Chronic Gastritis

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Definition

The chronic inflammation of gastric mucosa.

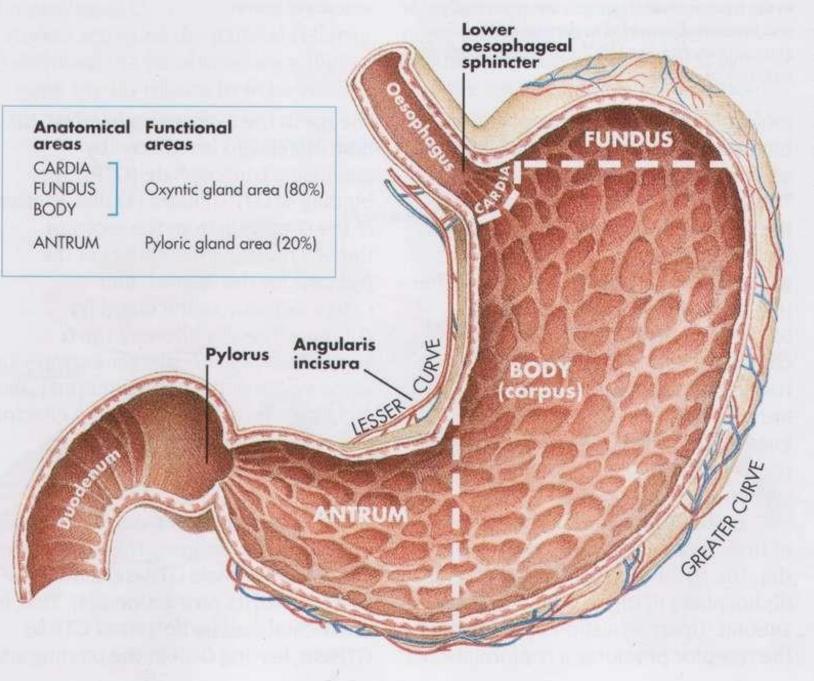
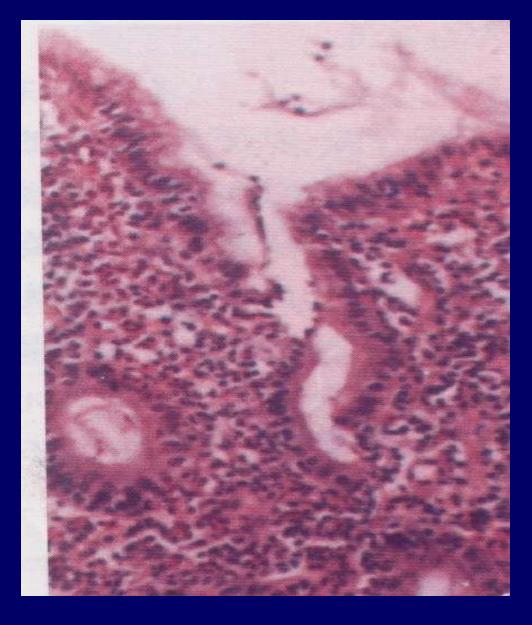


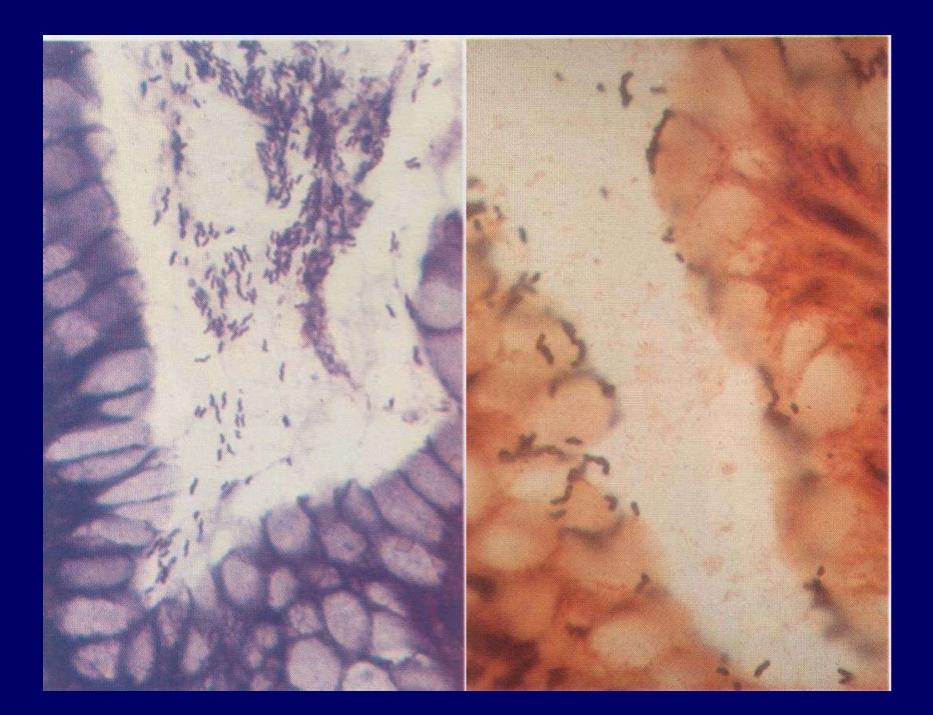
Fig. 3. Gross anatomical and functional areas of the stomach. Parietal cells are located in the oxyntic gland area, whereas gastrin cells are located in the pyloric gland area.

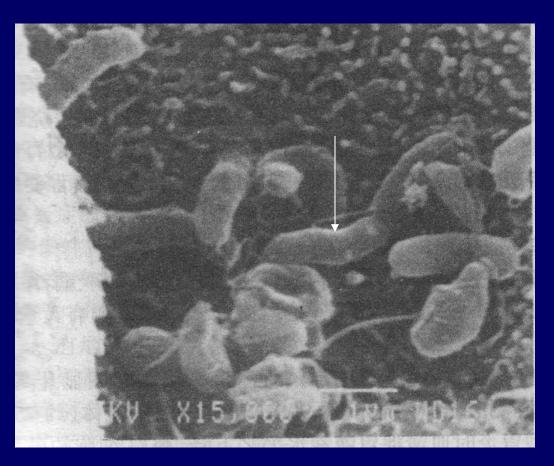


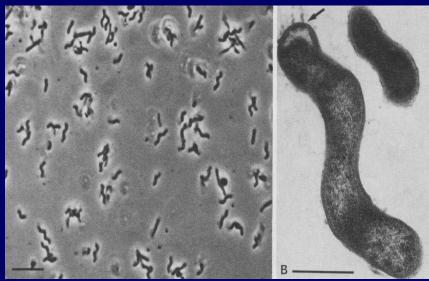
Chronic gastritis

Etiology

 Helicobacter pylori infection







Helicobacter pylori

Etiology

 auto-immunologic fator high positive rate (90%) of serum antiparietal cell antibody (APCA) animal model: gastritis induced by injecting APCA repeatedly high positive rate (75%) of serum anti-intrinsic factor antibody

Other factors

reflux of duodenal juice incompetence of pyloric sphincter post operate stomach alcohol heavy salty foods aging portal hypertension

Classification of chronic gastritis

 Chronic antral gastritis (Type B gastritis)

H. Pylori infection (90%)

NSAIDs

alcohol

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Classification of chronic gastritis

 Chronic corpus gastritis (Type A gastritis)

auto-immunologic factors

Chronic pangastritis

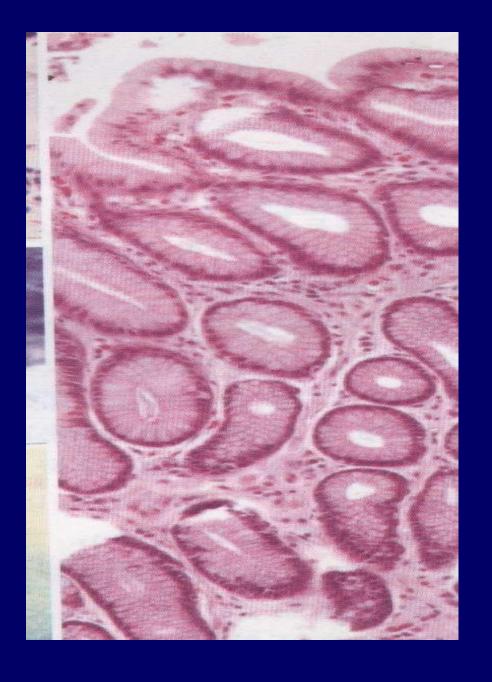
Histology

Chronic superficial gastritis

Chronic inflammation

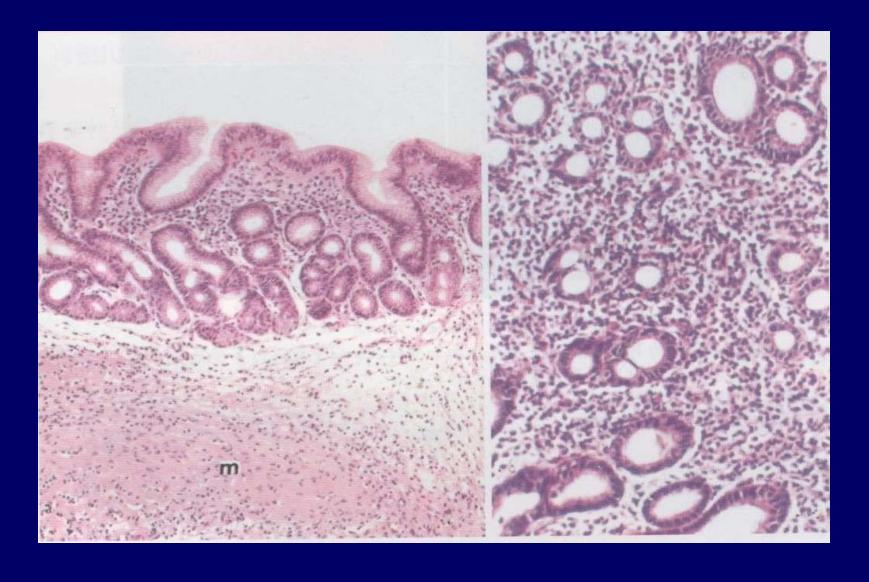
without

glandular atrophy



Chronic superficial gastritis

Chronic atrophic gastritis Chronic inflammation with glandular atrophy



Chronic atrophic gastritis

Chronic gastritis

Active stage:

with polymorhpy nuclear neutrophils infiltration

Quiescent stage:

without polymorhpy nuclear neutrophils

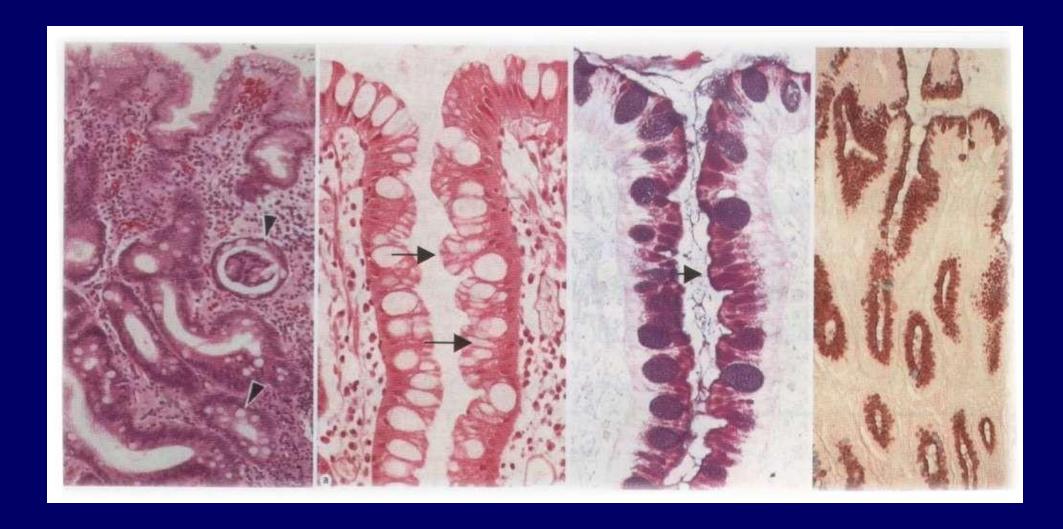
infiltration

Chronic gastritis

With

Metaplasia: intestinal

Psueodopyloric

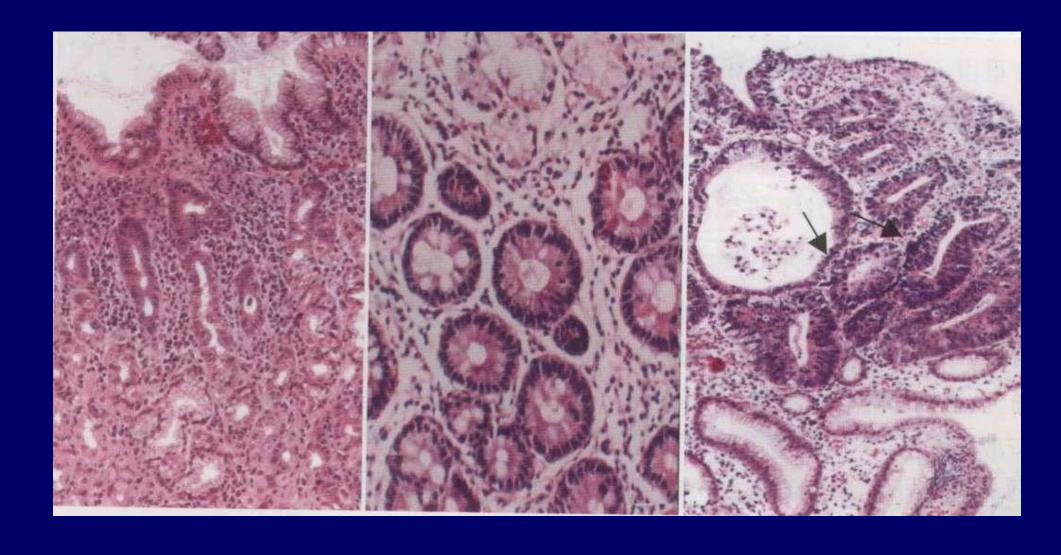


Intestinal metaplasia

chronic gastritis with

Dysplasia

mild,
moderate,
severe



Chronic gastritis with dysplasia

Clinical Manifestations

- Most of patients are asymptomatic
- Dyspepsia: upper abdominal pain or discomfort (bloating, belching, nausea vomiting)
- The symptoms are not specific
- No typical physical sign found

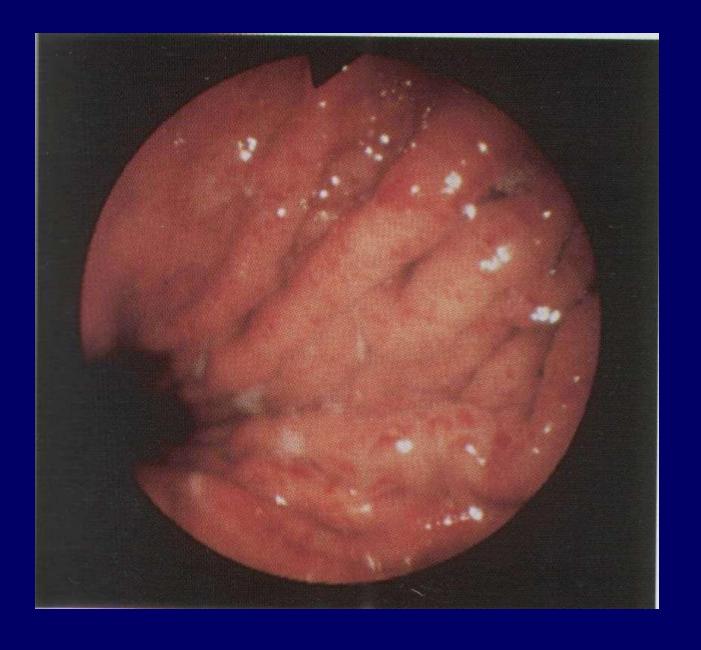
Laboratory and other examinations

- Endoscopy examination with mucosal biopsy
 - the most reliable method for diagnosis

Endoscopy examination

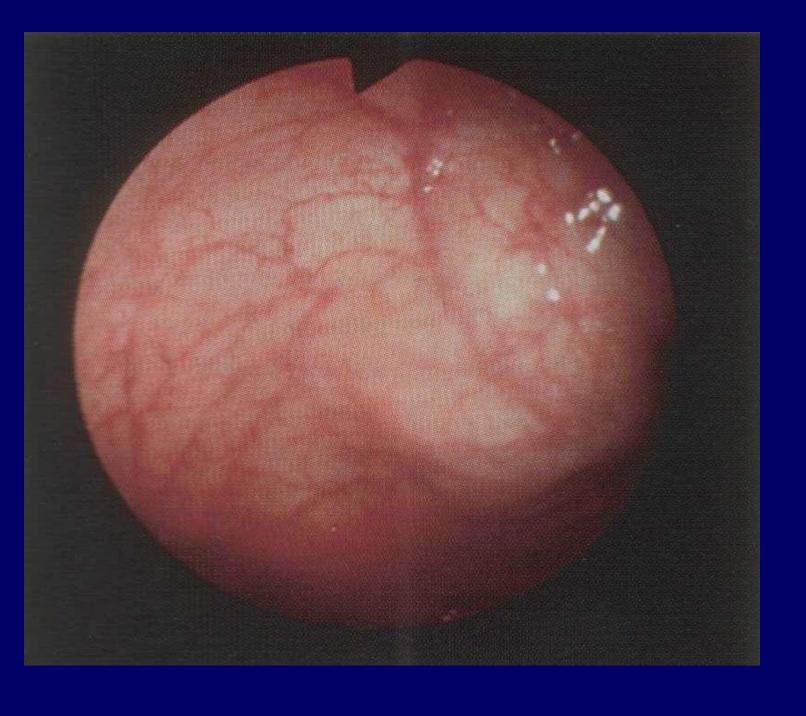
superficial gastritis

edema, erythema, exudate, erosion



Edema erythema

Atrophic gastritis grey, reduced mucosa folds, submucosal visible vessels



Visible vessels

Note

imperfect co-relations between endoscopic appearances and histological classification, the final diagnosis should be made by histological examination.

Detection of H.

pyloriease test

- Histology
- Microbiological culture
- Breath test: ¹³C-urea

¹⁴C-urea

Serology: IgG

Gastric acid secretion and serology tests Type A gastritis

- serum anti-parietal cell antibody: (+)
- serum anti-intrinsic factor antibody: (+)
- serum gastrin:
- basic and maximal (pengastrin stimulated) gastric acid secretion :

Type B gastritis

- usually in normal range of above tests
- gastrin and gastric acid secretion decreased when severe atrophy occurred

Type B Type A H.p. auto immunity Etiology **Environment factors** Topography corpus antrum BAO & MAO -- or ↓ ↑ gastrin 1 APCA + **Associated** pernicious anemia peptic ulcer disease

Treatment

- Exclusion of causative factors smoking, alcohol, NSAIDs, salty food
- Medication

relief of pain: antacid, H₂-RA, PPI prokinetic agents: to enhance gastric motility, promote gastric empty

Anti-microbiotic therapy

There are still some arguments

No a effective, low side-effect and low price medicine available

Eradication of Hp is not means improvement of symptoms

How should we do?

Eradication of H.p.

- When the patient's symptom is intractable
- When the patient from the high risk area of gastric cancer
- When the patient wishes to be treated

Surgery

Only in chronic gastrits with severe dysplasia, because of dysplasia is regarded as precancerous lesion and it is hard to distinguish severe dysplasia and early gastric cancer

Prognosis

Normal mucosa → CSG → CAG[?] → GC

There is a risk from atrophic gastritis
 (especially with moderate to severe
 dysplasia) developing to gastric cancer

Summary

- Chronic gastritis is a common disease
- Type A: auto immunity
 - Type B: H. Pylori infection
- Symptom : dyspepsia
- Diagnosis: endoscopy with histology
- Treatment: symptoms relief
- Prognosis