

Surgery of the stomach and duodenum:

- *- Congenital hypertrophic pyloric stenosis
- *- Acute gastric dilatation
- *- Peptic ulcer disease (acute erosions chronic peptic ulcer)
- *- Gastric volvulus
- *- Bezoars
- *- Gastric neoplasms
- *- Gastrectomy, and its complications
- *- Gastrostomy
- *- Gastric role in bariatric surgery

Peptic ulcer disease

Nature

Sites of peptic ulcer disease

Types:

- *- Gastric erosions (erosive gastritis)
- *- Stress ulcers e.g. ICU patients, trauma patients, intracranial trauma or operations (Cushing ulcer), burned patients (Curling ulcer)

Clinical presentations

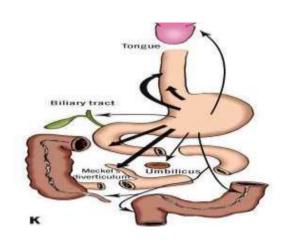
Diagnosis .

Treatment:

Medical treatment

Endosc. treatment (injections, Laser, or thermal ttt)

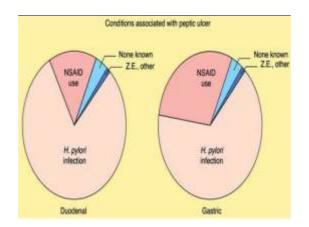
Surgical treatment Gastrectomy ??



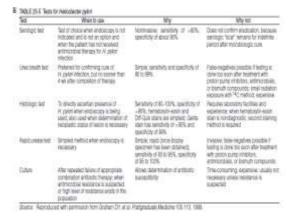
*- Chronic peptic ulcer

<u>Etiology</u>: Increased gastric acidity is the main association, multifactorial by

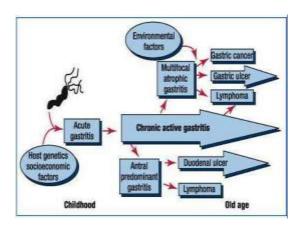
- * Genetic predisposition (large parietal cell mass)
- * Increased vagal tone mainly by night may be by worry or stress
- * Abnormality in gastrin release and inhibition
- * Helicobacter pylori causing gastritis, duodenal ulcer and sometimes MALT lymphoma.
- * Hypergastrinaemia by pancreatic gastrinoma (Zollinger Ellison syndrome)
- * Spicy meals, drinks, smoking, alcohol, drugs,











Incidence:

Decreasing incidence of ulcer disease with increased GE reflux and gastritis

More common in males (5:1), age is around middle age (??)

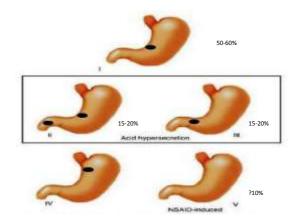
DU: GU = 25:1

Pathology:

Site gastric, duodenal (Kissing ulcers)
Size Single or multiple

Shape Edge Floor

Base



Clinical presentation:

- *- Pain (post prandial, localized, deep, severe, increased by codiments, wores by night)
- *- Nausea and vomiting
- *- Periodicity (periods of activity followed by period of quiescence),loss of periodicity signats complications, penetration, or spastic pyloric stenosis
- *- Complications as bleeding (hematemesis, or melena, hematochasia??), penetration (pancreatitis), perforation (peritonitis), or pyloric obstruction.

Investigations

- *- Endoscopy (diagnosis, Biopsy)
- *- Barium meal
- *- CT scan, Multislice CT scan
- *- MRI scan, Scientigraphy scan
- *- Laboratory investigations

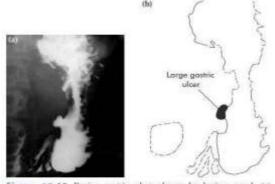
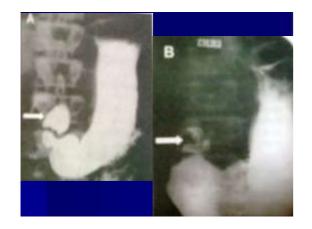


Figure 60.15 Benign gastric ulcor shown by barium meal. (a) Radiograph. (b) Diagrammatic outline.





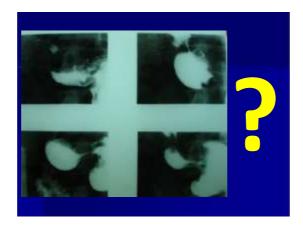
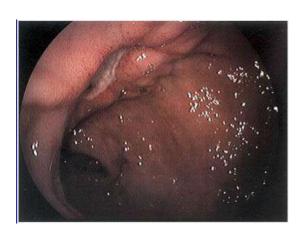


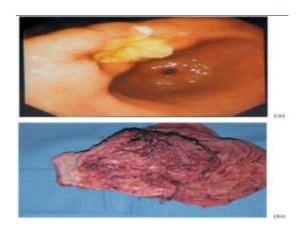


Figure 60.12 Duodenal ulcer at gastroduodenoscopy (coursesy of Dr.G.N.J. Tytgal, Amsterdam, The Netherlands).

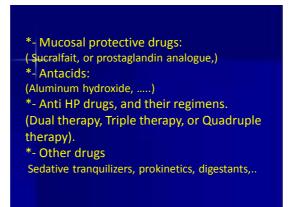


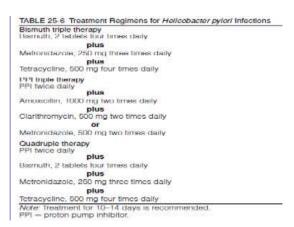
Figure 60.14 Benign incisural gastric ulcor shown at gastroscopy

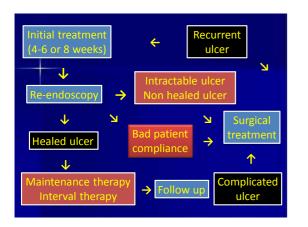














II- Surgical treatment

Gastric ulcer:

Mainly caused by local defect in mucosal barrier, or local insult, so the treatment is by gastrectomy (remove the ulcer or the bearing area, and ensure gastric emptying).

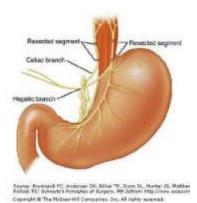
Duodenal ulcer:

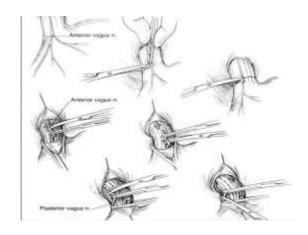
Mainly caused by hypersecretion either due to increased vagal tone (treated by <u>vagotomy ± drainage procedure</u>), increased gastrin level (treated by <u>anterectomy</u>), or large parietal cell mass (treated by <u>gastrectomy</u>).

Vagotomy: abolishing entirely the

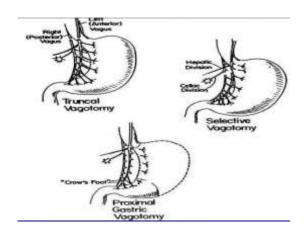
pathway of gastric secretion with immediate reduction of HCL secretion in 80 %, with time it decreased to 50 %.

- *- Truncal vagotomy + drainage procedure
- *- Selective vagotomy + drainage procedure
- *- Highly selective vagotomy (parietal cell vagotomy) (proximal gastric vagotomy)
- *- lesser curve seromyotomy (+posterior truncal vagotomy) (Taylor operation)





Truncal vagotomy,





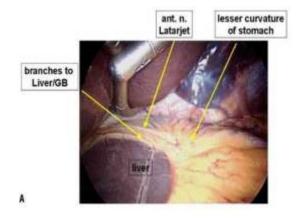


Fig. 15.4 Laparoscopic view of angularis (+) of lesser curve of stomach

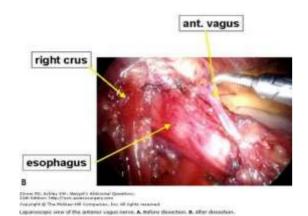
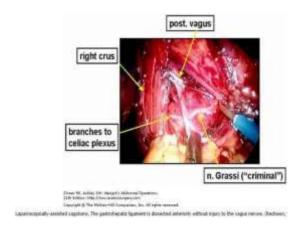
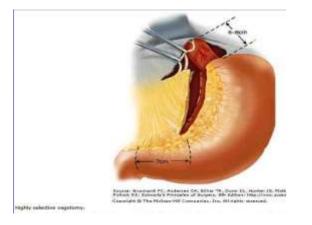


Fig. 15.6 Laparoscopic view of the anterior (*) and posterior vagus trunks (+)

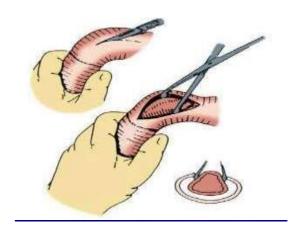


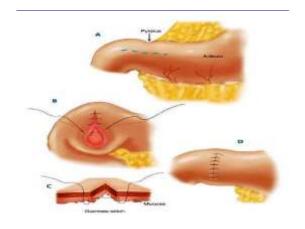


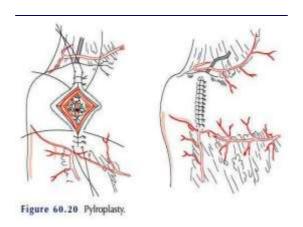


Drainage procedures:

- *- Pyloomyotomy (Rammstedt)
- *-Heineke-Mikulicz pyloroplasty
- *- Finney pyloroplasty
- *- Jaboulay pyloroplasty
- *- Antrectomy + reconstruction (Billroth I, Billroth II, Polya, or others)
- *- Gastrojejunostomy (loop with or without enteroenterostomy, antecolic or retrocolic, isoprestaltic or antiprestaltic, short afferent or ultrashort afferent limb, Roux-en-Y loop.

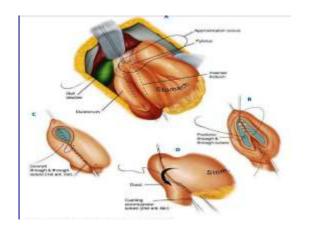


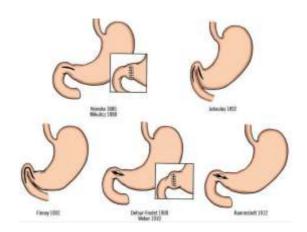


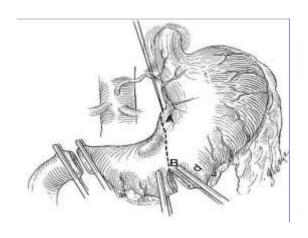


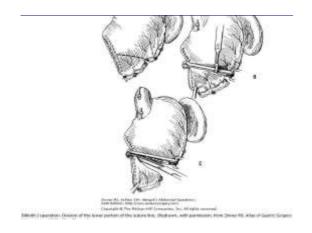


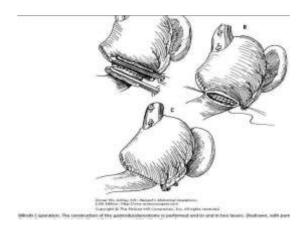


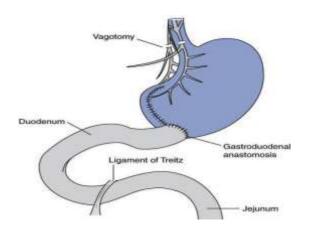


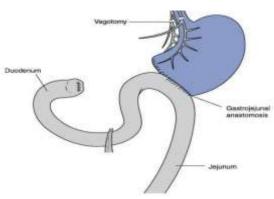




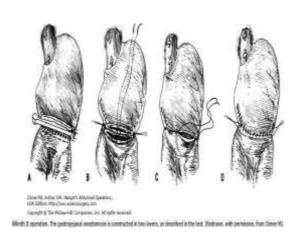


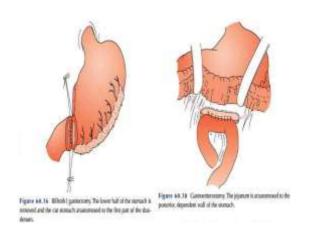












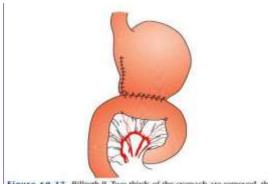
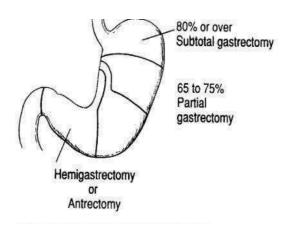
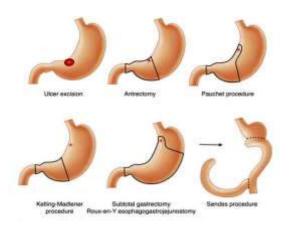
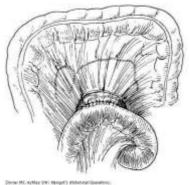


Figure 68,17 Billroth II. Two-thirds of the stomach are removed, the duodenal stump is closed and the stomach is anastomosed to the jejunum.







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