# **Speech-Language Therapy and Neurodegeneration:** An Investigation of Speech-Language Pathologists' Perceptions of Maintenance-Based Semantic Feature Analysis Treatment for Adults with Primary Progressive Aphasia

## By: Sabrina Azad

#### **Purpose Statement**

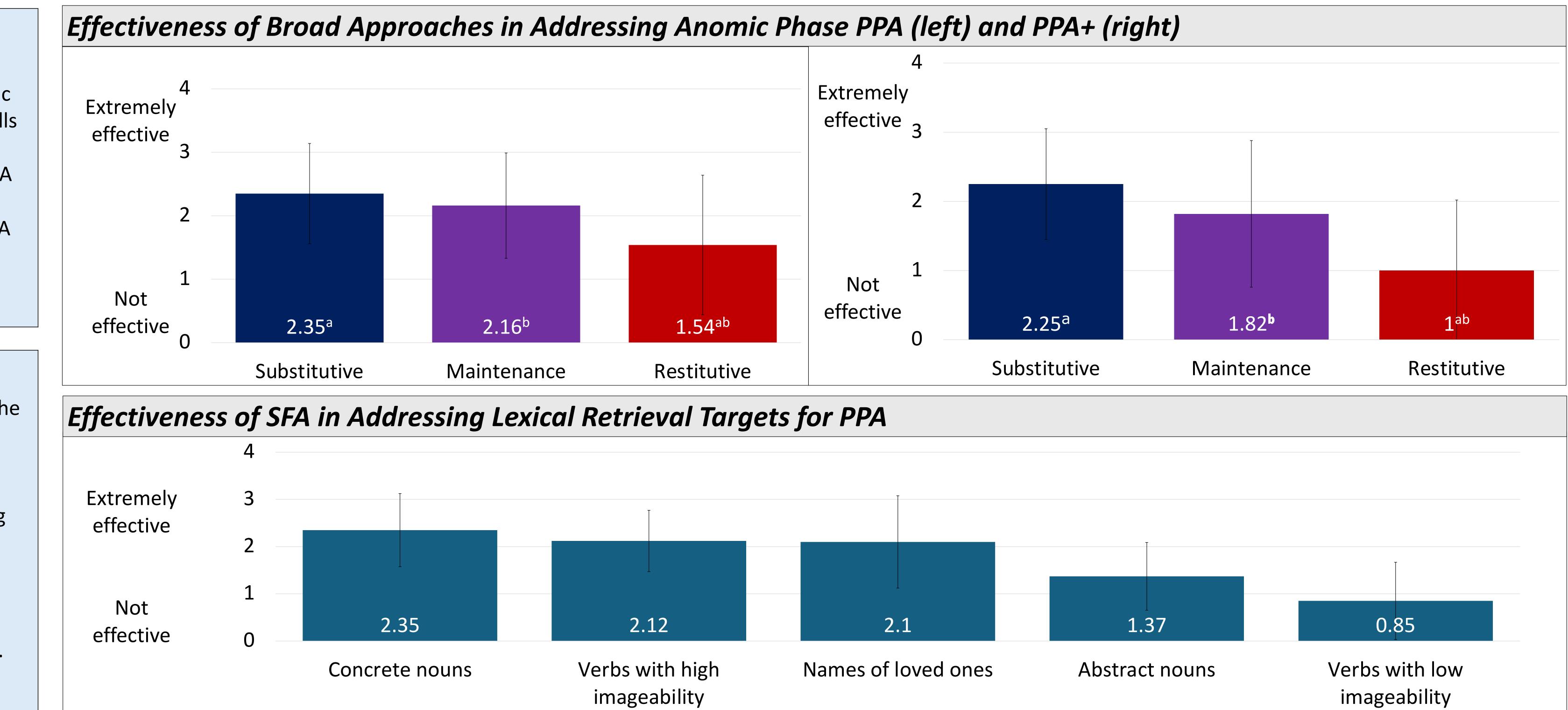
The broad purpose of this study was to explore speechlanguage pathologists' (SLPs) perceptions of using semantic feature analysis (SFA) to enhance or maintain semantic skills in adults with primary progressive aphasia (PPA). More specifically, this study investigated SLPs' familiarity with SFA and maintenance-focused treatment, their clinical considerations and therapeutic approaches when using SFA to treat adults with PPA, and their experience using SFA in maintenance-focused treatment.

#### Definitions

- Primary progressive aphasia (PPA) is characterized by the progressive language impairments seen in affected individuals. During the initial stages of neurodegeneration, aphasia is the most prominent symptom, with anomia (i.e., difficulty with word finding and naming of objects) affecting almost all individuals (Gorno-Temipini et al., 2011, pp. 1006-1008).
  - "Many patients remain in an anomic phase through most of the disease" (Mesulam, 2001, p. 427).
  - In PPA+, "patients enter a dementia phase in which other cognitive, behavioral, and/or motor domains outside of language are affected," and aphasia may no longer be the primary impairment (Dickerson, 2011, p. 620).

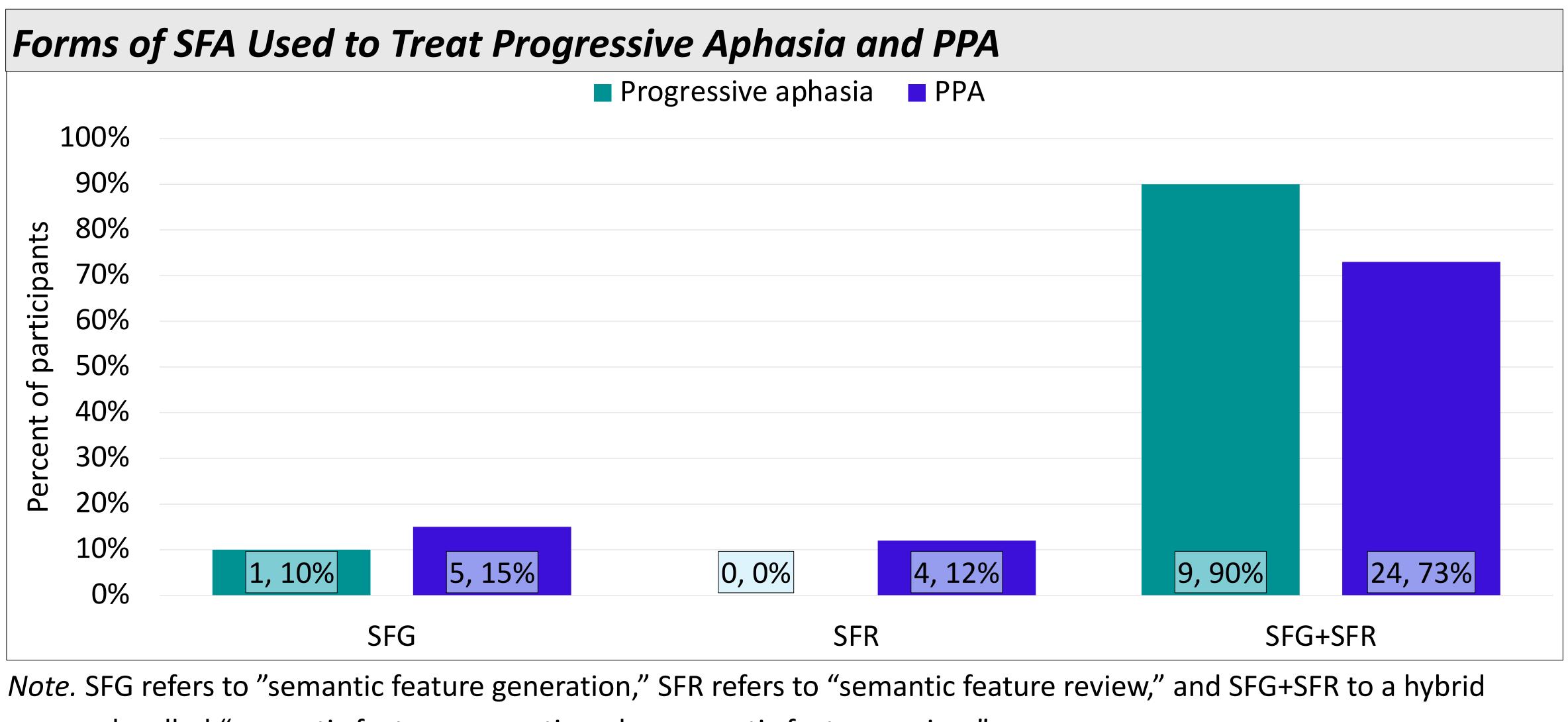
### Method

- •I used quantitative survey research, along with selected qualitative probes, to collect and analyze data from ASHAcertified SLPs who had provided services to people with aphasia within the last five years.
- •The survey included questions within four main subject areas: demographics, three broad treatment approaches (i.e., restitutive, maintenance, and substitutive), anomia treatments (e.g., SFA), and PPA.
- •A total of 63 SLPs completed the the survey instrument. There are two subgroups: SLPs who have experience using SFA to address PPA (*n* = 36), and SLPs who have experience using SFA to address progressive anomia, but not PPA specifically (n = 14).



Note. Items were coded using a scale where 0 represented Not effective, 1 represented Sightly effective, 2 represented Somewhat effective, 3 represented Very effective, and 4 represented Extremely effective. Like letters denote a statistically significant difference.

100%



approach called "semantic feature generation plus semantic feature review."

Advisor: Joan E. Furey, Ph.D.

#### **Major Conclusions**

- Although maintenance approaches are a relatively new practice in PPA treatment (Reilly et al., 2016, p. 7), participants reported considerable experience and found them to be more beneficial than restitutive approaches.
- However, participants indicated that substitutive approaches hold certain advantages over maintenance approaches.
- There were several differences between how SLPs reported they implement SFA and how SFA treatment is documented in the literature.