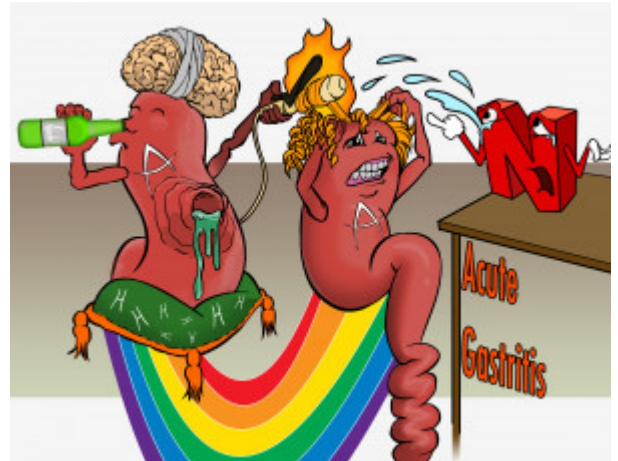


## Acute Gastritis

Acute gastritis is a general term that encompasses a broad spectrum of entities that induce inflammatory changes in the gastric mucosa. Acute gastritis is commonly described as an erosive gastritis with disruption of the gastric mucosal barrier. Common causes include stress, NSAID use, alcohol, uremia, burns, and brain injury. Acute gastritis can present with an array of symptoms including nondescript epigastric discomfort, nausea, vomiting, loss of appetite, belching, and bloating. The diagnosis can be confirmed histologically by biopsy specimens taken during endoscopy.



PLAY PICMONIC

### Erosive

#### Eroded

Acute gastritis is commonly described as an erosive gastritis with disruption of the gastric mucosal barrier while chronic gastritis is typically described as nonerosive.

### Disruption of Mucosal Barrier

#### Mucus Dripping Through Disrupted Mucosal Barrier

Acute gastritis is commonly described as an erosive gastritis with disruption of the gastric mucosal barrier caused by damage to mucosal defenses.

### Caused by Stress

#### Stressfully Pulling Out Hair

There are several proposed mechanisms of stress induced acute gastritis. It is thought that the mucous lining during periods of intense stress have decreased bicarbonate concentration and unable to buffer the harsh acidic content. Other mechanisms include decreased blood flow to the mucosa during stress, causing ischemia and destruction of the mucosal lining.

### NSAIDs (Non-Steroidal Anti-Inflammatory Drugs)

#### N-Sad

NSAIDs are the most common agents associated with acute erosive gastritis. These agents reduce prostaglandin secretion in the stomach, which play a role in the maintenance of the mucosal lining of the stomach. This mucosal lining is important as it protects the stomach from the harmful effects of gastric acid.

### Alcohol

#### Alcohol Bottle

Certain doses of alcohol can stimulate hydrochloric acid secretion causing erosion of the mucosal lining of the stomach.

### Uremia

#### U-rainbow

Uremia is characterized by azotemia or increased nitrogenous waste in the blood and the inability to concentrate urine indicating renal failure. Uremia can cause fibrinoid necrosis of the gastric vessels causing ischemic necrosis of the gastric mucosa.

## **Burns**

### **Burning Curling-iron**

Individuals with burns have significant loss of plasma volume, which leads to sloughing of the gastric mucosa. This specific mechanism is called a Curling ulcer.

## **Curling's Ulcer**

### **Curling-iron**

Individuals with burns have significant loss of plasma volume, which leads to sloughing of the gastric mucosa. This specific mechanism is called a Curling ulcer.

## **Brain Injury**

### **Brain**

In head trauma, increased intracranial pressure causes increased vagal stimulation. Vagal stimulation leads to increased gastric acid production in the stomach leading to erosive acute gastritis. This specific mechanism is called a Cushing ulcer.

## **Cushing Ulcer**

### **Cushion**

In head trauma, increased intracranial pressure causes increased vagal stimulation. Vagal stimulation leads to increased gastric acid production in the stomach leading to erosive acute gastritis. This specific mechanism is called a Cushing ulcer.

## **Increase H<sup>+</sup> Production**

### **H on Cushion**

In head trauma, increased intracranial pressure causes increased vagal stimulation. Vagal stimulation leads to increased gastric acid production in the stomach leading to erosive acute gastritis.