COGNITIVE DOMAIN (SYMPTOMS)

Category/Concept	Concerns	Coherence in Measurement & Classification — Explanation	Tier 1 Grade	Tier 2 & 3 Level	Bothersome mean %	Prevalence mean %	[Range]
MEMORY		Concept category encompassing different aspects of memory					
Impaired memory	Moderate	Unclear what is being measured in many study reports	A +	3	14%	38%	[17-65%]
Forgetting to do things	UA	Limited evidence; No disconfirming evidence	X	4	-	-	-
Impaired visual Memory	UA	Limited evidence; No disconfirming evidence	X	4	-	-	-
Trouble learning	UA	Expert proposed concept; Missing evidence in early PD	X	x	-	-	-
EXECUTIVE FUNCTION	Moderate	Concept category; Unclear how concept is being measured	B	4	3%	24%	-
Decreased mental flexibility	UA	Expert proposed concept; Missing evidence in early PD	X	x	-	-	-
impaired ability to multitask	UA	Limited evidence; No disconfirming evidence	C	x	3%	14%	
LANGUAGE		Concept category aligning with state of science					
Difficulty word finding	Minor	One large Tier 1 study found no evidence of bothersomeness at early stage	A -	x	17%	42%	[19-65%]
VISUOSPATIAL		Concept category encompassing different visuospatial abilities					
Impaired depth perception	UA	Limited evidence; One Tier 1 study disconfirming presence in early PD <3YSD	D -	4	3%	25%	-
Difficulty finding way	UA	Limited evidence; no disconfirming evidence	C	x	4%	10%	-
ATTENTION & PROCESSING		Concept category					
Impaired attention	-	No disconfirming evidence	B	x	11%	25%	[24-25%]
Impaired concentration	-	No disconfirming evidence	A +	4	11%	28%	[14-63%]
Slower thinking	-	No disconfirming evidence	B	x	12%	42%	[30-53%]
Impaired mental alertness (fog)	-	No disconfirming evidence	B	x	5%	24%	[8-40%]
DIAGNOSTIC CLASSIFICATION							
Mild cognitive impairment	Moderate	No disconfirming evidence, unclear if clinical classification or self-report	C	3	-	30%	[25-35%]
Dementia	Severe	No evidence supporting presence in PD <3YSD; Disconfirming evidence in Tier 2	X	x -	-	-	-

Notes. PD= Parkinson's disease; UA=Unable to assess due to limited data; YSD=Years since diagnosis of Parkinson's disease; **Tier 1 Grade** A+=100% (Green), A=75-99% (Green), B=50-74% (Yellow), C=25-49% (Orange), D=1-24% (Gray), X=No studies supporting presence in early PD (Black); **Tier 2 & 3 Level** 1=75-100% (Green), 2=50-74% (Yellow), 3=25-49% (Orange), 4=1-24% (Gray), x=No Tier 2 or 3 studies supporting presence in early PD (Black). Minus sign "-" in Grade or Level indicates presence of disconfirming evidence. Color coding is used for visual identification of concepts with greater supporting evidence in Grade and Level. For bothersomeness and prevalence, darker colors indicate higher average frequency in studies reporting.