**Supplementary Material**

**Naturalistic Eye Movement Tasks in Parkinson’s Disease: A Systematic Review**

**Supplementary Material 2: Screening Criteria**

Title and Abstract Criteria:

1. Does the abstract describe an original study?
   1. Select yes if the abstract is in the English language and clearly describes an original piece of research.
   2. Select unsure if the abstract is not in the English language or you are unsure whether the abstract is describing an original piece of research.
   3. Select no if the abstract clearly does not describe an original study (e.g., a review, an opinion piece, a book chapter, a letter to the editor).
2. Is the task described a naturalistic eye movement task?
   1. Select yes if the study clearly involves a naturalistic eye movement task. These include: studies involving naturalistic stimuli (e.g., photographs, faces), naturalistic eye movements (e.g., free unrestricted visual exploration for at least 5 seconds), tasks that mirror (e.g., reading, watching TV, making a cup of tea, walking) or closely mirror (e.g., virtual reality) tasks undertaken in an everyday setting.
   2. Select unsure if you are unsure whether the study involves a naturalistic eye movement task.
   3. Select no if the study clearly does not involve a naturalistic eye movement task. For example, artificial eye movement tasks that force unnatural or unintuitive eye movements, such as the antisaccade. Select no if the record is not an original study.
3. Does the study include Parkinson’s patients?
   1. Select yes if the study clearly includes Parkinson’s patients, even if other patient groups (e.g., AD, FTD, PSP, MSA) are also included.
   2. Select unsure it is not clear whether the study includes Parkinson’s patients.
   3. Select no if the study clearly does not include Parkinson’s patients. Studies that have only recruited patients with other parkinsonian disorders (e.g., PSP, MSA) should be excluded. Studies that only include Parkinson’s patients with a comorbid psychiatric or neurological condition should be excluded. Select no if the record is not an original study.

Full-Text Criteria:

1. Is the record written in the English Language?
2. Does the record report original human eye movement data, collected during a naturalistic eye movement task?
   1. Select yes if the record reports original human data collected during a naturalistic eye movement task, even if simulated results are also presented. Naturalistic tasks include: studies involving naturalistic stimuli (e.g., photographs, faces), naturalistic eye movements (e.g., free unrestricted visual exploration for at least 5 seconds), tasks that mirror (e.g., reading, watching TV, making a cup of tea, walking) or closely mirror (e.g., virtual reality) tasks undertaken in an everyday setting.
   2. Select no if the record does not report original human data or clearly does not report a naturalistic eye movement task. For example, artificial eye movement tasks that force unnatural or unintuitive eye movements, such as the antisaccade.
3. Does the study include Parkinson’s patients and an appropriate healthy older control group?
   1. Select yes if the study clearly includes Parkinson’s patients, even if other patient groups (e.g., AD, FTD, PSP, MSA) are also included, as well as an appropriate healthy older control group.
   2. Select no if the study clearly does not include Parkinson’s patients. Studies that have only recruited patients with other parkinsonian disorders (e.g., PSP, MSA) should be excluded. Studies that only include Parkinson’s patients with a comorbid psychiatric or neurological condition should be excluded. Select no if the record does not report original data.