



Today's Agenda

Overview of dysphagia, aspiration, & choking

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- Risk Factors
- Signs and Symptoms
- Intervention and Prevention Strategies
- Case Study
- Questions

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What is Dysphagia?

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- <u>Dysphagia</u>: Trouble with chewing and swallowing. Food and saliva may go into the lungs instead of the stomach
- <u>Aspiration</u>: Food goes into the airway but the person can still breathe; person may cough
 - Silent aspiration = no coughing
- <u>Choking</u>: Food is lodged in the airway and blocks airflow

Coughing True or False?

- Coughing is used to clear the airway
 True
- You can see if someone is aspirating

False

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 A change in coughing frequency or type may indicate a bigger problem True

How do people swallow?

- Pre-Oral: anticipation and preparation to eat
- Oral: food is chewed/processed in mouth and swallowed
- Food moves into throat and esophagus
- What goes wrong with choking and aspiration?

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When a person has dysphagia...

- Poor food & fluid
 Respiratory intake
- Malnutrition & Dehydration
 - pneumonia Urinary tract Skin infections/

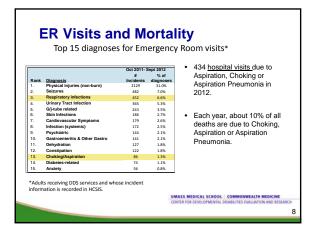
pressure ulcers

infections

Aspiration

infections Renal failure

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What increases a person's risk for dysphagia?

- Medication side effects
 - Relaxed muscle tone
 - Increase salivationCause dry mouth



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- Sedating
- Neurological Conditions: Parkinson's, multiple sclerosis, seizure disorders, Dementia, Cerebral Palsy
- Age
- GERD
- Poor Oral hygiene



Risk factors for choking

- Incorrect food texture
- Medication intervention or supplemental medication
- Eating too fast/not chewing adequately
- · Easily distracted at meal time
- Pica

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Behavioral issues – grab food and run

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No texture "holidays"

Risk Factors - Aspiration

- Poor positioning
- Guzzling, gulping air
- Poor airway protection
- Poor coordination of breathing and swallowing

5 most common reasons a person is referred for a swallowing evaluation

- 1) Frequent coughing
- A change in coughing frequency or type



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3) Loss of interest in certain foods or textures4) Losing weight or are dehydrated/malnutrition

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5) Reoccurring pneumonia

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Other signs you might not notice

- Tired all the time
- Looks like they have a running nose all the time
- Increased agitation pushing, throwing food
- Sounds like they have a cold or they get lots of colds
- Blinking and watering of the eyes

Clinical Signs

- Cyanosis (blue discoloration of the skin)
- Chest or throat discomfort, especially when g-e reflux is present
- Anemia, low hemoglobin and hematocrit
- Low grade fever or spiking temperature, even as soon as 30
 - minutes to 1 hour after eating

What are some prevention and intervention strategies you might try?

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Conduct a swallowing evaluation

 Experienced Occupational Therapist or Speech Pathologist

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- Modified barium swallow study (MBSS)
- Helps identify safest food and beverage textures and dining strategies
- Communicate changes or concerns
- Direct support staff and other careqivers crucial for success: They are th and last link in chain of care!



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Modify Food Textures

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- Regular: Food served in a whole form.
 Cut-Up: Food is in bite-size pieces.
- Chopped: Food chopped to pea size, and is very soft.
- Ground: Small pieces of each food item that has been processed down to the size of an apple seed. It includes enough liquid to moisten the food and/or bind food items together.
- Pureed: Foods processed to a pureed consistency. It is smooth, moist, pudding-like and contains no lumps. All food items should drop off the spoon in globs when the spoon is tilted. They should not run off in a steady
 stream, or be dry and pasty.

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Food Textures Continued

- Ensure medication is consistent with diet orders
- Considerations when going out to a restaurant:
 - Many restaurants will texturize the food if you ask
 - May bring a manual food grinder just in case

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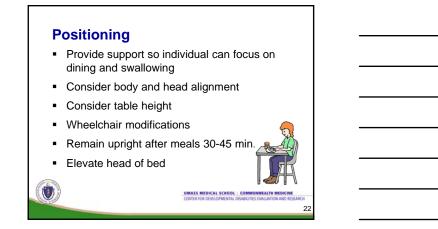
Modify Diet

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- A Registered Dietitian can make recommendations for foods for specialized diets e.g. GERD
- Avoid high risk foods that may cause problems
 - Sticky foods like peanut butter
 - Particle foods like popcorn or nuts
 - Stringy foods like fried eggs or celery
 - Foods that increase/thicken saliva like milk
- or yogurt

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Thicken Beverages Best determined by MBSS • Increases weight for better sensory perception . Slows flow . Gives time to help organize and trigger a . swallow. . If necessary, look for low calorie thickener if a concern, Correct mixing . Water for good hydration 1 UMASS MEDICAL SCHOOL COMMONWEALTH MEDICINE 2



Meal Strategies

- Pacing
- Cue levels
- Divided plate,
- Plating small
- amounts of foodMay need to spoon
- feed for slow pace
- Alternate food/beverage
- Utilize the

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- second/dry swallow
- Increase sensory input
- Cups and Utensils
 Small utensils
 - Nosey cups
 - Sippy cups
 - Pro-Val cup
 - Spout cups
 - Travel mugs
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Environmental Strategies

- Quiet, focused meals that minimize distractions
- Be aware of access to kitchen and food (staff food too)
- In the community, be aware of helpful third parties, i.e. civic events or parties with many volunteers
- Light physical activity to aid digestion

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An important word on oral care

- Thorough oral care can eliminate bacteria; mouth care needed at end of meal and after evening medications
- Tooth brushing
- Increases salivation
- Individual may be on thickened fluids
- Head position

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- Use of toothpaste, peridex
- Suggestions: good positioning; minimal toothpaste, use cloth or toothette to absorb saliva; toothette or cloth to wipe gums/gum line

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Final Thoughts

- Emergency protocols are in place for choking – check with your agency
- Early recognition of signs and symptoms of dysphagia can prevent aspiration
- Consider g/j tubes as alternate feeding
- Direct care staff and others who provide assistance are the last – and most important – link in the chain of care

Case Study

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- 35 year old male with recurrent pneumonia
- Medical History:
 - Multiple hospitalizations due to recurrent pneumonia
 Uses oxygen 24/7
 - The MBSS showed normal swallow
 - He is currently on a mechanical soft diet and thin liquids
- Dining evaluation
 - Eats rapidly
 - Takes large bites
 - Gulps beverages

Enjoys extra large iced coffees using a large straw

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The plan



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- Maintain his mechanical soft diet and thin liquids
- Pacing program for food and beverages
- Accurate food texture
- Very close supervision
- Beverages in small sips, small straw or covered travel cup

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Low distraction setting at meals



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The Outcomes

Re-evaluated after one year:

- Off the oxygen
- No further pneumonia
- Support staff continue with the pacing plan

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For more information

- Contact the Occupational Therapist or Speech Pathologist for further evaluation, in-services, or assistance with implementing MBSS recommendations.
- Contact the Area Office nurse for info on local resources.
- MA DDS fact sheets and risk management guidelines available on the DDS website <u>http://www.mass.gov/dds/</u> by searching for aspiration, dysphagia, or choking in the search box.





