Allied Health Media SpeechPathology.com **Vanderbilt SLP Journal Club: Treatment for Communication Deficits in Primary Progressive Aphasia** Presenter: Michael de Riesthal, PhD, CCC-SLP Moderated by:
Amy Natho, M.S., CCC-SLP, CEU Administrator, SpeechPathology.com Allied Health Media SpeechPathology.com SpeechPathology.com Expert eSeminar Need assistance or technical support during event? Please contact SpeechPathology.com at 800-242-5183 Allied Health Media SpeechPathology.com **Earning CEUs** >Log in to your account and go to Pending Courses under the CEU Courses tab.

➤ Must pass 10-question multiplechoice exam with a score of 80% or

>Two opportunities to pass the exam

higher

Allied Hea	lth Media	SpeechPathology.com
	Peer Revi	iew Process
Intere	ested in Volur Revi	nteering to be a Peer ewer?
	APPLY	TODAY!
3+ ye	ears SLP Profession	onal Experience Required
Contact	Amy Natho at ana	atho@speechpathology.com
Allied Hea	lth Media	Speech Pathology .com
		for reference only.
It ma		de content identical owerpoint.
	, , , , , , , , , , , , , , , , , , ,	
	Managemen	t of progressive
		e disorders: An update
		sthal, PhD, CCC-SLP
		abilitation Institute Wilkerson Center

Learning Objectives

After this course, participants will be able to:

- List the three subtypes of PPA.
- Describe the distinguishing characteristics of each subtype.
- Describe the management principles for PPA.
- Describe three treatment approaches for PPA.

Overview

- Define primary progressive aphasia (PPA) and describe its variants
- Describe the management principles for PPA
- Describe specific treatment approaches for the variants of PPA

Primary Progressive Aphasia

- Aphasia of insidious onset
- Gradual progression of word finding, objectnaming, or word-comprehension impairments
- Limitations in ADLs are attributed to language impairment at initial stages of disease and at time of testing
- Intact premorbid language function

Gorno-Tempini et al. (2011)

•			
•			
•			
•			
•			

Primary Progressive Aphasia

- Pattern of deficits not accounted for by other nondegenerative nervous system or medical disorders
- Cognitive disturbance is not accounted for by a psychiatric disorder
- Absence of episodic memory, visual memory, and visuo-perceptual impairments at onset
- Absence of behavioral disturbance at onset

Gorno-Tempini et al. (2011)

Typical Presentation

- Months, year, or years after onset
- First symptom is most commonly word finding deficit
- Individuals are aware of their deficits.
- Usually associate onset with a specific situation that required higher level linguistic demands
- Type of aphasia will vary

PPA Subtypes

- PPA non-fluent/agrammatic variant
- PPA semantic variant
- PPA logopenic variant

PPA – Nonfluent Agrammatic variant PPA At least one of the following core features must be present: 1. Agrammation in larguage production 2. Effortful, bilding peach with honositested speechs sound errors and distortions (peach with thorositested speech) At least 2 of 3 of the following other features must be present: 1. Impaired comprehension of syntactically complex sentences. 2. Spared single-word comprehension 3. Spared object honologia II. Imaging-apported prefer features for the following peach of the following remains or present: Dith of the following grammatic variant disposios. Both of the following grammatic variant disposios. Both of the following creater insure to present: 1. Clinical diagnosis (critical production of your section) 1. Predominant left posterior for other production of your publicage in other productions of a specific to the following creater insure to present: 1. Clinical diagnosis (critical production) 1. Clinical diagnosis (critical production) 1. Clinical diagnosis (critical production) 2. Electrophylogic production of syntactically complex sentences of a specific topic present of the following creating production of productions of producti

554.44.61	
PPA-Nonfluer	nt/Agrammatic
I. Clinical diagnosis of nonfluent/agrammatic variant PPA	III. Nonfluent/agrammatic variant PPA with definite pathology
At least one of the following core features must be present:	Clinical diagnosis (criterion 1 below) and either criterion 2 or 3 must be present:
Agrammatism in language production Effortful, halting speech with inconsistent speech	Class to present. Class to present. Class to present. PPA
Effortrul, haiting speech with inconsistent speech sound errors and distortions (apraxia of speech) At least 2 of 3 of the following other features must be	Histopathologic evidence of a specific
present:	neurodegenerative pathology (e.g., FTLD-tau, FTLD- TDP, AD, other)
 Impaired comprehension of syntactically complex sentences 	Presence of a known pathogenic mutation
Spared single-word comprehension	Abbreviations: AD – Alzheimer disease; FTLD – frontotempo ral lobar degeneration: PPA – primary progressive aphasia.
Spared object knowledge	Taraba augustatut (1111 prima) progressivospinosa
 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 	
	Gorno-Tempini et al. (2011)

554.54.61	
PPA-Nonfluer	nt/Agrammatic
I. Clinical diagnosis of nonfluent/agrammatic variant PPA	III. Nonfluent/agrammatic variant PPA with definite
At least one of the following core features must be present:	pathology Clinical diagnosis (criterion 1 below) and either criterion 2
Agrammatism in language production	or 3 must be present:
Effortful, halting speech with inconsistent speech sound errors and distortions (apraxia of speech)	Clinical diagnosis of nonfluent/agrammatic variant PPA
At least 2 of 3 of the following other features must be present:	 Histopathologic evidence of a specific neurodegenerative pathology (e.g., FTLD-tau, FTLD- TDP, AD, other)
Impaired comprehension of syntactically complex sentences	3. Presence of a known pathogenic mutation
Spared single-word comprehension	Abbreviations: AD - Alzheimer disease; FTLD - frontotempo
3. Spared object knowledge	ral lobar degeneration; PPA – primary progressive aphasia.
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:	
Predominant left posterior fronto-insular atrophy on MRI or	
 b. Predominant left posterior fronto-insular hypoperfusion or hypometabolism on SPECT or PET 	
	Gorno-Tempini et al. (2011)

PPA-Nonfluent/Agrammatic I. Clinical diagnosis of nonfluent properties. I. Agrammatic writert PPA At least one of the following core features must be present: 1. Agrammatic in language production 2. Effortful, halting possible with inconsistent guedes sound error and distortions (pressible of speech) At least 2 of 3 of the following other features must be present: 1. Impaired comprehension of syntactically complex sortineses: 2. Spared single-word comprehension 3. Spared single-word comprehension 3. Spared single-word comprehension 3. Spared single-word comprehension 4. Description of speech produced produced in the following research 5. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis of nonfluent present of security (in present present) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinical diagnosis (interior 1 to bleve) and either criterion 2 or 3 must be present: 1. Clinic

PPA Sema	ntic Variant
I. Clinical diagnosis of semantic variant PPA	III. Semantic variant PPA with definite pathology
Both of the following core features must be present:	Clinical diagnosis (criterion 1 below) and either criterion 2 or 3 must be present:
Impaired confrontation naming	
2. Impaired single-word comprehension	Clinical diagnosis of semantic variant PPA
At least 3 of the following other diagnostic features must be present:	 Histopathologic evidence of a specific neurodegenerative pathology (e.g., FTLD-tau, FTLD- TDP, AD, other)
 Impaired object knowledge, particularly for low- frequency or low-familiarity items 	3. Presence of a known pathogenic mutation
Surface dyslexia or dysgraphia	Abbreviations: AD - Alzheimer disease; FTLD - frontotempo
3. Spared repetition	ral lobar degeneration; PPA = primary progressive aphasia.
Spared speech production (grammar and motor speech)	
II. Imaging-supported semantic variant PPA diagnosis	
Both of the following criteria must be present:	
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 	
	Gorno-Tempini et al. (2011)

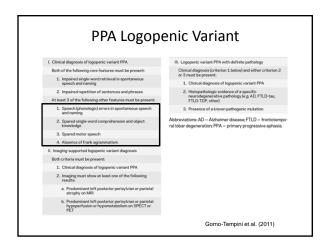
I. Clinical diagnosis of semantic variant PPA	III. Semantic variant PPA with definite pathology
Both of the following core features must be present:	Clinical diagnosis (criterion 1 below) and either criterion 2
Impaired confrontation naming	or 3 must be present:
Impaired single-word comprehension	Clinical diagnosis of semantic variant PPA
At least 3 of the following other diagnostic features must be present:	 Histopathologic evidence of a specific neurodegenerative pathology (e.g., FTLD-tau, FTLD- TDP, AD, other)
 Impaired object knowledge, particularly for low- frequency or low-familiarity items 	3. Presence of a known pathogenic mutation
Surface dyslexia or dysgraphia	Abbreviations: AD - Alzheimer disease; FTLD - frontotemp
3. Spared repetition	ral lobar degeneration; PPA = primary progressive aphasia.
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 	
	Gorno-Tempini et al. (2011)

	ntic Variant
Clinical diagnosis of semantic variant PPA	III. Semantic variant PPA with definite pathology
Both of the following core features must be present:	Clinical diagnosis (criterion 1 below) and either criterion 2
1. Impaired confrontation naming	or 3 must be present:
2. Impaired single-word comprehension	Clinical diagnosis of semantic variant PPA
At least 3 of the following other diagnostic features must be present:	 Histopathologic evidence of a specific neurodegenerative pathology (e.g., FTLD-tau, FTLD- TDP, AD, other)
 Impaired object knowledge, particularly for low- frequency or low-familiarity items 	3. Presence of a known pathogenic mutation
Surface dyslexia or dysgraphia	Abbreviations: AD – Alzheimer disease; FTLD – frontotempo
3. Spared repetition	ral lobar degeneration; PPA = primary progressive aphasia.
 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 	
	Gorno-Tempini et al. (2011)

PPA Semantic Variant 1. Clinical diagnosis of semantic variant PPA Both of the following core features must be present: 1. Impaired confrontation naming 2. Impaired confrontation naming 3. Impaired single-were document-when the present: 1. Impaired deplet from the following other diagnostic features must be present: 1. Impaired object trombedga, particularly for four-frequency of the "dializing" terms 2. Surface application of special for the following other diagnostic features must be present: 3. Spared repetition 4. Spared speech production (grammar and motor special) 5. Imaging supported semantic variant PPA diagnosis Both of the following criteria must be present: 1. Clinical diagnosis of semantic variant PPA diagnosis Both of the following criteria must be present: 1. Clinical diagnosis of semantic variant PPA diagnosis Both of the following criteria must be present: 2. Linical diagnosis of semantic variant PPA 5. Imaging must have one or more of the following results: 8. Predominant arterior temporal bipoperfusion or hypomenidadism on PPCT or PST Gorno-Tempini et al. (2011)

PPA Logon	enic Variant
117120800	cine variant
I. Clinical diagnosis of logopenic variant PPA	III. Logopenic variant PPA with definite pathology
Both of the following core features must be present:	Clinical diagnosis (criterion 1 below) and either criterion 2 or 3 must be present:
Impaired single-word retrieval in spontaneous speech and naming	Clinical diagnosis of logopenic variant PPA
Impaired repetition of sentences and phrases	Histopathologic evidence of a specific
At least 3 of the following other features must be present:	neurodegenerative pathology (e.g. AD, FTLD-tau, FTLD-TDP, other)
Speech (phonologic) errors in spontaneous speech and naming	3. Presence of a known pathogenic mutation
Spared single-word comprehension and object knowledge	Abbreviations: AD — Alzheimer disease; FTLD — frontotemporal lobar degeneration; PPA — primary progressive aphasia.
3. Spared motor speech	
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 	
	Gorno-Tempini et al. (2011)

PPA Logop	enic Variant
Clinical diagnosis of logopenic variant PPA	III. Logopenic variant PPA with definite pathology
Both of the following core features must be present:	Clinical diagnosis (criterion 1 below) and either criterion 2 or 3 must be present:
Impaired single-word retrieval in spontaneous speech and naming	Clinical diagnosis of logopenic variant PPA
Impaired repetition of sentences and phrases	Histopathologic evidence of a specific neurodegenerative pathology (e.g. AD, FTLD-tau,
At least 3 of the following other features must be present: 1. Speech (phonologic) errors in spontaneous speech and naming	FTLD-TDP, other) 3. Presence of a known pathogenic mutation
Spared single-word comprehension and object knowledge	Abbreviations: AD – Alzheimer disease; FTLD – frontotempral lobar degeneration: PPA – primary progressive aphasia.
3. Spared motor speech	, , , , , , , , , , , , , , , , , , , ,
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 	
	Gorno-Tempini et al. (2011)



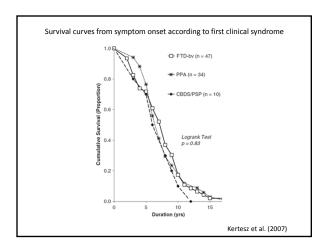
PPA LOGOP	enic Variant
Clinical diagnosis of logopenic variant PPA	III. Logopenic variant PPA with definite pathology
Both of the following core features must be present:	Clinical diagnosis (criterion 1 below) and either criterion 2
Impaired single-word retrieval in spontaneous speech and naming	or 3 must be present: 1. Clinical diagnosis of logopenic variant PPA
Impaired repetition of sentences and phrases	Histopathologic evidence of a specific
At least 3 of the following other features must be present:	neurodegenerative pathology (e.g. AD, FTLD-tau, FTLD-TDP, other)
Speech (phonologic) errors in spontaneous speech and naming	Presence of a known pathogenic mutation
Spared single-word comprehension and object knowledge	Abbreviations: AD – Alzheimer disease; FTLD – frontotemp ral lobar degeneration; PPA – primary progressive aphasia.
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:	
Predominant left posterior perisylvian or parietal atrophy on MRI	
 b. Predominant left posterior perisylvian or parietal hypoperfusion or hypometabolism on SPECT or PET 	
	Gorno-Tempini et al. (2011)

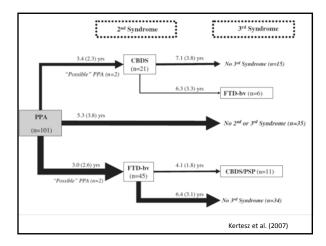
Overview

- Define primary progressive aphasia (PPA) and describe its variants
- Describe the management principles for PPA
- Describe specific treatment approaches for the variants of PPA

Factors Influencing Management

- Disease progression
 - Time from initial diagnosis
 - Severity of impairment
- Onset of additional disorders





General PPA Treatment Guidelines

- Early speech-language-cognitive evaluation and follow-ups to determine pattern of decline
- Early treatment may focus on impaired language functions in addition to compensations.
- AAC should be introduced early for a more successful transition when need arises.
- Family members/caregivers must be involved.
- Treatment will not reverse progression, but may enhance communication.

Thompson (1997)

Overview

- Define primary progressive aphasia (PPA) and describe its variants
- Describe the management principles for PPA
- Describe specific treatment approaches for the variants of PPA

Specific Treatment Techniques?

- Growing number of published reports of specific treatment approaches applied to PPA
- One published report of treatment outcomes for an individual with PPA and AOS

Demont Neuropsychol 2013 March;7(1):122-131

Original Article

Nonpharmacological interventions for cognitive impairments following primary progressive aphasia

A systematic review of the literature

Maria Teresa Carthery-Goulart', Amanda da Costa da Silveira?, Thais Helena Machado³, Leticia Lessa Maneur', Maria Alico de Mattos Pimenta Parenta², Mirna Lie Hosogi Senaha⁵, Sonia Maria Dazzi Brucki⁶, Ricardo Nitrin⁶

39 articles met criteria (67 patients treated)

- Semantic variant (20 studies)
- Nonfluent/Agrammatic (8 studies)
- Logopenic variant (3 studies)
- General PPA diagnosis (8 studies)

Semantic Variant

Treatments

- Functional interventions
 - Narrative/conversational discourse
 - Participation in functional activities
- Impairment-based interventions
 - Picture naming skills
 - Lexical retrieval
 - Face-name associations
 - Object use

Outcomes

- Relearn target vocabulary
- Maintain gains above baseline levels—variable
- Generalization to untrained stimuli—limited
 - Personalized materials
 - Functional context

Carthery-Goulart et al. (2013)

Known, lost, and recovered: Efficacy of formal-semantic therapy and spaced retrieval method in a case of semantic dementia

> Nathalie Bier Université de Sherbrooke, Canada Joël Macoir Lise Gagnon Université de Sherbrooke, Canada Martial Van der Linden University of Geneva, Switzerland

Stéphanie Louveaux Research Center on Aging, CSSS-Sherbrooke Geriatric University Institute, Canada

Johanne Desrosiers

Université de Sherbrooke, Canada

Purpose

- 1. Explore the effect of a formal-semantic therapy in relearning concepts
- 2. Compare the addition of the spaced retrieval to the use of a simple repetition
- 3. Explore the long-term maintenance treatment effects in both conditions
- 4. Explore possible effects of generalization within trained categories and between trained and non-trained categories

Bier et al. (2009)

Participant

- 70 year-old woman
- Native French speaker
- 5-year history of progressive decline in wordfinding and memory
- Mild to moderate cortical atrophy around the left sylvian fissure
- Left frontal hypoperfusion

Bier et al. (2009)

4	-
- 1	-

Test Results and Diagnosis

- Impairment on all measures requiring semantic processing
- Normal performance on tests of visuoperceptual abilities and episodic memory
- Testing results consistent with Semantic Dementia

Bier et al. (2009)

Treatment

- Formal-semantic therapy and spaced-retrieval method:
 - Picture was presented along with its spoken name, specific attribute and written name of the category twice;
 - Pictures presented again with increasing timerecall intervals and patient was asked to name them and generate semantic attributes
 - Semantic feedback and cueing technique was used when patient was unable to name items.

Bier et al. (2009)

Treatment

- Formal-semantic therapy with simple repetition:
 - Picture was presented along with its spoken name, specific attribute and written name of the category twice;
 - Pictures presented at regular intervals and patient was asked to name them and generate semantic attributes
 - Semantic feedback and cueing technique was used when patient was unable to name items.

Bier et al. (2009

13

Results

- Formal-semantic therapy led to better naming and generation of specific verbal attributes compared to baseline
- Spaced retrieval was not statistically superior to the simple repetition condition
- Gains maintained up to 5 weeks after the end of the intervention for both spaced retrieval and simple repetition

Bier et al. (2009)

Non-fluent Variant

Treatments

- Functional interventions
 - Augmentative and alternative communication devices
- Impairment-based interventions
 - Agrammatism
 - Phonological skills
 - Naming/lexical retrieval
 - Apraxia of speech

Outcomes

- · Improved production of treatment targets
- Generalization to untreated items and/or different tasks
- Improved functional communication

Carthery-Goulart et al. (2013)

Behavioural Neurology 26 (2013) 77–88 DOI 10.3233/BEN-2012-120260 IOS Press

Treatment for apraxia of speech in nonfluent variant primary progressive aphasia

M.L. Henry^{a,*}, M.V. Meese^b, S. Truong^c, M.C. Babiak^a, B.L. Miller^a and M.L. Gorno-Tempini^a
^{*}Memory and Aging Center, Department of Neurology, University of California, San Francisco, CA, USA
^{*}Alta Bates Medical Center, El Cerrito, CA, USA
^{*}San Francisco State University, San Francisco, CA, USA

1	1
1	4

Purpose

- To determine whether structured oral reading practice can improve production of multisyllabic words read aloud
- 2. To examine generalization to untrained speech behaviors and contexts
- 3. To assess long-term effects of training on oral reading and speech production

Henry et al. (2013)

Participant

- 73 year-old right-handed woman
- English as her primary language
- Five-year history of progressive impairment of speech production
- Frontal/insular and temporoparietal atrophy in the left hemisphere.

Henry et al. (2013)

Test Results and Diagnosis

- Language evaluation
 - Relatively fluent, grammatical spoken language
 - Semantic processing relatively spared
- Motor Speech Evaluation
 - slow rate; vowel and consonant distortions
 - sound insertions, deletions, and transpositions
 - pauses between words and syllables
 - increasing errors with increasing word length
 - reduced prosodic variation
- Testing consistent with nonfluent variant-PPA

Henry et al. (2013)

Treatment

- Structured oral reading of text focusing on rehearsal of multisyllabic word production in sentence context
- Trained self-detection and correction of speech errors while reading text aloud
- Weekly treatment sessions and home practice

Henry et al. (2013)

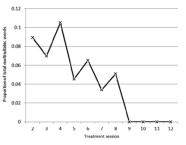
Treatment

- Text was read aloud until patient produced a word incorrectly
- For multisyllabic words, lines were drawn dividing the word into constituent syllables
- Word produced syllable-by-syllable
- Once produced correctly, whole word was repeated in a non-syllabified manner

Henry et al. (2013)

Results

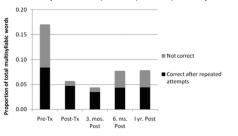
Multisyllabic word production in trained text improved during treatment



Henry et al. (2013)

Results

Significant reduction in speech errors on single and multisyllabic words in untrained text at post treatment, 3 months, 6 months, and one year



Henry et al. (2013)

Results

- One year post-treatment—significant increase in the proportion of multisyllabic words produced with at least one minor distortion
- Reading of novel text showed a gradual slowing over time

Henry et al. (2013)

Results

- Patient perceived improved performance and comfort level in fluency, multisyllabic word production, sentence production, and stress assignment
- Reported improved confidence and reduced frustration in communication with both familiar and unfamiliar people

Henry et al. (2013)

Logopenic Variant

Treatments

• No functional interventions have been reported

- Impairment-based interventions
 - Naming/lexical retrieval
 - Spelling

Outcome

- Improvement on trained items
- Generalization to untrained items and conversational skills

Carthery-Goulart et al. (2013)

J Mol Neurosci (2011) 45:724-736 DOI 10.1007/s12031-011-9579-2

Positive Effects of Language Treatment for the Logopenic Variant of Primary Progressive Aphasia

Pélagie M. Beeson • Rachel M. King • Borna Bonakdarpour • Maya L. Henry • Hyesuk Cho • Steven Z. Rapcsak

Participant

- 77 year old man
- Retired accountant
- 2.5 years post onset diagnosis of PPAlogopenic variant

Beeson et al. (2011)

•	\sim
	v

Test Results and Diagnosis

- Fluent spontaneous speech with normal syntactic structure
- Auditory comprehension—relative strength
- Repetition of sentences—mildly impaired
- Word finding—significant impairment
- Motor speech production—intact
- Primary Progressive Aphasia-Logopenic Variant

Beeson et al. (2011)

Treatment

- Generative naming tasks were used to probe and to train lexical retrieval.
- 6 categories were trained (three living and three nonliving), and 6 semantically matched categories were probed but not trained
- Treatment included 2-hour treatment sessions, 6 days per week for 2 weeks, plus 1 h of daily homework.

Beeson et al. (2011)

Treatment

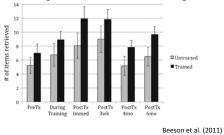
- Each category trained over 2 days
- Day 1
 - Presentation of 30 colored photographs of example items with written labels
 - Practice naming pictures without labels
 - Elaboration of semantic features
- Day 2
 - Semantic feature analysis attributes, functional use, context, similar items, superordinate category

Beeson et al. (2011)

1	\cap
1	ч

Results

• Improved ability to retrieve exemplars for the trained categories and untrained categories



Results

- Patient perception
 - Overall confidence level "a lot better"
 - Ability to name things "better"
 - Overall speaking ability "better"
 - Stress level during conversation "better"
 - Ability to think of people's names and come up with words in conversation – "somewhat better"

Beeson et al. (2011)

Results

 Post-treatment fMRI activation suggested improvements were supported by increased reliance on left prefrontal cortex during word retrieval

Beeson et al. (2011)

	_
Final Thoughts	
L	
	_
Training Approaches	
In general • Errorless learning more effective than errorful	-
learning	
 Longer duration > shorter duration in maintenance of treatment gains 	
Utilize stimuli that are familiar and high	
frequency	
Carthery-Goulart et al. (2013)	
]
Across PPA Types	
Majority of studies provide Level III evidence	
 Majority of studies targeted naming at level of impairment 	
Few studies addressed functional	
communicationAll studies demonstrated positive outcomes	
for trained items	
Carthery-Goulart et al. (2013)	