

International Parkinson and Movement Disorder Society

MDS-UPDRS

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

Authored by:

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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

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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 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	p, 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 i	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	te 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.

		 (mm-dd-yyyy)	
Patient Name or Subject ID	Site ID	Assessment Date	Investigator's Initials
Part I: Non-Motor	MDS UI Aspects of Exper	PDRS riences of Daily Living (nM-E	EDL)
Part IA: Complex behaviors: [complet Primary source of information:	r Patient ask you six questions blems and some conce	rn uncommon ones. If you have a p	problem in one of the
WEEK. If you are not bothered by a proquestions that have nothing to do with	oblem, you can simply		ough, so I may ask
1.1 COGNITIVE IMPAIRMENT			SCORE
Instructions to examiner: Consider all t slowing, impaired reasoning, memory l activities of daily living as perceived by	oss, deficits in attention	n and orientation. Rate their impact of	
Instructions to patient [and caregiver]: following conversations, paying attention town? [If yes, examiner asks patient or	on, thinking clearly, or t	finding your way around the house o	
0: Normal: No cognitive impa	airment.		
		regiver with no concrete interference ctivities and social interactions.	e with
		but only minimal interference with ctivities and social interactions.	
	interfere with but do no ies and social interaction	ot preclude the patient's ability to cal ons.	rry
4: Severe: Cognitive dysfund social interactions		ent's ability to carry out normal activ	ities and

1.2 HALLUCINATI	ONS AND PSYCHOSIS	SCORE
spontaneous false and gustatory). Dete mpressions) as wel	niner: Consider both illusions (misinterpretations of real stimuli) and hallucinations sensations). Consider all major sensory domains (visual, auditory, tactile, olfactory, ermine presence of unformed (for example sense of presence or fleeting false Il as formed (fully developed and detailed) sensations. Rate the patient's insight into dentify 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 I	MOOD	
Instructions to exam enjoyment. Determi	MOOD <u>hiner</u> : Consider low mood, sadness, hopelessness, feelings of emptiness, or loss of ne their presence and duration over the past week and rate their interference with to carry out daily routines and engage in social interactions.	
Instructions to examenjoyment. Determin the patient's ability to Instructions to patient enjoy things? If yes carry out your usual	<u>hiner</u> : Consider low mood, sadness, hopelessness, feelings of emptiness, or loss of ne their presence and duration over the past week and rate their interference with to carry out daily routines and engage in social interactions. <u>Int [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 I activities or to be with people? [If yes, examiner asks patient or caregiver to	
Instructions to examenjoyment. Determinthe patient's ability the patient's ability the patient of the patient o	<u>hiner</u> : Consider low mood, sadness, hopelessness, feelings of emptiness, or loss of ne their presence and duration over the past week and rate their interference with to carry out daily routines and engage in social interactions. <u>Int [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 I activities or to be with people? [If yes, examiner asks patient or caregiver to	
Instructions to examenjoyment. Determin the patient's ability to Instructions to patient enjoy things? If yes carry out your usual elaborate and probe	<u>hiner</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 to carry out daily routines and engage in social interactions. <u>Int [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 I activities or to be with people? [If yes, examiner asks patient or caregiver to es for information.]	
Instructions to example enjoyment. Determin the patient's ability to Instructions to patie enjoy things? If yes carry out your usual elaborate and probe 0: Normal:	 <u>hiner</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 to carry out daily routines and engage in social interactions. <u>out [and caregiver]</u>: Over the past week have you felt low, sad, hopeless, or unable to a was this feeling for longer than one day at a time? Did it make it difficult for you lactivities or to be with people? [If yes, examiner asks patient or caregiver to es for information.] No depressed mood. 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 	
Instructions to examenjoyment. Determin the patient's ability to Instructions to patient enjoy things? If yes carry out your usual elaborate and probe 0: Normal: 1: Slight:	 <u>hiner</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 to carry out daily routines and engage in social interactions. <u>ent [and caregiver]</u>: Over the past week have you felt low, sad, hopeless, or unable to a time? Did it make it difficult for you activities or to be with people? [If yes, examiner asks patient or caregiver to be for information.] No depressed mood. 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. Depressed mood that is sustained over days, but without interference with 	
Instructions to example enjoyment. Determin the patient's ability to Instructions to patie enjoy things? If yes carry out your usual elaborate and probe 0: Normal: 1: Slight: 2: Mild:	 <u>hiner</u>: Consider low mood, sadness, hopelessness, feelings of emptiness, or loss of ne their presence and duration over the past week and rate their interference with to carry out daily routines and engage in social interactions. <u>Int [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 l activities or to be with people? [If yes, examiner asks patient or caregiver to se for information.] No depressed mood. 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. Depressed mood that is sustained over days, but without interference with normal activities and social interactions. 	
Instructions to example anjoyment. Determin the patient's ability to Instructions to patie enjoy things? If yes carry out your usual elaborate and probe 0: Normal: 1: Slight: 2: Mild: 3: Moderate:	 <u>hiner</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 to carry out daily routines and engage in social interactions. <u>int [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 l activities or to be with people? [If yes, examiner asks patient or caregiver to es for information.] No depressed mood. 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. Depressed mood that is sustained over days, but without interference with normal activities and social interactions. Depressed mood that interferes with, but does not preclude the patient's ability to carry out normal activities and social interactions. Depressed mood precludes patient's ability to carry out normal activities and social interactions. 	

1.4 ANXIOUS MC	DOD	SCORE
over the past weel	miner: Determine nervous, tense, worried, or anxious feelings (including panic attacks) k and rate their duration and interference with the patient's ability to carry out daily ge in social interactions.	
yes, was this feeli	ient [and caregiver]: 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 ct of reduced levels on performance of daily routines and social interactions. Here the attempt to distinguish between apathy and similar symptoms that are best explained by	
	ient [and caregiver]: Over the past week, have you felt indifferent to doing activities ole? [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>tiner</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), rities (e.g. hobbies, dismantling objects, sorting or organizing), or taking d medication for non-physical reasons (i.e., addictive behavior). Rate the ormal 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 rity).	
urges that are hard hard to stop? [Give	nt [and caregiver]: 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.	
Other Sensation,	uestions in Part I (Non-motor Experiences of Daily Living) [Sleep, Daytime Sleepiness Urinary Problems, Constipation Problems, Lightheadedness on Standing, and Fatigue t Questionnaire along with all questions in Part II [Motor Experiences of Daily Living].] are in the

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

LEEP PROB	LEMS	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.	
Normal:	No problems.	
Slight:	Sleep problems are present but usually do not cause trouble getting a full night of sleep.	
Mild:	Sleep problems usually cause some difficulties getting a full night of sleep.	
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.	
Severe:	I usually do not sleep for most of the night.	
Normal:	No daytime sleepiness.	
Normal: Slight:	No daytime sleepiness. Daytime sleepiness occurs, but I can resist and I stay awake.	
Slight:	Daytime sleepiness occurs, but I can resist and I stay awake. Sometimes I fall asleep when alone and relaxing. For example,	
Slight: Mild:	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	
	Normal: Slight: Mild: Moderate: Severe:	Normal:No problems.Slight:Sleep problems are present but usually do not cause trouble getting a full night of sleep.Mild:Sleep problems usually cause some difficulties getting a full night of sleep.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.

1.9 PAIN AND OT	HER 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	ROBLEMS	
	k, have you had trouble with urine control? For example, an urgent 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.	

1.11 CONSTIPAT	ION PROBLEMS	SCORE
Over the past weel moving your bowel	k have you had constipation troubles that cause you difficulty s?	
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.	
Over the past weel or lying down?	k, have you felt faint, dizzy, or foggy when you stand up after sitting	
0: Normal:	No dizzy or foggy feelings.	
	No dizzy of toggy reenings.	
1: Slight:	Dizzy or foggy feelings occur. However, they do not cause me troubles doing things.	
1: Slight: 2: Mild:	Dizzy or foggy feelings occur. However, they do not cause me	
	Dizzy or foggy feelings occur. However, they do not cause me troubles doing things. Dizzy or foggy feelings cause me to hold on to something, but I do	
2: Mild:	Dizzy or foggy feelings occur. However, they do not cause me 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:	Dizzy or foggy feelings occur. However, they do not cause me 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:	Dizzy or foggy feelings occur. However, they do not cause me 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.	

to ask me to repeat myself.	s not cause me troubles doing es doing things or being with les doing things or being with op me from doing anything.	
1: Slight: Fatigue occurs. However it do things or being with people. 2: Mild: Fatigue causes me some troul people. 3: Moderate: Fatigue causes me a lot of trou people. However, it does not 4: Severe: Fatigue stops me from doing the	es doing things or being with les doing things or being with op me from doing anything.	
things or being with people. 2: Mild: Fatigue causes me some troul people. 3: Moderate: Fatigue causes me a lot of troupeople. However, it does not 4: Severe: Fatigue stops me from doing the stops me from doing t	es doing things or being with les doing things or being with op me from doing anything.	
people. 3: Moderate: Fatigue causes me a lot of troupeople. However, it does not 4: Severe: Fatigue stops me from doing t Part II: Motor Aspects of Experier Part II: Motor Aspects of Experier 2.1 SPEECH Over the past week, have you had problems with y 0: Normal: Not at all (no problems). 1: Slight: My speech is soft, slurred or u to ask me to repeat myself.	les doing things or being with op me from doing anything.	
People. However, it does not 4: Severe: Fatigue stops me from doing the Part II: Motor Aspects of Experien 2.1 SPEECH Over the past week, have you had problems with y 0: Normal: Not at all (no problems). 1: Slight: My speech is soft, slurred or u to ask me to repeat myself.	op me from doing anything.	
Part II: Motor Aspects of Experier 2.1 SPEECH Over the past week, have you had problems with y 0: Normal: Not at all (no problems). 1: Slight: My speech is soft, slurred or u to ask me to repeat myself.	ngs or being with people.	
 2.1 SPEECH Over the past week, have you had problems with y 0: Normal: Not at all (no problems). 1: Slight: My speech is soft, slurred or u to ask me to repeat myself. 		
 0: Normal: Not at all (no problems). 1: Slight: My speech is soft, slurred or u to ask me to repeat myself. 	es of Dally Living (M-EDL)	
 0: Normal: Not at all (no problems). 1: Slight: My speech is soft, slurred or u to ask me to repeat myself. 	ur speech?	
to ask me to repeat myself.		
O MILL MARKED 1	even, but it does not cause others	
2: Mild: My speech causes people to a myself, but not every day.	k me to occasionally repeat	
3: Moderate: My speech is unclear enough every day even though most c	at others ask ma to report myself	
4: Severe: Most or all of my speech canne		
	my speech is understood.	
	my speech is understood.	

Dever the past week, have you usually had too much saliva during when you are wake 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: ALEWING AND SWALLOWING Dever 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 ilended 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.	2.2 SALIVA AND	DROOLING	SCORE
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: ALEWING AND SWALLOWING Dover 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 oblended 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			
 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: ACHEWING AND SWALLOWING 2: ACHEWING AND SWALLOWING 2: ACHEWING AND SWALLOWING 2: 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 	0: Normal:	Not at all (no problems).	
 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: A CHEWING AND SWALLOWING Diver 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 oblended 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 	1: Slight:	I have too much saliva, but do not drool.	
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handkerchief to protect my clothes. Andkerchief to protect my clothes. A.3 CHEWING AND SWALLOWING Diver 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 oblended to avoid choking? O: 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	3: Moderate:		
 Over the past week, have you usually had problems swallowing pills or eating meals? Oo you need your pills cut or crushed or your meals to be made soft, chopped, or oblended to avoid choking? O: 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 	4: Severe:		
 Over the past week, have you usually had problems swallowing pills or eating meals? Oo you need your pills cut or crushed or your meals to be made soft, chopped, or oblended to avoid choking? O: 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 			
 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. 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. Moderate. I choked at least once in the past week. Severe: Because of chewing and swallowing problems, I need a feeding 	3 CHEWING AN	ID SWALLOWING	
 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 	Over the past week Do you need your p	k, have you usually had problems swallowing pills or eating meals? pills cut or crushed or your meals to be made soft, chopped, or	
 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 	Over the past week To you need your p lended to avoid ch	k, have you usually had problems swallowing pills or eating meals? pills cut or crushed or your meals to be made soft, chopped, or noking?	
4: Severe: Because of chewing and swallowing problems, I need a feeding	Over the past week to you need your p lended to avoid ch 0: Normal:	 k, have you usually had problems swallowing pills or eating meals? pills cut or crushed or your meals to be made soft, chopped, or noking? No problems. 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 	
	Over the past week to you need your p lended to avoid ch 0: Normal: 1: Slight:	 k, have you usually had problems swallowing pills or eating meals? pills cut or crushed or your meals to be made soft, chopped, or noking? No problems. 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. I need to have my pills cut or my food specially prepared because of chewing or swallowing problems, but I have not choked over 	
	Over the past week to you need your p lended to avoid ch 0: Normal: 1: Slight: 2: Mild:	 k, have you usually had problems swallowing pills or eating meals? pills cut or crushed or your meals to be made soft, chopped, or noking? No problems. 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. 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. 	
	Over the past week to you need your p lended to avoid ch 0: Normal: 1: Slight: 2: Mild: 3: Moderate.	 k, have you usually had problems swallowing pills or eating meals? pills cut or crushed or your meals to be made soft, chopped, or noking? No problems. 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. 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. I choked at least once in the past week. Because of chewing and swallowing problems, I need a feeding 	
	Over the past week to you need your p lended to avoid ch 0: Normal: 1: Slight: 2: Mild: 3: Moderate.	 k, have you usually had problems swallowing pills or eating meals? pills cut or crushed or your meals to be made soft, chopped, or noking? No problems. 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. 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. I choked at least once in the past week. Because of chewing and swallowing problems, I need a feeding 	

have you usually had troubles handling your food and using example, do you have trouble handling finger foods or using s, chopsticks? Not at all (no problems). I am slow, but I do not need any help handling my food and have not had food spills while eating. I am slow with my eating and have occasional food spills. I may need help with a few tasks such as cutting meat. I need help with many eating tasks but can manage some alone. I need help for most or all eating tasks.	
Not at all (no problems).	
I am slow and need help for a few dressing tasks (buttons, bracelets).	
I need help for many dressing tasks.	
I need help for most or all dressing tasks.	
	am slow, but I do not need help. am slow and need help for a few dressing tasks (buttons, pracelets). need help for many dressing tasks.

2.6 H	YGIENE		SCORE
		x, have you usually been slow or do you need help with washing, rushing 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 H	ANDWRITIN	G	
Over t	he past week	x, 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 D	OING HOBB	IES AND OTHER ACTIVITIES	
	he past week ou like to do?	, have you usually had trouble doing your hobbies or other things	
0:	Normal:	Not at all (no problems).	
	Slight:	I am a bit slow but do these activities easily.	
1:			
	Mild:	I have some difficulty doing these activities.	
2:	Mild: Moderate:	I have some difficulty doing these activities. I have major problems doing these activities, but still do most.	

2.9 T	URNING IN E	BED	SCORE		
Over the past week, do you usually have trouble turning over in bed?					
0:	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	TREMOR				
Over t	he 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		IT OF BED, A CAR, OR A DEEP CHAIR			
Over t deep o	•	, 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 AND BALANCE				
Over the past week, have you usually had problems with balance and walking?				
0: Normal: Not at all (no problem	ns).			
1: Slight: I am slightly slow or	may drag a leg. I never use a walking aid.			
2: Mild: I occasionally use a another person.	walking aid, but I do not need any help from			
	ng aid (cane, walker) to walk safely without o not usually need the support of another			
4: Severe: I usually use the sup falling.	port of another person to walk safely without			
2.13 FREEZING				
Over the past week, on your usual day w as if your feet are stuck to the floor?	hen walking, do you suddenly stop or freeze			
0: Normal: Not at all (no problem	ns).			
	can easily start walking again. I do not need else or a walking aid (cane or walker) because			
	uble starting to walk again, but I do not need walking aid (cane or walker) because of			
	e a lot of trouble starting to walk again and, I sometimes need to use a walking aid or s help.			
4: Severe: Because of freezing, walking aid or some	most or all of the time, I need to use a one'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				

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? \Box No \Box 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.
3c	Is the patient on levodopa ? INO Yes 3.C1 If yes, minutes since last levodopa dose:

3.1 SPEECH		SCORE	
<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			
	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 g 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		Neck	
tested. Explain to	the patient to go as limp as possible as you test for rigidity.		
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: Moderat	 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 TA	PPING		
perform the task thumb 10 times a	aminer: Each hand is tested separately. Demonstrate the task, but do not continue to while the patient is being tested. Instruct the patient to tap the index finger on the as quickly AND as big as possible. Rate each side separately, evaluating speed, tions, 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: Moderat	e: 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 problems.			
1: Slight: Any of the following: a) the regular rhythm is broken with one or two interruption hesitations of the movement; b) slight slowing; c) the amplitude decrements neat the end of the task.			
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.	ng;		
3: Moderate: Any of the following: a) more than 5 interruptions during the movement or at lea one longer arrest (freeze) in ongoing movement; b) moderate slowing; c) the amplitude decrements starting after the 1st open-and-close sequence.	ist L		
4: Severe: Cannot or can only barely perform the task because of slowing, interruptions, o decrements.	r		
3.6 PRONATION-SUPINATION MOVEMENTS OF HANDS <u>Instructions to examiner</u> : 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 or his/her body with the palms down, and then to turn the palm up and down alternately 10 times as fa and as fully as possible. Rate each side separately, evaluating speed, amplitude, hesitations, halts, decrementing amplitude.	st		
0: Normal: No problems.			
1: Slight: Any of the following: a) the regular rhythm is broken with one or two interruption 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 slowinc) the amplitude decrements midway in the sequence.	ng; R		
3: Moderate: Any of the following: a) more than 5 interruptions during the movement or at lea one longer arrest (freeze) in ongoing movement; b) moderate slowing; c) the amplitude decrements starting after the 1st supination-pronation sequence.	st		
4: Severe: Cannot or can only barely perform the task because of slowing, interruptions, or decrements.	. г		

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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:	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) 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 1st tap.		
4: Severe:	Cannot or can only barely perform the task because of slowing, interruptions or decrements.	L	
have both feet comf continue to perform ground in a comforta	 iner: 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 ude. 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	

3.9 ARISING FROM	CHAIR	SCORE			
Instructions to examin floor and sitting back across the chest and maximum of two more with arms folded acro patient to push off usi	<u>her</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 e times. If still unsuccessful, allow the patient to move forward in the chair to arise ss the chest. Allow only one attempt in this situation. If unsuccessful, allow the ng his/her hands on the arms of the chair. Allow a maximum of three trials of successful, assist the patient to arise. After the patient stands up, observe the				
4: Severe:	Unable to arise without help.				
3.10 GAIT <u>Instructions to examiner</u> : Testing gait is best performed by having the patient walking away from and towards the examiner so that both right and left sides of the body can be easily observed simultaneously. The patient should walk at least 10 meters (30 feet), then turn around and return to the examiner. This item measures multiple behaviors: stride amplitude, stride speed, height of foot lift,					
	lking, turning, and arm swing, but not freezing. Assess also for "freezing of gait" e patient 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	F	REEZING OF (GAIT	SCORE
Instructions to examiner: 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.	
Instr quicl com the p fallin obse purp the e back to all patie back ratin test	uct <u>c, f</u> or partia g, and cose cose	orceful pull on t ably apart and ent on what is a There should b ation of the num ely milder and r miner with enough rds. The exam r enough room to flex the body ards or falling. I begin with three that the rating i	 ar: The test examines the response to sudden body displacement produced by a he shoulders while the patient is standing erect with eyes open and feet parallel to each other. Test retropulsion. Stand behind the patient and instruct about to happen. Explain that s/he is allowed to take a step backwards to avoid e a solid wall behind the examiner, at least 1-2 meters away to allow for the ober of retropulsive steps. The first pull is an instructional demonstration and is not rated. The second time the shoulders are pulled briskly and forcefully towards ugh force to displace the center of gravity so that patient MUST take a step inire needs to be ready to catch the patient, but must stand sufficiently back so as for the patient to take several steps to recover independently. Do not allow the vabnormally forward in anticipation of the pull. Observe for the number of steps Jp to and including two steps for recovery is considered normal, so abnormal e steps. If the patient fails to understand the test, the examiner can repeat the s based on an assessment that the examiner feels reflects the patient's limitations tanding 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. Stands safely, but with absence of postural response; falls if not caught by examiner. Very unstable, tends to lose balance spontaneously or with just a gentle pull on the shoulders. 	

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.13 POSTURE		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 tion 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.			
B.14 GLOBAL SPONTANEITY OF MOVEMENT (BODY BRADYKINESIA) <u>Instructions to examiner</u> : 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 the legs. This assessment is based on the examiner's global impression after observing for spontaneous gestures while sitting, and the nature of arising and walking.				
nall amplitude and e legs. This asses pontaneous gesture	poverty of movement in general, including a reduction of gesturing and of crossing soment is based on the examiner's global impression after observing for es while sitting, and the nature of arising and walking.			
nall amplitude and e legs. This asses	poverty of movement in general, including a reduction of gesturing and of crossing asment is based on the examiner's global impression after observing for			
nall amplitude and e legs. This asses pontaneous gesture	poverty of movement in general, including a reduction of gesturing and of crossing soment is based on the examiner's global impression after observing for es while sitting, and the nature of arising and walking.			
nall amplitude and e legs. This asses oontaneous gesture 0: Normal:	poverty of movement in general, including a reduction of gesturing and of crossing sement is based on the examiner's global impression after observing for es while sitting, and the nature of arising and walking. No problems.			
nall amplitude and e legs. This asses ontaneous gesture 0: Normal: 1: Slight:	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.			
nall amplitude and e legs. This asses pontaneous gesture 0: Normal: 1: Slight: 2: Mild:	 poverty of movement in general, including a reduction of gesturing and of crossing sement 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. Mild global slowness and poverty of spontaneous movements. 			
nall amplitude and e legs. This asses contaneous gesture 0: Normal: 1: Slight: 2: Mild: 3: Moderate: 4: Severe:	 poverty of movement in general, including a reduction of gesturing and of crossing sement 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. Mild global slowness and poverty of spontaneous movements. Moderate global slowness and poverty of spontaneous movements. 			
nall amplitude and e legs. This assessiontaneous gesture 0: Normal: 1: Slight: 2: Mild: 3: Moderate: 4: Severe: 15 POSTURAL T <u>structions to exam</u> be included in this atient to stretch the e fingers comforta	 poverty of movement in general, including a reduction of gesturing and of crossing sement 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. Mild global slowness and poverty of spontaneous movements. Moderate global slowness and poverty of spontaneous movements. Severe global slowness and poverty of spontaneous movements. 			
nall amplitude and e legs. This assessiontaneous gesture 0: Normal: 1: Slight: 2: Mild: 3: Moderate: 4: Severe: 15 POSTURAL T <u>structions to exam</u> be included in this atient to stretch the e fingers comforta	 poverty of movement in general, including a reduction of gesturing and of crossing assent 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. Mild global slowness and poverty of spontaneous movements. Moderate global slowness and poverty of spontaneous movements. Severe global slowness and poverty of spontaneous movements. Severe global slowness and poverty of spontaneous movements. Severe global slowness and poverty of spontaneous movements. 	 		
nall amplitude and e legs. This assession ontaneous gesture 0: Normal: 1: Slight: 2: Mild: 3: Moderate: 4: Severe: 15 POSTURAL T <u>structions to exam</u> be included in this atient to stretch the e fingers comfortal econds.	 poverty of movement in general, including a reduction of gesturing and of crossing asment is based on the examiner's global impression after observing for as while sitting, and the nature of arising and walking. No problems. Slight global slowness and poverty of spontaneous movements. Mild global slowness and poverty of spontaneous movements. Moderate global slowness and poverty of spontaneous movements. Severe global slowness and poverty of spontaneous movements. 	 R		
nall amplitude and e legs. This assession ontaneous gesture 0: Normal: 1: Slight: 2: Mild: 3: Moderate: 4: Severe: 15 POSTURAL T structions to exam be included in this atient to stretch the e fingers comfortal econds. 0: Normal:	 poverty of movement in general, including a reduction of gesturing and of crossing asment 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. Mild global slowness and poverty of spontaneous movements. Moderate global slowness and poverty of spontaneous movements. Severe global slowness and poverty of spontaneous movements. REMOR OF THE HANDS iner: All tremor, including re-emergent rest tremor, that is present in this posture is a rating. Rate each hand separately. Rate the highest amplitude seen. Instruct the arms out in front of the body with palms down. The wrist should be straight and bly separated so that they do not touch each other. Observe this posture for 10 No tremor. 	R		
nall amplitude and e legs. This assession ontaneous gesture 0: Normal: 1: Slight: 2: Mild: 3: Moderate: 4: Severe: 15 POSTURAL T <u>structions to exam</u> be included in this atient to stretch the e fingers comfortal econds. 0: Normal: 1: Slight:	 poverty of movement in general, including a reduction of gesturing and of crossing sement 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. Mild global slowness and poverty of spontaneous movements. Moderate global slowness and poverty of spontaneous movements. Severe global slowness and poverty of spontaneous movements. Inter: All tremor, including re-emergent rest tremor, that is present in this posture is a rating. Rate each hand separately. Rate the highest amplitude seen. Instruct the arms out in front of the body with palms down. The wrist should be straight and bly separated so that they do not touch each other. Observe this posture for 10 No tremor. Tremor is present but less than 1 cm in amplitude. 	R		

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3.16 KINETIC TREMOR OF THE HANDS Instructions to examiner: This is tested by the finger-to-nose n	SCO	RE
outstretched position, have the patient perform at least three fi reaching as far as possible to touch the examiner's finger. The performed slowly enough not to hide any tremor that could occ with the other hand, rating each hand separately. The tremor or as the tremor reaches either target (nose or finger). Rate th	inger-to-nose maneuvers with each hand e finger-to-nose maneuver should be cur with very fast arm movements. Repeat can be present throughout the movement	
0: Normal: No tremor.		
1: Slight: Tremor is present but less than 1 cm i	in amplitude. R	
2: Mild: Tremor is at least 1 but less than 3 cm	n in amplitude.	
3: Moderate: Tremor is at least 3 but less than 10 c	cm in amplitude.	
4: Severe: Tremor is at least 10 cm in amplitude.	. [L]
3.17 REST TREMOR AMPLITUDE		
Instructions to examiner: This and the next item have been pla examination to allow the rater to gather observations on rest to the exam, including when quietly sitting, during walking, and du moving but others are at rest. Score the maximum amplitude	remor that may appear at any time during luring activities when some body parts are	
Rate only the amplitude and not the persistence or the intermit As part of this rating, the patient should sit quietly in a chair wit chair (not in the lap) and the feet comfortably supported on the directives. Rest tremor is assessed separately for all four limb maximum amplitude that is seen at any time as the final rating	ittency of the tremor. ith the hands placed on the arms of the RU e floor for 10 seconds with no other os and also for the lip/jaw. Rate only the	E
Extremity ratings		
0: Normal: No tremor.	LUI	E
1: Slight: < 1 cm in maximal amplitude.		
2: Mild: \geq 1 cm but < 3 cm in maximal amplitud	de.	
3: Moderate: \geq 3 cm but < 10 cm in maximal amplite		
4: Severe: \geq 10 cm in maximal amplitude.	RLI	E
Lip/Jaw ratings		
0: Normal: No tremor.	LLE	E
1: Slight: < 1 cm in maximal amplitude.		
2: Mild: \geq 1 cm but < 2 cm in maximal amplitud	de.	
3: Moderate: \geq 2 cm but < 3 cm in maximal amplitud	de.	law
4: Severe: \geq 3 cm in maximal amplitude.		
	1	

3.18 CO	NSTANCY OF	F 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: 1	Normal:	No tremor.		
1: 5	Slight:	Tremor at rest is present ≤ 25% of the entire examination	on period.	
2: N	Vild:	Tremor at rest is present 26-50% of the entire examinat	ion period.	
3: N	Moderate:	Tremor at rest is present 51-75% of the entire examinat	ion period.	
4: 5	Severe:	Tremor at rest is present > 75% of the entire examination	on period.	
		ON PART III RATINGS	🗆 No 🗖 Yes	
A. 1	were dyskines	ias (chorea or dystonia) present during examination?		
B. I	lf yes, did these	e movements interfere with your ratings?	LI No LI Yes	
HOEHN	AND YAHR ST	TAGE		
0: A	symptomatic.			
1: U	Inilateral involv	vement only.		
2: B	silateral involve	ement without impairment of balance.		
		e involvement; some postural instability but physically inc	dependent; needs	
4: S	evere disability	y; still able to walk or stand unassisted.		
5: W	Vheelchair bou	nd 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	4.1	і тіме	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.</u> 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).

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

SCORE

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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.				
	en these jerking movements occurred? D	l you usually have trouble doing things or Did they stop you from doing things or		
0: Normal:	No dyskinesias or no impact by dyskin	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 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 T	THE OFF STATE			
Instructions to examiner: Use the number of waking hours derived from 4.1 and determine the hours spent in the "OFF" state. Calculate the percentage. If the patient has an OFF period in the office, you can point to this state as a reference. You may also use your knowledge of the patient to describe a typical OFF period. Additionally you may use your own acting skills to enact an OFF period you have seen in the patient before or show them OFF function typical of other patients. Mark down the typical number of OFF hours, because you will need this number for completing 4.6.				
Instructions to patient	[and caregiver]: Some patients with Park	inson's disease have a good effect from		
<u>Instructions to patient [and caregiver]</u> : 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				
hrs each day. Out of th	F" time. Over the past week, you told me nese awake hours, how many hours in to (use this number for your calculati	otal do you usually have this type of low		
0: Normal:	No OFF time.			
1: Slight:	$\leq 25\%$ 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):		

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4.4 FUNCTIONAL	IMPACT OF FLUCTUATIONS	SCORE			
<u>Instructions to examiner</u> : 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.					
<u>Instructions to patient [and caregiver]</u> : 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 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 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, 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.					
<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

<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-yyyy)	
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		3.3c	Rigidity– LUE	
Patient + Caregiver			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	Part II			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 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	7	
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	
3.3a	Rigidity- Neck		4.6	Painful OFF-state dystonia	

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