

Title: Enhanced Solutions for Voice and Mobility Maintenance Classes: Virtual Discoveries in PD Care!

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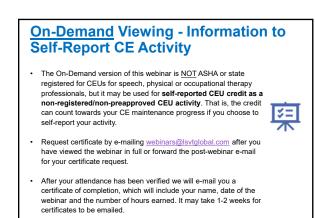
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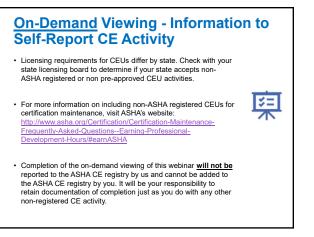
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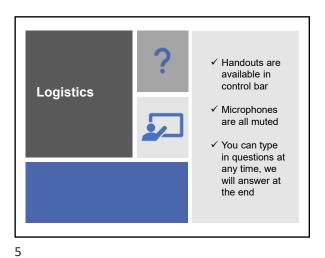


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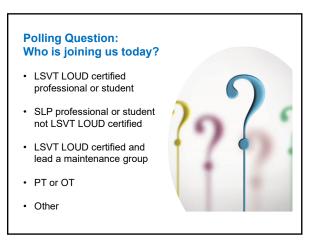
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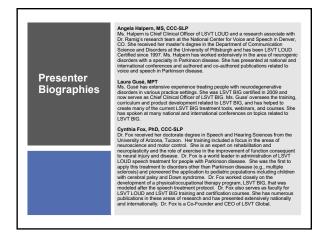




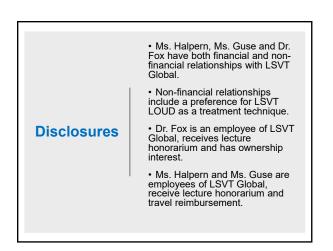




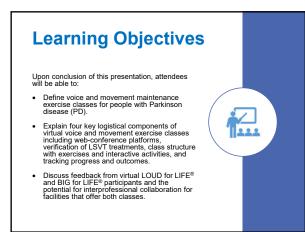








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# LSVT LOUD and LSVT BIG

Intensive amplitude-based exercise/therapy programs for the speech and limb motor systems! Re-education of the sensorimotor system.

#### **Fundamental Treatment Principles**

✓ Hypothesis-based/PD-specific

Neuroplasticity-based

✓ Research-based

#### Intensity and Repetition are Key to Motor Learning And Neuroplasticity!!



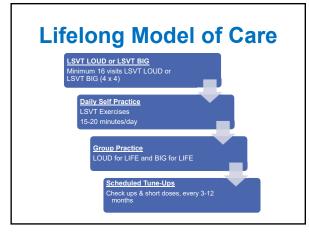
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# LSVT BIG and LSVT LOUD

## **Goals for People with PD**

People with PD will use their bigger movements and louder voice "automatically" in everyday living and there is long-term carryover of increased amplitude use!

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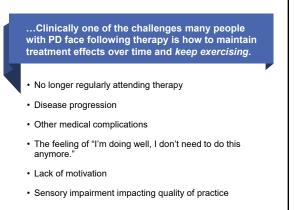


#### **Frequently asked** questions:

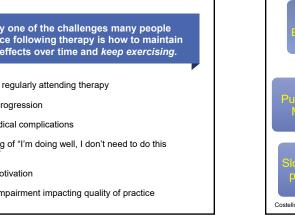
What do I do after LSVT?

Will I be able to keep it up?

I already (sing, box, workout, dance, etc.). Is that enough?

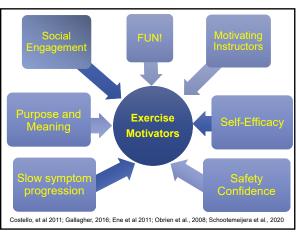


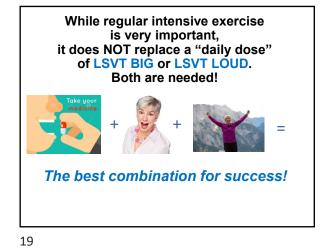


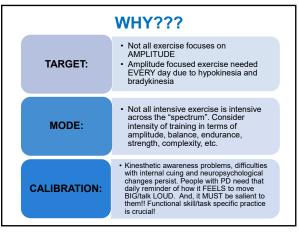












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LOUD for LIFE &

**BIG for LIFE Goals** 

Support regular practice of LSVT LOUD & LSVT BIG Exercises and BIG movements/LOUD voice to help maintain treatment gains over time!

Promote general wellness and reduce overall healthcare costs
Provide opportunities for peer interactions to reinforce

· Enhance motivation to exercise in a fun way!

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## LOUD for LIFE & BIG for LIFE are NOT:

#### Skilled therapy

Billed as group therapy

For people who have not yet received LSVT LOUD or LSVT BIG

A replacement for LSVT LOUD or LSVT BIG treatment, DAILY home practice of Tune-Ups!

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PRIMARY GOALS

SECONDARY GOALS

calibration

Provide social interaction Reduce care partner burden

#### LOUD for LIFE Class: What Happens?

Check in, discuss home practice from previous week and assign new home practice.

#### Daily Exercises:

- Maximum Duration of Sustained Vowel Phonation (Long Ahs) 6+ 1. reps
- Range (High/Low Ahs) 6+reps each 2.
- Maximum Functional Speech Loudness (Functional Phrases) -1 rep of 10 phrases.
   Choral, Mixed Order, Alternate sides of the room.

Goal for all Exercises: LOUD with Good Quality!

Catch Phrases: Choral Reading

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Community Activities



Challenge: Add Salient Motor and Cognitive Tasks while doing Daily Exercises

Motor: Mimic functional movement for upper body and hands while seated; walking around.

**Cognitive:** Generate words by category or letter (topic of the day); Memory Tasks

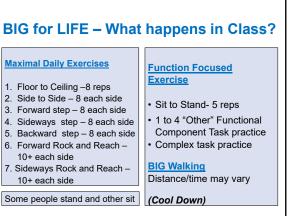
# Goal of Daily Exercises: Louder Voice in Conversation

**Remind Class of Purpose:** 





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**Remind Class** 

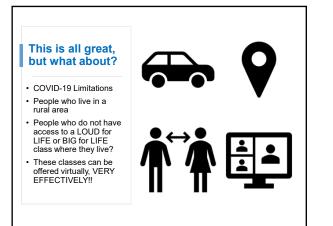
of Purpose:

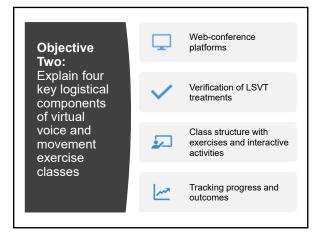
Goal of Daily Exercises-

Biaaer Movements in

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Function





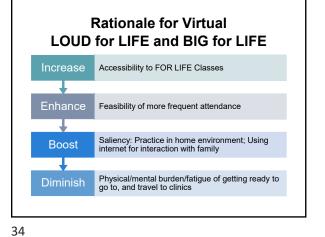
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### Verification of LSVT Treatment and Consent

- Can be done electronically through a secure portal
- Could include:
- Confirmation of previous LSVT Treatment 0
- Consent to class participation 0
- Acknowledgement of privacy policy and 0 class conduct
- o Liability Waiver

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## **Privacy and Security: Provider Considerations**

#### LSVT for LIFE Group Leader must protect privacy of participants' personal health information

#### Secure Platform

- Privacy Code of Conduct reviewed at the beginning of each session, auditorily and visually.
- Hold a paper up with the same points as you talk. For example:
  - · In order to protect the privacy of fellow participants
  - Please do not video record, audio record, take photos or computer screenshots of the session.
  - Identify anyone else who is in the room with you, especially those that other people cannot see.

  - Do not share information about other people in the session
  - Agree to not engage in inappropriate behavior or language

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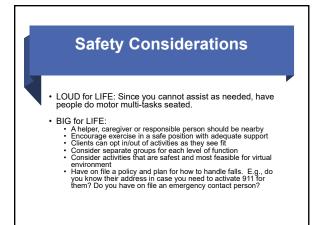
# **Technical Support**

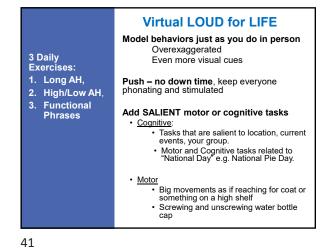
Ask people to log in 5 minutes early to problem solve tech issues.

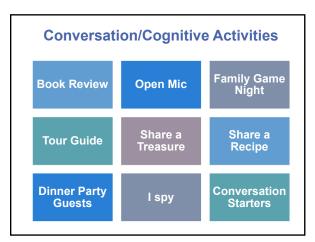
Have someone else run the session as

- Have someone else run the session as admin. Duties: Help people offline if issues with log in, audio, video, so it doesn't disrupt the whole class Rename people as needed for privacy Handle the chat room Dut receipt into kreckruit recent and points
- Put people into breakout rooms and pop into the rooms to make sure no tech
- issues Mute/unmute participants Spotlight class leader when leading daily exercises

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#### Communication/Cognitive Activities: Considerations for Small Group Breakout Rooms

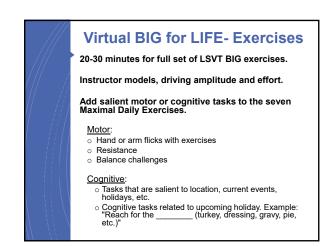
- Before going into break out rooms instruct people to:
- Take turns talking; everyone needs to share.
   Help each other; you have logged in to
- work on your voice. If someone is not loud enough, tell them, if they sound good, tell them.

....

- Consider the levels of functioning of people that are in the rooms together

   Advantages of similar levels
   Advantages of mixed levels
  - Personal preference

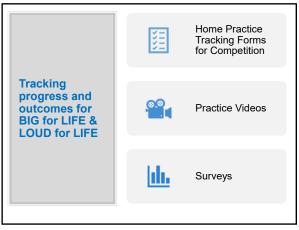




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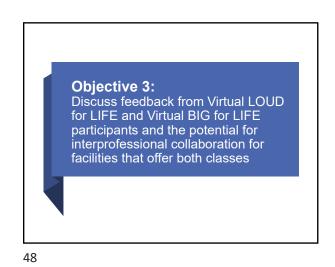


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#### Have your habits of practicing your LSVT exercises on your own changed since joining the LOUD for LIFE or BIG for LIFE classes?

- · Consistent/no change: 4
- Better: 3
- Worse: 0

"I have always been pretty good at doing my practicing, but now I very rarely miss a day."

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# What would you like LSVT Graduates who have not joined to know about the classes?

"As a motivated person who faithfully did my LSVT BIG exercises daily for years by myself, I thought that I was doing fine. However, the 'energy' of the class, and the **camaraderie** of the participants makes the exercises much more fun. Furthermore, I am continually learning from the **expert instructors**, thereby significantly improving the quality and energy of my daily exercises."

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#### Do you feel you are likely to attend a virtual class with the same frequency or with more or less frequency than a live class?

- "I think it's a toss up for me although the virtual class is a little more convenient whereas the live class is a little more motivation because of the personal touch. I would attend both at the same frequency."
- "I am more likely to attend virtual classes due to the ease of attendance, the evolution of technology in facilitating the class experience, the safety aspects during the pandemic and driving not being a necessity any longer. It also provides and opportunity to meet and interact with people outside of my current geographical boundaries."
- "Now that I am comfortable with the virtual format, I would probably attend the virtual class more frequently than a live class. Previously, I might have underestimated the personal feel of the virtual class. With the virtual format, there is no travel time to/from class, allowing me to fit it into a smaller time window. Also, things like weather, car-in-shop, repairman at the house or delivery expected are not concerns."

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# What motivates you to come to the class(es)?

- **Participating with a group** and a challenge to improve my performance. It beats being alone as the group gives inspiration.
- What motivates me? My health and desire to stay ahead of Parkinson's! Also the joy of participating with such an incredible group of individuals who are sharing this journey with me. We help encourage each other to maintain these practices. Also they just make me smile and I look forward to being together. It's like we've developed an international family. And of course the therapist who are also so positive, encouraging and challenging us and keeping the classes fun.

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#### What is the most "unexpected" outcome from being a part of LOUD or BIG for LIFE classes?

"I am surprised at how much I enjoy, in this virtual format, the **camaraderie** with the class and instructors. In addition to the many Parkinson's specific exercise benefits of the class, I really enjoy being a part of this group of people from all over the country, exercising together and sharing thoughts, insights and experiences."

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# Interprofessional Collaboration Shared themes Shared clients who encourage each other Through word of mouth, clients promote holistic therapy for those who have only received LSVT BIG or LSVT LOUD, but not both Cross refer for tune-ups

- Cross refer for tune-ups
- Increase opportunities for use of voice and movement in class
- FUTURE: Combined LOUD for LIFE and BIG for LIVE classes!

#### In Summary We Have....

- Defined voice and movement maintenance exercise classes for people with Parkinson disease (PD).
- Explained four key logistical components of virtual voice and movement exercise classes including web-conference platforms, verification of LSVT treatments, class structure with exercises and interactive activities, and tracking progress and outcomes.
- Discuss feedback from virtual LOUD for LIFE<sup>®</sup> and BIG for LIFE<sup>®</sup> participants and the potential for interprofessional collaboration for facilities that offer both classes.

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