

Abdominal Pain

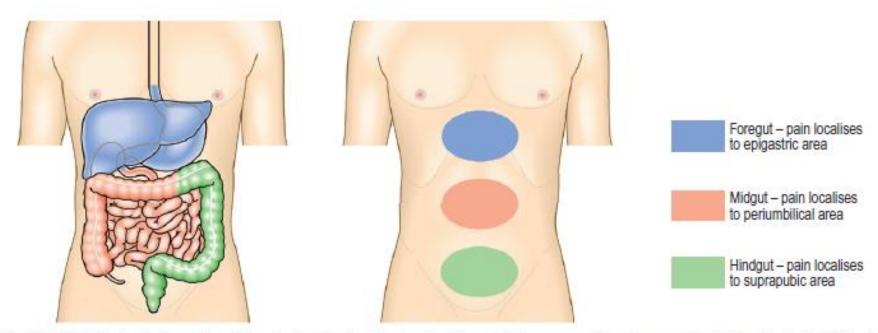


Fig. 8.5 Abdominal pain. Perception of visceral pain is localised to the epigastric, umbilical or suprapubic region, according to the embryological origin of the affected organ.

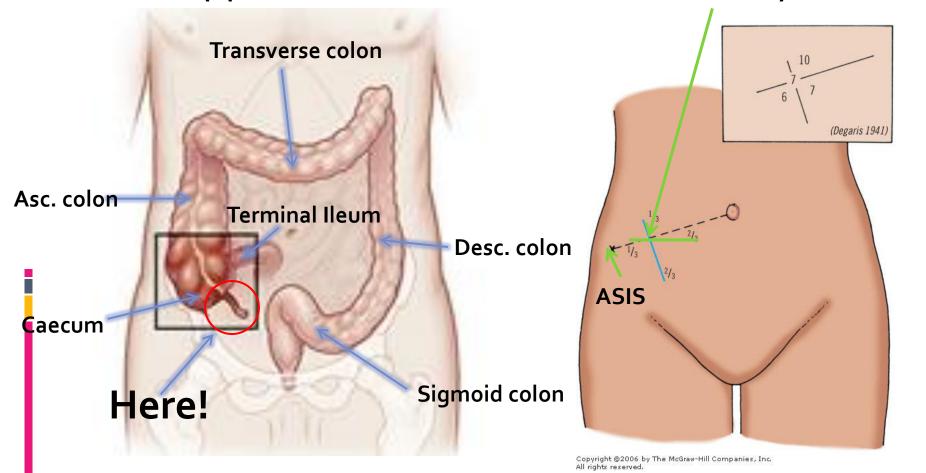
Acute Appendicitis

- Appendicitis is common- 7-9% lifetime risk
- Mostly young people but can present at any age.
- Delay in diagnosis/management causes significant morbidity-
- Usually clinical diagnosis- not reliant on imaging
- Has classic presentation but often presents atypically- it is a common pitfall!

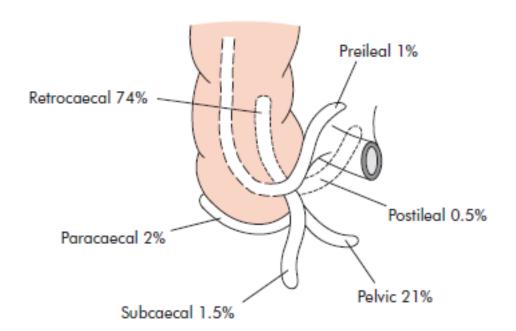
Anatomy

1. The Appendix is...

2. McBurney's Point



Anatomy



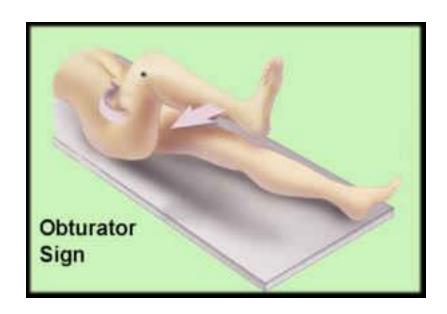


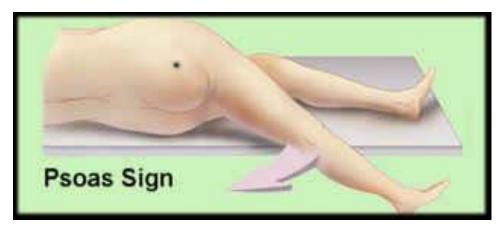
- Peri-umbilical colic
- Pain shifts to the right iliac fossa
- Anorexia
- Nausea

Signs

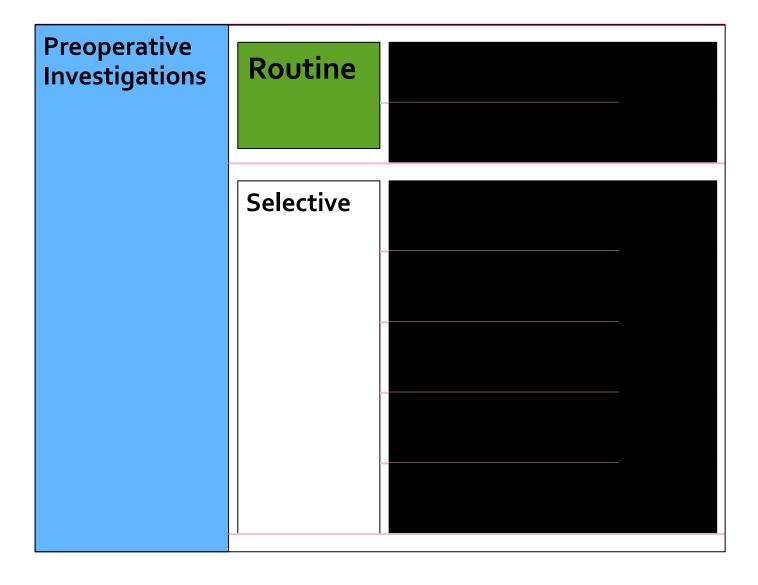
- Pyrexia (37.2–37.7°C)
- Localised tenderness in the right iliac fossa
- Muscle guarding
- Rebound tenderness

- Pointing sign (patient is asked to point where the pain began and where it moved)
- Rovsing's sign (deep palpation of the left iliac fossa may cause pain in the right iliac fossa)
- Psoas sign (patient will lie with the right hip flexed for pain relief)
- Obturator sign (the hip is flexed and internally rotated. If an inflamed appendix is in contact with the obturator internus, this manoeuvre will cause pain in the hypogastrium)





Investigation



Diagnostic Scoring

- Diagnosis is essentially clinical;
- A number of clinical and laboratory-based scoring systems have been devised to assist diagnosis.
- The most widely used is Alvarado score.

The Alvarado (MANTRELS) Score

1-4: Very

unlikely

7-8: Very

probable

Definite

9-10:

5-6: Possible

	Score
Symptoms	
 Migratory RIF pain 	1
 Anorexia 	1
 Nausea and vomiting 	1
Signs • Tenderness (RIF)	2
 Rebound tenderness 	1
 Elevated temperature 	1
Laboratory	
 Leucocytosis 	2
 Shift to the left (segmented neutrophils) 	1
TOTAL	10

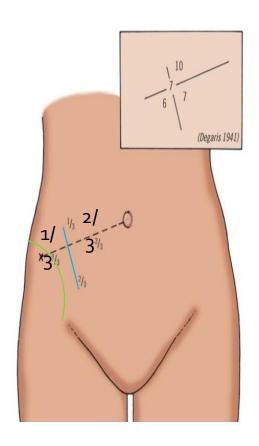
- IOIAL 10
- < 5 is strongly against a diagnosis of appendicitis
- 7 or more is strongly predictive of acute appendicitis
- In patients with an equivocal score of 5 or 6, abdominal USG or contrast-enhanced CT scan is used to further reduce the rate of negative appendicectomy

Treatment

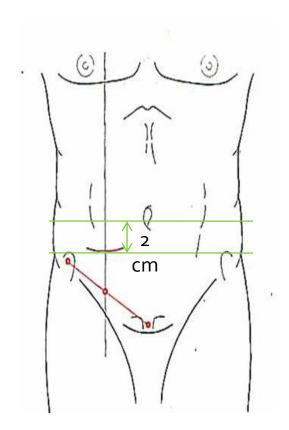
Intravenous fluids

- Appropriate antibiotics
- Appendicectomy

Conventional Appendicectomy



Gridiron incision: right angles to a line joining the ASIS to the umbilicus. Centred on McBurney's point



Lanz incision: 2 cm below the umbilicus centred on the midclavicular-midinguinal line

Appendicectomy - Open

 Longer recovery, risk of hernia & adhesions, can't see pelvic structures as well



Appendicectomy -Laparoscopic

- "Keyhole" surgery
- Lower complication rate, quicker recovery







"Ever see gallstones like that before?"

Cholelithiasis

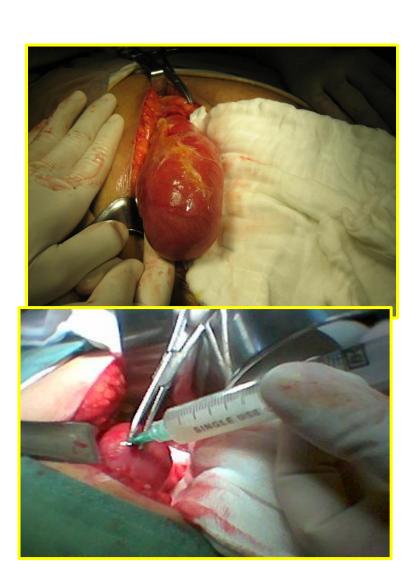


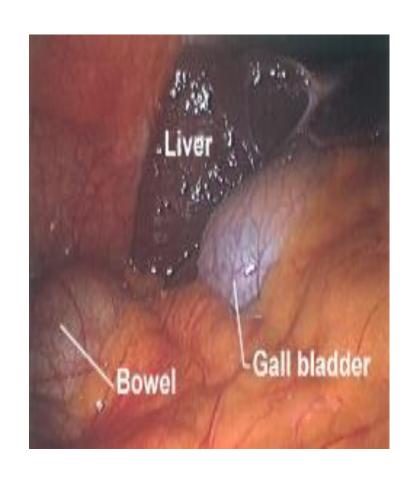


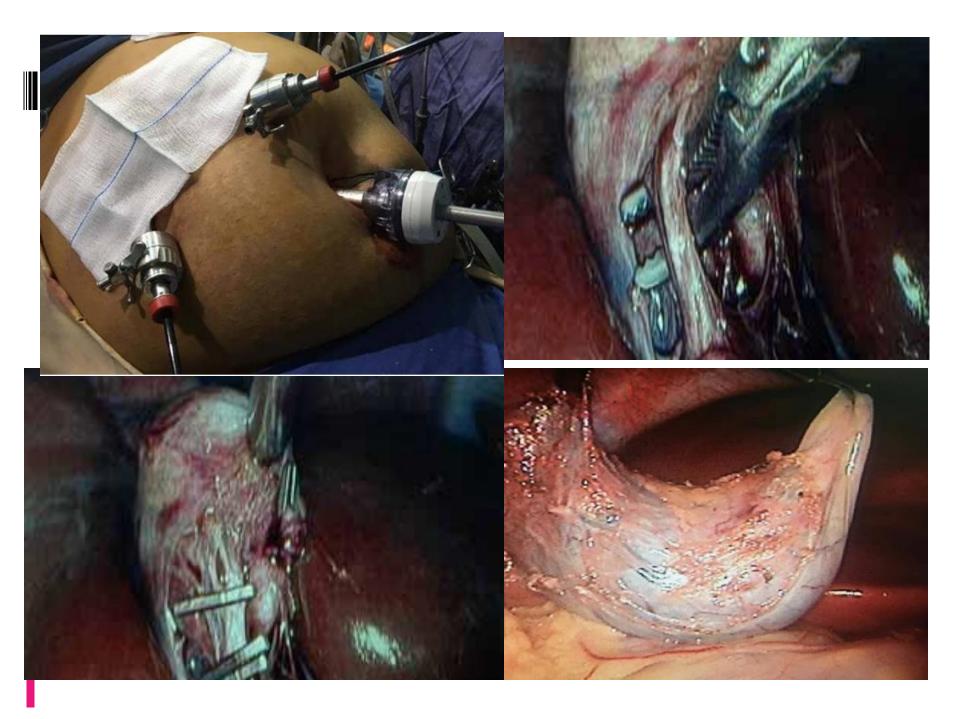
Laparoscopic vs. Open Cholecystectomy











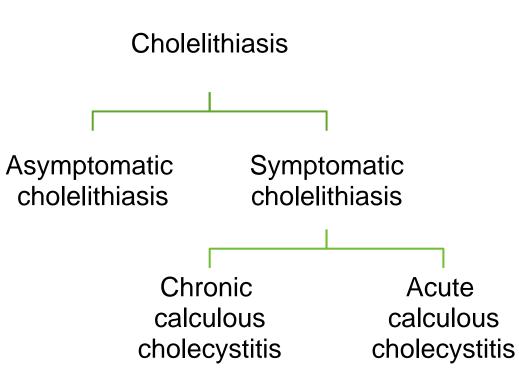
Cholelithiasis

- Formation represents failure to maintain bile components (cholesterol, Ca, bile pigments) in a solubilized state
- Majority of those with stones are asymptomatic
- 1-2% of asymptomatic individuals develop symptoms per year
- Approx 65% of asymptomatic patients remain symptom free after 20 years

Types of Gallstones

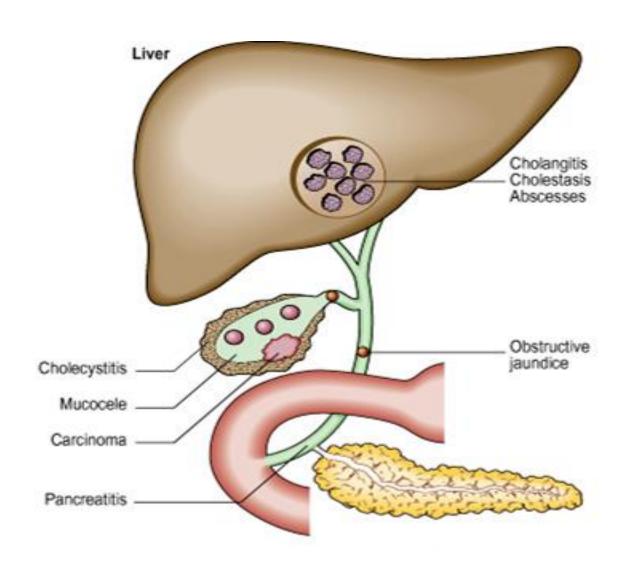
- Mixed (8o%)
- Pure cholesterol (10%)
- Pigmented (10%)
 - Black stones (contain Ca bilirubinate, a/w cirrhosis and hemolysis)
 - Brown stones (a/w biliary tract infection) are more common in southeast Asia, where biliary parasites, including Clonorchis sinensis, Opisthorchis viverrini, and Ascaris lumbricoides, are endemic.

Spectrum of Gallstone Disease



- Symptomatic cholelithiasis can be a herald to:
 - Biliary colic
 - acute cholecystitis
 - chronic cholecystitis

Cholelithiasis



Clinical prsentations

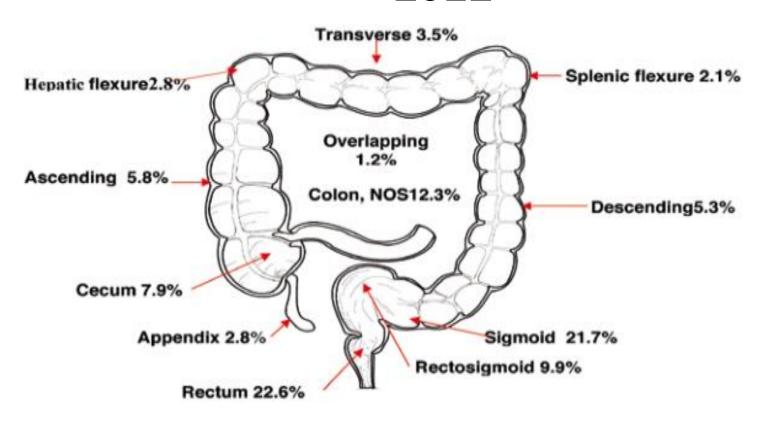
- Asymptomatic Gallstones
- Biliary colic
- Acute Cholecystitis
- Hydrops of the Gallbladder
- Mirizzi syndrome
- Empyema of the gallbladder
- Choledocholithiasis
- Cholangitis
- Gallstone ileus
- Acalculous cholecystitis
- Oriental Cholangio-hepatitis

COLORECTAL CANCER

Colorectal Cancer

- Colorectal cancer (CRC) is the second most common cancer in Jordanian adults.
- Leading cancer incidence in Jordan.
- Globally 800,000 new CRCs occur each year, accounting for 10% of all incident cancers with 450,000 deaths/year

Distribution of Colorectal cancer by topography ,Jordan - 2012



ETIOLOGY

- Environmental & dietary factors
- Male sex
- Excessive BMI
- Red meat ,animal fat, smoking and alcohol
- Protective effect of dietary fiber
- Low folate consumption
- Family history of colorectal cancer
- Personal history of colorectal cancer, ovary, endometrial, breast
- Neoplastic polyps
- IBD
- Hereditary Conditions (FAP, HNPCC)







Symptoms of Colorectal Cancer

- A change in bowel habits
- Bright red or dark blood in the stool
- Stools that appear narrower or thinner than usual
- Discomfort in the abdomen, including frequent gas pains, bloating, fullness, and cramps
- Unexplained weight loss, constant tiredness, or unexplained anemia (iron deficiency)

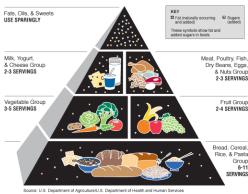
5 yr survival after curative resection of CRC

The same of the sa	T1N0M0 T2N0M0	}	Stage I	80-95%
Marine Summer	T3N0M0		Stage II	70-75%
Node +	TxN1M0		Stage III	30-65%
Distant Mets	TxNxM1		Stage IV	<5%

Colon Cancer Preventions

- Colon cancer can be prevented and cured through early detection
- Changing your eating habits(more fiber and less fats)
- Don't smoke and drink less









- Screening for asymptomatic men and women at age 50, using a menu of screening options.
- Mortality rates have been declining for the past 2 decades, largely attributable to the contribution of screening to prevention and early detection.



Recommended CRC screening tests

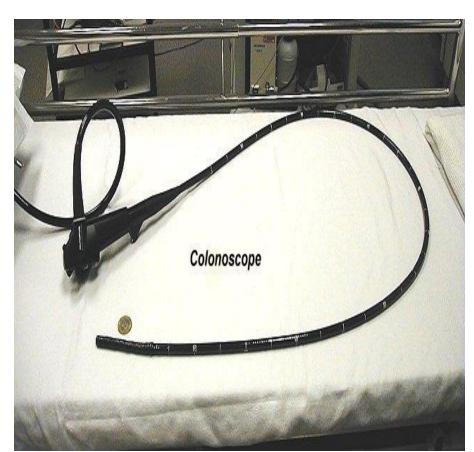
- Annual high-sensitivity gFOBT or FIT, following the manufacturer's recommendations for specimen collection
- 2. FSIG every 5 years
- 3. Colonoscopy every 10 years
- 4. Double-contrast barium enema every 5 years
- 5. CT colonography every 5 years.

Stool DNA testing, which also was among the recommended options in the 2008 update, is no longer commercially available for screening.

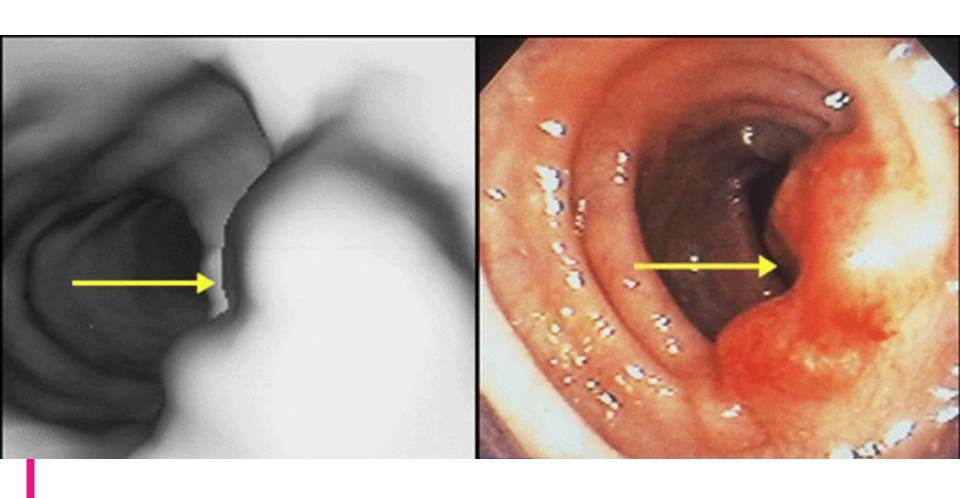
Sigmoidoscopy/Colonoscopy

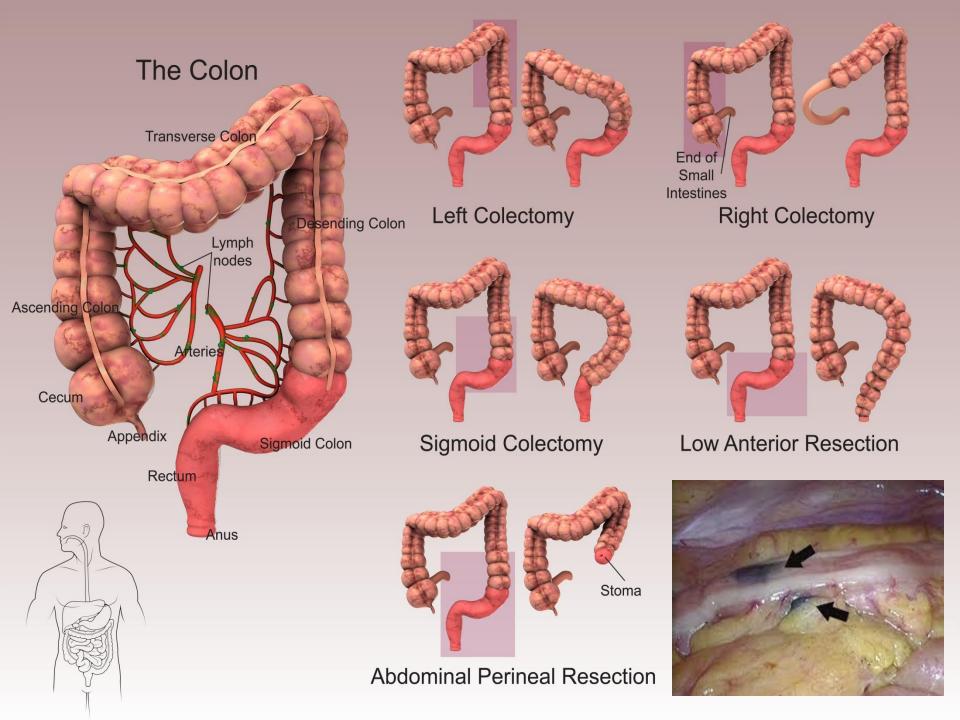


"You don't need a colonoscopy, but I'm sending you for one because, quite frankly, I don't like you."



CT colonography





Surgery





Thank you