

Improve Parkinson's Disease Speech Challenges

May 10, 2023

Steven Darroh, MS CCC-SLP

About Me



- ASHA-certified SLP
- GAPS Chairman
- Clinical Educator
- Founder/CEO of Loud + Clear
- Married and have three boys





Why therapy?

Overview



1. Voice Disorders
2. Voice Options
3. Cognition, Language, and Swallowing

Voice Disorders



Voice Disorders



What's happening?

- Loss of dopamine = reduced signal transmission
- Sensory feedback impairment
- 73.5%-89% PwP experience voice issues
- 3%-45% receive treatment

Voice Disorders



Hypokinetic Dysarthria

- Decreased volume
- Slurred articulation
- Inadequate breath
- Flat prosody
- Facial masking
- Hurried speech
- Dysfluency

Voice Disorder



Voice problems lead to

- Isolation
- Depression
- Loss of connection



Voice Therapy Options

Voice Options



Common Features

- Loudness
- Breath support
- Visual feedback

The logo features the letters 'LSVT' in a large, bold, black serif font. The letter 'V' is a light blue color and is partially overlaid by a blue swoosh that arches over the top of the 'V' and extends to the right. A registered trademark symbol (®) is located to the upper right of the 'T'. Below 'LSVT' is the word 'GLOBAL' in a blue, sans-serif, all-caps font.

LSVT[®]
GLOBAL

Voice Options

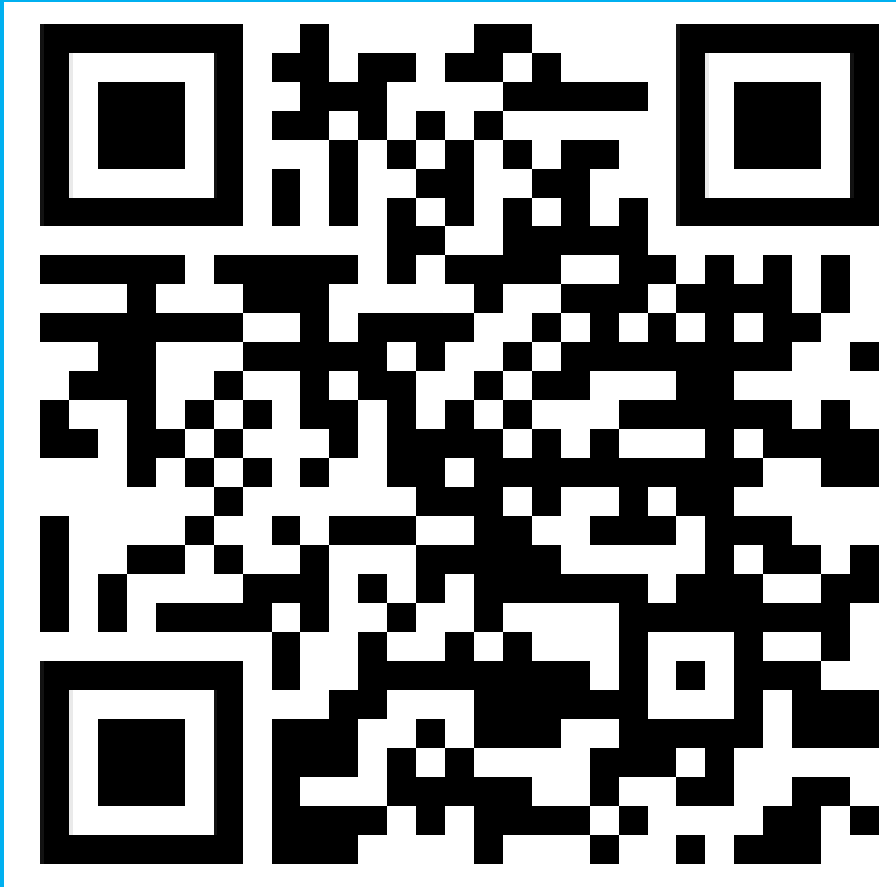
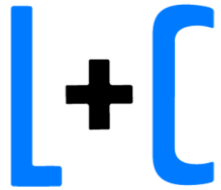


Lee Silverman Voice Treatment (LSVT)

- 4-week program
- In-person or telehealth
- Most researched approach
- Offers Physical Therapy



Voice Options



SPEAK
Live with **Intent** **OUT!**[®]

Voice Options



SPEAK OUT!

- 4-week program
- In-person or telehealth
- “Loud Crowd” group





Voice Options



Get Loud, Stay Loud

- Online maintenance program
- Daily classes
- Variety of clinicians
- Growing community



Voice Options





Voice Options

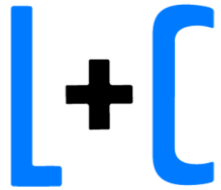


SpeechVive

- In-ear, wearable
- “Lombard Effect”
- No onboarding required
- Recently Medicare approved



Voice Options



LOUD+CLEAR

LOUD+CLEAR

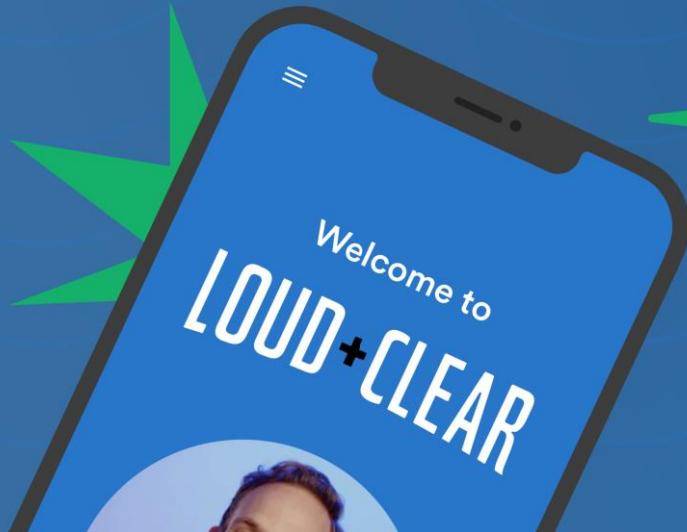
Voice Fitness
for Parkinson's

Improve your voice
in just 10 minutes
per day

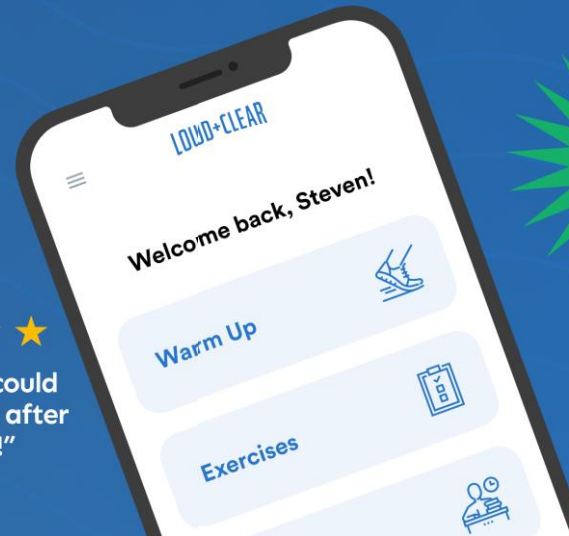
The best way to
improve your voice is
to practice everyday

New exercises
daily to maintain
your progress

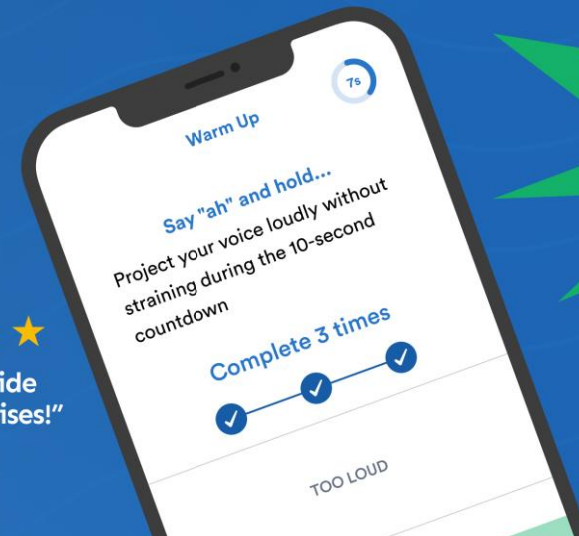
Your voice
matters



"My husband could
hear me better after
one session!"
-Linda K.



"I love the wide
variety of exercises!"
-Matt F.



Voice Options

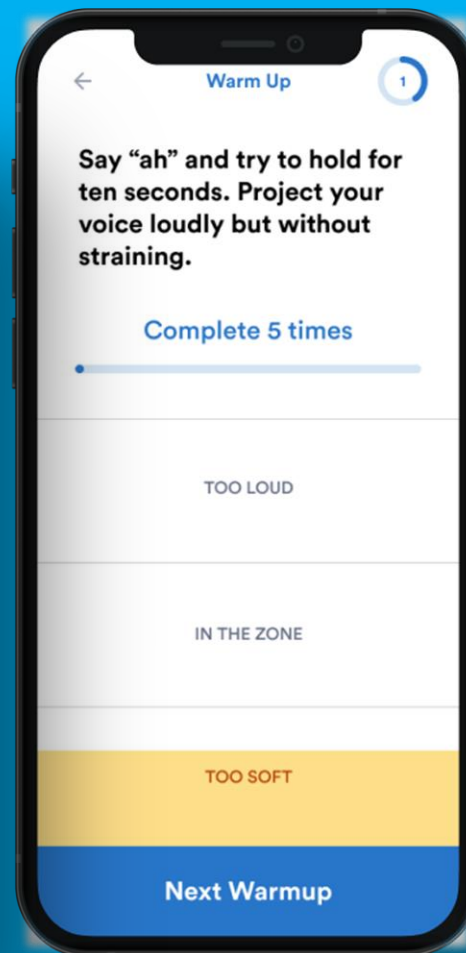
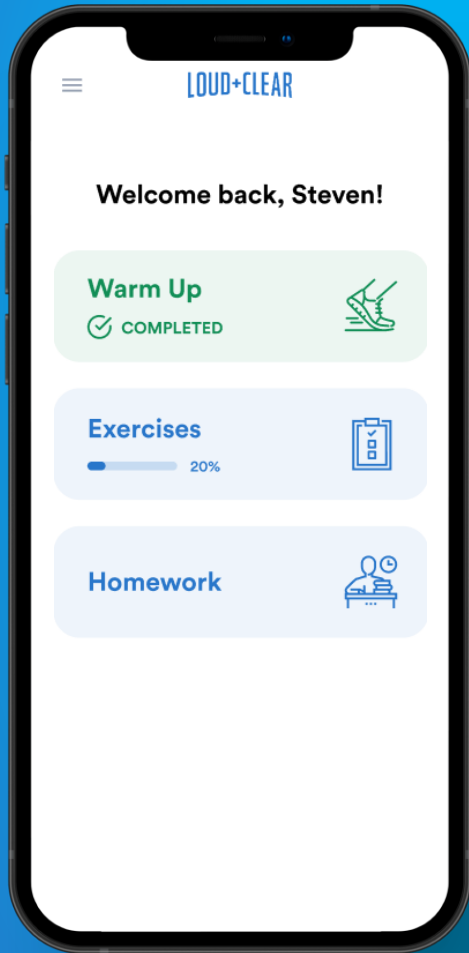


Loud + Clear

- Voice fitness app
- Supplement voice therapy
- Variety of warm-ups and exercises
- Earn badges, new daily content

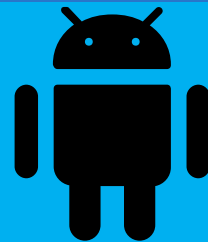
LOUD+CLEAR

Voice Options



LOUD+CLEAR

LOUD + CLEAR



LOUD+CLEAR



Friday Voice Classes

Cognition Problems

Cognition Problems



- Memory



Cognition Problems



- Memory
- Attention



Cognition Problems



- Memory
- Attention
- Problem solving



Cognition Problems



- Memory
- Attention
- Problem solving
- Executive function

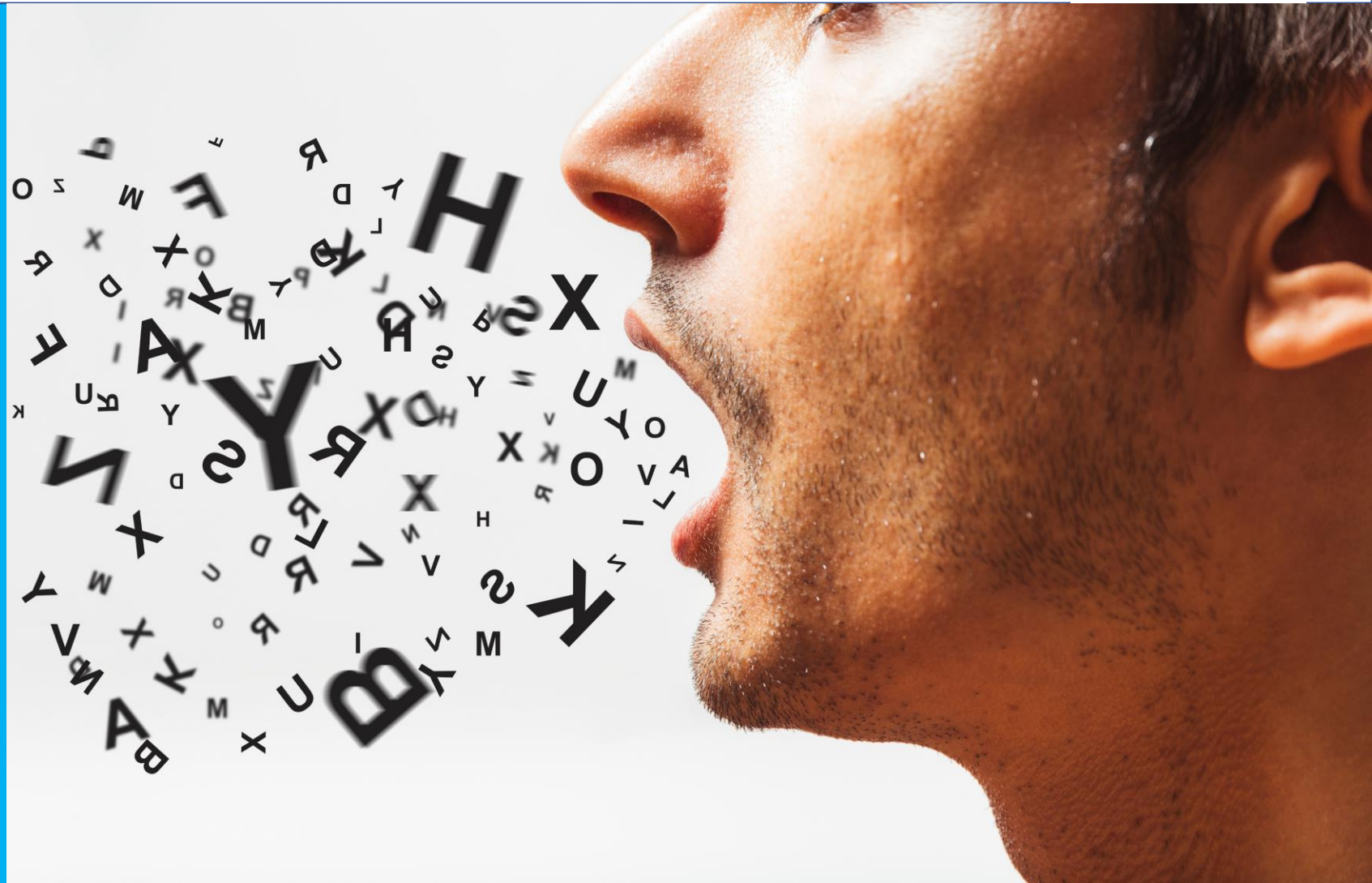


Language Problems

Language Problems



- Word finding



Language Problems



- Word finding
- Understanding messages



Swallowing Problems

Swallowing Problems



3 Phases

- Oral phase
- Pharyngeal phase
- Esophageal phase



Swallowing Problems



Signs/Symptoms

- Coughing
- Throat clearing
- Reduced saliva control
- Runny nose/eyes
- Weight loss



Swallowing Problems



Leads to

- Malnutrition/dehydration
- Decreased quality of life
- Aspiration pneumonia

Swallowing Problems



Don't wait!

Bottom Line

A female healthcare professional with curly brown hair, wearing a white lab coat, is smiling warmly and shaking hands with an elderly male patient with grey hair. The patient is seen from the back, wearing a light blue shirt. They are in a bright, indoor setting, possibly a clinic or hospital room, with a window in the background. The overall mood is positive and professional.

RECAP: SLPs treat

A female healthcare professional with curly brown hair, wearing a white lab coat, is smiling warmly at an elderly male patient with grey hair. They are seated at a table, and the professional has her hand on the patient's shoulder. The background is a bright, out-of-focus indoor setting.

RECAP: SLPs treat

- Voice

A female healthcare professional with curly brown hair, wearing a white lab coat, is smiling warmly at an elderly male patient with grey hair. They are seated at a table, and the professional has her hand near the patient's arm. The background is a bright, out-of-focus indoor setting.

RECAP: SLPs treat

- Voice

- Cognition

A female healthcare professional with curly brown hair, wearing a white lab coat, is smiling warmly at an elderly male patient with white hair. They are seated at a table, and the professional is holding the patient's hand. The background is a bright, indoor setting with a window and a potted plant.

RECAP: SLPs treat

- Voice
- Cognition
- Language

A female healthcare professional with curly brown hair, wearing a white lab coat, is smiling warmly at an elderly male patient with white hair. They are seated at a table, and the professional has her hand near the patient's. The background is a bright, out-of-focus indoor setting.

RECAP: SLPs treat

- Voice
- Cognition
- Language
- Swallowing

Word of caution



Your needs may affect the prescription
the doctor needs to write!

A man with short brown hair, a beard, and glasses is smiling broadly while looking at a smartphone. He is wearing a light blue button-down shirt. He is sitting at a desk in a home office or study. In the background, there is a large bookshelf filled with books and a window with light coming through. The overall atmosphere is warm and positive.

The earlier, the better

why?

- **Say ah loudly**
- **Count 1-20 loudly**
- **Read loudly**

- 
- Say ah loudly
 - Count 1-20 loudly
 - Read loudly



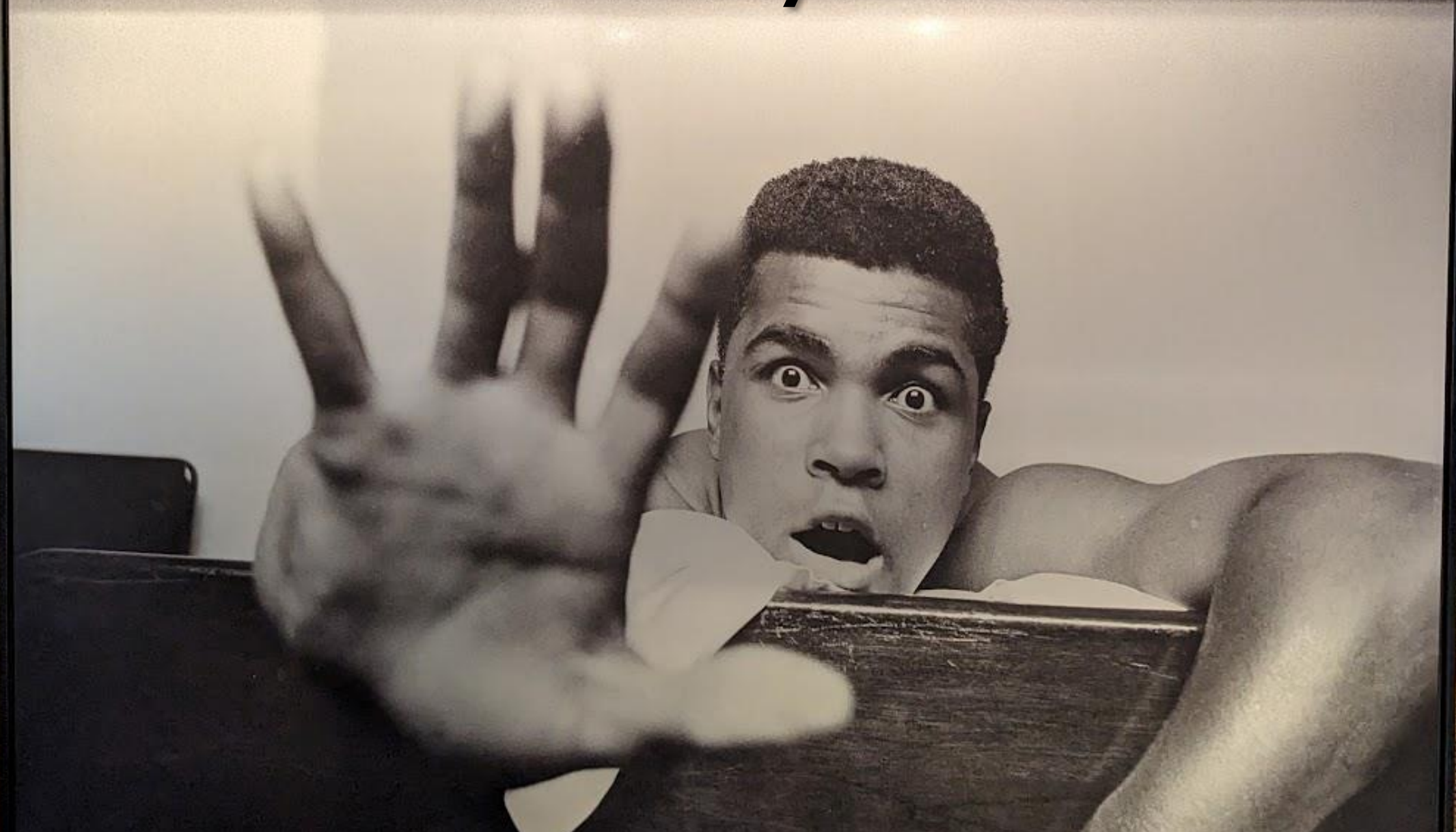
Stay
connected

Key Takeaways



1. Treatment gap
2. Efficacious voice options
3. SLPs treat cog, language, and swallow
4. Sooner = better

Thank you!





stevendarroh@gmail.com

+1.713.899.6750