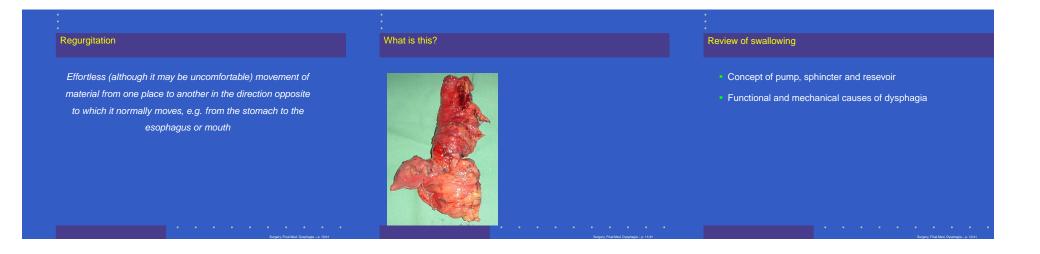
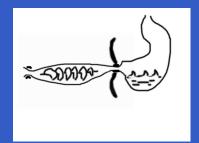
	Dysphagia	Why is dysphagia important?
Surgery Surgical aspects of dysphagia 	 Why important Definitons Swallowing Disorders of first phase Investigations Disorders of second Particular problems phase History 	Unlike may symptoms that the patient complains of. Dysphagia belongs a small subgroup where there is most often a significant underlying problem. We take simple pleasures like swallowing for granted untill we have problems.
Bargery Find Med. Organage. p. 141	Examination Beging Find Mich Digitings - p. 241	• • • • • • • • • • • • • • • • • • •



ysphagia	Odynophagia	Vomiting
Difficulty swallowing - the sensation that there is a hold up or delay in the normal physiologal process	Painful swallowing - an uncomfortable or painful sensation that accompanies swallowing	Reflex action where material in the stomach is moved backwards through the esophagus and mouth, it is accompanied by muscular contractions of the stomach and relaxation of the lower and upper esophageal sphincters



Pump, sphincter and resevoir



Concept of pump, sphincter and resevoir

There are two main functional units that are responsible for swallowing. Each consists of a pump, a sphincter and a

resevoir.		
	Upper	Lower
Pump	Muscles of mouth and pharynx	Muscles of esophagus
Sphincter	U.E.S.	L.E.S.
Resevoir	Esophagus	Stomach

First functional unit

- Movement of bolus from mouth to esophagus
- Swallowing center
- Movement of bolus into pharynx
- Elevation of larynx (c.f. tracheostomy)
- Opening of UES
- Reception of bolus into esophagus

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Second functional unit

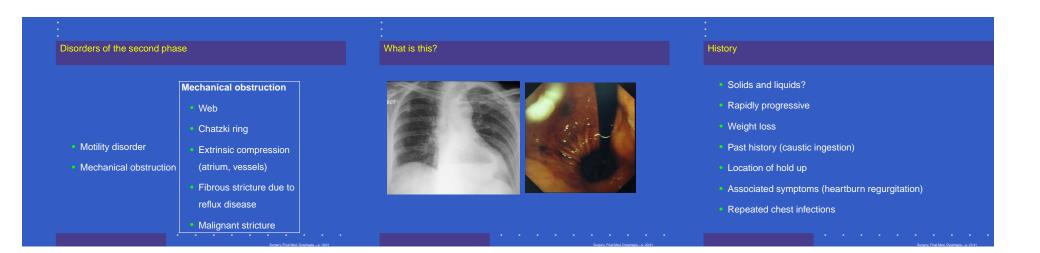
- Movement of bolus from esophagus to stomach
- Swallowing center
- Esophageal peristalsis
- Relaxation of LES
- Reception of bolus into stomach

Functional and Mechanical causes of dysphagia

Functional	Mechanical	
- disorder of function with-	- disorder due to mechani-	
out mass lesion	cal obstruction	
Weak esophageal	 Bolus obstruction 	
peristalsis	 Stricture 	
Motility disorder	 Hiatal hernia 	

Disorders of the first phase

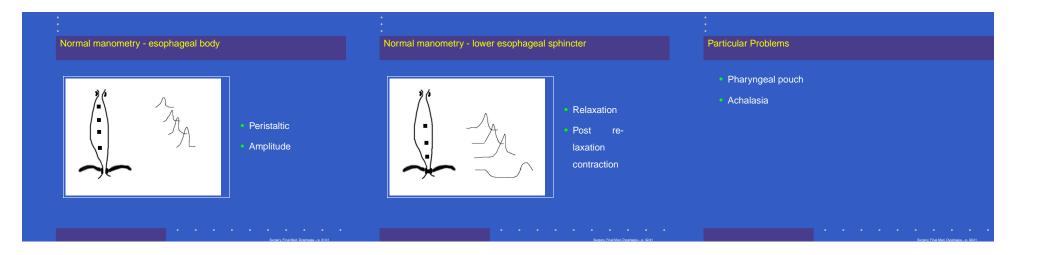
	Brain and brainstem
Problem with nerve	 Infiltratation of
supply	swallowing center
Weak muscles	 Stroke ischaemic,
Tethering of larynx	haemmorhagic
Discoordination	 Multiple sclerosis
Pulsion diverticulum	 Motor neurone disease
	Cranial nerve palsy

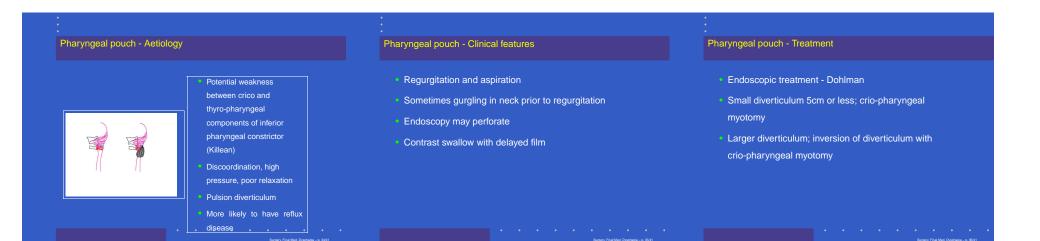


amination	What is this?	Investigations
 General appearance Hands, koilonychia, clubbing Glossitis, angular stomatitis Hoarsness Virchow's node, other nodes Fullness in side of neck Signs of consolidation 	 Savary grading I, II, III, IV Cause Treatment 	 Blood tests Contrast swallow Upper gastrointestinal endoscopy and biopsy Esophageal manometry 24 hour pH metry Radiological staging









Achalasia

- 'Without relaxation'
- Cause unknown
- Similar to esophageal manifestations of Chaga's disease
- Experimental model shows body abnormality may be caused by iatrogenic poor relaxation
- Weight loss, social isolation
- Many present with pain suggestive of reflux disease

Achalasia - Diagnosis

Beware of malignant infiltration of the gastro-esophageal junction causing pseudo-achalasia Endoscopy - stagnation and saliva, mega-oesophagus, stasis esophagitis, scope slips through into stomach Contrast swallow - Birds beak appearance, height of column of contrast indicates severity of hold up

Manometry is gold standard

Achalasia - Manometry



Failure of relaxation of lower esophageal sphincter Isobaric simultaneous pressure waves in esophageal body

Achalasia - Treatment • Confirm diagnosis • Botox injection into LES • Pneumatic dilatation • Heller's myotomy Questions please Questions please