# The Normal Swallow



There are processes that enable us to swallow safely.

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Disruption to any of the following may result in a swallowing difficulty, referred to as

# dysphagia. Hunger

This is the brain receiving messages, which can be caused by:

- An empty stomach
- The smell of food

This sensation causes saliva to be made, which helps prepare food for swallowing.

## Chewing

When food enters the mouth, it is chewed to break it up and form a ball of food (bolus). It is helped by:

- A good lip seal
- Good cheek muscle tone
- Well-functioning teeth
- Well-functioning tongue

#### Initiation of the Swallow

When the food has been sufficiently chewed, the tongue pushes the food to the back of the mouth.

When the food reaches the throat area, a swallow is initiated. Once this occurs, the process cannot be stopped as it is a reflex.

#### **Throat Elevation**

When the swallow reflex occurs:

- The soft palate lifts up to ensure no food enters the nasal cavity (back of the nose)
- The throat elevates and tilts forwards
- Breathing stops momentarily.

### **Airway Closure**

When the throat elevates and tilts forwards:

- A flap of cartilage known as the epiglottis moves to cover the airway and prevent food 'going down the wrong way'
- The food pipe (oesophagus) opens

#### Rest

The food has now moved into the food pipe (oesophagus). Then:

 The muscles of the throat go back to a resting state
 If something stimulates this area at this stage, a cough reflex usually occurs.

The sequence of a swallow happens in less than a second and requires many nerves and muscles working together with precision to perform the complex task of swallowing.