

Anatomy of the stomach and duodenum (Gross Anatomy):

- Surface anatomy
- Anatomical parts
- Peritoneal coverage
- Arterial supply
- Venous drainage
- Nerve supply
- Lymphatic drainage

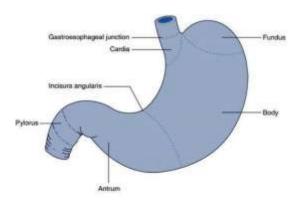
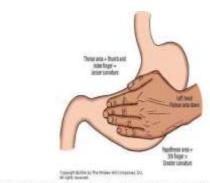
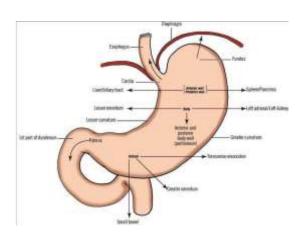
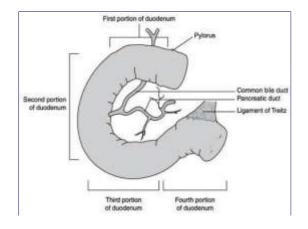


Figure 3-1 - Anatomy of the stomach.

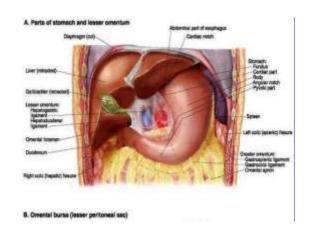


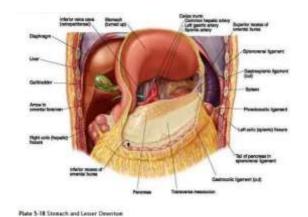
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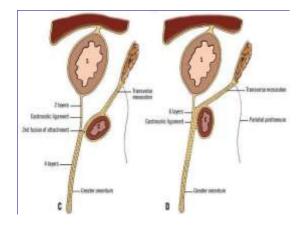


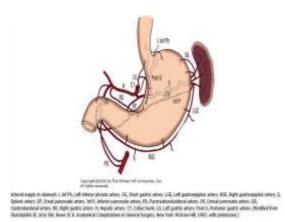


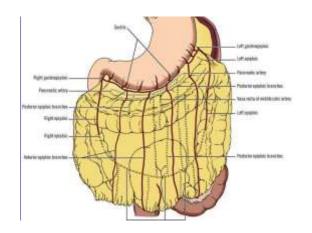


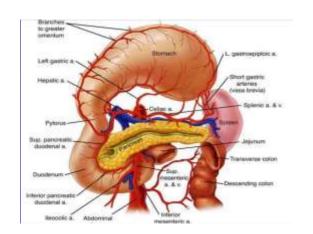


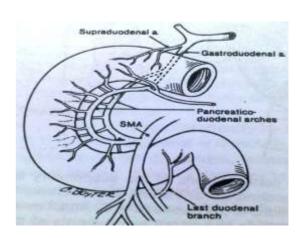


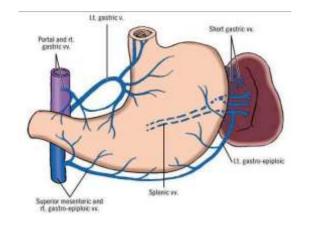


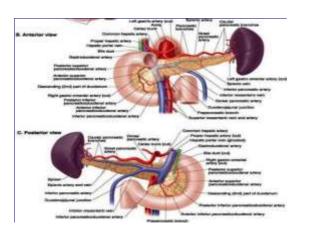


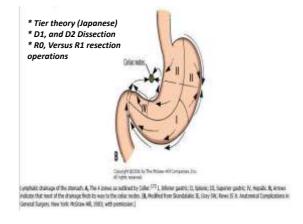


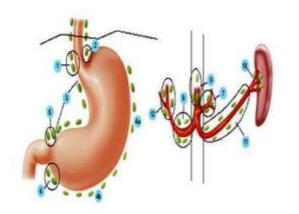


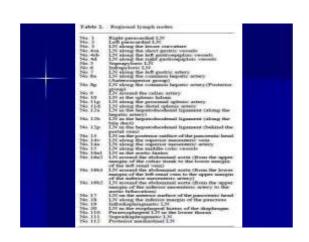


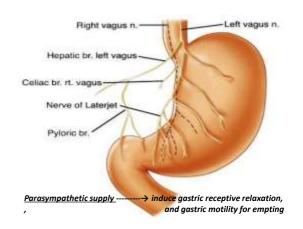


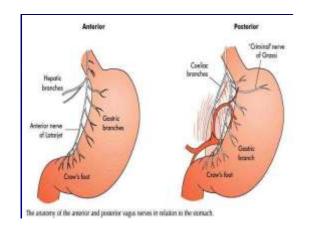


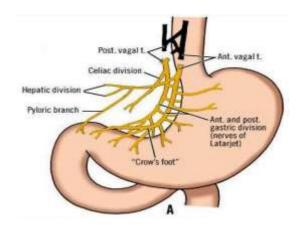


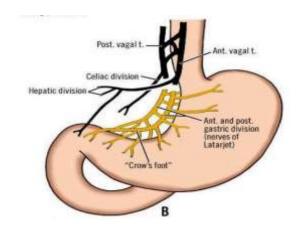


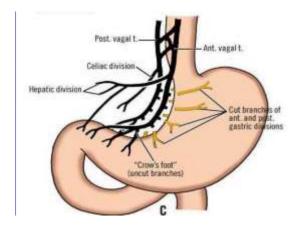






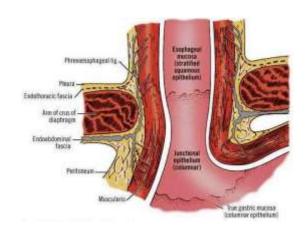


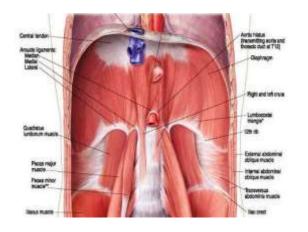


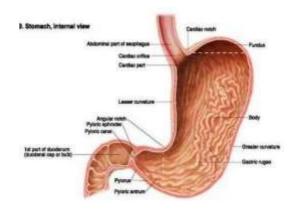


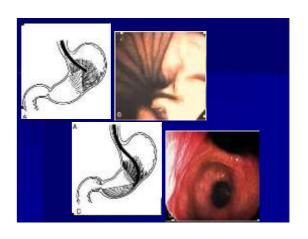
Macroscopic and microscopic anatomy of the gastric and duodenal wall:

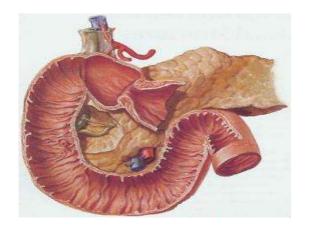
- Mucosa, and its landmarks
- Musculosa and its layers
- Serosa, and bare area

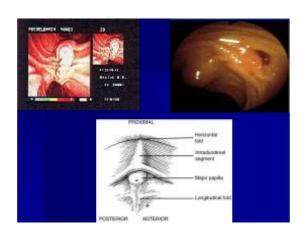










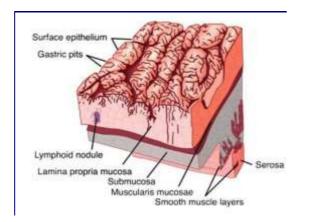


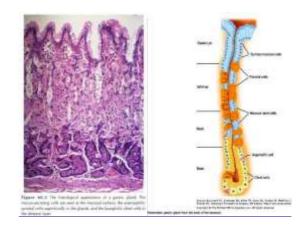
Physiology of the stomach and duodenum:

- Functions of the organs
- Normal secretions
- Motility of the stomach and duodenum
- Humeral and hormonal control of secretions and motility
- PH control, and defense mechanisms

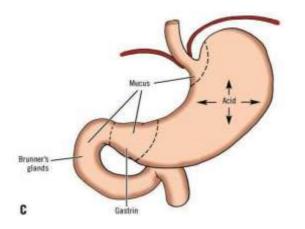
Function of the stomach:

- 1- Grinding and mixing of food into homogenous chyme
- 2- Food reservoir that allowed controlled slow passage of chyme into duodenum
- 3- Early stages of protein digestion by pepsin
- 4- Secretion of H CL which: activates proteolytic enzyme pepsin, and kills bacteria in swallowed food
- 5- Secretion of intrinsic factor which is essential for absorption of Vit. B 12





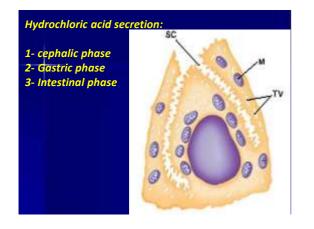
	Cells	Secretory Products
Exocrine	Mucous	Munus
	Oxyntic	Acid
	Chief	Pepsin
Endocrine	G	Gastrin
	D	Stomatostatin
	A*	Glucagon
	EC	Serotonin plus various peptides
	ECL	Unknown
	p	Unknown
	X	Unknown



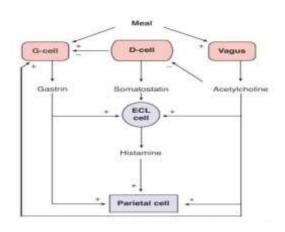
Gastric glands:

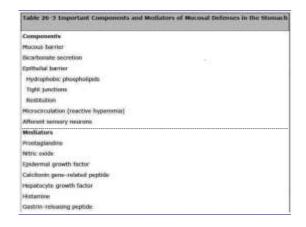
- *- In proximal ¾ (parietal cell area) the glands contains oxyntic (parietal)cells that secrete H CL and intrinsic factor, chief cells that secrete pepsinogen, mucous cells that secrete mucous, and argentaffin cells that secrete mediators
- *- In distal ¼ (antral area) the parietal and chief cells are absent, G cells that secrete gastrin are abundant in this area (part of APUD system of endocrine cells)

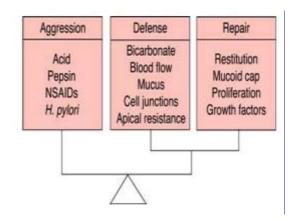
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Drug	Mechanism	
Metoclopramide	Dopamine antagonis	
Domperidone	Dopamine antagonis	
Erythromycin	Motilin agonist	
Bethanecol	Cholinergic agonist	
Neostigmine	Cholinergic agonist	









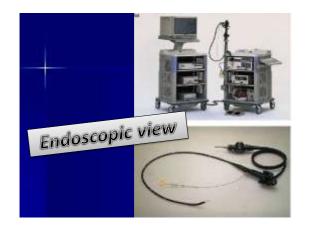




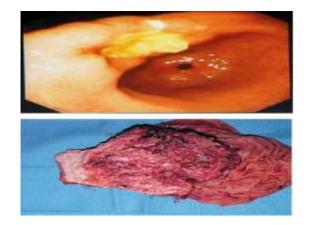


Figure 60.14 Benign incisural gastric ulcer shown at gastroscopy













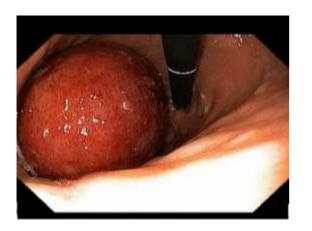




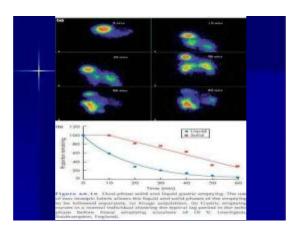
Figure 60.7 Endoscopic ultrasound of the stomach. Five layers can be identified in the normal stomach. A gastric cancer is shown invading the muscle of the gastric wall [courtesy of KeyMed (Medical and Industrial Equipment) Ltd].



Figure 60.8 A computerised tomography scan of the abdomen showing a gastric cancer arising in the body of the stomach.



Figure 40.33 Computatived tomography (CT) of the upper abdomen showing a 3.5 cm gastroinnestinal stronal tumout (GIST) arising from the gastric wall.





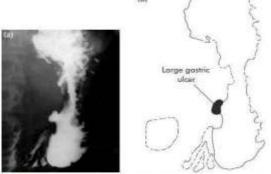
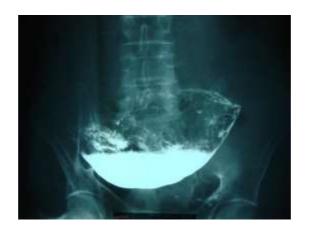


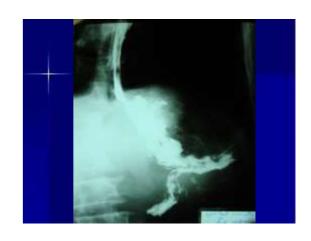
Figure 60.15 Benign gastric ulcor shown by barium meal. (a) Radiograph, (b) Diagrammatic outline.

















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Figure 60.24 Gastric gastrointestinal stromal tumour with ulceration.



