**PD Evaluation Scales:**

UPDRS – monitors disability and impairment.

* I: Mentation, behavior, mood
* II: Activities of daily living
* III: Motor examination
* IV: Complications of Therapy

Hoehn and Yahr Scales – global assessment of severity (based on clinical findings and functional disability)

Schwab – standard instrument, used as a measure of independence (%)

**Motor:**

TAP-PD(only 33 unique patients for TAP-PD):

**Cognitive Assessment in PD:**

Montreal Cognitive Assessment – detects mild cognitive impairment

* Short-term memory recall task
* Visuospatial abilities assessment (clock-drawing task, three-dimensional cube copy)
* Executive function assessment
* Attention, concentration, working memory evaluated
* Serial subtraction
* Digits forward and backward
* Naming task with low-familiarity animals
* Repetition of syntactically complex sentences
* Orientation to time and place

Benton Judgment of Line Orientation

* Measures person’s ability to match angle and orientation of lines in space

Hopkins Verbal Learning Test

* Immediate, delayed recall/recognition evaluated
* **Scoring** (include reference to detailed scoring instructions, including calculation of a total score and subscale scores, and any limitations of scale or scoring posed by item nonresponse): Raw scores are derived for Total Recall (# items correctly recalled on each of 3 trials, maximum 36), Delayed Recall (# items correctly recalled following delay, maximum 12), Retention (% of items initially recalled that are also recalled after delay), and a Recognition Discrimination Index (# hits minus # false positives in 12 target + 12 foil recognition test, Solomon et al, 2007).
* **Standardization of scores to a reference population** (z scores, T scores, etc): Published manual norms are available. T scores can be are derived from raw scores for different age ranges.
* **If scores have been standardized to a reference population, indicate frame of reference for scoring** (general population, HD subjects, other disease groups, etc)**.** General population.

Letter Number Sequencing – participant is read aloud a string of combined numbers and letters, and then must repeat them in sequence, first numbers and then letters.

Semantic Fluency (Animal, Vegetables, Fruit)

Symbol Digit Modality Test – divided attention, visual scanning, motor speed.

UPSIT – measures olfaction

**Sleep Assessment:**

Epworth Sleep Scale – measure of daytime sleepiness (<=9 is normal, >10 is sleepy)

REM Sleep Disorder Questionnaire – people who act out their dreams, sleep talking.

**Mood and Behavior**:

Geriatic Depression Scale – assesses depressive symptoms in the elderly

* (30-item self-reported questionnaire)
* 0-4 normal
* 5-7 mild
* 8-11 moderate
* 12-15 severe

QUIP – Questionnaire for Impulsive-Compulsive Disorders (gambling, sexual behavior, buying, eating)

State-Trait Anxiety Inventory – state anxiety (anxiety about an event) and trait anxiety (personal characteristic)

**Biological**:

SCOPA-AUT (Scales for Outcomes in Parkinson’s disease) – bodily functions, urine, sex, constipation/bowel problems