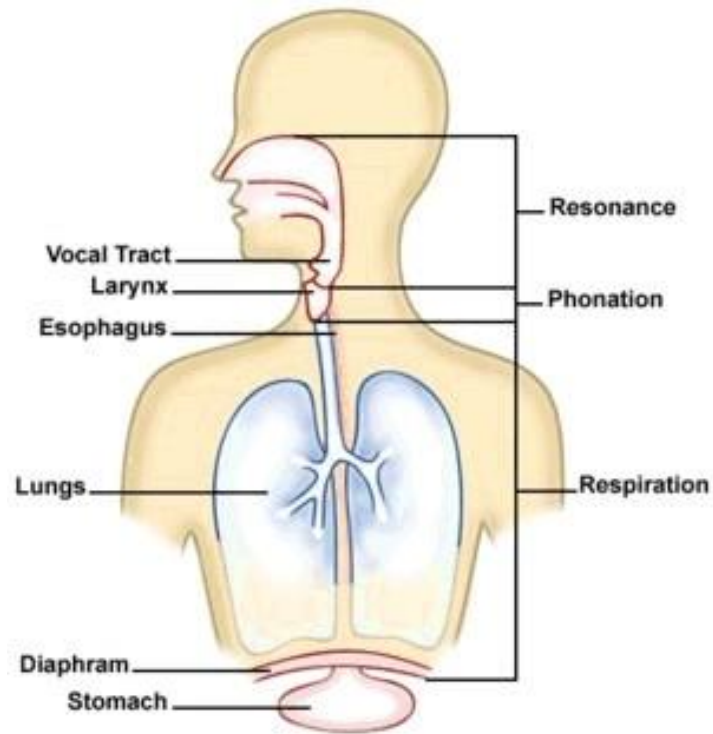


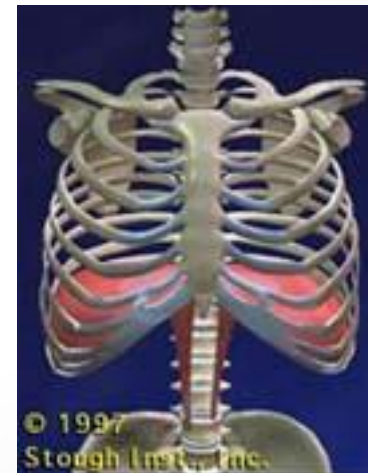
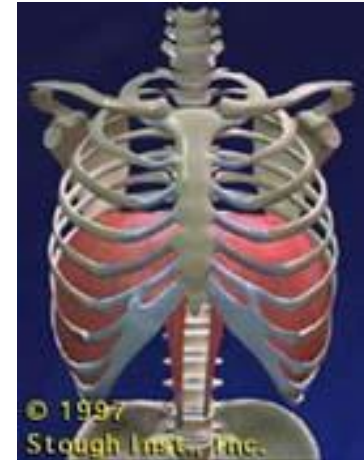
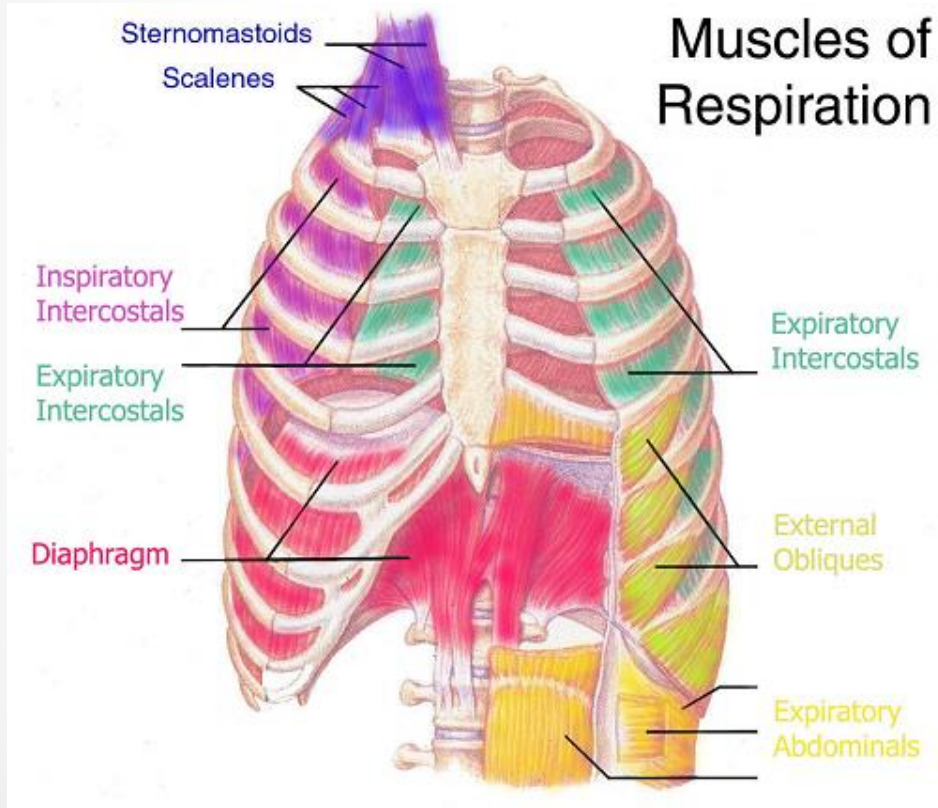
# OPMD and Speech

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Department of Speech & Hearing Sciences  
University of New Mexico

# Speaking requires muscles

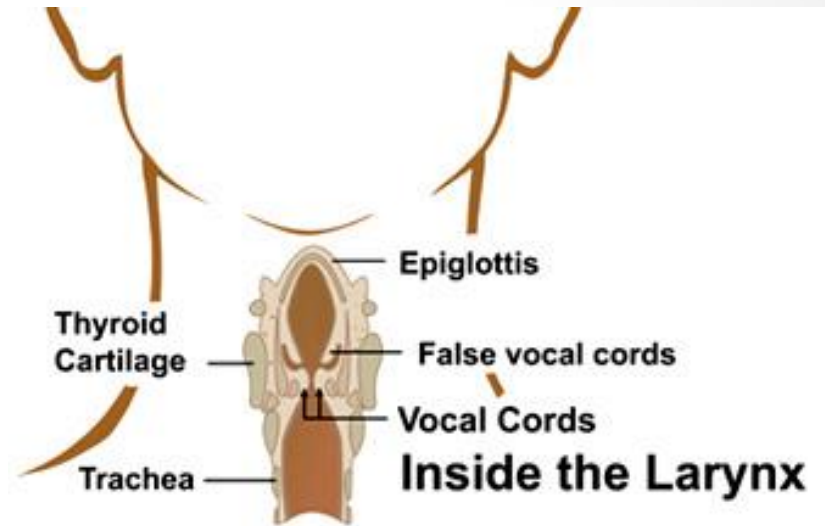
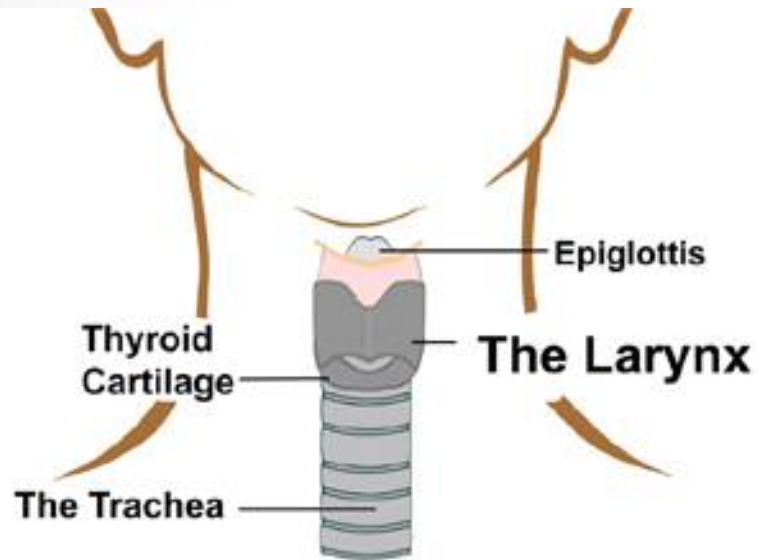


# Respiration provides the power source

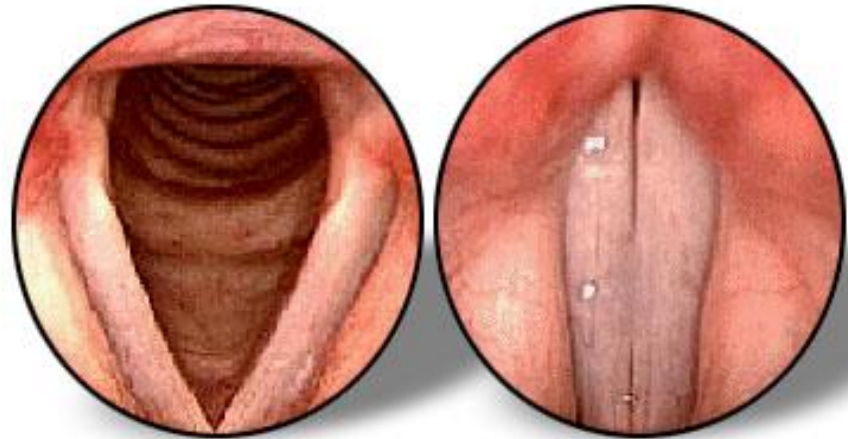
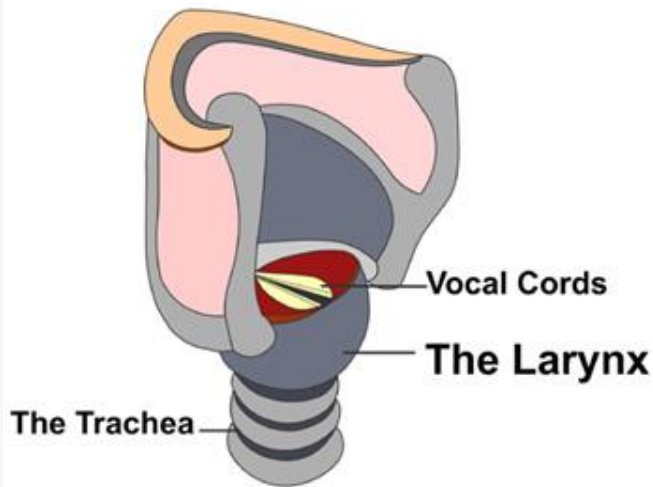


[video](#)

# Phonation creates the tone



# Vocal folds vibrate

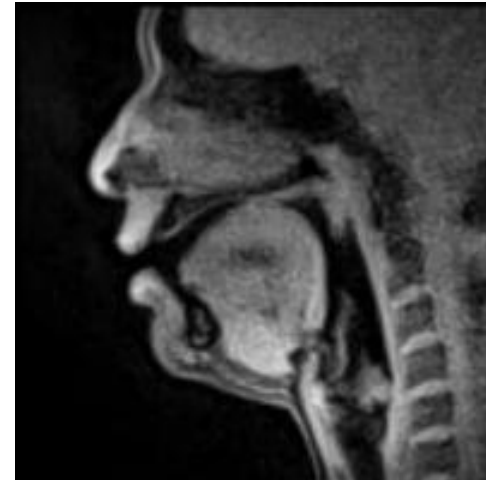
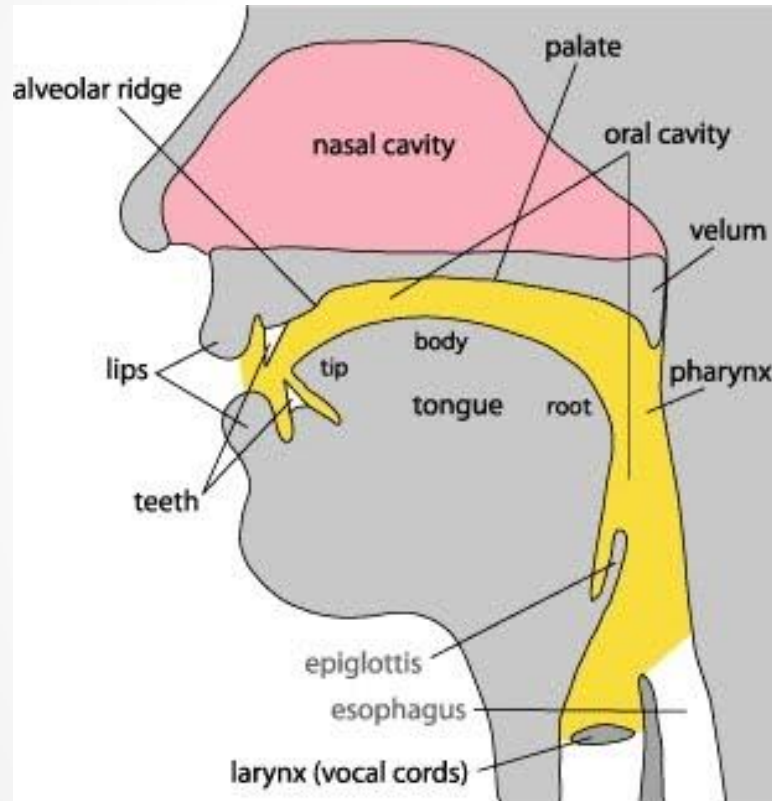


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[video](#)

[audio](#)

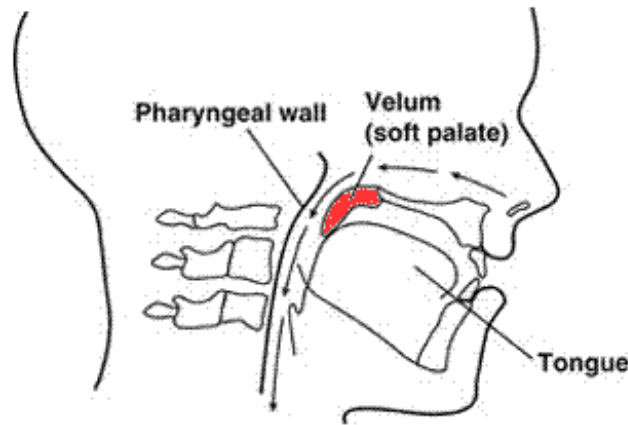
# Articulation shapes tone into speech sounds



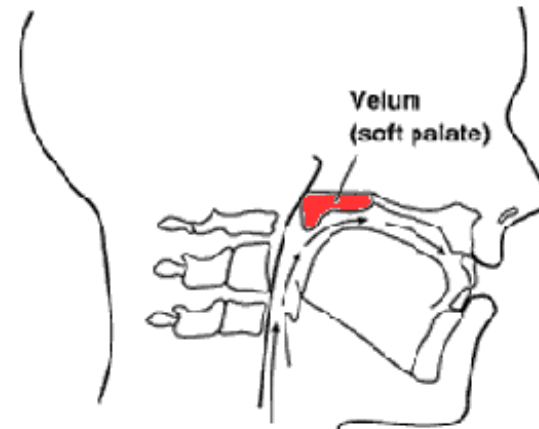
[video](#)

[video](#)

# Resonance controls airflow into nose



Breathing  
“m,” “n,” and “ng”



Swallowing  
All other speech sounds

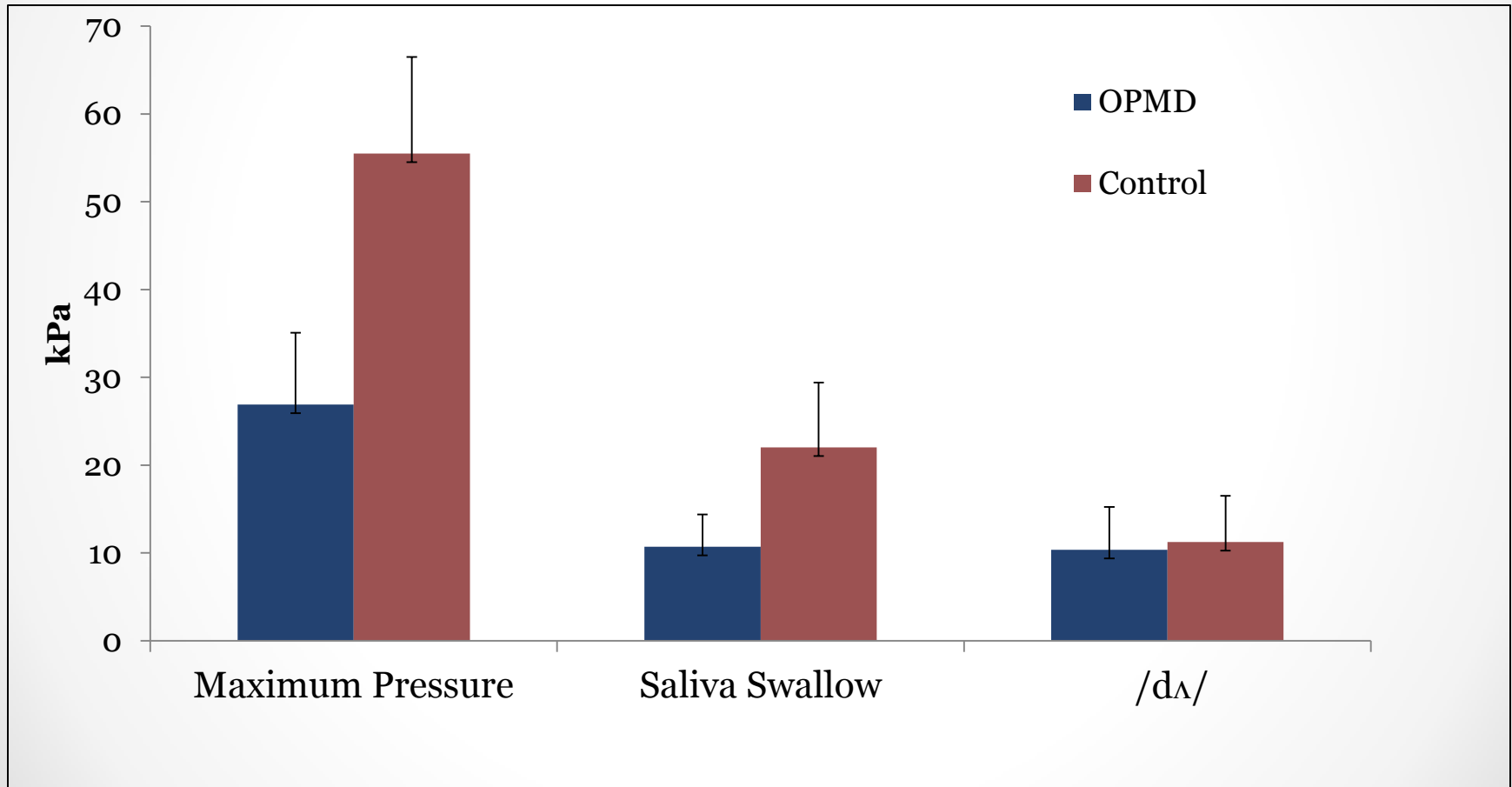
[video](#)

# Muscle weakness in OPMD can cause...

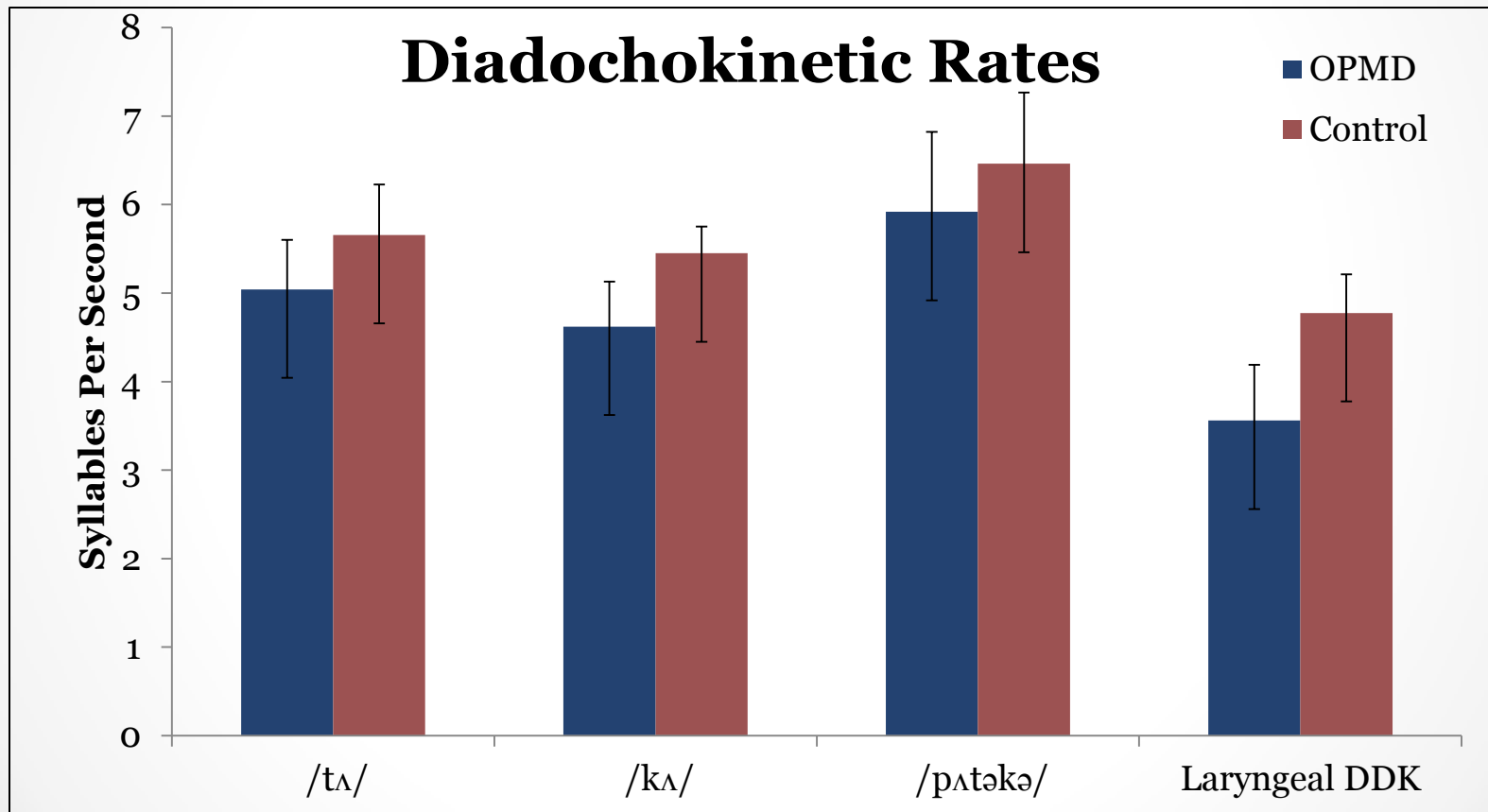
- Respiration problems?
  - Not very common
- Voice problems
  - Weak voice, low volume
- Articulation problems
  - Slow, slurred speech
- Resonance problems
  - Nasal-sounding voice



# Speech is usually less affected than swallowing



# Speech may be slower than normal



# Speech may require more effort than normal

