I. Clinical diagnosis of nonfluent/agrammatic variant PPA

At least one of the following core features must be present:

- Agrammatism in language production
- Effortful, halting speech with inconsistent speech sound errors and distortions (apraxia of speech)

At least 2 of 3 of the following other features must be present:

- Impaired comprehension of syntactically complex sentences
- 2. Spared single-word comprehension
- 3. Spared object knowledge
- II. Imaging-supported nonfluent/agrammatic variant diagnosis

Both of the following criteria must be present:

- Clinical diagnosis of nonfluent/agrammatic variant PPA
- Imaging must show one or more of the following results:
  - a. Predominant left posterior fronto-insular atrophy on MRI or
  - b. Predominant left posterior fronto-insular hypoperfusion or hypometabolism on SPECT or PET

III. Nonfluent/agrammatic variant PPA with definite pathology

Clinical diagnosis (criterion 1 below) and either criterion 2 or 3 must be present:

- Clinical diagnosis of nonfluent/agrammatic variant PPA
- Histopathologic evidence of a specific neurodegenerative pathology (e.g., FTLD-tau, FTLD-TDP, AD, other)
- 3. Presence of a known pathogenic mutation

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I. Clinical diagnosis of semantic variant PPA

Both of the following core features must be present:

- 1. Impaired confrontation naming
- 2. Impaired single-word comprehension

At least 3 of the following other diagnostic features must be present:

- Impaired object knowledge, particularly for lowfrequency or low-familiarity items
- 2. Surface dyslexia or dysgraphia
- Spared repetition
- Spared speech production (grammar and motor speech)
- II. Imaging-supported semantic variant PPA diagnosis

Both of the following criteria must be present:

- 1. Clinical diagnosis of semantic variant PPA
- Imaging must show one or more of the following results:
  - a. Predominant anterior temporal lobe atrophy
  - b. Predominant anterior temporal hypoperfusion or hypometabolism on SPECT or PET

III. Semantic variant PPA with definite pathology

Clinical diagnosis (criterion 1 below) and either criterion 2 or 3 must be present:

- 1. Clinical diagnosis of semantic variant PPA
- Histopathologic evidence of a specific neurodegenerative pathology (e.g., FTLD-tau, FTLD-TDP, AD, other)
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- 3. Spared repetition
- Spared speech production (grammar and motor speech)
- II. Imaging-supported semantic variant PPA diagnosis

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- Imaging must show one or more of the following results:
  - a. Predominant anterior temporal lobe atrophy
  - b. Predominant anterior temporal hypoperfusion or hypometabolism on SPECT or PET

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I. Clinical diagnosis of logopenic variant PPA

Both of the following core features must be present:

- Impaired single-word retrieval in spontaneous speech and naming
- 2. Impaired repetition of sentences and phrases

At least 3 of the following other features must be present:

- Speech (phonologic) errors in spontaneous speech and naming
- Spared single-word comprehension and object knowledge
- 3. Spared motor speech
- 4. Absence of frank agrammatism
- II. Imaging-supported logopenic variant diagnosis

Both criteria must be present:

- Clinical diagnosis of logopenic variant PPA
- Imaging must show at least one of the following results:
  - a. Predominant left posterior perisylvian or parietal atrophy on MRI
  - b. Predominant left posterior perisylvian or parietal hypoperfusion or hypometabolism on SPECT or PET

III. Logopenic variant PPA with definite pathology

Clinical diagnosis (criterion 1 below) and either criterion 2 or 3 must be present:

- 1. Clinical diagnosis of logopenic variant PPA
- Histopathologic evidence of a specific neurodegenerative pathology (e.g. AD, FTLD-tau, FTLD-TDP, other)
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