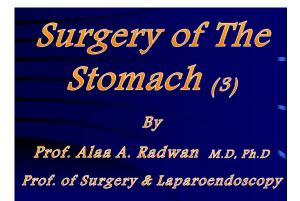
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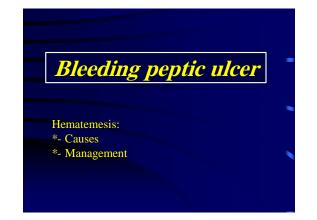


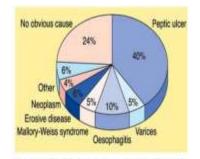




Complications of peptic ulcer

Acute complications:
(1) Bleeding
(2) Perforation
Chronic complications:
(1) Contracture causing pyloric stenosis, or hour glass stomach.
(2) Penetration
(3) Malignant transformation





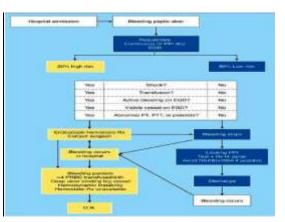
Source: Brunicardi PC, Andersen DK, Billian TR, Dunn DL, Hurter XB, Ma Pollock RE: Echnantz's Aninciples of Surgery. 9th Edition: http://www.acci Copyright & The McSraer Hill Companies, Inc. All rights reserved.

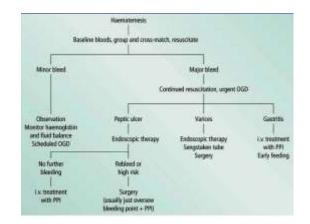
Causes of upper GI bleeding.

Prof. Alaa Ahmad Redwan

Table 60.4 Causes of upper gastrointestinal bleeding

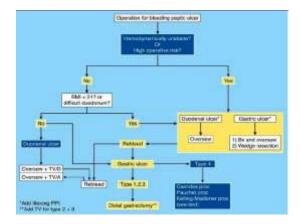
| Condition | Incidence (%) |
|--|---------------|
| Ulcers | 60 |
| Oesophageal | 6 |
| Gastric | 21 |
| Duodenal | 33 |
| Erosions | 26 |
| Oesophageal | 13 |
| Gastric | 9 4 |
| Duodenal | 4 |
| Mallory-Weiss tear | 4 |
| Oesophageal varices | 4 |
| Tumour | 0.5 |
| Vascular lesions, e.g. Dieulafoy's disease | 0.5 |
| Others | 5 |













linical features

- These are usually described in 3 stages.
- Stage of chemical peritonitis 1.
 - . At the time of perforation the patient experiences sudden severe pain starting i the epigastrium, and later becomes generalized.
 - . The patient often collapses especially with a large perforation.
 - . There is tachycardia, but the tomperature is often subnormal.
 - · Abdominal examination reveals board-like rigidity,and tendemess mainly in th epigastric region. Sometimes there is tendemoss in the right like fossa while may be missiagnosed as acute appendicitis. Percussion reveals attenuated liv duliness and puscultation reveals a silent abdomen.
- 2. Stage of illusion The peritoneum reacts to chemical peritonitis by secreting copio amounts of fluid, and thus lessening the chemical irritation. The patient feels bet with less pain and less rigidity.
- 3. Stage of bacterial peritonitis Secondary infection of the peritoneal cavity lends septic peritonitis. Pain increases and there is rising temperature and lachycarc Abdominal examination reveals generalized tendemess, rigidity and progress abdominal distension.

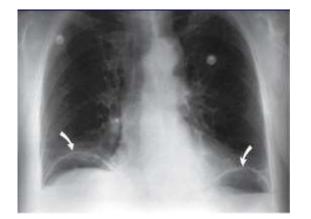
the contents of an acid-producing asseach are relatively law to batterial load, bacterial perioritis superverses over a lew hours, usually accompanied by a deterioration in the patient's condition.



Figure 44.22 A skets of We Hamilton Balles warding for abdemind reserver in replation in the case of a classically preventing. Figure 44.23 Plan alshemid todograph of a perhoted alon. perioated alore, the abdominal management is restricted or absent.



showing air ander the dispinages.



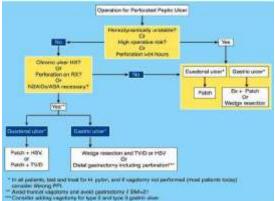




Fig. 15.1 Anterior duodenni alcer perforation (+)

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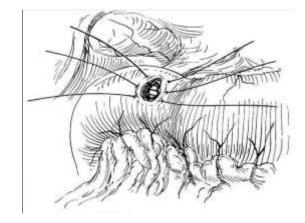
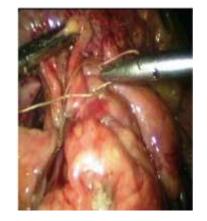


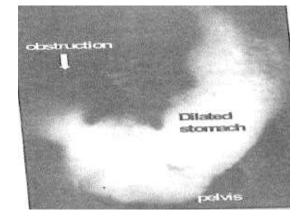
Fig. 15.2 Laparoscopic Graham patch completed

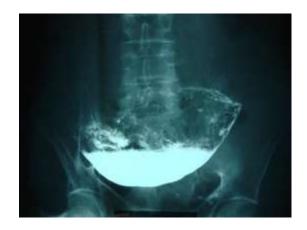




Pyloric obstruction Hourglass stomach

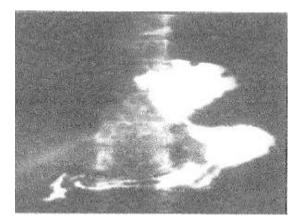












| Indication | Procedure | |
|------------------|--|--|
| Acute gastritis | Vagotomy and pyloroplasty with oversewing of erosions or near-total gastrectom | |
| Gastric ulter | Subtotal gastrectomy with older excision | |
| Cuodenal ulcer | | |
| Intractable pain | Panietal cell vagotomy | |
| Perforation | Simple closure or closure and parietal cell vagotomy | |
| Bleeding | Vagotomy and antrectomy with subure ligation of bleeding vessel or | |
| | Vagotomy and pyloroplasty with suture ligation | |
| Obstruction | Vagotomy and antrectomy | |

| - | Parietal cell vagotomy | Truncal vagotomy and pyloroplasty | Truncal vagotomy and antrectomy |
|-------------------------------|------------------------------|---|---------------------------------------|
| Operative mortality rate (%) | 0 | <1 | 1 |
| Ulicer recurrence rate (%) | 5-15 | 5-15 | < 2 |
| Dumping (%) | | | |
| Mild | < 5 | 10 | 10-15 |
| Severe | 0 | 1 | 1-2 |
| Diamhea (%) | | | |
| Mild | < 5 | 25 | 20 |
| Severe | 0 | 2 | 1-2 |

Source: Modified with permission from Mulholland MW, Debas HT: Chronic duodenal and gastric ulcer. Surg Clin North Am 67:489, 1987.

| Table 26-13 Differential Diagnosis of Intractability or Nonbealing Peptic Ulcer Disease | | |
|---|---|--|
| Cancer | _ | |
| Gastric | | |
| Parcreatic | | |
| Duodenal | | |
| Persistent Helicobacter pylori infection | | |
| Tests may be false-negative | | |
| Consider empiric treatment | | |
| Noncompliant patient | | |
| Failure to take prescribed medication | | |
| Sumptitious use of NSAIDs | | |
| Motility disorder | | |
| Zollinger-Ellison syndrome | | |

TABLE 25-10 Differential Diagnosis of Hypergastrinemia

With excessive gastric acid formation (ulcerogenic) Zollinger-Ellison syndrome Gastric outlet obstruction Retained gastric antrum (after Billroth II reconstruction) G-cell hyperplasia Without excessive gastric acid formation (nonulcerogenic) Pernicious anemia Atrophic gastritis Renal failure Postvagotomy Short gut syndrome (after significant intestinal resection)

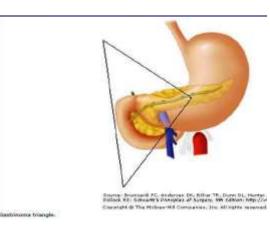


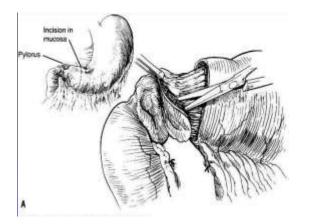
Table 26.2 Sequelae of gastric surgery.

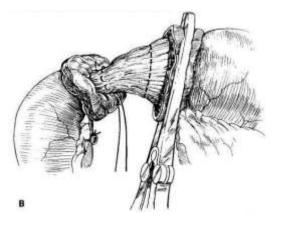
Recurrence of the disease: recurrent ulcer, recurrence of gastric carcinoma Nutritional consequences: weight loss, iron-deficiency anaemia, B₁₂ deficiency Milk intolerance Bone disease Dumping symptoms Reactive hypoglycaemia Bile vomiting Diarrhoea Small stomach syndrome Mechanical complications: afferent/efferent loop obstruction, jejunogastric intussusception, gastro-oesophageal reflux Others: bezoar formation, gastric carcinoma

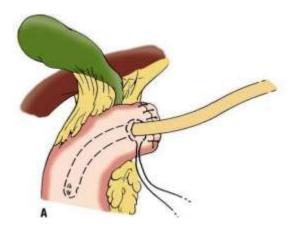
Post-gastrectomy complications

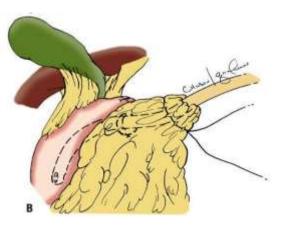
I- Early complications:

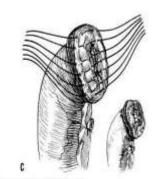
- *- Bleeding
- *- Stomal obstruction
- *- Duodenal blow-out
- *- Post op. pancreatitis



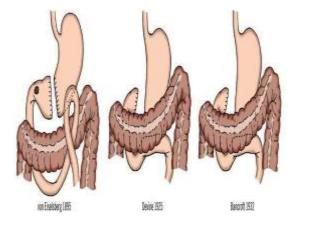








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II- Late complications:

- *- Recurrent ulceration
- *- Dumping syndromes (early and late)
- *- Biliary gastritis (alkaline reflux gastritis)
- *- Afferent loop syndrome
- *- Post vagotomy diarrhea
- *- Gastro-jejuno-colic fistula
- *- Post gastrectomy nutritional disturbances
- *- Gastric carcinoma in the remnant
- *- Other complications as adhesions, internal herniation,

Recurrent ulceration:

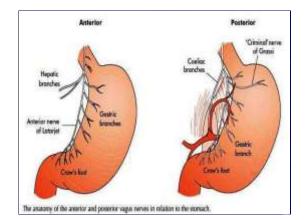
Causes

- Clinical presentation
- Diagnosis

Treatment:

Sometimes controlled by medications, but surgery somewhat unavoidable

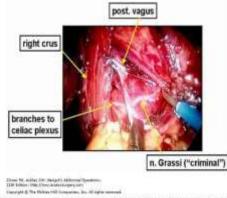
- *- Completeness of vagotomy
- *- Antrectomy or gastrectomy after vagotomy
- *- Vagotomy after gastrectomy



Post gastrectomy dumping syndrome

Early dumping (within ¹/₂ hour after meals)

Late dumping (delayed 2-3 hours after meals



Laurenceptally-assisted capitany. The patrologials ligament is detected aslands) without injury to the sugar remove. Rectaury,

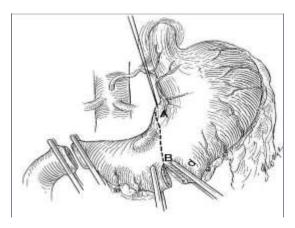
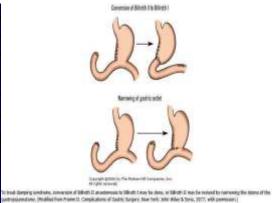
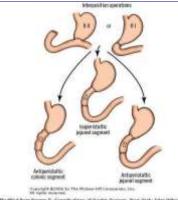


Table 26.3 Manifestations of dumping syndrome.

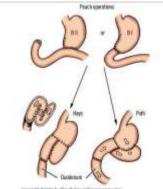
| Vasomotor (systemic) | |
|---------------------------------|--|
| Weakness | |
| Tiredness | |
| Dizziness | |
| Headache | |
| Fainting/wanting to lie down | |
| Warmth | |
| Palpitations | |
| Dysphoea | |
| Sweating | |
| Gastrointestinal | |
| Fullness | |
| Epigastric discomfort/heaviness | |
| Nausea | |
| Vomiting | |
| Distension | |
| Excessive borborygmi/distension | |
| Diarrhoea | |
| | |

| - | | |
|--------------------|---|------------------------|
| | lah | late |
| hólenz | 5-0% | 55 |
| Robalise to mark | Rines investate | Second hour after meal |
| Duction of stack | 39-40 min | 30-40 mi |
| Releved by | birg down | Food |
| Aggravated by | Nove load | Benixe |
| Pecipitalny lactor | Fool, especially catelog bas-rich and we | As for early damping |
| Najor siroptores | lajozet tultes, svaring ligt-kadeles, achozeta, colo, soneines dartusa | Teno, láines, postaíon |

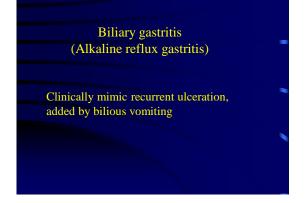


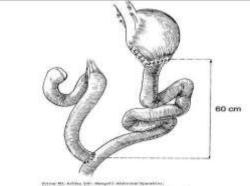


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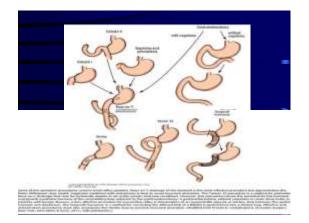


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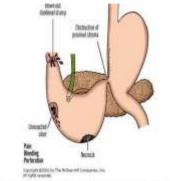


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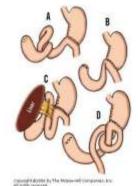




Clinical presentation Treatment

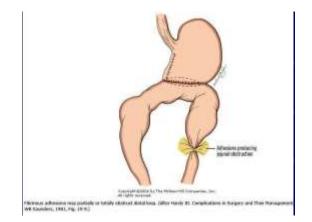


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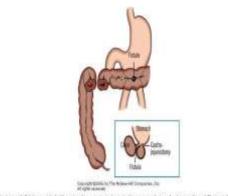


Fina detroites A biladas B tida 2 dia 4 pastanal. C. Afferdas, B. Schusterland

Some causes of afforent loop abstraction. A valvalue is when at site of availations, C, Adhesicos, B, Netwarastamotic hervia Exemplications of Sastric Surgers. New York: John Wiley & Sone, 1077; with generation.)



Postvagotomy diarrhea A tendency to loose stools most cases. Rarely in about 3% of cases, the diarrhoea is watery and explosive. The cause is obscure but may be related to bile acids being delivered too rapidly to the colon due to dysfunction of the ileo-caecal valve. The condition gets better as time goes on. Gastrojejunocolic fistula This is due to a recurrent ulcer following an operation in which a gastrojejunostomy was used. The ulcer will adhere and then penetrate into the colon resulting in a fistula between the stomach, the jejunum and the colon (Fig. 30.34). The symptoms of recurrent ulceration will be modified by the occurrence of severe diarrhoea, ill health, loss of weight, and anaemia. The diarrhoea is due to an enteritis caused by the entry of colonic contents into the jejunum. For its visualization a barium enema (and not meal) is needed. The treatment is surgical. Proximal diverting colostomy is performed at first, followed later by correction of the fistula.



A particlean work finitia president with a retrocold another on a province transmerse inductions has been performed. The rest shows the fittuda in proceased and the fitteen a Complication of Calabit Surgers, New York, John Weie & Sona, 1977; with permission.) Postgastrectomy nutritional disturbances. Weight loss, anaemia (iron deficiency or megaloblastic), steatorrhoea, vitamin B deficiency, calcium deficiency, early satiety, and an increased i

