

International Parkinson and Movement Disorder Society

MDS-UPDRS

The MDS-sponsored Revision of the Unified Parkinson's Disease Rating Scale

Authored by:

Christopher G. Goetz Stanley Fahn Pablo Martinez-Martin Werner Poewe Cristina Sampaio Glenn T. Stebbins Matthew B. Stern Barbara C. Tilley Richard Dodel Bruno Dubois Robert Holloway Joseph Jankovic Jaime Kulisevsky Anthony E. Lang Andrew Lees Sue Leurgans Peter A. LeWitt David Nyenhuis Warren Olanow Olivier Rascol Anette Schrag Jeanne A. Teresi Jacobus J. van Hilten Nancy LaPelle

Tel +1 (414) 276-2145 **Fax** +1 (414) 276-3349 555 E. Wells Street, Suite 1100 Milwaukee, WI 53202-3823 www.movementdisorders.org info@movementdisorders.org

Copyright © 2008 International Parkinson and Movement Disorder Society. All rights reserved.

MDS Permissions

The MDS-sponsored revision of the UPDRS (MDS-UPDRS) is owned and licensed by the International Parkinson and Movement Disorder Society (MDS). Permission is required to use the scale and can be obtained by submitting a <u>Permissions Request Form</u> on the MDS website. For licensing inquiries, please e-mail <u>info@movementdisorders.org</u>.

Unauthorized reproduction, distribution, translation, or sale of any portion of the MDS-UPDRS is strictly prohibited. Changes, modifications and derivative works of the scale are not permitted without the express authorization of MDS. Including but not limited to the following, the MDS-UPDRS may not be incorporated into clinical trials, training materials, certification programs, software programs, electronic platforms, electronic medical records, databases, or devices except by permission of MDS.

MDS-UPDRS

The Movement Disorder Society (MDS)-sponsored new version of the UPDRS 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 UPDRS 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 concerns a number of behaviors that are assessed by the investigator with all pertinent information from patients and caregivers, and IB is completed by the patient with or without the aid of the caregiver, but independently of the investigator. These sections 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 Part IA, Part IB and Part II 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.

The authors of this new version are:

Chairperson: Christopher G. Goetz

Part I: Werner Poewe (chair), Bruno Dubois, Anette Schrag Part II: Matthew B. Stern (chair), Anthony E. Lang, Peter A. LeWitt Part III: Stanley Fahn (chair), Joseph Jankovic, C. Warren Olanow Part IV: Pablo Martinez-Martin (chair), Andrew Lees, Olivier Rascol, Bob van Hilten Development Standards: Glenn T. Stebbins (chair), Robert Holloway, David Nyenhuis Appendices: Cristina Sampaio (chair), Richard Dodel, Jaime Kulisevsky Statistical Testing: Barbara Tilley (chair), Sue Leurgans, Jean Teresi Consultant: Stephanie Shaftman, Nancy LaPelle

Contact: International Parkinson and Movement Disorder Society 555 East Wells Street, Suite 1100 Milwaukee, WI USA 53202

Telephone: 414-276-2145 Email: info@movementdisorders.org

July 1, 2008

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 IA is administered by the rater (six questions) and focuses on complex behaviors. Part IB is a component of the self-administered Patient Questionnaire that covers seven questions on non-motor experiences of daily living.

Part IA:

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.
- 6. 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 IA

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.

	Is this item normal for you?	'Yes'.	Mark (0) Normal.
'No	o, I have problems.'		
	Consider mild (2) as a reference point and then compare with slight (1).	'Yes, slight is closest'. ►	Confirm and mark (1) Slight.
lf mild	is closer than slight.		
	Consider moderate (3) to see if this answer fits better.	'No, moderate is too severe'.	Confirm and mark (2) Mild.
If moderat	e is closer than mild.		
	Consider severe (4) to see if this answer fits better.	'No, severe is too severe'.	Confirm and mark (3) Moderate.
	•		
	'Yes, severe is closest.'		Confirm and mark (4) Severe.

Patient Name or S	ubject 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 IA: Complex behaviors: [completed by rater] Primary source of information: Patient Caregiver Patient to the patient: I am going to ask you six questions about behaviors that you may or may not exp Some questions concern common problems and some concern uncommon ones. If you have a problem in areas, please choose the best response that describes how you have felt MOST OF THE TIME during the I WEEK. If you are not bothered by a problem, you can simply respond NO. I am trying to be thorough, so I is questions that have nothing to do with you.				
slowing, impaired reaso activities of daily living a <u>Instructions to patient [a</u> following conversations, town? [If yes, examiner 0: Normal: No 1: Slight: Im the 2: Mild: Cli the 3: Moderate: Co ou 4: Severe: Co	r: Consider all typ ning, memory los as perceived by t and caregiver]: O , paying attention asks patient or c o cognitive impair pairment appreci e patient's ability inically evident co e patient's ability ognitive deficits in at normal activitie	ess, deficits in attention the patient and/or care wer the past week have the thinking clearly, or the aregiver to elaborate ment. ated by patient or care to carry out normal a ognitive dysfunction, he to carry out normal a sterfere with but do not s and social interaction	ve you had problems remembering to inding your way around the house of and probes for information.] regiver with no concrete interference ctivities and social interactions. but only minimal interference with ctivities and social interactions.	on hings, r in with

1.2 HALLUCINATIO	ONS AND PSYCHOSIS	SCORE		
<u>Instructions to examiner</u> : Consider both illusions (misinterpretations of real stimuli) and hallucinations (spontaneous false sensations). Consider all major sensory domains (visual, auditory, tactile, olfactory, and gustatory). Determine presence of unformed (for example sense of presence or fleeting false impressions) as well as formed (fully developed and detailed) sensations. Rate the patient's insight into hallucinations and identify delusions and psychotic thinking.				
	nt [and caregiver]: Over the past week have you seen, heard, smelled, or felt things there? [If yes, examiner asks patient or caregiver to elaborate and probes for			
0: Normal:	No hallucinations or psychotic behavior.			
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 N	NOOD			
Instructions to exam	NOOD <u>niner</u> : Consider low mood, sadness, hopelessness, feelings of emptiness, or loss of the their presence and duration over the past week and rate their interference with			
	o carry out daily routines and engage in social interactions.			
enjoy things? If yes,	<u>nt [and caregiver]</u> : Over the past week have you felt low, sad, hopeless, or unable to was this feeling for longer than one day at a time? Did it make it difficult for you activities or to be with people? [If yes, examiner asks patient or caregiver to s 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 MC	OOD	SCORE		
Instructions to examiner: 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.				
yes, was this feelir	<u>ent [and caregiver]</u> : Over the past week have you felt nervous, worried, or tense? If ng for longer than one day at a time? Did it make it difficult for you to follow your usual with other people? [If yes, examiner asks patient or caregiver to elaborate and probes			
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				
and rate the impac	miner: Consider level of spontaneous activity, assertiveness, motivation, and initiative to freduced levels on performance of daily routines and social interactions. Here the ttempt to distinguish between apathy and similar symptoms that are best explained by			
	ent [and caregiver]: Over the past week, have you felt indifferent to doing activities le? [If yes, examiner asks patient or caregiver to elaborate and probes for information.]			
0: Normal:	No apathy.			
1: 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.			

		SCORE
1.6 FEATURES OF	DOPAMINE DYSREGULATION SYNDROME	
excessive gambling interests (e.g., unus other repetitive activ extra non-prescribed impact of such abno and social relations	<u>iner</u> : Consider involvement in a variety of activities including atypical or (e.g. casinos or lottery tickets), atypical or excessive sexual drive or ual interest in pornography, masturbation, sexual demands on partner), ities (e.g. hobbies, dismantling objects, sorting or organizing), or taking medication for non-physical reasons (i.e., addictive behavior). Rate the rmal activities/behaviors on the patient's personal life and on his/her family (including need to borrow money or other financial difficulties like cards, major family conflicts, lost time from work, or missed meals or sleep ity).	
urges that are hard hard to stop? [Give	<u>nt [and caregiver]</u> : Over the past week, have you had unusually strong to control? Do you feel driven to do or think about something and find it patient examples such as gambling, cleaning, using the computer, taking essing about food or sex, all depending on the patient.]	
0: Normal:	No problems present.	
1: 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.	
	uestions in Part I (Non-motor Experiences of Daily Living) [Sleep, Daytime Sleepiness Urinary Problems, Constipation Problems, Lightheadedness on Standing, and Fatigue	

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

1.7 SLEEP PROBLEMS SCOR Over the past week, have you had trouble going to sleep at night or staying asleep through the night? 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: 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. 1: Slight: Daytime sleepiness. 1: Slight: Daytime sleepiness. 1: Slight: Daytime sleepiness occurs, but I can resist and I stay awake. 2: Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. 3: Moderate: I sometimes fall asleep when I should not. For example, while eating or talking with other people.	Part	I: Non-Motor Aspects of Experiences of Daily Living (nM-EDL)	
hrough the night? 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. 9: A DAYTIME SLEEPINESS Diver the past week, have you had trouble staying awake during the daytime? 0: Normal: No daytime sleepiness. 1: Slight: Daytime sleepiness occurs, but I can resist and I stay awake. 2: Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. 3: Moderate: I sometimes fall asleep when I should not. For example, while eating or talking with other people.	I.7 SLEEP PROB	BLEMS	SCOR
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. 1: A DAYTIME SLEEPINESS Diver the past week, have you had trouble staying awake during the daytime? 0: Normal: No daytime sleepiness. 1: Slight: Daytime sleepiness occurs, but I can resist and I stay awake. 2: Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. 3: Moderate: I sometimes fall asleep when I should not. For example, while eating or			
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. 1.8 DAYTIME SLEEPINESS Over the past week, have you had trouble staying awake during the daytime? 0: Normal: No daytime sleepiness. 1: Slight: Daytime sleepiness occurs, but I can resist and I stay awake. 2: Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. 3: Moderate: I sometimes fall asleep when I should not. For example, while eating or talking with other people. 4: Severe: I often fall asleep when I should not. For example, while eating or	0: Normal:	No problems.	
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. 4: Severe: I usually do not sleep for most of the night. 1.3 DAYTIME SLEEPINESS Over the past week, have you had trouble staying awake during the daytime? 0: Normal: No daytime sleepiness. 1: Slight: Daytime sleepiness occurs, but I can resist and I stay awake. 2: Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. 3: Moderate: I sometimes fall asleep when I should not. For example, while eating or talking with other people. 4: Severe: I often fall asleep when I should not. For example, while eating or	1: Slight:		
sleep, but I still usually sleep for more than half the night. 4: Severe: I usually do not sleep for most of the night. 1.8 DAYTIME SLEEPINESS Over the past week, have you had trouble staying awake during the daytime? 0: Normal: No daytime sleepiness. 1: Slight: Daytime sleepiness occurs, but I can resist and I stay awake. 2: Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. 3: Moderate: I sometimes fall asleep when I should not. For example, while eating or talking with other people. 4: Severe: I often fall asleep when I should not. For example, while eating or	2: Mild:		
1.8 DAYTIME SLEEPINESS Over the past week, have you had trouble staying awake during the daytime? 0: Normal: No daytime sleepiness. 1: Slight: Daytime sleepiness occurs, but I can resist and I stay awake. 2: Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. 3: Moderate: I sometimes fall asleep when I should not. For example, while eating or talking with other people. 4: Severe: I often fall asleep when I should not. For example, while eating or	3: Moderate:		
 Over the past week, have you had trouble staying awake during the daytime? 0: Normal: No daytime sleepiness. 1: Slight: Daytime sleepiness occurs, but I can resist and I stay awake. 2: Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. 3: Moderate: I sometimes fall asleep when I should not. For example, while eating or talking with other people. 4: Severe: I often fall asleep when I should not. For example, while eating or 	4: Severe:	I usually do not sleep for most of the night.	
 0: Normal: No daytime sleepiness. 1: Slight: Daytime sleepiness occurs, but I can resist and I stay awake. 2: Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. 3: Moderate: I sometimes fall asleep when I should not. For example, while eating or talking with other people. 4: Severe: I often fall asleep when I should not. For example, while eating or 			
 Slight: Daytime sleepiness occurs, but I can resist and I stay awake. Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. Moderate: I sometimes fall asleep when I should not. For example, while eating or talking with other people. Severe: I often fall asleep when I should not. For example, while eating or 			
 2: Mild: Sometimes I fall asleep when alone and relaxing. For example, while reading or watching TV. 3: Moderate: I sometimes fall asleep when I should not. For example, while eating or talking with other people. 4: Severe: I often fall asleep when I should not. For example, while eating or 	Over the past weel	k, have you had trouble staying awake during the daytime?	
eating or talking with other people.4: Severe: I often fall asleep when I should not. For example, while eating or	Over the past weel 0: Normal:	k, have you had trouble staying awake during the daytime? No daytime sleepiness.	
	Over the past weel 0: Normal: 1: 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,	
	Over the past weel 0: Normal: 1: Slight: 2: Mild:	 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, while reading or watching TV. I sometimes fall asleep when I should not. For example, while 	
	Over the past weel 0: Normal: 1: Slight: 2: Mild: 3: Moderate:	 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, while reading or watching TV. I sometimes fall asleep when I should not. For example, while eating or talking with other people. I often fall asleep when I should not. For example, while eating or 	

1.9 PAIN AND OT	THER SENSATIONS	SCORE
Over the past weel tingling, or cramps	k, have you had uncomfortable feelings in your body like pain, aches, ?	
0: Normal:	No uncomfortable feelings.	
1: 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 PI Over the past weel	ROBLEMS k, have you had trouble with urine control? For example, an urgent	
need to urinate, a	need 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.	

	ION PROBLEMS	SCORE
Over the past week moving your bowe	k have you had constipation troubles that cause you difficulty ls?	
0: 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: 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.	
-	DEDNESS ON STANDING k, have you felt faint, dizzy, or foggy when you stand up after sitting	
0: Normal:	No dizzy or foggy feelings.	
1: Slight:	Dizzy or foggy feelings occur. However, they do not cause me troubles doing things.	
1: Slight: 2: Mild:		
	troubles doing things. Dizzy or foggy feelings cause me to hold on to something, but I do	
2: Mild:	troubles doing things.Dizzy or foggy feelings cause me to hold on to something, but I do not need to sit or lie back down.Dizzy or foggy feelings cause me to sit or lie down to avoid	
2: Mild: 3: Moderate:	troubles doing things.Dizzy or foggy feelings cause me to hold on to something, but I do not need to sit or lie back down.Dizzy or foggy feelings cause me to sit or lie down to avoid fainting or falling.	
2: Mild: 3: Moderate:	troubles doing things.Dizzy or foggy feelings cause me to hold on to something, but I do not need to sit or lie back down.Dizzy or foggy feelings cause me to sit or lie down to avoid fainting or falling.	

.13 FATIGUE		SCORE
over the past weel leepy or sad.	k, 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:	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.	
PartII: I	Motor Aspects of Experiences of Daily Living (M-EDL)	
Part II: I	Motor Aspects of Experiences of Daily Living (M-EDL)	
1 SPEECH	Motor Aspects of Experiences of Daily Living (M-EDL) k, have you had problems with your speech?	
1 SPEECH		
1 SPEECH ver the past weel	k, have you had problems with your speech?	
1 SPEECH ver the past weel 0: Normal:	k, 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	
.1 SPEECH over the past week 0: Normal: 1: Slight:	k, 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	

2.2 SALIVA AND	DROOLING	SCORE
Over the past week awake or when you	k, have you usually had too much saliva during when you are u sleep?	
0: Normal:	Not at all (no problems).	
1: Slight:	l 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.	
•	k, have you usually had problems swallowing pills or eating meals? pills cut or crushed or your meals to be made soft, chopped, or	
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 EATING TASI	KS	SCORE
	k, have you usually had troubles handling your food and using or example, do you have trouble handling finger foods or using ns, 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 DRESSING		
	k, have you usually had problems dressing? For example, are you ad 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.	

Last updated August 13, 2019 / Copyright © 2008 International Parkinson and Movement Disorder Society. All rights reserved Page 13 This scale may not be copied, distributed or otherwise used in whole or in part without prior written consent of the International Parkinson and Movement Disorder Society

2.6 HYGIENE		SCORE
	k, have you usually been slow or do you need help with washing, 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 HANDWRITIN	١G	
Over the past wee	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 HOBE	BIES AND OTHER ACTIVITIES	
Over the past wee that 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 TI	JRNING 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 T	REMOR		
Over th	ne past week	, 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.	
2.11 0		IT OF BED, A CAR, OR A DEEP CHAIR	
Over the deep c		, 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.	

.12 WALKING A	ND BALANCE	SCORE
over the past week	k, 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 person to walk safely without falling.	
•	<, on your usual day when walking, do you suddenly stop or freeze stuck to the floor?	
Over the past week		
Over the past weel s if your feet are s	stuck to the floor?	
Over the past week s if your feet are s 0: Normal:	Stuck to the floor?Not at all (no problems).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	
Over the past week s if your feet are s 0: Normal: 1: Slight:	 Not at all (no problems). 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. 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 	

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 "**UR**" 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? INO 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: ON: On is the typical functional state when patients are receiving medication and have a good response. OFF: Off is the typical functional state when patients have a poor response in spite of taking medications.
3с	Is the patient on levodopa ? INO Yes 3.C1 If yes, minutes since last levodopa dose:

		SCORE	
3.1 SPEECH	niner: Listen to the patient's free-flowing speech and engage in conversation if		
<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 EXPR	ESSION niner: Observe the patient sitting at rest for 10 seconds, without talking and also		
	erve eye-blink frequency, masked facies or loss of facial expression, spontaneous		
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		SCORE
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 p	patient to go as limp as possible as you test for rigidity.	
0: Normal: No	o rigidity.	
1: Slight: Rig	gidity only detected with activation maneuver.	
	gidity detected without the activation maneuver, but full range of motion is easily hieved.	RUE
	gidity detected without the activation maneuver; full range of motion is achieved th effort.	
	gidity detected without the activation maneuver and full range of motion not hieved.	LUE
		RLE
		LLE
3.4 FINGER TAPPING	3	
perform the task while thumb 10 times as quic	er: Each hand is tested separately. Demonstrate the task, but do not continue to the patient is being tested. Instruct the patient to tap the index finger on the ckly AND as big as possible. Rate each side separately, evaluating speed, halts, and decrementing amplitude.	
0: Normal: No	problems.	
he	by of the following: a) the regular rhythm is broken with one or two interruptions or esitations of the tapping movement; b) slight slowing; c) the amplitude decrements ear the end of the 10 taps.	R
	ny of the following: a) 3 to 5 interruptions during tapping; b) mild slowing; c) the nplitude decrements midway in the 10-tap sequence.	
lor	ny of the following: a) more than 5 interruptions during tapping or at least one nger arrest (freeze) in ongoing movement; b) moderate slowing; c) the amplitude ecrements starting after the 1st tap.	L
	annot or can only barely perform the task because of slowing, interruptions, or crements.	

3.5 HAND MOVE	MENTS	SCORE
Instructions to examperform the task whether the elbow s AND as quickly as	miner. Test each hand separately. Demonstrate the task, but do not continue to hile the patient is being tested. Instruct the patient to make a tight fist with the arm to that the palm faces the examiner. Have the patient open the hand 10 times as fully possible. If the patient fails to make a tight fist or to open the hand fully, remind him/ each side separately, evaluating speed, amplitude, hesitations, halts, and	
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) 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.	
perform the task wh his/her body with the	<u>miner</u> : Test each hand separately. Demonstrate the task, but do not continue to hile the patient is being tested. Instruct the patient to extend the arm out in front of he palms down, and then to turn the palm up and down alternately 10 times as fast sible. Rate each side separately, evaluating speed, amplitude, hesitations, halts, and litude.	
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) the amplitude decrements near the end of the sequence.	
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.	R
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 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	
<u>Instructions to examiner</u> : 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: 2: Mild: 3: Moderate: 4: Severe:	No problems. 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) amplitude decrements near the end of the ten taps. Any of the following: a) 3 to 5 interruptions during the tapping movements; b) mild slowing; c) amplitude decrements midway in the task. 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 1st tap. Cannot or can only barely perform the task because of slowing, interruptions or decrements.	R	
have both feet comf continue to perform ground in a comforta	 <u>hiner</u>: Have the patient sit in a straight-backed chair with arms. The patient should ortably 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. No problems. 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. Any of the following: a) 3 to 5 interruptions during the movements; b) mild slowness; c) amplitude decrements midway in the task. 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 1st tap. Cannot or can only barely perform the task because of slowing, interruptions, or decrements. 	R	

	I CHAIR	SCORE
floor and sitting back across the chest and maximum of two more with arms folded acro- patient to push off us	<u>ner</u> : Have the patient sit in a straight-backed chair with arms, with both feet on the in the chair (if the patient is not too short). Ask the patient to cross his/her arms then to stand up. If the patient is not successful, repeat this attempt up to a re times. If still unsuccessful, allow the patient to move forward in the chair to arise oss the chest. Allow only one attempt in this situation. If unsuccessful, allow the sing his/her hands on the arms of the chair. Allow a maximum of three trials of t successful, assist the patient to arise. After the patient stands up, observe the	
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 the arms of the chair without difficulty.	
3: Moderate:	Needs to push off, but tends to fall back; or may have to try more than one time using the arms of the chair, but can get up without help.	
4: Severe:	Unable to arise without help.	
towards the examine simultaneously. The the examiner. This it heel strike during wa	iner: Testing gait is best performed by having the patient walking away from and er so that both right and left sides of the body can be easily observed e patient should walk at least 10 meters (30 feet), then turn around and return to tem measures multiple behaviors: stride amplitude, stride speed, height of foot lift, alking, turning, and arm swing, but not freezing. Assess also for "freezing of gait"	
Instructions to examine towards the examine simultaneously. The the examiner. This it heel strike during wa (next item 3.11) whil	er so that both right and left sides of the body can be easily observed e patient should walk at least 10 meters (30 feet), then turn around and return to tem measures multiple behaviors: stride amplitude, stride speed, height of foot lift, alking, turning, and arm swing, but not freezing. Assess also for "freezing of gait" e patient is walking. Observe posture for item 3.13.	
Instructions to examine towards the examine simultaneously. The the examiner. This it heel strike during wa (next item 3.11) whil 0: Normal:	er so that both right and left sides of the body can be easily observed e patient should walk at least 10 meters (30 feet), then turn around and return to tem measures multiple behaviors: stride amplitude, stride speed, height of foot lift, alking, turning, and arm swing, but not freezing. Assess also for "freezing of gait" e patient is walking. Observe posture for item 3.13. No problems.	
Instructions to examine towards the examine simultaneously. The the examiner. This it heel strike during wa (next item 3.11) whil 0: Normal: 1: Slight:	er so that both right and left sides of the body can be easily observed e patient should walk at least 10 meters (30 feet), then turn around and return to tem measures multiple behaviors: stride amplitude, stride speed, height of foot lift, alking, turning, and arm swing, but not freezing. Assess also for "freezing of gait" e patient is walking. Observe posture for item 3.13. No problems. Independent walking with minor gait impairment.	
Instructions to example towards the examiner simultaneously. The the examiner. This it heel strike during wa (next item 3.11) while 0: Normal: 1: Slight: 2: Mild:	er so that both right and left sides of the body can be easily observed e patient should walk at least 10 meters (30 feet), then turn around and return to teem measures multiple behaviors: stride amplitude, stride speed, height of foot lift, alking, turning, and arm swing, but not freezing. Assess also for "freezing of gait" e patient is walking. Observe posture for item 3.13. No problems. Independent walking with minor gait impairment. Independent walking but with substantial gait impairment.	
Instructions to examine towards the examine simultaneously. The the examiner. This it heel strike during wa (next item 3.11) whil 0: Normal: 1: Slight:	er so that both right and left sides of the body can be easily observed e patient should walk at least 10 meters (30 feet), then turn around and return to tem measures multiple behaviors: stride amplitude, stride speed, height of foot lift, alking, turning, and arm swing, but not freezing. Assess also for "freezing of gait" e patient is walking. Observe posture for item 3.13. No problems. Independent walking with minor gait impairment.	
Instructions to example towards the examiner simultaneously. The the examiner. This it heel strike during wa (next item 3.11) while 0: Normal: 1: Slight: 2: Mild:	er so that both right and left sides of the body can be easily observed e patient should walk at least 10 meters (30 feet), then turn around and return to teem measures multiple behaviors: stride amplitude, stride speed, height of foot lift, alking, turning, and arm swing, but not freezing. Assess also for "freezing of gait" e patient is walking. Observe posture for item 3.13. No problems. Independent walking with minor gait impairment. Independent walking but with substantial gait impairment. Requires an assistance device for safe walking (walking stick, walker) but not a	
Instructions to example towards the examiner simultaneously. The the examiner. This it heel strike during wa (next item 3.11) while 0: Normal: 1: Slight: 2: Mild: 3: Moderate:	er so that both right and left sides of the body can be easily observed e patient should walk at least 10 meters (30 feet), then turn around and return to teem measures multiple behaviors: stride amplitude, stride speed, height of foot lift, alking, turning, and arm swing, but not freezing. Assess also for "freezing of gait" e patient is walking. Observe posture for item 3.13. No problems. Independent walking with minor gait impairment. Independent walking but with substantial gait impairment. Requires an assistance device for safe walking (walking stick, walker) but not a person.	
Instructions to example towards the examiner simultaneously. The the examiner. This it heel strike during wa (next item 3.11) while 0: Normal: 1: Slight: 2: Mild: 3: Moderate:	er so that both right and left sides of the body can be easily observed e patient should walk at least 10 meters (30 feet), then turn around and return to teem measures multiple behaviors: stride amplitude, stride speed, height of foot lift, alking, turning, and arm swing, but not freezing. Assess also for "freezing of gait" e patient is walking. Observe posture for item 3.13. No problems. Independent walking with minor gait impairment. Independent walking but with substantial gait impairment. Requires an assistance device for safe walking (walking stick, walker) but not a person.	

	F GAIT	SCOR
isodes. Observe	<u>niner</u> : While assessing gait, also assess for the presence of any gait freezing for start hesitation and stuttering movements especially when turning and reaching To the extent that safety permits, patients may NOT use sensory tricks during the	
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.	
	is about to happen. Explain that s/he is allowed to take a step backwards to avoid	
servation of the n rposely milder and e examiner with en ckwards. The ex allow enough room tient to flex the bo ckwards or falling tings begin with the st so that the ratin	is about to happen. Explain that s/he is allowed to take a step backwards to avoid d be a solid wall behind the examiner, at least 1-2 meters away to allow for the number of retropulsive steps. The first pull is an instructional demonstration and is d not rated. The second time the shoulders are pulled briskly and forcefully towards nough force to displace the center of gravity so that patient MUST take a step aminer needs to be ready to catch the patient, but must stand sufficiently back so as m for the patient to take several steps to recover independently. Do not allow the ody abnormally forward in anticipation of the pull. Observe for the number of steps . Up to and including two steps for recovery is considered normal, so abnormal aree steps. If the patient fails to understand the test, the examiner can repeat the g is based on an assessment that the examiner feels reflects the patient's limitations arstanding or lack of preparedness. Observe standing posture for item 3.13. No problems. Recovers with one or two steps.	
servation of the n rposely milder and e examiner with el ckwards. The ex allow enough rood tient to flex the bo ckwards or falling ings begin with the st so that the ratin her than misunde	d be a solid wall behind the examiner, at least 1-2 meters away to allow for the number of retropulsive steps. The first pull is an instructional demonstration and is d not rated. The second time the shoulders are pulled briskly and forcefully towards nough force to displace the center of gravity so that patient MUST take a step aminer needs to be ready to catch the patient, but must stand sufficiently back so as m for the patient to take several steps to recover independently. Do not allow the ody abnormally forward in anticipation of the pull. Observe for the number of steps . Up to and including two steps for recovery is considered normal, so abnormal aree steps. If the patient fails to understand the test, the examiner can repeat the g is based on an assessment that the examiner feels reflects the patient's limitations arstanding or lack of preparedness. Observe standing posture for item 3.13.	
servation of the n rposely milder and e examiner with en ckwards. The ex allow enough root tient to flex the bo ckwards or falling ings begin with th st so that the ratin her than misunde 0: Normal:	d be a solid wall behind the examiner, at least 1-2 meters away to allow for the number of retropulsive steps. The first pull is an instructional demonstration and is d not rated. The second time the shoulders are pulled briskly and forcefully towards nough force to displace the center of gravity so that patient MUST take a step aminer needs to be ready to catch the patient, but must stand sufficiently back so as m for the patient to take several steps to recover independently. Do not allow the bdy abnormally forward in anticipation of the pull. Observe for the number of steps . Up to and including two steps for recovery is considered normal, so abnormal aree steps. If the patient fails to understand the test, the examiner can repeat the g is based on an assessment that the examiner feels reflects the patient's limitations arstanding or lack of preparedness. Observe standing posture for item 3.13. No problems. Recovers with one or two steps.	
servation of the n rposely milder and e examiner with en ckwards. The ex allow enough root tient to flex the bo ckwards or falling ings begin with the st so that the ratin her than misunde 0: Normal: 1: Slight:	d be a solid wall behind the examiner, at least 1-2 meters away to allow for the number of retropulsive steps. The first pull is an instructional demonstration and is d not rated. The second time the shoulders are pulled briskly and forcefully towards nough force to displace the center of gravity so that patient MUST take a step aminer needs to be ready to catch the patient, but must stand sufficiently back so as m for the patient to take several steps to recover independently. Do not allow the bdy abnormally forward in anticipation of the pull. Observe for the number of steps . Up to and including two steps for recovery is considered normal, so abnormal aree steps. If the patient fails to understand the test, the examiner can repeat the g is based on an assessment that the examiner feels reflects the patient's limitations irstanding or lack of preparedness. Observe standing posture for item 3.13. No problems. Recovers with one or two steps. 3-5 steps, but subject recovers unaided.	

		SCORE
uring walking, and tand up straight an	<u>niner</u> : Posture is assessed with the patient standing erect after arising from a chair, while being tested for postural reflexes. If you notice poor posture, tell the patient to d see if the posture improves (see option 2 below). Rate the worst posture seen in ion 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.	
2: Mild:	Definite flexion, scoliosis or leaning to one side, but patient can correct posture to normal posture when asked to do so.	
3: Moderate:	Stooped posture, scoliosis or leaning to one side that cannot be corrected volitionally to a normal posture by the patient.	
4: Severe:	Flexion, scoliosis or leaning with extreme abnormality of posture.	
mall amplitude and ne legs. This asse	 <u>iner</u>: This global rating combines all observations on slowness, hesitancy, and poverty of movement in general, including a reduction of gesturing and of crossing ssment is based on the examiner's global impression after observing for es while sitting, and the nature of arising and walking. No problems. Slight global slowness and poverty of spontaneous movements. 	
2: Mild: 3: Moderate: 4: Severe:	Mild global slowness and poverty of spontaneous movements. Moderate global slowness and poverty of spontaneous movements. Severe global slowness and poverty of spontaneous movements.	

Last updated August 13, 2019 / Copyright © 2008 International Parkinson and Movement Disorder Society. All rights reserved Page 24 This scale may not be copied, distributed or otherwise used in whole or in part without prior written consent of the International Parkinson and Movement Disorder Society

3.16 KINETIC TREMOR OF THE HANDS			
Instructions to examiner: 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.			
	0: Normal:	No tremor.	
	1: Slight:	Tremor is present but less than 1 cm in amplitude.	R
	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
3.17	REST TREMOR	AMPLITUDE	
exan the e	nination to allow the exam, including whe	<u>r</u> : This and the next item have been placed purposefully at the end of the e rater to gather observations on rest tremor that may appear at any time during en quietly sitting, during walking, and during activities when some body parts are at rest. Score the maximum amplitude that is seen at any time as the final score	
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.			
	Extremity ratings		
	0: Normal:	No tremor.	LUE
	1: Slight:	< 1 cm in maximal amplitude.	
	2: Mild:	≥ 1 cm but < 3 cm in maximal amplitude.	
	3: Moderate:	≥ 3 cm but < 10 cm in maximal amplitude.	RLE
	4: Severe:	≥ 10 cm in maximal amplitude.	RLE
	Lip/Jaw ratings		
	0: Normal:	No tremor.	LLE
	1: Slight:	< 1 cm in maximal amplitude.	
	2: Mild:	≥ 1 cm but < 2 cm in maximal amplitude.	
	3: Moderate:	≥ 2 cm but < 3 cm in maximal amplitude.	Lip/Jaw
	4: Severe:	≥ 3 cm in maximal amplitude.	

3.18 CONSTANCY OF REST TREMOR Instructions to examiner: 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.			
4	Severe:	Tremor at rest is present > 75% of the entire examination period.	
DYSKI	NESIA IMPACT	ON PART III RATINGS	
A	. Were dyskines	sias (chorea or dystonia) present during examination?	
B	. If yes, did thes	e movements interfere with your ratings?	
HOEH	N AND YAHR S	TAGE	
0:	Asymptomatic.		
1:	Unilateral involv	ement only.	
2:	Bilateral involve	ment without impairment of balance.	
3:		e involvement; some postural instability but physically independent; needs acover from pull test.	
4:	Severe disabilit	y; still able to walk or stand unassisted.	
5:	Wheelchair bou	ind or bedridden unless aided.	

Part IV: Motor Complications

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 the patient is generally awake 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</u> stress to the patient the difference between dyskinesias and tremor, a common error when patients are assessing dyskinesias.

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	
---------------------------------	--

<u>Instructions to examiner</u>: 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.

<u>Instructions to patient [and caregiver]</u>: 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? <u>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 calculations).</u>

0: Normal: No dyskinesias.

1: Slight: $\leq 25\%$ of waking day.

2: Mild: 26 - 50% of waking day.

3: Moderate: 51 - 75% of waking day.

4: Severe: > 75% of waking day.

1.	Total Hours	Awake:	-
2.	Total Hours	with Dyskinesia:	_

SCORE

3. % Dyskinesia = ((2/1)*100):

4.2 FUNCTIONAL IMF	PACT OF DYSKINESIAS		SCORE
function in terms of act	er: Determine the degree to which dysk ivities and social interactions. Use the observations during the office visit to a	patient's and caregiver's response to your	
	n these jerking movements occurred? D	you usually have trouble doing things or id they stop you from doing things or	
0: Normal:	No dyskinesias or no impact by dyskir	nesias on activities or social interactions.	
1: Slight:	Dyskinesias impact on a few activities activities and participates in all social		
2: Mild:	Dyskinesias impact on many activities activities and participates in all social		
3: Moderate:		point that the patient usually does not sually participate in some social activities	
4: Severe:	Dyskinesias impact on function to the perform most activities or participate in dyskinetic episodes.		
	B. MOTOR FLUC	TUATIONS	
4.3 TIME SPENT IN T	HE OFF STATE		
spent in the "OFF" state can point to this state a typical OFF period. Add seen in the patient befo	r: Use the number of waking hours deriv e. Calculate the percentage. If the patie s a reference. You may also use your k ditionally you may use your own acting re or show them OFF function typical of pecause you will need this number for c	ent has an OFF period in the office, you nowledge of the patient to describe a skills to enact an OFF period you have other patients. Mark down the typical	
their medications throug medications but still have these low periods "OFF hrs each day. Out of the	and caregiver]: Some patients with Park ghout their awake hours and we call tha ve some hours of low time, bad time, sk " time. Over the past week, you told me ese awake hours, how many hours in to (use this number for your calculati	by time, or shaking time. Doctors call before that you are generally awake	
0: Normal:	No OFF time.		
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):	

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

C. "OFF" DYSTONIA

4.6 PAINFUL OFF-STATE DYSTONIA

<u>Instructions to examiner</u>: 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.

<u>Instructions to patient [and caregiver]</u>: 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: $\leq 25\%$ 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:
- 2. Total OFF Hours with Dystonia:
- 3. % OFF Dystonia = ((2/1)*100):

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-yy yy)	
Patient Name or Subject ID	Site ID	Assessment Date	Investigator's Initials

MDS UPDRS Score Sheet

		Patient	3.3b	Rigidity– RUE	
1.A	Source of information				
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	
		Patient	3.6b	Pronation- supination movements- Left hand	
1.6a	Who is filling out questionnaire	Caregiver 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 II		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	Chew ing and sw allow ing		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	Handw riting		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 tremor	
2.12	Walking and balance			Were dyskinesias present?	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	·	•
3c	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 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	

Last Updated August 13, 2019 / Copyright © 2008 International Parkinson and Movement Disorder Society. All rights reserved Page 31 This scale may not be copied, distributed or otherwise used in whole or in part without prior written consent of the International Parkinson and Movement Disorder Society