

**Supplementary Table 1. Subjective and objective assessment measures and abbreviations of sleep questionnaires**

<b>Diagnostic Tool</b>	<b>Abbreviation</b>	<b>Measure</b>
<b>Questionnaires</b>		
Athens Insomnia Scale	AIS	Insomnia symptoms
Basic Nordic Sleep Questionnaire	BNSQ	Sleep quality, medication use, daytime sleepiness, napping, snoring and general sleep habits
Berlin Questionnaire	BQ	Sleep apnea diagnosis
Bologna Questionnaire		Questions concerning excessive daytime sleepiness
Child Behaviour Checklist	CBCL	Completed by parents to detect behavioural problems
Epworth Sleepiness Scale	ESS	Daytime sleepiness
Fatigue Questionnaire	FQ	Fatigue severity
Fatigue Severity Scale	FSS	Impact of fatigue
Functional Outcomes of Sleep Questionnaire	FOSQ	Assess impact of daytime sleepiness on activities
Insomnia Severity Index	ISI	Impact and severity of Insomnia
John Hopkins Restless Leg Syndrome Severity Scale	JHRLSSG	Clinical scale assessing severity of restless leg syndrome
Mayo Sleep Questionnaire	MSQ	Screens for RBD, PLMD, RLS, OSA, sleep walking and sleep-related leg cramps
Modified Fatigue Impact Scale	MFIS	Fatigue impact
Modified Simonds and Parraga Sleep Questionnaire	MSPSQ	Used to characterise sleep disturbances in young children
Morningness-eveningness Questionnaire	MEQ	Circadian rhythm
Multidimensional Fatigue Inventory	MFI	20-items designed to measure fatigue
Multidimensional Fatigue Symptom Inventory	MFSI	30 statements designed to assess fatigue by indicating the extent of symptoms experienced over a one-week period
Non-Motor Symptoms Questionnaire	NMSQuest	Assesses non-motor symptoms in Parkinson's Disease including sleep disturbances such as nocturia, sleep initiation and maintenance, vivid dreams, RBD and RLS
Non-Motor Symptoms Scale for Parkinson's Disease	NMSS	Measures the severity and frequency of non-motor symptoms across nine domains including sleep/fatigue
Pittsburgh Sleep Quality Index	PSQI	Sleep quality over a one-month interval
Parkinson's Disease Sleep Scale	PDSS	Sleep disruption amongst PD patients
Parkinson's Disease Fatigue Scale	PFS	Fatigue and its impact on daily function amongst PD patients
REM Sleep Behaviour Disorder Screening Questionnaire	RBDSQ	RBD diagnosis
SCOPA-Sleep		Night-time sleep and daytime sleepiness for use amongst PD patients

Sleep Diary		Records sleep patterns and habits that can be useful in diagnosing sleep disorders
Sleep Disorders Questionnaire	SDQ	Measures sleep disturbance and sleep habits aimed to identify those at high risk of a sleep disorder (sleep apnea, narcolepsy, psychiatric disorders and periodic limb movement disorder)
Sleep Disturbance Scale for Children	SDSC	Evaluates sleep among children aged 13-18 years, differentiating disorders of sleep initiation and maintenance, sleep breathing disorders, disorders of arousal, sleep-wake transition disorders, excessive somnolence, and sleep hyperhidrosis
Stanford Sleepiness Scale	SSS	Quantifies sleepiness
STOP-Bang		Screens for OSA
The Sleep Disorders Questionnaire for HD	HDSQ	Evaluates sleep quality, motor activity, abnormal motor behaviour during sleep and other sleep disorders
Ullanlinna Narcolepsy Scale	UNS	Evaluate a variety of symptoms relating to narcolepsy
<b>Assessment Tools</b>		
Apnea-Hypopnea Index	AHI	A measure of the number of apneas (pauses in breathing) or hypopneas (periods of shallow breathing) recorded during sleep. An AHI rating of <5 is considered normal
Maintenance of Wakefulness Test	MWT	A tool used measure ability to stay awake and alert during the daytime
Multiple Sleep Latency Test	MSLT	A diagnostic tool used to measure the time taken to fall asleep during a daytime nap. 15 to 20 minutes is considered normal
Periodic Limb Movements Index	PLMI	Use to calculate the number of limb movements per hour during sleep. An index of <5 is considered normal
Polysomnography	PSG	An overnight sleep study used to diagnose sleep disorders through the use of electroencephalogram