

Categories of Datasets: Minimal, Core and Extended

Please note: The items below are meant to serve as a **guide**, and although “hierarchical” there can be overlap (e.g., you may have some missing data for the “Core” dataset, but have other data available for the “Extended” dataset). We would generally also **not** exclude patients/families just because some items are missing (even from the “Minimal” dataset). However, the completeness of the submitted data will potentially influence the prioritization for sample analysis and/or remuneration (if and when available) to participating centres.

1. Minimal dataset

- Part 1, Items 1-5, 7, 10 or 11, 12-14
- Part 2, Items 1-3, 5, 6
- Part 3, Items 1, 3

2. Core dataset

As for Minimal dataset, plus:

- Part 1, Items 6, 8, 9
- Part 2, Items 3, 4, 7, 8
- Part 3, Items 2, 4 (UPDRS or MDS-UPDRS), 6-9

3. Extended dataset

As for Core dataset, plus:

- Part 2, Item 9
- Part 3, Items 4 (Questionnaires/Rating Scales other than UPDRS or MDS-UPDRS), 5
- Part 4

Part 1 - Demographics & Basic Clinical Details

1. **Site/Principal Investigator:**

2. **Patient ID:**

3. **Date of birth:**

4. **Sex:** Male Female

5. **Ethnicity (check all that apply):** Dropdown list for:

American Indian / Alaska Native

Arab

Asian; further dropdown for: Chinese; Indian; Filipino; Japanese; Korean; Malay; Central Asian; Other (please state):

Black or African American

European / Caucasian / White

Hispanic / Latino

Jewish (Ashkenazi)

Jewish (non-Ashkenazi)

Native Hawaiian / Other Pacific Islander

Other (please state):

Unknown

6. **Consanguinity** (*"Are your parents related by blood, for example, could they be cousins?"*):

- No Yes; please describe: Possibly; please describe:

7. **Country where patient has lived most of his/her life:** (dropdown list - use MDS/World Bank listing of countries, categorized by income)

8. **Education completed:**

- Primary Secondary Tertiary

9. **Longest lifetime occupation:** (dropdown list)

For more information check the Global Parkinson's Genetics Program (GP2) website www.gp2.org or email info@gp2.org

10. Year of PD motor symptom onset ("In what year did you first notice difficulties with your movements?"):

11. Year of PD diagnosis ("In what year were you first told by your doctor that you have Parkinson's?"):

12. Criteria used to diagnose PD (can select more than 1):

2 out of 3 cardinal motor features (bradykinesia, rigidity and resting tremor), and not more likely to be an alternative diagnosis (e.g., Parkinson-plus syndrome, drug-induced parkinsonism, vascular parkinsonism, etc.)

Queen Square Brain Bank Criteria

MDS clinical diagnostic criteria for "Clinically Established PD"

MDS clinical diagnostic criteria for "Clinically Probable PD"

13. Month and year of last contact:

14. Current status:

Under active follow-up

Deceased; Year of death: ____ Cause of death: ____

Not under active follow-up, but recontactable

Unknown or uncontactable

Part 2 - Genotyping & Family History

1. Year of sample collection:

2. Genotyping done?

No

Yes, and found to have mutation(s) that are at least likely pathogenic in:

PRKN

DJ-1

SNCA

VPS35

PINK1

LRRK2

GBA

Other (please specify):

Yes, and found not to have any likely pathogenic mutation related to PD

If answering Yes to Q2:

3. Genotyping platform used (check all that apply):

Single/Candidate-gene (Sanger) sequencing

NeuroChip

Multiplex ligation-dependent probe amplification (MLPA)

Whole-exome sequencing

NGS-based custom PD-gene panel

Whole-genome sequencing

4. Please give detailed description of positive findings (including details at cDNA and protein level, and zygosity, e.g., "*LRRK2*, c.6055G>A, p.G2019S, heterozygous, or "*PRKN*, c.(7+1_8-1)_(171+1_172-1)del, homozygous):

[Provide dropdown list as per MDSGene platform, first with gene, then cDNA and protein level changes, and zygosity]

Or upload report, without patient-identifying details

5. Family member(s) with diagnosed PD ("Have any members of your immediate or extended family been diagnosed with Parkinson's by a doctor?"):

No Yes; number of relatives diagnosed with PD: ____; please list:

Relationship to index case	Year of birth	Year of PD diagnosis	Genetic diagnosis achieved	Sample availability
1.			<input type="radio"/> Not done <input type="radio"/> Negative <input type="radio"/> Yes (Same as index case) <input type="radio"/> Yes (Different from index)	<input type="radio"/> Not available <input type="radio"/> No, but contactable <input type="radio"/> Yes

6. Other family member(s) with symptoms suggestive of PD ("Are there any other family members with symptoms or signs suggestive of Parkinson's?"):

No Yes; number of relatives with symptoms but not diagnosed with PD: ____; please list:

Relationship to index case	Year of birth	Year of symptom onset	Genetic diagnosis achieved	Sample availability
1.			<input type="radio"/> Not done <input type="radio"/> Negative <input type="radio"/> Yes (Same as index case) <input type="radio"/> Yes (Different from index)	<input type="radio"/> Not available <input type="radio"/> No, but contactable <input type="radio"/> Yes

7. Family members with other neurological disorders ("Have any members of your immediate or extended family been diagnosed with neurological disorders other than Parkinson's, such as a Parkinson-plus syndrome, dementia, motor neuron disease, cerebellar ataxia, dystonia, spastic paraplegia, epilepsy, or intellectual disability?"):

No Yes; number of relatives diagnosed with neurological disorders other than PD: ____; please list:

Relationship to index case	Year of birth	Neurological disorder	Year of diagnosis	Genetic diagnosis achieved	Sample availability
1.				<input type="radio"/> Not done <input type="radio"/> Negative <input type="radio"/> Yes; Please specify the mutated gene: ____	<input type="radio"/> Not available <input type="radio"/> No, but contactable <input type="radio"/> Yes

8. Healthy immediate family members (without neurological condition):

No Yes; number of healthy relatives in the immediate family (parents, siblings) ≥ 18 years of age: ____; please list:

Relationship to index case	Year of birth	Sample availability
1.		<input type="radio"/> Not available <input type="radio"/> No, but contactable <input type="radio"/> Yes

9. Ethnicity and country of birth of grandparents:

Father's father: (dropdown lists as for Part 1 Q5 above, and Part 1 Q7 above)
 Father's mother: (dropdown lists as for Part 1 Q5 above, and Part 1 Q7 above)
 Mother's father: (dropdown lists as for Part 1 Q5 above, and Part 1 Q7 above)
 Mother's mother: (dropdown lists as for Part 1 Q5 above, and Part 1 Q7 above)

Part 3 - Clinical Features of PD & Investigations

1. Motor features

Year of assessment: ____

Resting tremor	<input type="radio"/> No <input type="radio"/> Yes* <input type="radio"/> Unknown	Postural instability / Falls	<input type="radio"/> No <input type="radio"/> Yes* <input type="radio"/> Unknown
Postural tremor	<input type="radio"/> No <input type="radio"/> Yes* <input type="radio"/> Unknown	Dystonia	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Action tremor	<input type="radio"/> No <input type="radio"/> Yes* <input type="radio"/> Unknown	Clear favourable response to dopaminergic medication	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Slow movements	<input type="radio"/> No <input type="radio"/> Yes* <input type="radio"/> Unknown	Motor fluctuations (ON/OFF periods related to timing of dopaminergic medications)#	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Rigidity/stiffness	<input type="radio"/> No <input type="radio"/> Yes* <input type="radio"/> Unknown	Levodopa-induced dyskinesias#	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Gait difficulty	<input type="radio"/> No <input type="radio"/> Yes* <input type="radio"/> Unknown	Sleep benefit	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Gait freezing	<input type="radio"/> No <input type="radio"/> Yes* <input type="radio"/> Unknown	Upper motor neuron signs (hyperreflexia, plus extensor plantar response or sustained clonus)	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown

*If answering Yes, there should be a dropdown list for:

Before, or at the time of, PD diagnosis During the disease course

#If answering Yes, there should be a dropdown for:

Date first observed (by history or examination):

2. First motor symptom:

<input type="radio"/> Tremor	<input type="radio"/> Stiffness / frozen shoulder	<input type="radio"/> Gait disorder	<input type="radio"/> Other (please specify)
<input type="radio"/> Micrographia	<input type="radio"/> Impaired manual dexterity	<input type="radio"/> General slowing up	<input type="radio"/> Unknown

3. Non-motor features

Year of assessment: ____

RBD	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	Impulse control disorders	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Insomnia	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	Constipation	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Excessive daytime sleepiness	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	Urinary dysfunction	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Depression symptoms	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	Orthostatic hypotension	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Anxiety	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	Pain	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown

Mild cognitive impairment	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	Hyposmia	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Dementia	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	Underweight	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Visual hallucinations	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	Other (please specify):	

If answering Yes to any of the above items, there should be a dropdown list for:

Before, or at the time of, PD diagnosis During the disease course

4. PD rating scales

Please tick any that are available:

(Please give the patient's latest assessments)

Hoehn & Yahr; Stage: 1/2/3/4/5; Year of assessment: ____

UPDRS; Part III score: ____ ON-medication OFF-medication Not specified); Year of assessment: ____; Total score: ____ ON-medication OFF-medication Not specified); Year of assessment: ____

MDS-UPDRS; Part III score: ____ ON-medication OFF-medication Not specified); Year of assessment: ____; Total score: ____ ON-medication OFF-medication Not specified); Year of assessment: ____

CISI-PD; scores for Motor signs: ____; Disability: ____; Motor complications (dyskinesia and fluctuations): ____; Cognitive status: ____; Total score: ____; Year of assessment: ____

PDQ-39 Total score: ____; Year of assessment: ____

NMSS Total score: ____; Year of assessment: ____

NMSQ Total score: ____; Year of assessment: ____

MOCA Total score: ____; Year of assessment: ____

MMSE Total score: ____; Year of assessment: ____

SCOPA-AUT Total score: ____; Year of assessment: ____

5. Investigations

Modality	Year of most recent study	Result
<input type="radio"/> Brain CT		<input type="radio"/> Normal <input type="radio"/> Abnormal; Please give details: <input type="radio"/> Unknown
<input type="radio"/> Brain MRI		<input type="radio"/> Normal <input type="radio"/> Abnormal; Please give details: <input type="radio"/> Unknown
<input type="radio"/> DAT scan/PET		<input type="radio"/> Normal <input type="radio"/> Abnormal; Please give details: <input type="radio"/> Unknown
<input type="radio"/> Transcranial sonography		<input type="radio"/> Normal <input type="radio"/> Abnormal; Please give details: <input type="radio"/> Unknown
<input type="radio"/> Smell testing (e.g., UPSIT, Sniffin Sticks - please specify)		<input type="radio"/> Normal <input type="radio"/> Abnormal; Please give details: <input type="radio"/> Unknown
<input type="radio"/> Polysomnography for RBD		<input type="radio"/> Normal <input type="radio"/> Abnormal; Please give details: <input type="radio"/> Unknown
<input type="radio"/> Myocardial MIBG scintigraphy		<input type="radio"/> Normal <input type="radio"/> Abnormal; Please give details: <input type="radio"/> Unknown
<input type="radio"/> Other (please specify)		<input type="radio"/> Normal <input type="radio"/> Abnormal; Please give details: <input type="radio"/> Unknown

Treatment of PD

6. Year of assessment (if possible, please use the same assessment year as when the UPDRS/MDS-UPDRS was administered): ____

7. PD medications:

Levodopa	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	MAO-B inhibitor (selegiline, rasagiline)	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
COMT inhibitor (entacapone or opicapone)	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	Anticholinergic (e.g., benhexol, trihexyphenidyl)	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
Dopamine agonist (e.g., pramipexole, ropinirole, piribedil, rotigotine)	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown	Amantadine	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown

8. Levodopa-equivalent daily dosage (LEDD): ____ mg/d
(Please use the LEDD calculator provided)

9. Device-aided therapies for PD:

Functional neurosurgery	<input type="radio"/> No <input type="radio"/> Yes; Year of surgery: ____ <input type="radio"/> Unknown
Apomorphine infusion	<input type="radio"/> No <input type="radio"/> Yes; Year commenced: ____ <input type="radio"/> Unknown
Levodopa-carbidopa intestinal gel	<input type="radio"/> No <input type="radio"/> Yes; Year commenced: ____ <input type="radio"/> Unknown

Part 4 - Environmental/Acquired Factors Prior to PD Motor Symptom Onset

1. Diabetes mellitus	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
2. Gout	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
3. <i>Helicobacter pylori</i> infection	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
4. Irritable bowel syndrome	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
5. Inflammatory bowel disease	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
6. Appendectomy	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
7. Vagotomy	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
8. Melanoma	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
9. Chronic hepatitis B infection	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
10. Chronic hepatitis C infection	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown
11. Chronic renal failure	<input type="radio"/> No <input type="radio"/> Yes <input type="radio"/> Unknown

Behavioural/Environmental history using:

12. Mini Environmental Risk Questionnaire (MERQ-PD-B) (covering pesticides, other chemicals, caffeine, smoking, head injury)

13. PD Risk Factor Questionnaire (RFQ-U) for “Physical activity and Sleep”