### DYSPHAGIA

the Advocacy
Alliance

**HEALTH CARE QUALITY UNITS** 

#### Disclaimer

The information presented to you today is intended to increase your awareness

The information is not intended to replace medical advice.

If you are in need of medical advice, please contact your physician.

#### Objectives

- The participant will:
- Have an increased understanding of the normal swallowing process
- Recognize the signs and symptoms of swallowing difficulty
- Be able to name some of the causes of Dysphagia.
- Be able to follow up if difficulty in swallowing is suspected.
- Apply safety measures that need to be utilized during mealtime.



### The Joys of Eating

- social event forward to the flavors and taste of food. The smell of food during effective eating and digestion. Most of the time eating is also a preparation stimulates salivation which paves the way for For most of us, eating is pleasurable and effortless. We look
- For an individual who has swallowing difficulties, eating a meal may feel more like work.
- distracted, refuse to eat, or become nutritionally compromised. As a result, this individual may take longer to eat, be easily



# Dysphagia Definition

- Dysphagia is difficulty chewing, swallowing, or moving food or fluid from the mouth to the stomach.
- different symptoms, of Dysphagia. There are numerous causes, and therefore many
- the inability to eat solid food. These symptoms range from mild throat discomfort to



### Facts and Figures

- The percentage of individuals affected by Dysphagia include:
- □ Up to 30 percent of all hospitalized individuals.
- Up to 68 percent of individuals in nursing homes
- Up to 60 percent of individuals in rehabilitation centers
- The incidence of feeding and swallowing difficulty increases with the degree of disability.



#### Anatomy

- Pharynx throat.
- Esophagus the tube that carries food from the back of the mouth to the stomach.
- Stomach food storage tank.
- Trachea airway tube.
- Aspiration the taking of food, liquid, or a the airway. foreign substance into the lungs through

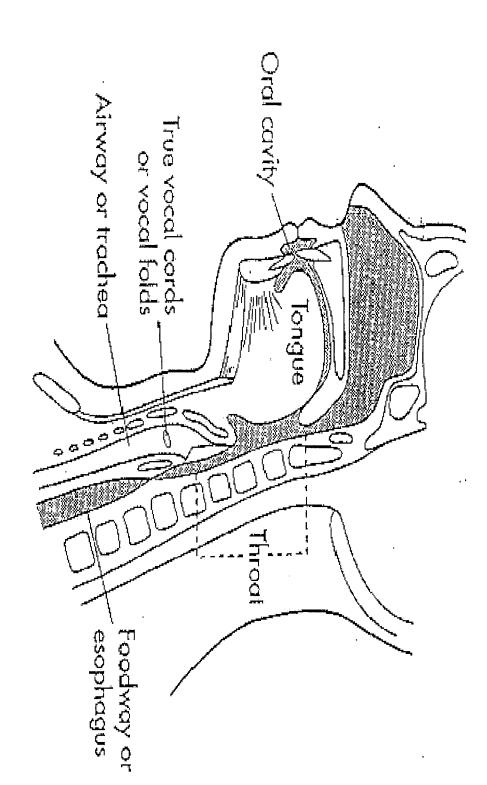


### Types of Aspiration

- Silent Aspiration when a foreign substance of aspiration. enters the lungs without signs or symptoms
- Aspiration Pneumonia an infection of the substance entering the airway. lungs caused by food, liquid, or a foreign



### Throat Anatomy





### Swallowing Process

- are used for chewing and swallowing. One hundred muscles of the head and neck
- Both voluntary and involuntary action is People swallow 600-1000 times a day. involved.

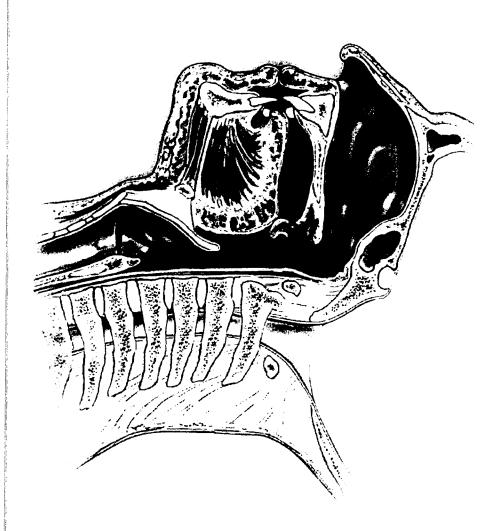


# Four Phases of Swallowing

- Oral Preparatory Food is chewed, Lip closure creates a negative pressure. mixed with saliva, and forms a food bolus.
- Oral Propulsive Food is propelled front to back squeezing motion. backward through the mouth with a



#### Picture of Oral Phase of Swallowing



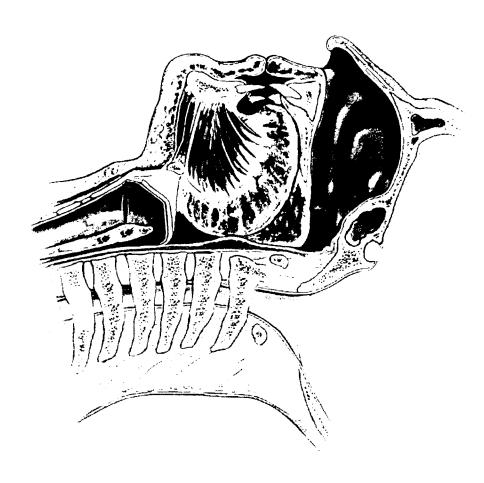


# Four Phases of Swallowing

airway during a swallow. epiglottis, larynx, and vocal cords have a bypassing the trachea or windpipe. The from the oropharynx to the esophagus, mechanism intact, which helps protect the Pharyngeal - This is where the food moves



#### Picture of Pharyngeal Phase of Swallowing



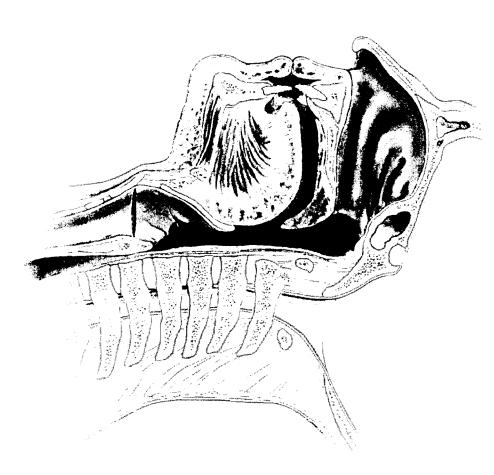


# Four Phases of Swallowing

sphincter, into the stomach. esophagus, through the lower esophageal esophageal sphincter through the Esophageal - Food moves from the upper



#### Picture of Esophageal Phase of Swallowing





# Symptoms of Dysphagia

- Frequent episodes of gagging, coughing, or choking.
- Coughing or choking during, or after, eating or drinking.
- Gargly (wet) voice during or after eating or drinking.
- Increased temperature of unknown cause Frequent upper respiratory infections or pneumonia.
- Eating rapidly.
- Swallowing food whole.
- Extra effort, or difficulty, with chewing or swallowing.



# Symptoms of Dysphagia

- Vomiting
- Weight Loss
- Storing food or drink in the mouth
- Frequent, repetitive swallowing
- Hesitation, or inability, to swallow Frequent throat clearing, hoarseness, or sore throat
- Food sticking in the throat
- Facial grimacing



# Symptoms of Dysphagia

- severe. In some cases, the individual may not Symptoms of Dysphagia can range from mild to
- difficulty. respiratory problem as a result of the swallowing can result if the consumer has developed a of breath are a few of the symptoms that Labored breathing, wheezing, and shortness exhibit any visible signs.



#### Causes

- etc. Neurological disorders - This may include stroke, head injury, cervical spinal cord injury,
- examples. Congenital/progressive neurological Palsy, and Parkinson's disease are a few conditions - Alzheimer's disease, Cerebral
- Structural defects This category may include tumors of the head or neck, and facial trauma.



### Causes (continued)

surgery. the throat, an injury to a muscle or nerve post Medical problems or complications resulting difficulty swallowing due to severe infections of from a medical intervention – may include

### Certain medications

Psychogenic – e.g., fast eating syndrome, lack of interest in eating, or swallowing food whole



### Complications

- and not treated. a person has Dysphagia that is not identified, There are serious problems that can develop if
- Possible complications:
- Poor nutrition or dehydration
- Aspiration pneumonia
- Chronic lung problems
- Lack of enjoyment when eating or drinking
- Isolation at social events that involve eating



# Swallowing and Safety

- As soon as the staff or a family member sees that house nurse the individual has one or more of the symptoms of Dysphagia, or a complication of it, the information needs to be reported to the house supervisor or the
- Next, the information needs to be reported in a timely manner to the family physician.
- It may be helpful to keep a record of the individual's surrounding the event. eating or drinking, and any other conditions symptoms, when they occur, what the individual was



#### Swallowing and Safety (continued)

#### Remember

your agency protocol and call 911 if indicated. In an emergency situation, follow



# Diagnosing Dysphagia

- The Primary Care Physician:
- Takes a thorough medical history.
- Does a physical exam.
- Checks cough and gag reflexes.
- Discusses findings with consumer and staff.
- Orders blood work, diagnostic studies, or consultation with other health professionals as indicated



### Diagnostic Tools

- Speech Therapy Evaluation
- Tableside Feeding Evaluation
- A Videofluoroscopic Swallow Study (modified and foods as the individual swallows a variety of liquids taken to view the mouth, throat, and esophagus barium swallow) may be done. A video x-ray is
- Fiber optic Endoscopic Evaluation
- CT scan



### Diagnostic Tools

- by the barium. video capabilities views the esophagus highlighted Esophagram (Barium Swallow) - This x-ray with
- and esophagus the esophagus, and projects images of the pharynx Endoscopy – A flexible, narrow tube, is passed into
- be done if needed Esophageal manometry, pH probe, and biopsy can
- For further information on diagnosing Dysphagia.



# Methods of Treatment

- After an individual has received the diagnosis of done Dysphagia, there are many things that can be
- The PCP will determine a treatment plan that will therapy if indicated. include the type of diet the individual can eat, eating, and an order for continued speech precautions to be followed when the person is
- Speech Therapy sessions
- Vital Stim Therapy (if indicated)



### Vital Stim Therapy

It is a patented therapy process and treat dysphagia equipment system developed specifically to

It is approved by the Food and Drug Administration.

External stimulation is done to re-educate the muscles for pharyngeal contraction.

Done in conjunction with other swallowingrelated exercises

Additional Information- VitalStim Dysphagia reatment for Difficulty Systems



### Interventions

- Oral care
- Dietary Modifications
- and eating Assisting the individual with positioning
- Treatment sessions with a Speech Therapist
- Swallowing precautions



# Interventions - Oral Care

- mealtime. Ensure good oral care before and after
- Ensure that dentures, or partial plates, fit properly and are in good condition.



# Interventions - Dietary Modifications

- A Dysphagia diet is a diet of different textures of foods and liquids.
- It is used with people who have swallowing difficulty.
- It reduces the risk of food getting into the trachea which leads to the lungs.
- This diet makes it easier for the person to chew and move food around in their mouth.



#### Interventions – Dietary Modifications

- Chopped Foot God HAD HEAD bieces but maintains some of the original texture
- a slightly coarse texture and contains lumps Ground - Food is put in a food processor and has
- Pureed - Food is put through a blender or food chewing. processor until perfectly smooth, requiring no



#### Interventions – Dietary Modifications

- Thickened Liquide from the property cial thickeners or cornstarch) can be added to liquids that are "thin".
- Consistency of liquids needs to be specified.
- Nectar
- Honey
- Pudding
- Dysphagia Diet tite page For more information on commercial products related to the Dysphagia diet, see hyperlink:



### Interventions - Assisting the Person with Positioning and Eating

- Position at 90 degree angle, or as upright as possible.
- Do not eat while lying down or leaning back.
- Avoid tilting head back.
- Tilt head/chin slightly forward (45 degrees).
- Eliminate distractions.



### Interventions- Assisting the Person with Positioning and Eating (continued)

- Allow enough time for meals.
- Follow prescribed diet.
- Offer small amounts (1/2 to 1 teaspoon at a time).
- Feed each spoonful slowly.
- Sit next to the individual and make sure you are within their visual field.



### Interventions - Assisting the Person with Positioning and Eating (continued)

- spoonfuls and sips (at least 10 seconds). Let the individual catch their breath between
- promote digestion and prevent reflux. least 30 minutes following their meal to Encourage the person to stay upright for at



# Interventions - Speech Therapy

- in some cases The Speech Therapist will work with the individual
- The focus will be on strengthening the muscles the consumer is safe when eating. involved in swallowing, and working to insure that
- In some cases, the Speech Therapist will assign the individual see improvement. visits. Doing these exercises as instructed will help exercises for the individual to do between therapy



# Safety When Swallowing

- safe eating practices Be sure to follow your agency's policy regarding
- One-to-one staff supervision may be indicated

- doctor. Record symptoms of swallowing difficulty to the
- Always follow the prescribed Dysphagia diet.

All staff need to be educated on the safe swallowing procedures that are in place.



#### References

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