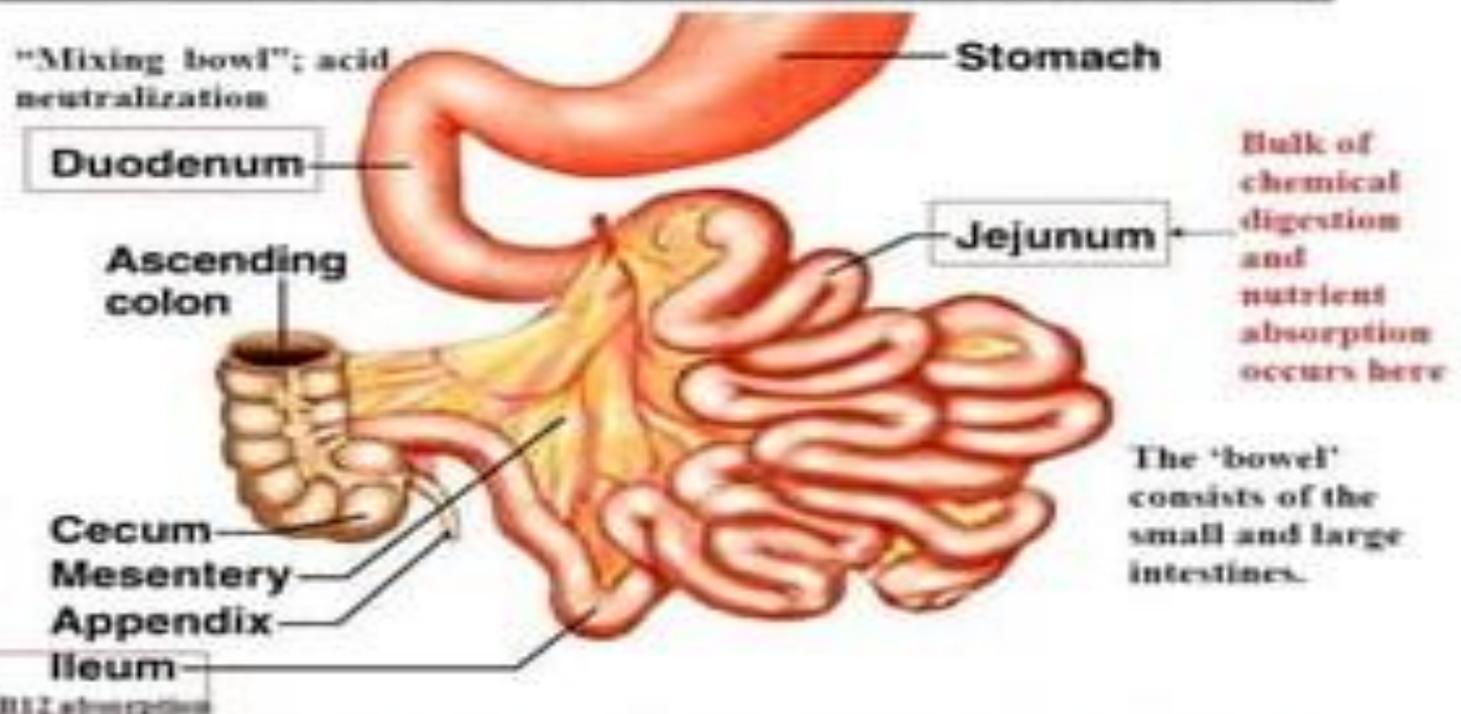


Three Parts of Small Intestine



Main functions of small intestine: 1) chemical digestion 2) absorption of nutrients (90%) from chyme

BRIGID ARACAL

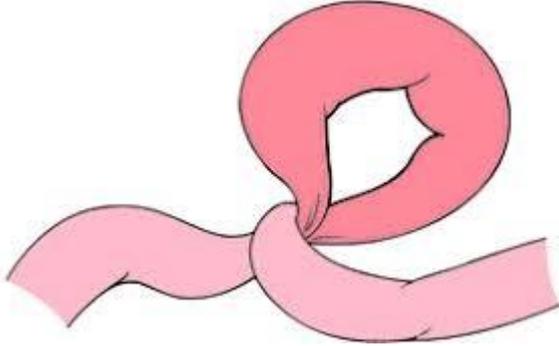
SMALL AND LARGE INTESTINES

Mechanical obstruction

1-Volvulus is a twisting of a segment of bowel on its vascular mesentery, causing

intestinal obstruction and infarction

الأمعاء الدقيقة والكبيرة
الانسداد الميكانيكي

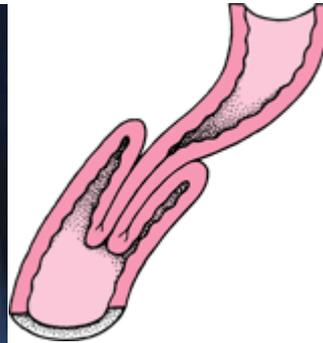


الانفتال هو التواء جزء من الأمعاء على مساريقها الوعائية -1
مما يسبب انسداد معوي واحتشاء

2-Intussusception is the telescoping of a proximal segment of the bowel into the distal segment. It is most common in infants and children.

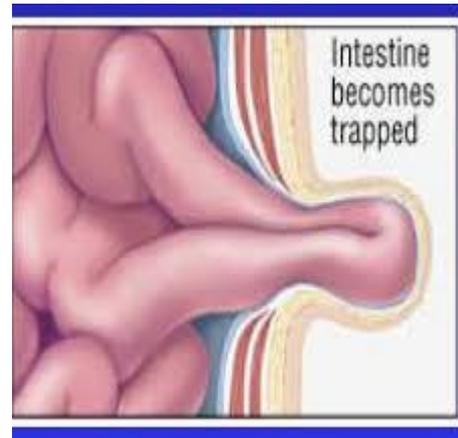
1-

الانغلاف هو تداخل الجزء القريب من



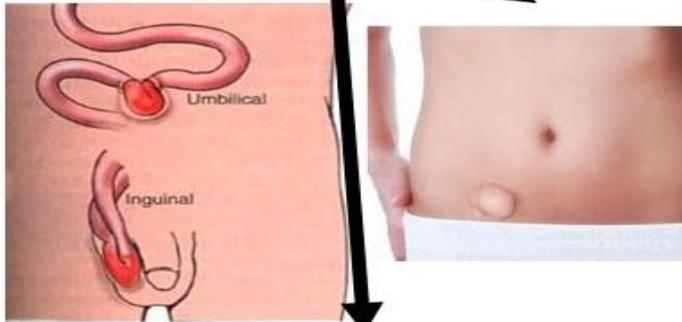
الأمعاء في الجزء البعيد. وهو أكثر شيوعاً عند الرضع والأطفال.

3-Incarcerated hernia is a segment of bowel that is imprisoned within a hernia; the condition can become complicated by intestinal obstruction and infarction. **1- الفتق المنعزل هو جزء من الأمعاء المحبوس داخل الفتق. يمكن أن تصبح الحالة معقدة بسبب انسداد الأمعاء والاحتشاء.**

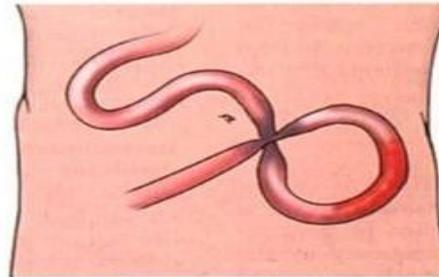


Small Bowel – Causes of Obstruction

- Hernias
- Adhesions



- Intussusception
- Volvulus

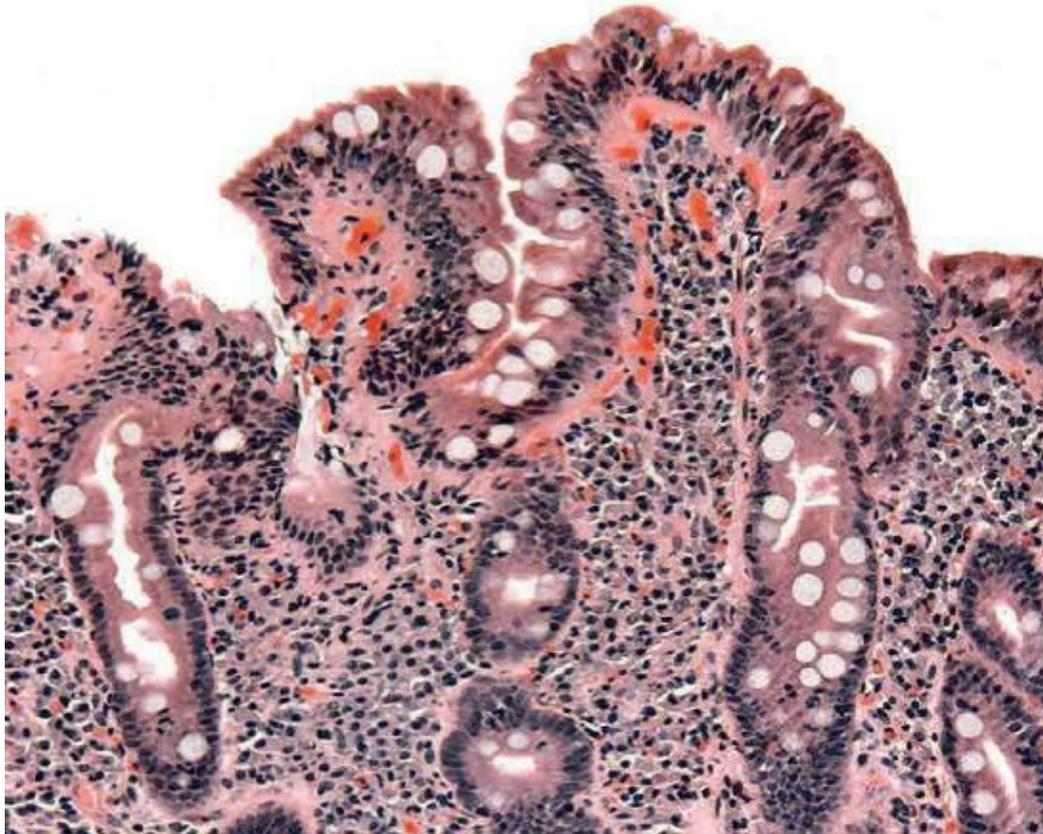


Malabsorption Syndromes

Celiac sprue (or **gluten-sensitive enteropathy** and nontropical sprue) is caused by hypersensitivity to gluten (and gliadin), resulting in loss of small bowel villi and

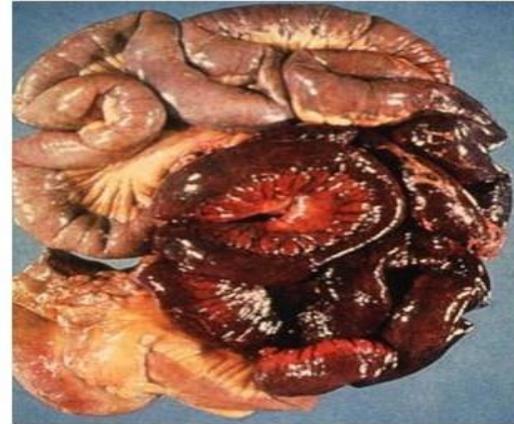
malabsorption **ينجم الذرب البطني (أو الاعتلال المعوي الحساس للجلوتين والذرب غير الاستوائي) عن فرط الحساسية للجلوتين (والجليادين)، مما يؤدي إلى فقدان الزغابات المعوية الدقيقة وسوء الامتصاص.**

Biopsy shows blunting of villi and a lymphocytic infiltrate.



Small Bowel – Ischemia

- Predisposing Conditions
 - Arterial thrombosis
 - Atherosclerosis
 - Vasculitis
 - Arterial embolism – vegetation
 - Venous thrombosis – hypercoagulable
 - Non-occlusive – shock
 - Miscellaneous - volvulus



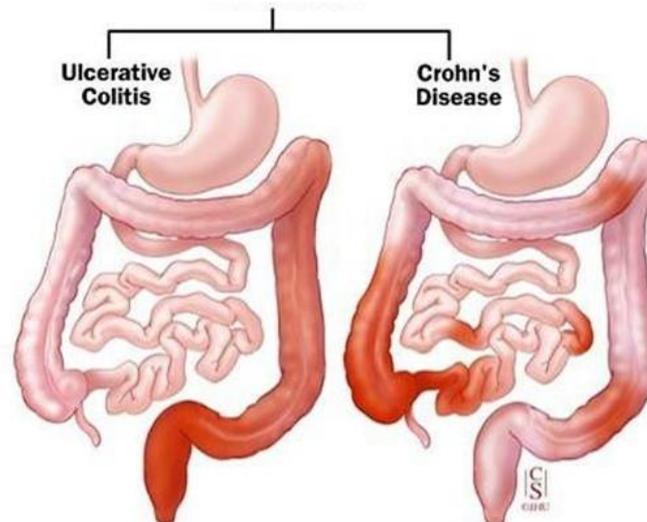
Inflammatory bowel disease IBD

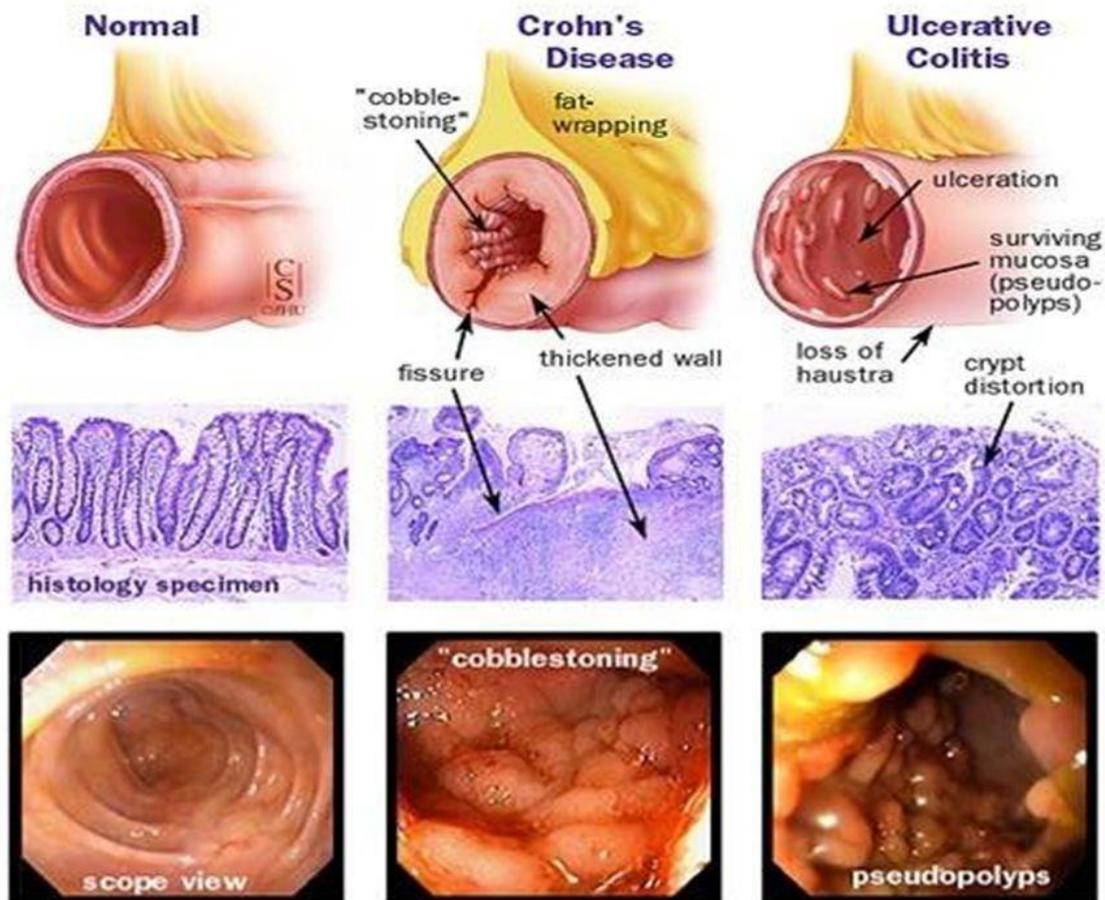
1-ULCERATIVE COLITIS

2-Crohn;s disease

Small Bowel - Inflammatory Bowel Disease (IBD)

- Ulcerative Colitis
- Crohn's Disease





Small Bowel – Tumors

- < 6% GI tumors
- Benign
 - Leiomyoma
 - Adenoma
- Malignant
 - Adenocarcinoma
 - Neuroendocrine
 - Lymphoma
 - Sarcoma

