Parkinson's Structural Mapping to FHIR Resources/Elements:
Parinaz Tabari

Profile Name	FHIR element name / Path	Use Case Data Element	Comments
PDPatient	Patient.name	Patient name	
PDPatient	Patient.birthDate	Patient birth date	
PDPatient	Patient.gender	Patient gender	
PDCondition	Condition.code	Diabetes diagnosis code	Patient history/past medical history "The **Condition.code** may also include such concepts as "history of X" and "good health", where it is useful or appropriate to make such assertions. "
PDCondition	Condition.code	Cardiovascular disease diagnosis code	Past medical history https://build.fhir.org/condition.html#9.2.4.3
PDCodition	Condition.code	Parkinson's diagnosis code	
PDCondition	Condition.stage	Parkinson's stage	The **Condition.stage** and **Condition.clinicalStatus** may have interdependencies. For example, some "stages" of cancer, etc. will be different for a remission than for the initial occurrence. "A simple summary of the stage such as "Stage 3" or "Early Onset". The determination of the stage is disease-specific, such as cancer, retinopathy of prematurity, kidney diseases, Alzheimer's, or Parkinson's disease."
PDAdverseEvent	AdverseEvent.code Or medical history	Previous falls	This value set includes codes that describe the adverse event or incident that occurred or was averted. https://build.fhir.org/valueset-adverse-event-type.html

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PDObservation	Observation.category	Type of activity	Observations that measure or record any bodily activity that enhances or maintains physical fitness and overall health and wellness. Not under direct supervision of a practitioner such as a physical therapist. (e.g., laps swum, steps, sleep data). https://hl7.org/fhir/R5/valueset-observation-category.html code=activity
PDObservation	Observation.component.valueQuantity	Weekly frequency of the activity	The component would have its own code for "Frequency". - Component Code: Use a LOINC code like 32297-6 for frequency. - Component Value: Use valueQuantity where value would be the number of sessions per week, unit could be "times per week", system is "http://unitsofmeasure.org", and code is "/wk".
PDObservation	Observation.component.valueQuantity	Duartion of activity (min)	For the duration of each activity session. - Component Code: Use a LOINC code like 55284-4 for duration. - Component Value: Here, value would be the number of minutes per session, unit "minutes", system "http://unitsofmeasure.org", and code "min".
PDObservation	Observation.extension.patientBalance	Patient balance	Good, moderate, poor
PDObservation	Observation.extension.patientMuscularStrength	Patient muscular strength	Good, moderate, poor

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Previous falls can also be considered as Medical history in condition.

<u>High-level mapping:</u>