

A 15-year-old lady comes to the Accident and Emergency with history of migratory right iliac fossa pain, no anorexia or vomiting. On examination she has tenderness at right inguinal fossa with no rebound. She has leucocytosis. The temperature is normal. What is the appropriate action?

Select one:

- a. The patient should be sent back home with pain killer
- b. Appendectomy
- c. Repeat the complete blood count
- d. Patient should be re-examined with a senior person
- e. Ultrasound

A 21-year-old male second year university student is brought to the emergency room after being hit on the head during a rugby match. His colleagues report that he lost consciousness for about ten minutes immediately after the trauma, then regained it only to slip into unconsciousness while they were driving him to hospital. What is the most likely diagnosis?

Select one:

- a. Pneumocephalus
- b. Fracture base of skull
- c. Acute subdural haematoma
- d. Intra-cerebral haematoma
- e. Epidural haematoma

A 25-year-old man presents with high fever, severe abdominal pain, nausea and vomiting one week after a surgery for strangulated inguinal hernia. His abdomen has generalized tenderness. The most likely diagnosis is

Select one:

- a. Acute bacterial peritonitis
- b. Acute reflux Oesophagitis
- c. Acute cholangitis
- d. Acute intestinal obstruction
- e. Acute pancreatitis

A 28-year-old lady complains of painful defecation associated with fresh per-rectal bleed. Possible diagnosis to consider:

Select one:

- a. anal fissure
- b. hidradenitis suppurativa
- c. pilonidal sinus
- d. pruritis ani
- e. dermoid cyst

A 40-year-old man undergoes laparotomy for small bowel obstruction due to adhesions. During the release of the adhesions an enterotomy is made in the obstructed but viable gut resulting in spillage of faecal material into the abdomen. This converts the wound to:

Select one:

- a. Secondary
- b. Contaminated
- c. Clean
- d. Infected
- e. Clean contaminated

A 56-year-old man presents with altered bowel movement, tenesmus, and haematochezia. On examination a mass was felt at 4 cm above the anal verge. The most acceptable operation for this mass is

Select one:

- a. Lateral sphincterotomy
- b. Abdomino-perineal resection
- c. Haemorrhoidectomy
- d. Anterior resection
- e. Rectal resection and "pull through"

A patient with Duke's C ascending colon cancer:

Select one:

- a. May have any T stage using the TNM staging system
- b. Will have a poorer prognosis than a patient with Duke's D disease
- c. Is most likely to develop metastatic disease in the right kidney
- d. Can expect survival benefit with adjuvant chemotherapy
- e. Must be offered post-operative radiotherapy

A strangulated hernia

Select one:

- a. Is more commonly observed in inguinal than femoral hernias
- b. May be reducible
- c. Can be treated by reducing the hernia
- d. Is usually painless
- e. Should be managed with early surgery

A workman fell on a bar which hit his perineum and presents with scrotal haematoma and per-urethral bleeding. Which is TRUE?

Select one:

- a. Immediate exploratory laparotomy
- b. surgery to repair urethra
- c. scrotal exploration indicated
- d. catheterise
- e. suprapubic catheterization if patient can't pass urine

An 11-year-old boy presents with a sudden onset of severe right lower quadrant pain and scrotal tenderness accompanied by nausea and vomiting. Which of the following is the most likely diagnosis which also qualifies as a surgical emergency?

Select one:

- a. Acute epididymorchitis
- b. Gastroenteritis
- c. Acute prostatitis
- d. Testicular torsion
- e. Acute appendicitis

Breast abscesses

Select one:

- a. Requires breast feeding to stop
- b. Occur only in lactating women
- c. Must always be incised
- d. The common causative organism is *Streptococcus* spp.
- e. May indicate an underlying carcinoma

Chronic ankle ulcers

Select one:

- a. Should always be treated with compression bandaging
 - b. Should be treated with topical antibiotics
 - c. Should be biopsied if not healing
 - d. Are usually due to arterial disease
 - e. Are more common below the medial malleolus
-

Clinical examination of the breast

Select one:

- a. Examination of the abdomen is an accurate method for picking up metastases
- b. A bloody nipple discharge rules out malignancy
- c. The most common sign and symptom of breast disease is a palpable mass
- d. Clinical assessment of axillary nodes is very accurate
- e. Ulceration of the skin is an early finding in breast cancer

Colonoscopy:

Select one:

- a. Is safest when performed under general anaesthesia
- b. Unlike ultrasound is not user dependent
- c. Is more sensitive than barium enema at detecting colonic polyps
- d. Does not require formal mechanical bowel preparation
- e. Carries a 1% perforation rate

Complications of cholelithiasis include all the following except:

Select one:

- a. Cholangitis
 - b. Gastroenteritis
 - c. Biliary strictures
 - d. Pancreatitis
 - e. Jaundice
-

Complications of hernia surgery include

Select one:

- a. Loss of sensation to the skin of the lower abdomen
- b. Impotence
- c. Recurrence of the hernia
- d. Hydronephrosis
- e. Loss of sensation to the ipsilateral side of the penis

Consequences of total parenteral nutrition (TPN)
include

Select one:

- a. Hypoglycaemia
- b. Pancreatitis
- c. Reduced mortality after major surgery
- d. Altered gut flora
- e. Reduced gut permeability

Diagnostic peritoneal lavage is positive when all the following are present except

Select one:

- a. Red blood cells are more than 100,000 per mm³
- b. White blood cells are more than 500 per mm³
- c. Alkaline phosphatase level of more than 1 IU/L
- d. Any bile material
- e. Amylase of more than 200 IU/L

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During the first hour of untreated acute blood loss of 15% of blood volume

Select one:

- a. Capillary permeability is reduced
- b. Oliguria is mainly due to ADH secretion
- c. Peripheral vascular resistance decreases
- d. Fluid shifts from the interstitial space to the intravascular space
- e. Reticulocyte count increases

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Enlargement of the left supraclavicular (Virchow's) lymph node is not associated with

Select one:

- a. Parotid pleomorphic adenoma
- b. Hepatocellular carcinoma
- c. Breast adenocarcinoma
- d. Gastric adenocarcinoma
- e. Ovarian serous carcinoma

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In an endemic goitrous area, the commonest thyroid cancer is:

Select one:

- a. Anaplastic thyroid carcinoma
- b. Follicular thyroid carcinoma
- c. Medullary thyroid cancer
- d. Lymphoma
- e. Papillary thyroid cancer

In considering admission for patients with head injury, the following is not important.

Select one:

- a. History of vomiting
- b. The occupation of the patient
- c. History of alcohol intake
- d. History of convulsions
- e. Age of the patient

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In the first 24 hours after surgery

Select one:

- a. Potassium is retained
- b. Metabolic rate is decreased
- c. Sodium is retained
- d. Urinary nitrogen levels fall
- e. ADH secretion is reduced

Incisional hernias

Select one:

- a. Can be avoided by using laparoscopic surgery
- b. Are more common in thin patients
- c. Always require surgical correction
- d. Are increased by post-operative wound infection
- e. Can be prevented by use of a corset

Indications for splenectomy include the following
EXCEPT

Select one:

- a. Removal en bloc as part of radical gastrectomy
- b. Splenic abscess
- c. Splenic injury from accident or surgical procedures
- d. As part of variceal surgery
- e. Reduce anaemia in spherocytosis

Patients with Wilms' tumors most frequently present with which of the following?

Select one:

- a. A multicentric primary lesion
- b. Bilateral metachronous lesion
- c. A unifocal, unilateral lesion
- d. Bilateral synchronous lesions
- e. An extrarenal primary

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Polyhydramnios is frequently observed in all of the following conditions except:

Select one:

- a. Congenital diaphragmatic hernia.
- b. Hirschsprung's disease.
- c. Duodenal atresia.
- d. Oesophageal atresia.
- e. Pyloric atresia.

Regarding conservative dentistry:

Select one:

- a. Examples of procedures include placement of restorations.
- b. Dental amalgam and resin composites are restorative materials.
- c. Dental caries is a disease of oral hard and soft tissues.
- d. Bupivacaine is never used during conservative dental treatment.
- e. It is also known as prosthetic dentistry.

Regarding phimosis, the following are correct EXCEPT

Select one:

- a. Sometimes associated with diabetes mellitus
- b. Occurs only children
- c. Balanitis xerotica obliterans is a cause
- d. Can cause urinary obstruction
- e. Treatment is circumcision

Regarding stomas

Select one:

- a. Defunctioning stomas must be reversed within six months
- b. Ileostomies are mainly sited in the right lower quadrant
- c. Peristomal hernias usually results from ischaemia
- d. Colostomies should have a spout to protect the surrounding skin
- e. Loop transverse colostomy is associated with fewer complications than loop ileostomy

Enlargement of the left supraclavicular (Virchow's) lymph node is not associated with

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Suprapubic catheters

Select one:

- a. Should always be inserted in theatre under aseptic conditions
- b. Is the first choice of catheter for patients in acute urinary retention
- c. Should be inserted when the bladder is empty
- d. Complications include bowel perforation
- e. Are inserted 2 cm below the umbilicus

The following are important when taking history concerning pain except

Select one:

- a. Onset
 - b. Surface
 - c. Site
 - d. Timing
 - e. History of surgery
-

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The following are methods of sterilization of surgical instruments

Select one:

- a. Low temperature steam at 73oC for 20 minutes at sub-atmospheric pressure
- b. Glutaraldehyde 2%
- c. Formaldehyde gas at airtight cabinet at 500C
- d. Ethylene oxide
- e. Water at 1000C for 5 minutes

The following are signs and symptoms of midface trauma EXCEPT:

Select one:

- a. CSF rhinorrhoea
- b. Diplopia
- c. Telecanthus
- d. Step deformity of the mandible
- e. Subconjunctival haemorrhage

The following complication of thyroid surgery can be completely avoided with proper pre-operative management

Select one:

- a. Tracheomalacia
- b. Hypocalcaemia
- c. Hypoparathyroidism
- d. Thyroid storm
- e. Hoarseness of the voice

The following is NOT an important consideration in the pre-operative management of patients with obstructive jaundice

Select one:

- a. INR Measurements
- b. Rehydration
- c. Plasma protein levels
- d. Bowel preparation
- e. Prophylactic antibiotics

The following is true about biomaterials in dentistry except:

Select one:

- a. They form an interface with a living host tissue.
- b. They are not biohazardous.
- c. They are commonly made of metals, polymers, and composites.
- d. They are characterized by allergenicity and toxicity.
- e. They include pharmacological agents and medical devices.

The following is true with regards to carcinoid tumours

Select one:

- a. Surgery is deemed inappropriate once the tumour has metastasised
- b. Symptoms of carcinoid syndrome often arise after metastases have arisen
- c. Carcinoid syndrome occurs once lung metastases have occurred
- d. Most commonly affect the colon
- e. Urinary 5-HIAA is elevated in patients with carcinoid syndrome

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The most common topical dressing for thermal burns is:

Select one:

- a. Mafenide acetate cream
- b. Bactigras
- c. 1% silver sulphadiazine
- d. 1% silver nitrate solution
- e. 0.5% silver nitrate

Treatment of clostridial myonecrosis (gas gangrene) includes

Select one:

- a. Administration of hyperbaric oxygen
- b. Early closure of tissue defects
- c. Administration of an antifungal agent
- d. Administration of antitoxin
- e. Wide debridement

When managing post-operative fluid requirements

Select one:

- a. Hypotension may worsen acute renal failure
- b. Fluid restriction is always needed in liver failure
- c. Urine output is not a good indicator of organ perfusion in the post-operative surgical patients
- d. A central venous pressure of 4mm Hg usually indicates hypovolaemia
- e. Excessive gastrointestinal losses can be adequately replaced by 4% dextrose 0.18% saline solution (dextrose saline)

Which of the following conditions is pre-malignant?

Select one:

- a. Gastritis due to Aspirin over-use
- b. Menetrier's disease
- c. Gastric ulcers due to head injuries
- d. Alcohol-related gastritis
- e. Stress gastritis

Which of the following is a differential of cellulitis in children below 10 years?

Select one:

- a. Localized abscess
 - b. Acute osteomyelitis
 - c. Dry gangrene
 - d. Necrotizing fasciitis
 - e. Pyoderma
-

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Which statement with regards to burns is TRUE?

Select one:

- a. the commonest cause of deaths is overwhelming infection
- b. flame burns are worse than scalds
- c. in electrical burns, extent of surface injury is a good reflection of underlying injury
- d. Inhalation injury has no bearing on prognosis
- e. Partial thickness burns are sensate

Regarding the use of laxatives

Select one:

- a. Laxative abuse can lead to hyperkalaemia and colonic atony
 - b. Ispaghula husk (e.g. Fybogel) is a bulk forming agent
 - c. Lactulose is hydrolysed by bacteria in the small intestine
 - d. Senna is a GI stimulant that acts within 30 minutes
 - e. Lactulose is a glucose polymer
-

The Following are dental emergencies commonly encountered in children EXCEPT

Select one:

- A. Gingiva inflammation
- B. Dental abscess
- C. Ludwig's angina
- D. Toothache
- E. Avulsion of teeth

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A three-day-old neonate has a plain abdominal radiograph showing many gas filled loops indicating some form of intestinal obstruction. Which is the most unlikely diagnosis?

Select one:

- a. Meconium ileus- obstruction of the distal small intestine by thick undigested meconium.
- b. Duodenal atresia
- c. Ileal atresia
- d. Meconium plug syndrome - obstruction of colon by a plug of meconium.
- e. Hirschsprung's disease - congenital aganglionosis of colon starting with the rectum.

Anorectal (peri-anal) abscesses

Select one:

- a. Are more likely to recur if a skin-derived organism is cultured
- b. May discharge spontaneously into the rectum
- c. Should be treated initially with high dose intravenous antibiotics
- d. Cause pain on defecation only
- e. Are not associated with systemic disorders

Initial fluid resuscitation of a patient with multiple fractures and hypovolaemic shock should be

Select one:

- a. Ringers lactate
- b. Hypertonic saline
- c. Albumin
- d. Blood transfusion
- e. Fresh frozen plasma