

Stomach (gastritis, ulcer, carcinoma)

وزراة التعليم العالي والبحث العلمي كلية المعارف الجامعة قسم المختبرات الطبية

Histopathology المرحلة الرابعة

Stomach (gastritis, ulcer, carcinoma)



Gastritis DEFINITION:

Gastritis is an inflammation of the gastric mucosa(protects your stomach from the acids, enzymes and microorganisms that pass through it every day) is classified as either acute or chronic.

• INCIDENCE:

The incidence of gastritis is highest in the fifth and sixth decades of life; men are more frequently affected than women. The incidence is greater in patient who are heavy drinkers and smokers.

ETIOLOGY AND RISK FACTORS:

- It usually stems from ingestion of a corrosive, erosive, or infectious substance.
- Aspirin and other non-steroidal anti-inflammatory drugs (NSAIDs), chemotherapeutic drugs, steroids, food poisoning (typically caused by Staphylococcus organisms) are common causes.
- Foods with a rough texture or those eaten at an extremely high temperature can also damage the stomach mucosa.

- The mucosal lining of the stomach normally protects it from the action of gastric acid. This mucosal barrier is composed of prostaglandins.
- Due to any cause
- This barrier is penetrated
- Hydrochloric acid comes into contact with the mucosa
 ↓
- Injury to small vessels
- Edema, hemorrhage, and possible ulcerformation

What are the different types of gastritis?

You can have acute gastritis or chronic gastritis.

- Acute gastritis is sudden and temporary .The conditions that cause it are also acute.
- Chronic gastritis is a long-term condition, though you may not notice it all the time (or at all). It tends to develop gradually, as a result of another chronic condition. Gastritis can also be erosive or nonerosive.



What is Acute Gastritis?

Acute gastritis is a medical condition

characterized by the sudden inflammation

of the stomach lining

Causes and risk factors:

Multiple causes of chronic gastritis include Helicobacter pylori infection, autoimmune disease in the

stomach, long-term usage of specific medications like nonsteroidal anti-inflammatory drugs (NSAIDs) and corticosteroids, chronic stress, alcohol abuse, and bile reflux. The risk factors of chronic gastritis are age, family history of gastritis, smoking, high salt or pickled food diet, and chronic stress.



Chronic gastritis

Chronic gastritis occurs in 3 different forms

1) Superficial gastritis.

2) Atrophic gastritis

3) Hypertrophic gastritis

Diagnosis Acute gastritis

- \Box taking a medical history.
- \Box physical examination.
- \Box diagnostic tests includ.
- endoscopy.
- blood test.
- stool test.
- breathing test.

RISK FACTORS





H. Pylori

Pathophysiology

1. Aggressive factor

NSAIDs; Aspirin

Corticosteroids

Alcohol abuse Cigarette smoking





The increasing acidity







Gastric ulcer 4. Some cells die due to个 digestive enzymes and **↓** defense in the stomach.



Stomach ulcer



Peptic ulcers

Peptic ulcers are open sores that develop in the lining of the stomach and upper part of the small intestine.The most

common symptom of peptic ulcer is stomach pain. Peptic ulcers include:

Peptic ulcers affect the inside of the stomach
 Duodenal ulcers affect the inner portion of the upper intestine



Symptoms

o Vomiting or vomiting blood that may appear red or black

o The presence of dark blood in the stool, or black or tarry stool

o difficulty breathing

o Feeling faint

o Nausea or vomiting

o Idiopathic weight loss

o Appetite change

Stomach Cancer



Benign Tumors

- Are not cancer
- Not life-threatening
- Can be removed and usually do not grow back
- Cells do not invade the tissues around them
- Cells do not spread to other parts of the body



Malignant Tumors

- Are cancer
- Generally more serious than benign tumors
- May be life-threatening
- Often can be removed but sometimes grow back
- Cells can invade and damage nearby tissues and organs
- Can spread (metastasize) to other parts of the body



Stomach Cancer

- Can affect nearby organs and lymph nodes
- Stomach tumor can grow through stomach's outer layer into nearby organs (such as the pancreas, esophagus or intestine)
- spread through the blood to the liver, lungs and other organs
- Can also spread through the lymphatic system to lymph nodes all over the body

Risk Factors

- Exact causes unknown
- Age most are age 72 or older
- Sex men most likely than women
- Race more common in Asian, Pacific Islander, Hispanic and African-Americans
- Diet diet high in foods that are smoked, salted or pickled
- Helicobacter pylori infection raises risk of stomach inflammation and stomach ulcers
- Smoking people who smoke more at risk
- Certain health problems: stomach surgery, chronic gastritis, pernicious anemia.
- Family history rare type of stomach cancer runs in some families



Stages of Stomach Cancer

- Stage 0 cancer found only in the inner layer of the stomach
- Stage 1 Tumor invaded only the submucosa cancer cells may be found in up to 6 lymph nodes



Stages of Stomach Cancer

• Stage II

• Tumor has invaded only the submucosa cancer cells

have spread to 7-15 lymph nodes

• Stage III

- Tumor has invaded the muscle layer or subserosa 7 15 lymph nodes
- Tumor has invaded nearby organs, such as the liver or spleen



- Stage IV
- Cancer cells have spread to more than 15 lymph nodes
- Tumor has invaded nearby organs and at least 1 lymph node
- Cancer cells have spread to distant organs
- Recurrent cancer

