Data Overview

우리가 가지고 있는 연구 데이터는 400명의 초기 파킨슨병 환자와 200명의 정상인을 표본으로 삼고 종단연구로 뇌 이미지, 기초의료데이터 등을 수집한 것임. 나이, 성별 등의 변수는 통제됨.

Motor Assessment 데이터는 크게 1) MDS-UPDRS 검사 데이터, 2) TAP-PD 데이터, 3) 기타 데이터로 나뉨. 따라서 이해하기 위해서는 MDS-UPDRS 검사를 이해해야 함.

[MDS UPDRS]

4개의 Part로 구성됨: Part I(일상생활에서의 非운동성 증상 경험), Part II(일상에서의 운동 경험), Part III(운동성 검사) 및 Part IV(운동성 합병증)

1. Part I: (일상생활에서의 非운동성 증상 경험, 2가지 구성요소가 있음

MDS_UPDRS_Part_I : 환자와 보호자에게서 수집된 모든 관련정보에 기초해 조사자가 평가하는 여러 행동들에 관한 것. 숫자로 되어 있음.

INFODT	Event Date	
NUPSOURC	Primary Source of Information	
NP1COGNP1HALL	COGNITIVE IMPAIRMENT	
NP1DPRS	DEPRESSED MOODS	
NP1ANXS	ANXIOUS MOOD	
NP1APAT	APATHY	
NP1DDS	FEATURES-DOPAMINE DYSREGULATION SYNDROME	
ORIG_ENTRY	Date of original data entry	
LAST_UPDATE	Date of most recent update to record	
QUERY	Any open/pending queries on this record	
SITE_APRV	Date site approved the data	

MDS_UPDRS_Part_I_Patient_Questionnaire: 1B는 보호자의 도움을 받을 수도 있고 그렇지 않을 수도 있으나 조사자의 도움은 전혀 받지 않는 상태에서 환자에 의해 작성됨. 하지만 이 경우에도 조사자는 그 설문결과를 검토하여 모든 질문들이 명확하게 답변이 되었는지 확인할 수 있으며, 환자가 질문을 모호하게 생각할 경우 설명해줄 수 있음.

NP1SLPN	SLEEP PROBLEMS (NIGHT)
NP1SLPD	DAYTIME SLEEPINESS

NP1PAIN	PAIN AND OTHER SENSATIONS	
NP1URIN	URINARY PROBLEMS	
NP1CNST	CONSTIPATION PROBLEMS	
NP1LTHD	LIGHTHEADEDNESS ON STANDING	
NP1FATG	FATIGUE	

2. Part 2 (일상에서의 운동 경험)

>> speech, swallowing, eating, hygiene(추측), hobby, turn, rise, tremor, walking, freezing 등 Part 2는 Part 1B처럼 스스로 작성하는 설문지로 고안됨.

NP2SPCH	SPEECH	
NP2SALV	SALIVA + DROOLING	
NP2SWAL	CHEWING AND SWALLOWING	
NP2EAT	EATING TASKS	
NP2DRES	DRESSING	
NP2HYGN	HYGIENE	
NP2HWRT	HANDWRITING	
NP2HOBB	DOING HOBBIES AND OTHER ACTIVITIES	
NP2TURN	TURNING IN BED	
NP2TRMR	TREMOR	
NP2RISE	GETTING OUT OF BED, CAR, OR DEEP CHAIR	
NP2WALK	WALKING AND BALANCE	
NP2FREZ	FREEZING	

^{=&}gt; part 1, 2는 ON OFF를 따로 안 기입함

- 3. Part III(운동성 검사): 레포도바 투약 전후 시간도 같이 기입하고, 이에 따른 운동성을 검사함
- 'ON'은 환자가 약을 복용하면서 그 효과가 긍정적인(good response), 일반적인 기능적 상태 (typical functional state)입니다.
- 'OFF'는 약을 복용함에도 불구하고 그 효과가 미약한(poor response), 일반적인 기능적 상태 (typical functional state)입니다.

PDMEDDT	Date of most recent PD med dose
PDMEDTM	Time of most recent PD med dose

EXAMTM Time Part III was administered PDSTATE Subject's PD state during examination NP3SPCH 3.1 Speech NP3FACXP 3.2 Facial expression NP3RIGN 3.3a Rigidity - Neck NP3RIGRU 3.3b Rigidity - RUE NP3RIGLU 3.3c Rigidity - LUE PN3RIGLU 3.3c Rigidity - LUE PN3RIGLU 3.3e Rigidity - LUE NP3RIGLU 3.3e Rigidity - LUE NP3RIGLU 3.3e Rigidity - LUE NP3RIGLU 3.3e Rigidity - LUE NP3FTAPR 3.4a Finger Tapping Right Hand NP3FTAPR 3.4b Finger Tapping Left Hand NP3FTAPL 3.4b Finger Tapping Left Hand NP3HMOVR 3.5a Hand movements - Right Hand NP3HMOVL 3.5b Hand movements - Left Hand NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPR 3.6b Pronation-Supination - Left Hand NP3PRSPL 3.6b Pronation-Supination - Left Hand NP3TTAPR 3.7a Toe tapping - Right foot NP3TLAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGR 3.8b Leg agility - Left leg NP3LGAGR 3.9 Arising from chair NP3GAIT 3.10 Gait NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3PTRML 3.15a Postural tremor - Left hand NP3RTRML 3.16a Kinetic tremor - Left hand NP3RTRML 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - RUE NP3RTALU 3.17c Rest tremor amplitude - LUE NP3RTALU 3.17c Rest tremor amplitude - LUE NP3RTALU 3.17e Rest tremor amplitude - LUE NP3RTALU 3.17e Rest tremor amplitude - LUE		
NP3FPCH 3.1 Speech NP3FACXP 3.2 Facial expression NP3RIGN 3.3a Rigidity - Neck NP3RIGRU 3.3b Rigidity - RUE NP3RIGRU 3.3c Rigidity - LUE NP3RIGRL 3.3d Rigidity - LUE NP3RIGRL 3.3d Rigidity - LUE NP3RIGLL 3.3e Rigidity - LUE NP3RIGLL 3.3e Rigidity - LUE NP3FAPR 3.4a Finger Tapping Right Hand NP3FAPR 3.4b Finger Tapping Left Hand NP3HMOVR 3.5a Hand movements - Right Hand NP3HMOVL 3.5b Hand movements - Left Hand NP3HMOVL 3.5b Hand movements - Left Hand NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPR 3.7a Toe tapping - Right foot NP3TAPR 3.7a Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGR 3.8b Leg agility - Right leg NP3LGAGL 3.8b Leg agility - Left leg NP3RSNG 3.9 Arising from chair NP3GATT 3.10 Gait NP3FAZGT 3.11 Freezing of gait NP3FAZGT 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Right Hand NP3PTRML 3.16a Kinetic tremor - Left hand NP3FARMU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - RUE NP3RTALU 3.17c Rest tremor amplitude - LUE NP3RTALL 3.17c Rest tremor amplitude - LUE NP3RTALL 3.17c Rest tremor amplitude - LUE	EXAMTM	Time Part III was administered
NP3FACXP 3.2 Facial expression NP3RIGN 3.3a Rigidity - Neck NP3RIGRU 3.3b Rigidity - RUE NP3RIGLU 3.3c Rigidity - LUE PN3RIGLL 3.3d Rigidity - RLE NP3RIGLL 3.3e Rigidity - LLE NP3FTAPR 3.4a Finger Tapping Right Hand NP3FTAPL 3.4b Finger Tapping Left Hand NP3HMOVR 3.5a Hand movements - Right Hand NP3HMOVL 3.5b Hand movements - Left Hand NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPL 3.6b Pronation-Supination - Left Hand NP3TTAPR 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL 3.8b Leg agility - Left leg NP3RSNG 3.9 Arising from chair NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3PSTRMR 3.15a Postural tremor - Right Hand NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.16a Kinetic tremor - Left hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3RTARU 3.17c Rest tremor amplitude - RUE NP3RTALL NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE	PDSTATE	Subject's PD state during examination
NP3RIGN 3.3a Rigidity - Neck NP3RIGRU 3.3b Rigidity - RUE NP3RIGLU 3.3c Rigidity - LUE PN3RIGRL 3.3d Rigidity - RLE NP3RIGLL 3.3e Rigidity - LLE NP3FTAPR 3.4a Finger Tapping Right Hand NP3FTAPL 3.4b Finger Tapping Left Hand NP3HMOVR 3.5a Hand movements - Right Hand NP3HMOVL 3.5b Hand movements - Left Hand NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPL 3.6b Pronation-Supination - Left Hand NP3TTAPR 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL 3.8b Leg agility - Left leg NP3RSNG 3.9 Arising from chair NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3PTRML 3.16a Kinetic tremor - Right hand NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17c Rest tremor amplitude - LLE NP3RTALL 3.17c Rest tremor amplitude - LLE	NP3SPCH	3.1 Speech
NP3RIGRU 3.3b Rigidity - RUE NP3RIGLU 3.3c Rigidity - LUE PN3RIGRL 3.3d Rigidity - RLE NP3RIGLL 3.3e Rigidity - LLE NP3FTAPR 3.4a Finger Tapping Right Hand NP3FTAPL 3.4b Finger Tapping Left Hand NP3HMOVR 3.5a Hand movements - Right Hand NP3HMOVL 3.5b Hand movements - Left Hand NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPR 3.6b Pronation-Supination - Left Hand NP3TAPR 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL 3.8b Leg agility - Left leg NP3RISNG 3.9 Arising from chair NP3FRZGT 3.11 Freezing of gait NP3FRZGT 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.16a Kinetic tremor - Right hand NP3RTRML 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE	NP3FACXP	3.2 Facial expression
NP3RIGLU 3.3c Rigidity - LUE PN3RIGRL 3.3d Rigidity - RLE NP3RIGLL 3.3e Rigidity - LLE NP3FTAPR 3.4a Finger Tapping Right Hand NP3FTAPL 3.4b Finger Tapping Left Hand NP3HMOVR 3.5a Hand movements - Right Hand NP3HMOVL 3.5b Hand movements - Left Hand NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPR 3.6b Pronation-Supination - Left Hand NP3PRSPL 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Right foot NP3IGAGR 3.8a Leg agility - Left leg NP3LGAGL 3.8b Leg agility - Left leg NP3RSNG 3.9 Arising from chair NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.16a Kinetic tremor - Right hand NP3KTRML 3.16 Kinetic tremor - Left hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17c Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE	NP3RIGN	3.3a Rigidity - Neck
PN3RIGRL 3.3d Rigidity - RLE NP3RIGLL 3.3e Rigidity - LLE NP3FTAPR 3.4a Finger Tapping Right Hand NP3FTAPL 3.4b Finger Tapping Left Hand NP3HMOVR 3.5a Hand movements - Right Hand NP3HMOVL 3.5b Hand movements - Left Hand NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPL 3.6b Pronation-Supination - Left Hand NP3PRSPL 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL 3.8b Leg agility - Left leg NP3RISNG 3.9 Arising from chair NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3PRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3PTRML 3.16a Kinetic tremor - Left hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17a Rest tremor amplitude - RLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE	NP3RIGRU	3.3b Rigidity - RUE
NP3RIGLL 3.3e Rigidity - LLE NP3FTAPR 3.4a Finger Tapping Right Hand NP3FTAPL 3.4b Finger Tapping Left Hand NP3HMOVR 3.5a Hand movements - Right Hand NP3HMOVL 3.5b Hand movements - Left Hand NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPL 3.6b Pronation-Supination - Left Hand NP3PRSPL 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL 3.8b Leg agility - Left leg NP3RISNG 3.9 Arising from chair NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3FTRML 3.16b Kinetic tremor - Left hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17c Rest tremor amplitude - LLE NP3RTALL 3.17c Rest tremor amplitude - LLE NP3RTALL 3.17c Rest tremor amplitude - LLE	NP3RIGLU	3.3c Rigidity - LUE
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NP3HMOVR 3.5a Hand movements - Right Hand NP3HMOVL 3.5b Hand movements - Left Hand NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPL 3.6b Pronation-Supination - Left Hand NP3TTAPR 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL NP3RISNG 3.9 Arising from chair NP3RSNG 3.9 Arising from chair NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTARL NP3RTALL 3.17c Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE	NP3FTAPR	3.4a Finger Tapping Right Hand
NP3HMOVL 3.5b Hand movements - Left Hand NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPL 3.6b Pronation-Supination - Left Hand NP3TTAPR 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL 3.8b Leg agility - Left leg NP3RISNG 3.9 Arising from chair NP3GAIT 3.10 Gait NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.16b Kinetic tremor - Left hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17c Rest tremor amplitude - LLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALU 3.17e Rest tremor amplitude - LLE	NP3FTAPL	3.4b Finger Tapping Left Hand
NP3PRSPR 3.6a Pronation-Supination - Right Hand NP3PRSPL 3.6b Pronation-Supination - Left Hand NP3TTAPR 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL 3.8b Leg agility - Left leg NP3RISNG 3.9 Arising from chair NP3GAIT 3.10 Gait NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Left hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTARU 3.17b Rest tremor amplitude - LUE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALU 3.17e Rest tremor amplitude - LLE NP3RTALU 3.17e Rest tremor amplitude - LLE	NP3HMOVR	3.5a Hand movements - Right Hand
NP3PRSPL 3.6b Pronation-Supination - Left Hand NP3TTAPR 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL NP3RISNG 3.9 Arising from chair NP3GAIT 3.10 Gait NP3FRZGT 3.11 Freezing of gait NP3POSTR NP3POSTR NP3POSTR NP3POSTR 3.12 Postural stability NP3POSTR NP3PTRMR 3.15a Posturel tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Left hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU NP3RTALL 3.17c Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - Lip/jaw	NP3HMOVL	3.5b Hand movements - Left Hand
NP3TTAPR 3.7a Toe tapping - Right foot NP3TTAPL 3.7b Toe tapping - Left foot NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL 3.8b Leg agility - Left leg NP3RISNG 3.9 Arising from chair NP3GAIT 3.10 Gait NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17c Rest tremor amplitude - RLE NP3RTALL NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL NP3RTALL 3.17e Rest tremor amplitude - Lip/jaw	NP3PRSPR	3.6a Pronation-Supination - Right Hand
NP3TTAPL NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL NP3RISNG 3.9 Arising from chair NP3GAIT 3.10 Gait NP3FRZGT NP3PSTBL 3.12 Postural stability NP3POSTR NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.16b Kinetic tremor - Left hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTALL NP3RTALL NP3RTALL 3.17d Rest tremor amplitude - RLE NP3RTALL NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - Lip/jaw	NP3PRSPL	3.6b Pronation-Supination - Left Hand
NP3LGAGR 3.8a Leg agility - Right leg NP3LGAGL 3.8b Leg agility - Left leg NP3RISNG 3.9 Arising from chair 3.10 Gait NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE	NP3TTAPR	3.7a Toe tapping - Right foot
NP3LGAGL 3.8b Leg agility - Left leg NP3RISNG 3.9 Arising from chair NP3GAIT 3.10 Gait NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3RTARL 3.16a Kinetic tremor - Right hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - Lip/jaw	NP3TTAPL	3.7b Toe tapping - Left foot
NP3RISNG 3.9 Arising from chair NP3GAIT 3.10 Gait NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE	NP3LGAGR	3.8a Leg agility - Right leg
NP3GAIT NP3FRZGT 3.10 Gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - LUE NP3RTALL NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - Lip/jaw	NP3LGAGL	3.8b Leg agility - Left leg
NP3FRZGT 3.11 Freezing of gait NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTARU 3.17b Rest tremor amplitude - LUE NP3RTALL 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LIP/jaw	NP3RISNG	3.9 Arising from chair
NP3PSTBL 3.12 Postural stability NP3POSTR 3.13 Posture NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - LUE NP3RTALL 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LIE	NP3GAIT	3.10 Gait
NP3POSTR 3.13 Posture 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3KTRML 3.17a Rest tremor amplitude - RUE NP3RTARU 3.17b Rest tremor amplitude - LUE NP3RTARL 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE	NP3FRZGT	3.11 Freezing of gait
NP3BRADY 3.14 Global spontaneity of movement NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - LUE NP3RTARL 3.17c Rest tremor amplitude - RLE NP3RTALL NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LIE NP3RTALL 3.17e Rest tremor amplitude - Lip/jaw	NP3PSTBL	3.12 Postural stability
NP3PTRMR 3.15a Postural tremor - Right Hand NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - LUE NP3RTARL 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - Lip/jaw	NP3POSTR	3.13 Posture
NP3PTRML 3.15b Postural tremor - Left hand NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - LUE NP3RTARL 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - LIE NP3RTALL 3.17e Rest tremor amplitude - Lip/jaw	NP3BRADY	3.14 Global spontaneity of movement
NP3KTRMR 3.16a Kinetic tremor - Right hand NP3KTRML 3.16b Kinetic tremor - Left hand NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - LUE NP3RTARL 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - Lip/jaw	NP3PTRMR	3.15a Postural tremor - Right Hand
NP3KTRML 3.16b Kinetic tremor - Left hand NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - LUE NP3RTARL 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALL 3.17e Rest tremor amplitude - Lip/jaw	NP3PTRML	3.15b Postural tremor - Left hand
NP3RTARU 3.17a Rest tremor amplitude - RUE NP3RTALU 3.17b Rest tremor amplitude - LUE NP3RTARL 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALJ 3.17e Rest tremor amplitude - Lip/jaw	NP3KTRMR	3.16a Kinetic tremor - Right hand
NP3RTALU 3.17b Rest tremor amplitude - LUE NP3RTARL 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALJ 3.17e Rest tremor amplitude - Lip/jaw	NP3KTRML	3.16b Kinetic tremor - Left hand
NP3RTARL 3.17c Rest tremor amplitude - RLE NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALJ 3.17e Rest tremor amplitude - Lip/jaw	NP3RTARU	3.17a Rest tremor amplitude - RUE
NP3RTALL 3.17d Rest tremor amplitude - LLE NP3RTALJ 3.17e Rest tremor amplitude - Lip/jaw	NP3RTALU	3.17b Rest tremor amplitude - LUE
NP3RTALJ 3.17e Rest tremor amplitude - Lip/jaw	NP3RTARL	3.17c Rest tremor amplitude - RLE
	NP3RTALL	3.17d Rest tremor amplitude - LLE
NP3RTCON 3.18 Constancy of rest	NP3RTALJ	3.17e Rest tremor amplitude - Lip/jaw
	NP3RTCON	3.18 Constancy of rest

DYSKPRES	3.19 Were dyskinesias present		
DYSKIRAT	3.20 Did movements interfere with rating		
NHY	3.21 Hoehn and Yahr Stage		
STAFFCD	Examiner		
ANNUAL_TIME_	Hours between dose and NUPDRS (max 99)		
BTW_DOSE_NUP			
ON_OFF_DOSE	PD Med None=" ",>=6 hr or PDSTATE OFF and >=3 hr="1",<6 hr="2"		
PD_MED_USE	0=No,1=Lv,2=Ag,3=Oth,4=1+3,5=1+2,6=2+3,7=1+2+3		
DBS_STAT	0 = OFF, 1 = ON		

4. Part IV(운동성 합병증)

평가자는 과거에 존재한 또한 객관적인 정보를 사용해 두 가지 운동성 합병증, 즉, dyskinesias와 OFF-state dystonia를 포함하는 motor fluctuations를 평가함. 환자와 보호자에게서 얻은 정보와 검사를 통해 얻은 정보 모두를 사용해 오늘을 포함한 지 난 1주 동안의 기능을 요약하게 됨.

퍼센트에 따라 기재해야 하는 응답도 몇 개 있으므로, 깨어있는 시간이 대체적으로 몇 시간인지확인하고 그 숫자를 "OFF time"과 Dyskinesias의 기준점으로 사용해야 함. "OFF dystonia"의 경우총 "Off time"이 이 기준점이 됨.

NP4WDYSK	4.1 Time spent with dyskinesias	
NP4DYSKI	4.2 Functional impact of dyskinesias	
NP4OFF	4.3 Time spent in the OFF state	
NP4FLCTI	4.4 Functional impact of fluctuations	
NP4FLCTX	4.5 Complexity of motor fluctuations	
NP4DYSTN	4.6 Painful OFF-state dystonia	
STAFFCD	Examiner	

Dyskinesia: 자발적이 아닌 불규칙한 움직임

Dystonia: 주로 뒤틀리는 형태를 포함하는 비틀린 자세

Motor fluctuation: 약에 대한 다양한 반응

OFF: 약을 복용하지만 그 효과가 미약한(poor response), 일반적인 기능적 상태(typical functional state) 또는 환자가 파킨슨병에 대한 치료를 받지 않을 때의 일반적인 기능적 반응 (typical functional response)

ON: 환자가 약을 복용하면서 그 효과가 긍정적인(good response), 일반적인 기능적 상태 (typical functional state):

TAP-PD Kinetics Device Testing Data Index

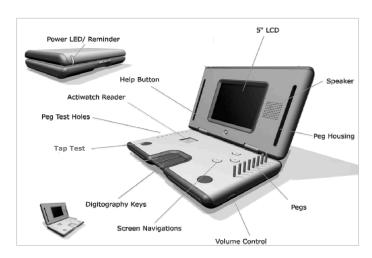
제목: Three Site Assessment of the Potential for Home Dexterity Monitoring in a PD Biomarker Study (TAP-PD)

실험 디바이스: Objective Parkinson's Disease Measurement (OPDM) dexterity system

실험 참가자 수: 45

연구 기간: 최대 1년까지의 관찰

측정 요소: finger-tapping speed, reaction time, hand movement time, foot tapping, and speech.



- Digitography(키보드 테스트): 피험자는 오른손의 집게와 가운데 손가락을 이용하여 가능한 한 빨리 두 개의 나란히 있는 키(Digitography key)를 번갈아 두드리도록 지시받는다. 청각 및 시각 신호는 시험 시작을 나타낸다. 피험자는 멈추라는 지시가 있을 때까지 계속 두드린다. 왼손으로 시험을 반복한다. 피험자는 이 시험 동안기기 앞에 있는 패드에 손목을 올려놓고 시험을 진행한다.
- Paced Keyboard Test: 피험자는 오른손의 집게와 가운데 손가락을 사용하여 메트로놈에 따라 두 개의 나란 히 있는 키(Digitography key)를 번갈아 두드리도록 지시받는다. 메트로놈 속도는 처음에 느리게 시작하지만 점차 빨라진다. 피험자는 멈추라는 지시가 있을 때까지 메트로놈의 리듬에 따라 두드리도록 지시를 받는다. 피험자는 왼 손으로 같은 시험을 반복한다.
- Pegboard: OPDM 한쪽에 있는 구멍에 8개의 페그(pegs)가 삽입되어 피험자에게 제시된다. 피험자는 청각 및 시각 신호가 나타날 때부터 시작하여 가능한 한 빨리 장치 반대편의 구멍으로 페그를 한 번에 하나씩 옮기도록 지시 받는다. 피험자는 반대 손으로 시험을 반복한다.

TAPDAY	Days since Baseline TAP assessment
QMAT_KEYDOWN	QMAT keyboard downstroke velocity, combo
QMAT_KEYDOWN_RIGHT	QMAT keyboard downstroke velocity, right hand
QMAT_KEYDOWN_LEFT	QMAT keyboard downstroke velocity, left hand
QMAT_PEGCYCLE	QMAT pegboard cycle duration, combo

QMAT_PEGCYCLE_RIGHT	QMAT pegboard cycle duration, right hand
QMAT_PEGCYCLE_LEFT	QMAT pegboard cycle duration, left hand
QMAT_KEYTRAN	QMAT keyboard transition velocity, combo
QMAT_KEYTRAN_RIGHT	QMAT keyboard transition velocity, right hand
QMAT_KEYTRAN_LEFT	QMAT keyboard transition velocity, left hand
DOM_SIDE	Dominant Side
AFF_SIDE	Most Affected Side

TAP-PD OPDM Use Questionnaire Data Index

UNDRSDIR	How hard to understand directions	0: Not at all
		1: A little
		2: Moderately
		3: Very
		0: Not at all
CONFCORR	Llow confident daing took compathy	1: A little
CONFCORR	How confident doing task correctly	2: Moderately
		3: Very
	How did this fit into your reg schedule	0: Easy
FITOOLIED		1: A little trouble
FITSCHED		2: Moderately difficult
		3: Very difficult
	Did you need to be reminded	0: Not at all
NDREMIND		1: Rarely
NDREWIND		2: Sometimes
		3: Often
AFFPPMI		0: A lot more negative
	Affect how felt about main PPMI study	1: A little more negative
		2: No change
		3: A little more positive
		4: A lot more positive

Upper Extremity Function Mobility Data Index

#Upper Extremity Function Mobility Data Index

UEFI는 상지 근골격계 기능 장애를 가진 개인의 기능 장애를 평가하는데 사용되며, UEFI는 가정 및 직장 활동, 취미, 들기, 두피 세척, 손 밀어 올리기 등의 상지 근골격계를 이용한 일상 생활 활 동 수행의 난이도를 평가하는 5점 평가 척도로 구성되어 있으며 숫자가 낮을수록 장애의 정도가 심함을 나타낸다.

NQUEX29	8	able to turn key in lock
NQUEX20	9	able to brush your teeth
NQUEX44	10	make call using touch tone key pad
NQUEX36	11	able to pick up coins from table
NQUEX30	12	able to write with pen or pencil
NQUEX28	13	able to open and close a zipper
NQUEX33	14	able to wash and dry your body
NQUEX37	15	able to shampoo your hair

#Upper Extremity Function Mobility Questionnaire

	Extreme	Quite a bit	Moderate	A little bit of	Almost no	No difficulty
	Difficulty	of difficulty	difficulty	difficulty	difficulty	
1. able to turn key in lock	0	1	2	3	4	5
2. able to brush your teeth	0	1	2	3	4	5
3. able to make call using touch tone key pad	0	1	2	3	4	5
4. able to pick up coins from table	0	1	2	3	4	5
5. able to write with pen or pencil	0	1	2	3	4	5
6. Able to open and close a zipper	0	1	2	3	4	5
7. able to wash and dry your body	0	1	2	3	4	5
8. able to shampoo your hair	0	1	2	3	4	5

Lower Extremity Function Mobility Data Index

#Low Extremity Functional Scale

LEFS는 정도가 심하지 않은 하지 장애를 하나 또는 둘 갖고 있는 환자의 기능 장애를 평가하는데 사용되며 시간이 지남에 따라 환자를 모니터링하고 환자의 상태를 평가하는데 사용된다. 환자들은 자신의 신체적 상태에 따라 0부터 5까지의 척도를 표시할 수 있으며, 숫자가 낮을수록 장애의 정도가 심함을 나타낸다.

NQMOB37	8	able to get on and off toilet
NQMOB30	9	able to step up and down curbs
NQMOB26	10	able to get in and out of car
NQMOB32	11	able to get out of bed into chair
NQMOB25	12	able to push open a heavy door
NQMOB33	13	able to run errands and shop
NQMOB31	14	able to get off floor without help
NQMOB28	15	able to go for walk at least 15 min

#Lower Extremity Function Mobility Questionnaire

	Extreme Difficulty	Quite a bit of difficulty	Moderate difficulty	A little bit of difficulty	Almost no difficulty	No difficulty
1. able to get on and off toilet	0	1	2	3	4	5
2. able to step up and down curbs	0	1	2	3	4	5
3. able to get in and out of car	0	1	2	3	4	5
4. able to get out of bed into chair	0	1	2	3	4	5
5. able to push open a heavy door	0	1	2	3	4	5
6. Able to run errands and shop	0	1	2	3	4	5
7. able to get off floor without help	0	1	2	3	4	5
8. able to go for walk at least 15 min	0	1	2	3	4	5

Deep Brain Stimulation Data Index

#Deep Brain Stimulation

Deep Brain Stimulation은 몸의 움직임을 담당하는 뇌 부위에 전기 신호를 보내는 장치를 이식하는 수술로서 뇌에 이식된 신경 자극기는 뇌 활동을 조절하기 위해 전기 펄스를 사용하는 방식으로 방식이 이루어진다. 환자는 DBS 시스템을 조절하기 위해 휴대용 컨트롤러를 사용하고, 의료진은 무선 장치를 통해 자극기의 설정을 프로그래밍 한다. 운동장애 증상이 악화되고 약물 치료가 효력을 잃기 시작하면 DBS를 이용해 떨림, 느림, 이상증 등의 증상을 완화하는데 사용된다.

DBS는 총 세 부분으로 구성된다.

- 1) Neuro Stimulator: 쇄골 아래 가슴 혹은 복부에 설치되어 전기 펄스를 생성한다.
- 2) Lead: 다수의 전극이 있는 코팅된 와이어로, 뇌 조직에 전기 펄스를 전달한다.
- 3) Extension: Lead를 Neurotransmitter에 연결하는 절연 와이어로 신체 곳곳에 연결된다.

#Data Index

DBSYN	8	Does subject have DBS
DBSOFFPR	9	DBS turned off prior MDS-UPDRS III Off
DBSRSNON	10	Reason DBS left on
DBSOFFTM	11	Time DBS turned off prior to OFF Prt III
DBSONTM	12	Time DBS turned on after the OFF Prt III

Modified Schwab and England ADL

#Modified Schwab and England ADL

Modified Schwab and England ADL scale은 거동이 불편한 사람들의 정도를 평가하는 방법이다. 환자들이 일상 활동이나 집안일 등을 완료하는데 나타나는 어려움을 평가하며, 다른 환자의 데이터와 비교하기 위해 백분율을 사용한다.

MSEADLG	12	Modified Schwab and England
		- Overall

Modified Schwab and England ADL scale

Percentage of independence	Description	Awareness of
		difficulties
100%; Completely independent	Able to do all chores without slowness, difficulty or impairment. 느림, 어려움 또는 장애 없이 모든 집안일을 할 수 있다.	Unaware
90%; Completely independent	Able to do all chores, but with some degree of slowness, difficulty and/or impairment. One might take two times longer than normal to complete chores. 모든 집안일을 할 수 있지만 어느 정도 느림, 어려움 및/또는 손상이 있다. 집안일을 마치려면 보통 때보다 두 배나 더 오래 걸릴지도 모른다.	Somewhat aware
80%; Usually completely independent	Takes two times longer than normal to complete chores. 집안일을 끝내는 데 평소보다 두 배 더 오래 걸린다.	Aware
70% ; Mostly independent	Faces more difficulty with some chores. One spends a large part of the day with chores and might take three to four times longer than normal. 집안일로 인해 더 많은 어려움에 직면한다. 하루의 상당 부분을 잡일로 보내며 보통 때보다 3~4배 정도 더 오래 걸릴 수도 있다.	Aware

60%; Somewhat independent	Can do most chores, but exceedingly slowly and with much effort. Errors are possible during the chores. 대부분의 집안일은 할 수 있지만, 매우 느리고 많은 노력을 들여야한다. 집안일을 하는 실수 등의 오류가 발생할 수 있다.	Aware
50%; Mostly dependent	Needs help with half of every chore. Everything is difficult to one. 모든 일의 반은 도움이 필요하다.	Aware
40%; Very dependent	Can assist with chores, and can complete some alone. 집안일을 도울 수 있고, 혼자서 일을 끝낼 수 있기는 한 정도.	Aware
30%; Very dependent	With help, can start chores. One can also complete few chores with effort and help. 도움을 받으면 집안일을 시작할 수 있다. 도움을 받고, 노력을 하면 몇가지의 집안일은 끝낼수 있다.	Aware
20%; Very dependent	Can slightly help with chores, but cannot complete any alone. 집안일은 조금 도울 수 있지만, 혼자서는 아무 것도 끝낼 수 없다.	Aware
10%; Fully dependent	Is helpless and somewhat comatose. 도움을 줄 수 없으며 거의 혼수상태이다.	Aware
0% ; Fully dependent	ls bedridden and helpless. One is almost completely comatose. 병상에 누워있으며 완전히 혼수상태이다.	Aware

Gait Data (Arm Swing) Data Index

#Gait Data

움직임의 체계적인 연구를 진행할 수 있도록 분석된 걸음걸이 데이터. 신체 운동, 신체 역학, 근육의 활동 등을 측정하기 위해서 이용되고 있으며, 보행 분석을 이용하여 보행 능력에 영향을 미치는 조건을 가진 개인을 평가하고 치료하는데에 사용된다. 측정 가능한 파라미터의 도입과 다양한 패턴에서 다양한 결과를 도출할 수 있다. 운동기능에 대한 보다 민감한 테스트는 선행성 운동변화를 확인할 수 있는 가능성을 증가시키기 위해 필요하며, 걸음걸이와 이동성의 정량적 측정을통해 진단 및 질병의 진행을 측정하고 평가할 수 있다.

COHORT	Cohort
	(1-asymptomatic relatives, 2-true controls, 3 PD)
SP_U	Speed base walking (m/sec)
RA_AMP_U	Right arm amplitude base walking (deg)
LA_AMP_U	Left arm amplitude base walking (deg)
RA_STD_U	Right arm variability base walking (%)
LA_STD_U	Right arm variability base walking (%)
SYM_U	Arms symmetry base walking (%)
R_JERK_U	Jerk Right base walking (deg/sec^3)
L_JERK_U	Jerk Left base walking (deg/sec^3)
ASA_U	ASA base walking (%)
ASYM _IND_U	Asymmetry index base walking (%)
TRA_U	Trunk Rotation Asymmetry base walking (%)
T_AMP_U	Average trunk amplitude base walking (deg)
CAD_U	Cadence base walking (step/min)
STR_T_U	Average stride time base walking (sec)
STR_CV_U	Stride CV base walking (%)
STEP_REG_U	Step Regularity base walking (g^2)
STEP_SYM_U	Step Symmetry base walking
JERK_T_U	Jerk base walking (m/sec^3)
SP_DT	Dual task speed walking (m/sec)
RA_AMP_DT	Right arm amplitude dual task walking (deg)
LA_AMP_DT	Right arm variability dual task walking (%)
SYM_DT	Arms symmetry dual task walking (%)

R_JERK_DT	Jerk Right dual task walking (deg/sec^3)
L_JERK_DT	Jerk Left dual task walking (deg/sec^3)
ASA_DT	ASA dual task walking (%)
ASYM _IND_DT	Asymmetry index dual task walking (%)
TRA_DT	Trunk Rotation Asymmetry dual task walking (%)
T_AMP_DT	Average trunk amplitude dual task walking (deg)
CAD_DT	Cadence dual task walking (step/min)
STR_T_DT	Average stride time dual task walking (sec)
STR_CV_DT	Stride CV dual task walking (%)
STEP_REG_DT	Step Regularity dual task walking (g^2)
STEP_SYM_DT	Step Symmetry dual task walking
JERK_T_DT	Jerk dual task walking (m/sec^3)
SW_VEL_OP	Eyes open sway velocity (m/sec)
SW_PATH_OP	Eyes open sway path (m/sec^2)
SW_FREQ_OP	Centroidal frequency eyes open sway (HZ)
SW_JERK_OP	Jerk eyes open sway (m/sec^3)
SW_VEL_CL	Eyes close sway velocity (m/sec)
SW_PATH_CL	Eyes close sway path (m/sec^2)
SW_FREQ_CL	Centroidal frequency eyes close sway (HZ)
SW_JERK_CL	Jerk eyes close sway (m/sec^3)
TUG1_DUR	TUG1 duration (sec)
TUG1_STEP_NUM	TUG1 number of step (#number)
TUG1_STRAIGHT_DUR	TUG1 Average step duration during straight walking (sec)
TUG1_TURNS_DUR	TUG1 Average step duration during turns (sec)
TUG1_STEP_REG	TUG1 Step regularity (g^2)
TUG1_STEP_SYM	TUG1 step symmetry
TUG2_DUR	TUG2 duration (sec)
TUG2_STEP_NUM	TUG2 number of step (#number)
TUG2_STRAIGHT_DUR	TUG2 Average step duration during straight walking (sec)
TUG2_TURNS_DUR	TUG2 Average step duration during turns (sec)
TUG2_STEP_REG	TUG2 Step regularity (g^2)
TUG2_STEP_SYM	TUG2 step symmetry

Sway	Timed Up and Go (TUG)	Walking	Arm swing	Axial
velocity (mm/s)	TUG duration (s)	Walk Speed (m/sec)	Amplitude_Right_arm (deg)	Trunk Rotation Asymmetry (%)
Sway path (mm)	Number of steps	Cadence (steps/min)	Amplitude_Left_arm (deg)	Average Amplitude trunk (deg)
centroidal frequency (Hz)	Average step duration during straight walking (s)	Average stride time (sec)	Variability _Right_arm (%)	
Jerk (m²/s ⁵⁾	Average step duration during turns (s)	Stride CV (%)	Variability _Left_arm (%)	
	Step regularity [g^2]	Step Regularity	Symmetry Right/Left	
	Step Symmetry	Step Symmetry	Jerk Right (deg/ ³)	
		Jerk (deg/ ³)	Jerk Left (deg/ ³)	
			Asymmetry_index	

Sleep Disorder Data Index

Epworth Sleepiness Scale

'이런 상황에서 얼마나 졸린지'에 관한 질문에 대한 환자들의 응답. 총 8개의 질문이 존재하며, 환자들은 각 상황에서 본인의 졸음도에 따라 0부터 3까지의 척도 중 하나를 선택하여 응답할 수 있다. 응답의 총점이 9점 이하일 경우 정상, 10점 이상일 경우 졸음도가 높은 것으로 판단된다.

<질문지>

ESS1: Sitting and reading

· ESS2: Watching TV

· ESS3: Sitting, inactive in a public place

• ESS4: As a passenger in a car for an hour

• ESS5: Lying down to rest in the afternoon

· ESS6: Sitting and talking to someone

· ESS7: Sitting quietly after lunch

· ESS8: In a car, while stopped in traffic

REM Sleep Disorder Questionnaire

평소 수면에 있어 특별히 여길 만한 특이사항이 있는지 체크하는 문항들. 환자들은 각 문항에 관해서 1(YES) 혹은 0(NO) 둘 중 하나를 선택하여 답변할 수 있다.

DRMVIVID	9	Vivid Dreams
DRMAGRAC	10	Aggressive or Action-packed dreams
DRMNOCTB	11	nocturnal behaviour
SLPLMBMV	12	move arms/legs during sleep
SLPINJUR	13	hurt bed partner
DRMVERBL	14	speaking in sleep
DRMFIGHT	15	sudden limb movements
DRMUMV	16	complex movements
DRMOBJFL	17	things fell down

MVAWAKEN	18	my movements awake me
DRMREMEM	19	remember dreams
SLPDSTRB	20	sleep is disturbed
STROKE	21	stroke
HETRA	22	head trauma
PARKISM	23	parkinsonism
RLS	24	RLS
NARCLPSY	25	narcolepsy
DEPRS	26	depression
EPILEPSY	27	epilepsy
BRNINFM	28	inflammatory disease of the brain
CNSOTH	29	other
CNSOTHCM	30	Specify (Other에 1이라 체크한 경우 주관식 응답)