Tongue in Cheek.....So to Speak.....

(or Let's Talk About Speech Pathology)

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OUTLINE

Speech and voice

Respiratory/breathing strengthening

Swallowing

Thinking

Speech and Voice



Speech and Voice Changes

Reduced loudness

Hoarse voice quality

Monotone

Imprecise articulation

Vocal tremor

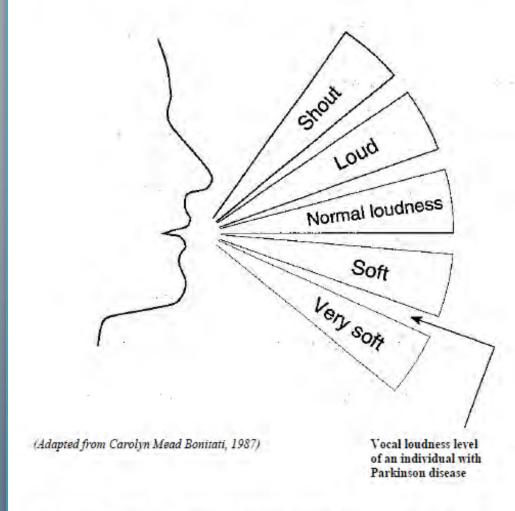
Golf....?



LSVT LOUD TO THE RESCUE!



RELATIVE VOCAL LOUDNESS LEVEL OF AN INDIVIDUAL WITH PARKINSON DISEASE



As a result of Parkinson disease you will need to use more **vocal effort** to have a voice within normal loudness limits.

Focus of LSVT Loud

BIG—moving mouth bigger

LOUD --- talking louder than you think is necessary

LSVT Loud

Scientifically researched over the past 25 years with funding from the National Institutes of Health

Outcome data have been published in a series of articles in speech, otolaryngology and neurology journals

LSVT Loud Program

LSVT Loud treatment consists of:

- 1) 16 sessions: 4 consecutive days a week for 4 weeks
- 2) Individual 1 hour sessions
- 3) Daily homework practice
- 4) Daily carryover exercises

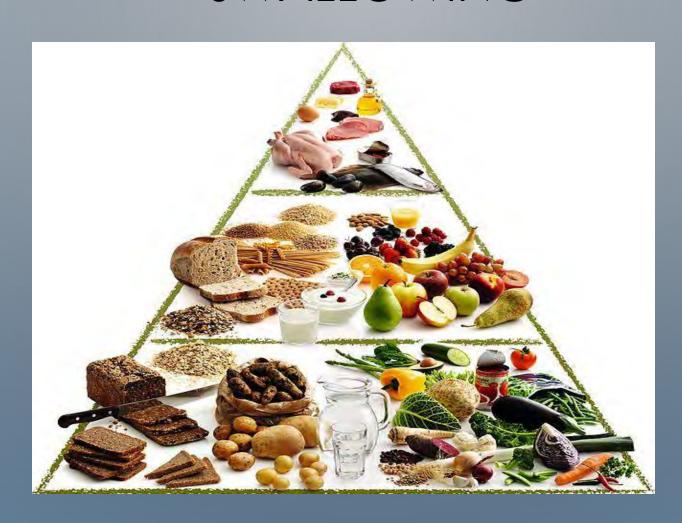
Benefits of LSVT Loud

- Increased vocal loudness
- Improved articulation and speech intelligibility
- Improved intonation
- Improvements in facial expression
- Improvements in swallowing
- Changes in neural functioning related to voice and speech





SWALLOWING



How do I know if I have a swallowing problem?

- Cough before, during or after eating, drinking, or taking medications
- Sensation of food being stuck in the throat
- Avoidance of certain foods such as breads or meats
- Avoidance of drinking liquids
- Unintended weight loss loss

Objective Evaluation of Swallowing

- Modified Barium Swallow (MBS)
 - Speech pathologist and radiologist
 - X-ray
 - Barium is mixed with various foods and drinks
- Flexible endoscopic evaluation of swallowing (FEES)
 - Speech pathologist
 - Flexible laryngoscope
 - Direct visualization of the larynx

Objective Evaluation of Swallowing

Mhh

- Silent aspiration
- Recommend safe diet
- Compensations
- Design treatment program

Goals of Swallowing Therapy

Maximize person's quality of life

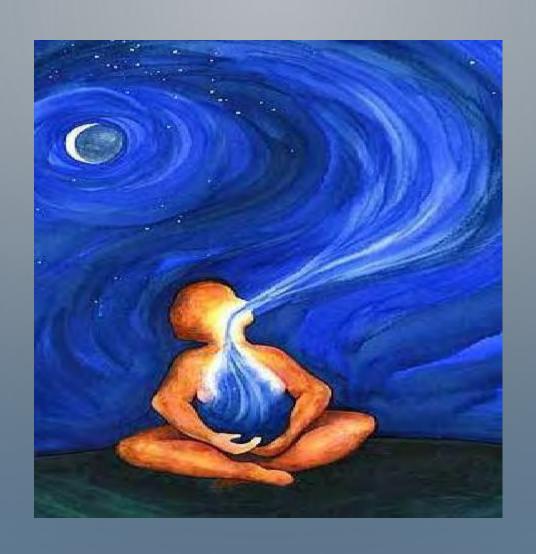
 Maintaining social connections especially those that involve food

Integrate favorite or cultural foods

Goals of Swallowing Therapy

- Reduce risks aspiration and choking
- Support optimal nutrition and hydration
- Facilitate efficiency of eating and swallowing
- Maximize person's independence with eating and drinking

RESPIRATORY TRAINING



EXPIRATORY MUSCLE STRENGTH TRAINING USING ESMT-150

- Increases strength of the muscles for exhalation
- "Weight lifting" for the muscles of exhalation
- Breathing related functions such as coughing, swallowing and speech were also improved

EMST-150 EXPIRATORY MUSCLE STRENGTH TRAINER





EXPIRATORY MUSCULAR STRENGTH TRAINING

THINK 5:

- 5 REPETITIONS
- 5 TIMES PER DAY
- 5 WEEKS

PUTTING IT ALL TOGETHER

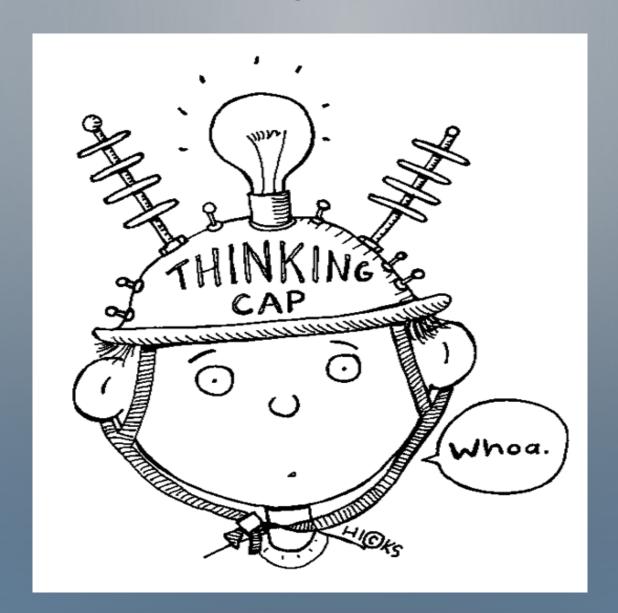
Improving the respiratory and phonatory systems can lead to

improvements in swallowing.

MIND=BLOWN



Thinking.....



Changes in Thinking and Memory

- Do not affect everyone with Parkinson's Disease
- Can occur at anytime in the course of Parkinson's Disease
- Can vary widely in trajectory and severity

Changes in Thinking and Memory

Executive Function skills are impacted

- multitasking
- planning and organizing
- problem solving

Memory

Attention

Word Finding

2-PRONGED APPROACH

Thinking Program

Compensations

"Active Cognitive Lifestyle"

- Daily mentally challenging tasks
- Relevant
- Stay social

Reading

- Books
- Daily newspaper
- Magazines
- Book club—join or start one

Puzzles

Puzzle books, jigsaw puzzles

Crosswords

Sudoku

New skills

- Learn a language
- New craft
- Instrument

Computer programs

AARP website

Proprietary "Brain Exercise" programs

- Lumosity,
- CogniFit

Volunteer

- Many many opportunities
- Many non-profits need help
- Places of worship

Compensations

Goals are to reasonably maintain

- Independence
- Safety

Compensations

Schedules

Calendars

To Do Lists

New Routines

Use of timers, apps

Operate household appliances

TV and Cable remote

Good Fit



Teletherapy



Teletherapy

- A computer or an iPad with a webcam
- USB webcam
- Microphone
- Secure web connection (WebEx)
- No cost for the patient for the time online
- Commercial insurance
- Medicare does not pay for teletherapy

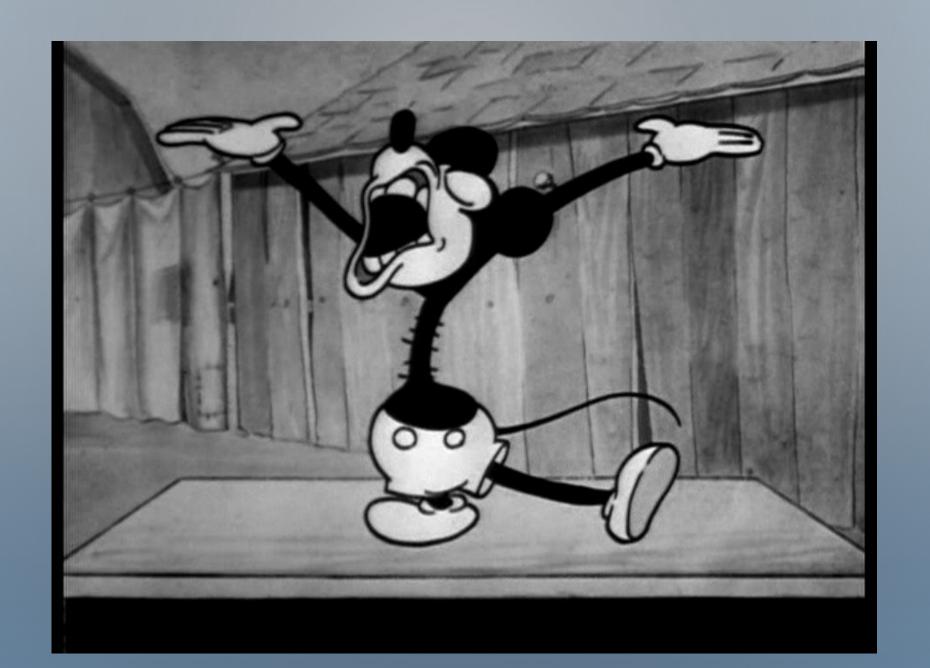
Teletherapy



Program from Speech Pathology

- LSVT Loud
- Respiratory Training/EMST 150
- Personalized Thinking Program
- Personalized Eating Program
- Nutrition
- Daily exercise

"If all my possessions were taken from me with one exception, I would choose to keep the power of communication, for by it I would soon regain all the rest." Daniel Webster



HOMEWORK HELPER VIDEO





Homework Helper!

Speech Excercises for people with Parkinson Disease and other neurological disorders

LEE SILVERMAN VOICE TREATMENT LSVT LOUD

9200 speech pathologists in 54 countries are certified to provide lsvt loud

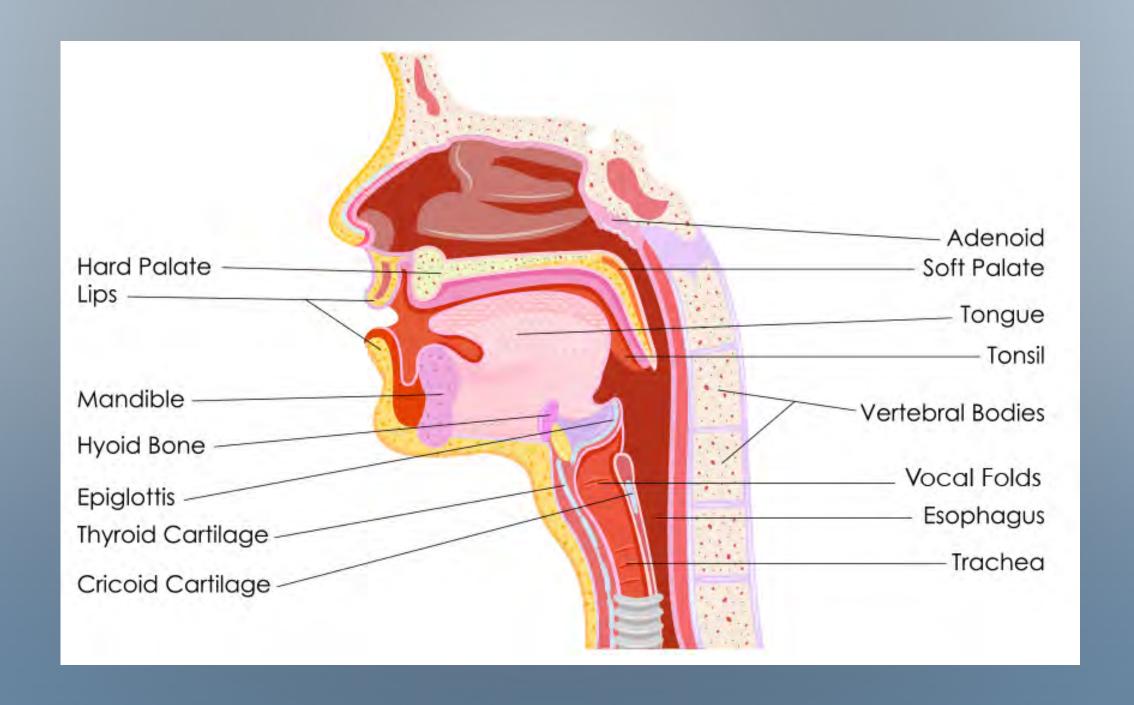
Over 30,000 people with Parkinson's Disease have been treated

 Over 20 years of robust scientific research funded by the national institutes of health **LSVT LOUD** IS A STANDARDIZED TREATMENT PROTOCOL THAT IS CUSTOMIZED TO THE UNIQUE COMMUNICATION GOALS OF EACH PERSON ACROSS A RANGE OF DISEASE SEVERITY AND COMMUNICATION IMPAIRMENTS.

BENEFITS OF LSVT

Science has shown exercise can improve brain function and slow disease progression

Research on LSVT LOUD over the last 25+ years has established this spread of effects. Many different systems are activated and improvements are seen across many systems. Significant improvements have been noted in areas such as facial expression, articulation, respiratory kinematics, swallowing, neural functioning as measured by positron emission tomography (PET), and more.



EMST

