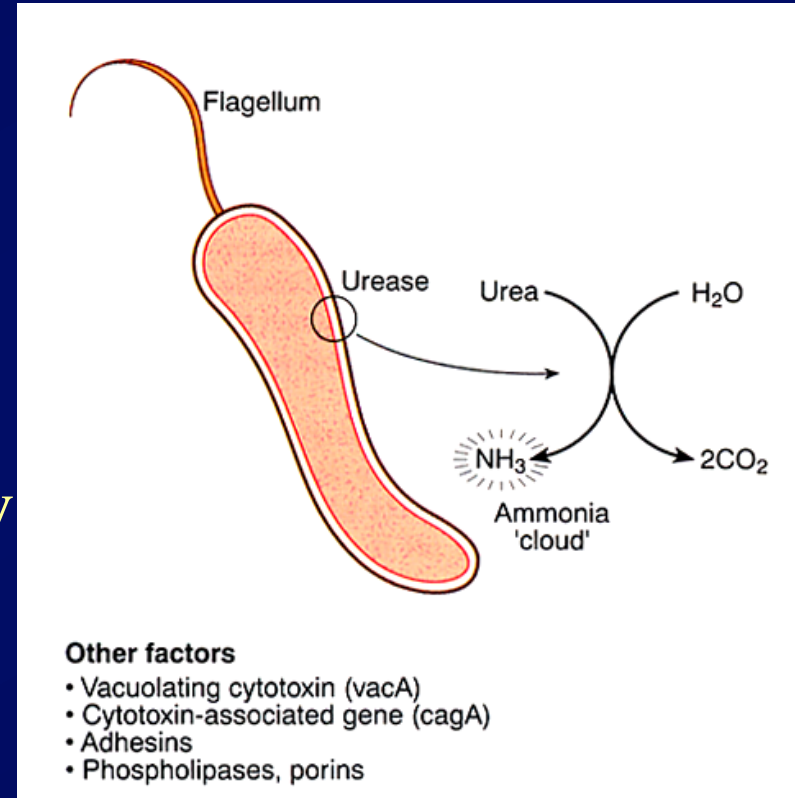


# *Helicobacter Pylori* infection

- Spiral-shaped, gram-negative urease producing bacterium.
- The prevalence of infection is very high and increase with age.
- The vast majority remain healthy and asymptomatic.



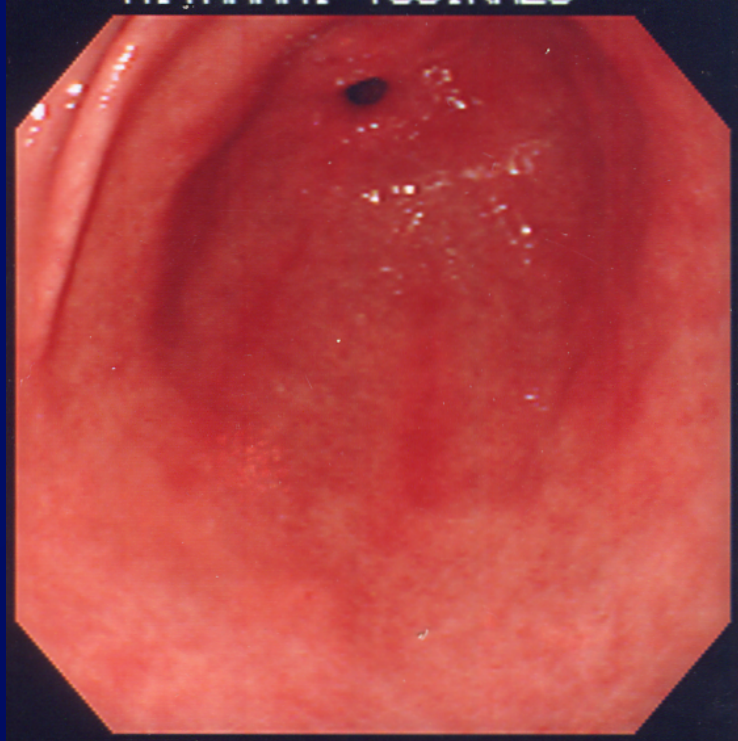
# *Pathogenesis of Hp infection*

- The organism exclusively colonizes gastric-type epithelium.
- It is found in greatest numbers under the mucus layers in gastric pits.
- Factors allowing colonization in the acid environment:
  1. The organism's motility.
  2. Urease production.
  3. Associated hypochlorohydria.
  4. Proton pump

# *Hp gastritis*

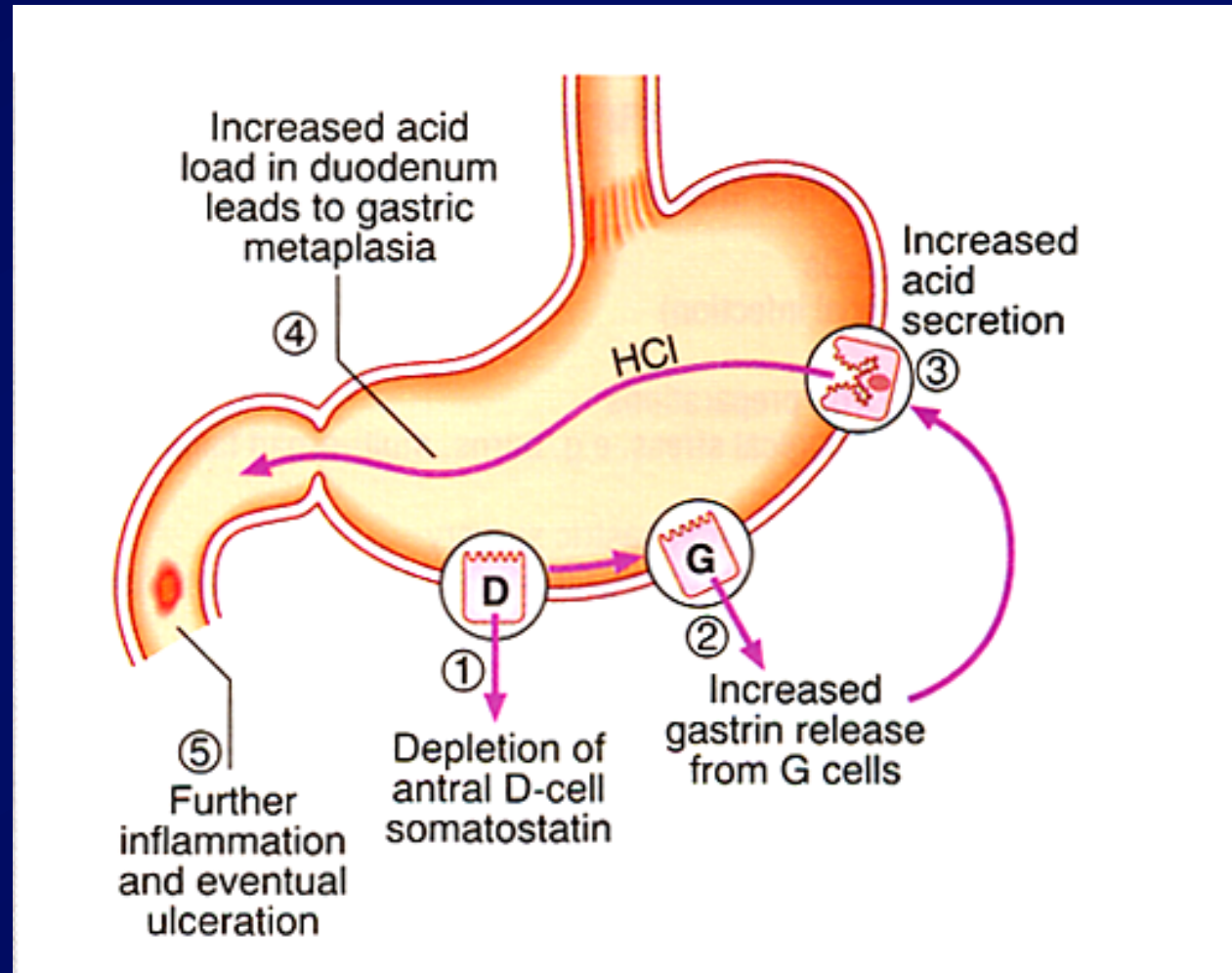
## 1. **Antral gastritis**

- There is epithelial damage from local release of cytokines as IL-6 & IL-8.
- Endoscopically; reddened mucosa



# *Factors implicated in DU disease*

1. Increase acid secretion.
2. Decrease acid suppression
3. Smoking
4. Genetic susceptibility (Blood group O, non secretors).
5. Virulence factors.



## *Clinical features of peptic Ulcer disease*

1. Epigastric pain (Hunger pain, night pain, episodic)
2. Nausea & vomiting
3. Heart burn
4. Anorexia and weight loss
5. Hematemesis
6. Back pain suggests penetration.

### *Diagnosis:*

1. Endoscopy
2. Double contrast study



# Diagnosis of Hp infection

**Table 9.13 Methods for the diagnosis of *Helicobacter***

