias. Calculate the percentage. If the patient has dyskinesias in the office, you can point them out as a reference to ensure that patients and caregivers understand what they are rating. You may also use your own acting skills to enact the dyskinetic movements you have seen in the patient before or show them dyskinetic movements typical of other patients. Exclude from this question early morning and nighttime painful dystonia.					
Instructions to patient [and caregiver]. Over the past week, how many hours do you usually sleep on a daily basis, including nighttime sleep and daytime napping? Alright, if you sleep hrs, you are awake hrs. Out of those awake hours, how many hours in total do you have wiggling, twitching or jerking movements? Do not count the times when you have tremor, which is a regular back and forth shaking or times when you have painful foot cramps or spasms in the early morning or at nighttime. I will ask about those later. Concentrate only on these types of wiggling, jerking and irregular movements. Add up all the time during the waking day when these usually occur. How many hours (use this number for your calculation).					
0: Normal: No dyskinesias.					
1: Slight: ≤ 25% of waking day.					
2: Mild:	26 - 50% of waking day.	1. Total Hours Awake:			
3: Moderate:	51 - 75% of waking day.	Total Hours with Dyskinesia:			
4: Severe:	> 75% of waking day.	3. % Dyskinesia = ((2/1)*100):			

4.2 FUNCTIONAL IMPACT OF DYSKINESIAS			SCORE		
Instructions to examiner: Determine the degree to which dyskinesias impact on the patient's daily function in terms of activities and social interactions. Use the patient's and caregiver's response to your question and your own observations during the office visit to arrive at the best answer.					
being with people who	Instructions to patient [and caregiver]: Over the past week, did you usually have trouble doing things or being with people when these jerking movements occurred? Did they stop you from doing things or from being with people?				
0: Normal:	No dyskinesias or no impact by dyskir	nesias on activities or social interactions.			
Dyskinesias impact on a few activities, but the patient usually performs all activities and participates in all social interactions during dyskinetic periods.					
2: Mild: Dyskinesias impact on many activities, but the patient usually performs all activities and participates in all social interactions during dyskinetic periods.					
3: Moderate: Dyskinesias impact on activities to the point that the patient usually does not perform some activities or does not usually participate in some social activities during dyskinetic episodes.					
4: Severe: Dyskinesias impact on function to the point that the patient usually does not perform most activities or participate in most social interactions during dyskinetic episodes.					
	B . MOTOR FLUC	TUATIONS			
4.3 TIME SPENT IN	THE OFF STATE				
spent in the "OFF" star can point to this state typical OFF period. Ad seen in the patient bef	ner: Use the number of waking hours derite. Calculate the percentage. If the patie as a reference. You may also use your kidditionally you may use your own acting fore or show them OFF function typical or because you will need this number for contents.	ent has an OFF period in the office, you nowledge of the patient to describe a skills to enact an OFF period you have f other patients. Mark down the typical			
Instructions to patient [and caregiver]: Some patients with Parkinson's disease have a good effect from their medications throughout their awake hours and we call that "ON" time. Other patients take their medications but still have some hours of low time, bad time, slow time or shaking time. Doctors call these low periods "OFF" time. Over the past week, you told me before that you are generally awake hrs each day. Out of these awake hours, how many hours in total do you usually have this type of low level or OFF function (Use this number for your calculations).					
0: Normal:	0: Normal: No OFF time.				
1: Slight:	1: Slight: ≤ 25% of waking day.				
2: Mild:	26 - 50% of waking day.				
3: Moderate:	51 - 75% of waking day.	1. Total Hours Awake:			
4: Severe: > 75% of waking day. 2. Total Hours OFF:					
		3 % OFF = ((2/1)*100):			

4.4 FUNCTIONAL IMPACT OF FLUCTUATIONS					
Instructions to examiner: Determine the degree to which motor fluctuations impact on the patient's daily function in terms of activities and social interactions. This question concentrates on the difference between the ON state and the OFF state. If the patient has no OFF time, the rating must be 0, but if patients have very mild fluctuations, it is still possible to be rated 0 on this item if no impact on activities occurs. Use the patient's and caregiver's response to your question and your own observations during the office visit to arrive at the best answer.					
the past week. Do yo the rest of the day who	[and caregiver]: Think about when those low or "OFF" periods have occurred over u usually have more problems doing things or being with people than compared to en you feel your medications working? Are there some things you usually do that you have trouble with or stop doing during a low period?				
0: Normal:	No fluctuations or No impact by fluctuations on performance of activities or social interactions.				
1: Slight:	Fluctuations impact on a few activities, but during OFF, the patient usually performs all activities and participates in all social interactions that typically occur during the ON state.				
2: Mild:	Fluctuations impact many activities, but during OFF, the patient still usually performs all activities and participates in all social interactions that typically occur during the ON state.				
3: Moderate:	Fluctuations impact on the performance of activities during OFF to the point that the patient usually does not perform some activities or participate in some social interactions that are performed during ON periods.				
4: Severe:	Fluctuations impact on function to the point that, during OFF, the patient usually does not perform most activities or participate in most social interactions that are performed during ON periods.				
4.5 COMPLEXITY O	F MOTOR FLUCTUATIONS				
of day, food intake or supplement with your a special time, mostly from mild), only some	<u>er:</u> Determine the usual predictability of OFF function whether due to dose, time other factors. Use the information provided by the patients and caregiver and own observations. You will ask if the patient can count on them always coming at coming at a special time (in which case you will probe further to separate slight times coming at a special time or are they totally unpredictable? Narrowing down ow you to find the correct answer.				
<u>Instructions to patient [and caregiver]:</u> For some patients, the low or "OFF" periods happen at certain times during day or when they do activities like eating or exercising. Over the past week, do you usually know when your low periods will occur? In other words, do your low periods <u>always</u> come at a certain time? Do they <u>mostly</u> come at a certain time? Do they <u>only sometimes</u> come at a certain time? Are your low periods totally unpredictable?"					
0: Normal:	No motor fluctuations.				
1: Slight:	OFF times are predictable all or almost all of the time (> 75%).				
2: Mild:	OFF times are predictable most of the time (51-75%).				
3: Moderate: OFF times are predictable some of the time (26-50%).					
4: Severe: OFF episodes are rarely predictable. (≤ 25%).					

C. "OFF" DYSTONIA						
4.6 PAINFUL OFF-STATE DYSTONIA  Instructions to examiner: For patients who have motor fluctuations, determine what proportion of the OFF episodes usually includes painful dystonia? You have already determined the number of hours of "OFF" time (4.3). Of these hours, determine how many are associated with dystonia and calculate the percentage. If there is no OFF time, mark 0.  Instructions to patient [and caregiver]: In one of the questions I asked earlier, you said you generally have hours of low or "OFF" time when your Parkinson's disease is under poor control. During these low or "OFF" periods, do you usually have painful cramps or spasms? Out of the total hrs of this low time, if you add up all the time in a day when these painful cramps come, how many hours would this make?  0: Normal: No dystonia OR NO OFF TIME.  1: Slight: < 25% of time in OFF state.  2: Mild: 26-50% of time in OFF state.  3: Moderate: 51-75% of time in OFF state.  4: Severe: > 75% of time in OFF state.  1. Total Hours Off:						
Summary statement to patient: READ TO PATIENT  This completes my rating of your Parkinson's disease. I know the questions and tasks have taken several minutes, but I wanted to be complete and cover all possibilities. In doing so, I may have asked about problems you do not even have, and I may have mentioned problems that you may never develop at all. Not all patients develop all these problems, but because they can occur, it is important to ask all the questions to every patient. Thank you for your time and attention in completing this scale with me.						

		(mm-dd-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Patient Name or Subject ID	Site ID	(mm-dd-yyyy) Assessment Date	Investigator's Initials

## **MDS UPDRS Score Sheet**

4.4.	Course of information	Patient	3.3b	Rigidity– RUE	
1.A Source of information		Caregiver Patient + Caregiver	3.3c	Rigidity– LUE	
Part I		3.3d	Rigidity– RLE		
1.1	Cognitive impairment		3.3e	Rigidity- LLE	
1.2	Hallucinations and psychosis		3.4a	Finger tapping- Right hand	
1.3	Depressed mood		3.4b	Finger tapping- Left hand	
1.4	Anxious mood		3.5a	Hand movements- Right hand	
1.5	Apathy		3.5b	Hand movements- Left hand	
1.6	Features of DDS		3.6a	Pronation- supination movements- Right hand	
1.6a	Who is filling out questionnaire	Patient Caregiver	3.6b	Pronation- supination movements- Left hand	
		Patient + Caregiver	3.7a	Toe tapping-Right foot	
1.7	Sleep problems		3.7b	Toe tapping- Left foot	
1.8	Daytime sleepiness		3.8a	Leg agility– Right leg	
1.9	Pain and other sensations		3.8b	Leg agility- Left leg	
1.10	Urinary problems		3.9	Arising from chair	
1.11	Constipation problems		3.10	Gait	
1.12	Light headedness on standing		3.11	Freezing of gait	
1.13	Fatigue		3.12	Postural stability	
Part I	I		3.13	Posture	
2.1	Speech		3.14	Global spontaneity of movement	
2.2	Saliva and drooling		3.15a	Postural tremor- Right hand	
2.3	Chewing and swallowing		3.15b	Postural tremor- Left hand	
2.4	Eating tasks		3.16a	Kinetic tremor– Right hand	
2.5	Dressing		3.16b	Kinetic tremor– Left hand	
2.6	Hygiene		3.17a	Rest tremor amplitude– RUE	
2.7	Handwriting		3.17b	Rest tremor amplitude– LUE	
2.8	Doing hobbies and other activities		3.17c	Rest tremor amplitude– RLE	
2.9	Turning in bed		3.17d	Rest tremor amplitude– LLE	
2.10	Tremor		3.17e	Rest tremor amplitude– Lip/jaw	
2.11	Getting out of bed		3.18	Constancy of rest	
2.12	Walking and balance			Were dyskinesias presen	□ No □ Yes
2.13	Freezing			Did these movements interfere with ratings?	□ No □ Yes
3a	Is the patient on medication?	☐ No ☐ Yes		Hoehn and Yahr Stage	
3b	Patient's clinical state	☐ Off ☐ On	Part IV	7	
3с	Is the patient on Levodopa?	□ No □ Yes	4.1	Time spent with dyskinesias	
3.C1	If yes, minutes since last dose:		4.2	Functional impact of dyskinesias	
Part I	Part III		4.3	Time spent in the OFF state	
3.1	Speech		4.4	Functional impact of fluctuations	
3.2	Facial expression		4.5	Complexity of motor fluctuations	
3.3a	Rigidity- Neck		4.6	Painful OFF-state dystonia	