Random MCQs 4

PLEASE SELECT ONE CORRECT ANSWER FOR EACH QUESTION

- 1. A 29yo female presents with acute onset of dyspnoea and pleuritic chest pain. Which ONE of the following statements is CORRECT
 - A. 80% of patients with pulmonary embolism will present with symptoms or signs of lower limb deep venous thrombosis.
 - B. Pleuritic chest pain is the most common presenting symptom of pulmonary embolus.
 - C. In pulmonary embolus, the Westermark sign seen on chest xray refers to a pleural–based density with a rounded border pointing toward the hilum.
 - D. A smoking history is not a risk factor for thromboembolic disease.
 - E. In pulmonary embolism a ventilation-perfusion scan will show an area of abnormal ventilation in an area of normal perfusion.
- 2. A 4 week old baby presents with a two day history of dyspnoea and sweating whilst feeding. Which ONE of the following is INCORRECT
 - A. Clinical differentiation of heart failure from non-cardiac causes in this age group is difficult.
 - B. Cardiomegaly on chest xray is usually present in congestive heart failure.
 - C. Patent ductus arteriosus is the most common cause of congestive heart failure at this age.
 - D. The incidence of congenital heart disease is 8 per 1000 live births.
 - E. Raised jugular venous pressure, peripheral oedema, and lung crepitations are late signs in infants with congestive heart failure.
- 3. With respect to anorectal abscesses, which ONE of the following statements is INCORRECT
 - A. The majority of infections begin in an anal crypt and its gland.
 - B. Carcinoma of adjacent organs should be considered with fistulous abscesses.
 - C. Perianal abscesses are the most common form of anorectal abscess.
 - D. Ischiorectal abscesses are usually confined superficially.
 - E. Incision and drainage under general anaesthetic of anorectal abscesses is the most appropriate definitive treatment.
- 4. In cerebrovascular accidents involving the middle cerebral artery, which ONE of the following is FALSE
- A. Contralateral hemiplegia and hemianaesthesia will occur if the entire middle cerebral artery is occluded.
- B. Middle cerebral artery occlusion is usually embolic in aetiology.
- C. Homonymous hemianopia is a feature of middle cerebral artery occlusion.
- D. A lateral medullary syndrome may be present.

- E. If the dominant lobe is involved aphasia will be present.
- 5. In peripheral nerve injuries of the upper limb, which ONE of the following is FALSE
- A. Lower brachial plexus injuries are associated with distal upper limb weakness and atrophy.
- B. Axillary nerve injuries produce paraesthesia in the lateral aspect of the forearm.
- C. The radial nerve may be injured in humeral shaft injuries.
- D. Wasting of the thenar eminence can occur in carpal tunnel syndrome.
- E. The claw-hand deformity of an ulnar nerve lesion is often more pronounced in the ring and little finger.
- 6. Which ONE of the following is TRUE of a L2 spinal cord lesion?
- A. A sensory level at the inguinal crease.
- B. Quadriceps activity is maintained.
- C. Extensive autonomic dysfunction is common.
- D. Hip flexion is maintained.
- E. Urinary retention is rare.
- 7. Which ONE of the following is NOT an indication to X-ray according to the "Ottawa ankle and foot rules"?
- A. Inability to weight bear in the Emergency Department.
- B. Bony tenderness over the medial cuneiform
- C. Bony tenderness at the tip of the medial malleolus.
- D. Bony tenderness at the tip of the lateral malleolus.
- E. Bony tenderness at the base of fifth metatarsal.
- 8. With regard to shoulder dislocations which ONE of the following is FALSE
- A. The usual mechanism of an anterior dislocation is abduction and internal rotation.
- B. Seizures are a common cause of posterior dislocations.
- C. Paralysis of the deltoid is the most common muscle injury associated with anterior dislocations.
- D. There is about a 50% incidence of recurrence in the younger patient.
- E. The Hippocratic method of reduction involves traction and adduction.
- 9. With regard to an irritable hip (transient synovitis) in children, which ONE of the following is TRUE
- A. The white cell count and erythrocyte sedimentation rate (ESR) are raised
- B. The temperature is often elevated to greater than 38.0 degrees Celsius

- C. X-ray of the hip is usually abnormal
- D. An ultrasound of the hip is usually normal
- E. None of the above
- **10**. A 4 year old child presents with a facial laceration that you deem will require primary closure. With respect to providing analgaesia and sedation to perform the procedure, which ONE of the following is CORRECT
 - A. Fentanyl is less likely than morphine to cause cardiovascular depression.
 - B. The dose of midazolam is 0.1-0.15mg/kg orally.
 - C. Ketamine has only sedative properties.
 - D. Nitrous oxide has a rapid onset of action and a long duration of action.
 - E. In the event of opiate toxicity, the dose of naloxone is 1mcg/kg intravenously.
- 11. With respect to acute scrotal pain, which ONE of the following statements is INCORRECT
 - A. Peak incidence of testicular torsion occurs in adolescence.
 - B. The "blue dot sign" is pathognomonic of torsion of the appendix testis or epididymis.
 - C. The presence of pyuria is diagnostic of epididymitis or epididymo-orchitis.
 - D. Acute scrotal pain may be the presenting symptom for testicular malignancy.
 - E. Operative scrotal exploration is the definitive diagnostic test for testicular torsion.
- **12**. A 5year old child presents to your Emergency Department in status epilepticus. Which ONE of the following statements is CORRECT
 - A. Approximately 40% of children with epilepsy will experience an episode of status epilepticus.
 - B. Blood gas analysis of a patient in status epilepticus will reveal a metabolic alkalosis.
 - C. Diazepam is effective in 80% of cases within 5 minutes.
 - D. Absence or petit mal seizures never progress to status.
 - E. The oral dose of paraldehyde is 0.3ml/kg.
- 13. Following a paracetamol overdose which ONE of the following is CORRECT
- A. The initial dose of N-acetylcysteine is 120mg/kg given over one hour.
- B. The Rumack-Matthew nomogram is useful between 4 and 24 hours post-ingestion.
- C. Toxicity is more likely when associated with acute alcohol ingestion.
- D. In a patient on long-term carbamazepine and a serum paracetamol level of 90mg/l at 8 hours, N-acetylcysteine should be considered.

- E. Elevation of AST, ALT, and LDH are usually apparent within the first 8 hours following ingestion.
- 14. With regards to encephalitis, which ONE of the following is CORRECT
- A. It may be associated with influenza, measles and rubella
- B. A cerebral CT scan will not assist in the diagnosis.
- C. Meningism is always a feature.
- D. Acyclovir should be given at a dose of 100mg/kg every 8 hours.
- E. Neurological signs are not a feature.
- **15.** When differentiating between an organic brain syndrome and psychosis which ONE of the following is CORRECT
- A. Patients with an organic brain syndrome are more agitated.
- B. Disorientation is not a feature of psychosis.
- C. Abnormal vital signs suggest psychosis.
- D. Fixed delusions suggest psychosis.
- E. First presentation of a mental disorder in an older patient suggests psychosis.
- 16. With regards to assessing patients with renal failure, which ONE of the following is CORRECT
- A. A plasma urea to creatinine ratio of less than 20:1 suggests pre-renal failure.
- B. Red blood cell casts may suggest underlying vasculitis.
- C. A 50% reduction in renal function is always associated with a rise in serum creatinine.
- D. Encephalopathy and pericarditis are not indications for haemodialysis in acute renal failure.
- E. Hypomagnesaemia is more likely in chronic renal failure.
- **17.** When managing patients following a selective serotonin reuptake inhibitor (SSRI) overdose, which ONE of the following is CORRECT
- A. The serotonin syndrome is dose-dependant.
- B. Cardiotoxicity is common.
- C. Movement disorders do not occur in acute overdose.
- D. Haemodialysis is useful in severe overdose.
- E. Seizures are uncommon.
- 18. With respect to childhood infectious diseases, which ONE of the following is CORRECT

- A. The infectious period for chicken pox is from the onset of the rash to 5 days after the first crop of vesicles appear.
- B. A child with whooping cough (B.pertussis) infection should be excluded from childcare for the first 2 days of a 7 day course of antibiotics.
- C. Mumps infection is a notifiable infectious disease.
- D. Congenital rubella syndrome occurs in up to 30% of infants born to women with rubella in the first trimester of pregnancy.
- E. Measles (rubeola) is a notifiable disease.
- **19.** All of the following can be a precipitant of hepatic encephalopathy in a patient with end stage liver disease EXCEPT
- A. Constipation
- B. Acute Bacterial Peritonitis
- C. Temazepam
- D. Hyperkalaemia
- E. Urinary tract infection
- 20. Which ONE of the following statements concerning the unconscious patient is INCORRECT
- A. Patients with the 'locked in syndrome" have a lesion in their ventral pontine motor tracts
- B. In patients with the "locked in syndrome", the only movement possible is vertical eye movement
- C. Anticoagulation is an important part of the treatment of patients with non-ketotic, hyperosmolar coma.
- D. An adult with no spontaneous eye opening, inappropriate verbal response and extensor motor response has a Glasgow Coma Score of 5
- E. The modified Glasgow Coma Score for paediatrics has a top score of 9 for infants under 6 months of age
- 21. Which ONE of the following drugs is NOT associated with hyponatraemia?
- A. Mannitol
- B. Phenytoin
- C. Frusemide
- D. Carbemazapine
- E. Octreotide
- 22. The following statements about hypothyroidism are all correct EXCEPT
- A. In the elderly patient the signs can be confused with Alzheimer's disease or Parkinson's disease.
- B. Hypothyroidism can cause menorrhagia and carpal tunnel syndrome

- C. Hypothyroidism can cause localised pretibial myxoedema
- D. The dose of intravenous thyroxine is 400-500 micrograms given slowly for the treatment of myxoedema coma
- E. The dose of intravenous triiodothyronine is 25-50 micrograms given slowly for the treatment of myxoedema coma
- 23. Which ONE of the following statements relating to electrical cardioversion is CORRECT
- A. Electrical cardioversion of atrial fibrillation is more likely to be associated with an embolic complication than pharmacological cardioversion.
- B. The defibrillation threshold is lower using biphasic waveform defibrillators.
- C. The energy requirement for successful defibrillation decreases with the duration VF.
- D. Defibrillation is dependent on sufficient energy being delivered to depolarise the myocardium.
- E. Transthoracic impedance increases with larger defibrillator pads or paddles.
- 24. With regards to injuries to the eye, all of the following statements are TRUE EXCEPT
- A. Acid burns are potentially more serious than alkali burns
- B. Corneal ulcers caused by welding heal quickly over 24-36 hours
- C. A "tear-drop" shaped pupil is a sign of a full thickness corneal laceration
- D. Subconjunctival haemorrhage from trivial trauma resolves spontaneously over 10-14 days
- E. The initial injury resulting in an intraocular foreign body is usually painless
- **25.** A well 2 year old girl is brought to the ED by her non-custodial parent. The parent states they are concerned the partner of the other parent has been abusing their daughter. Which ONE of the following is most CORRECT
- A. It is unlikely that there is a legal battle over child custody
- B. An absence of physical findings precludes any abuse
- C. A CT brain scan should be performed
- D. Multiple bruising on the shins is most likely caused by non accidental injury
- E. An old fracture of the ribs is more suspicious than an old fracture of the tibia
- 26. With respect to cervical spine xrays in children, which ONE of the following is CORRECT
- A. Air in the prevertebral space is always abnormal
- B. A normal predental space may be twice as wide as that seen in an adult
- C. The odontoid peg does not fuse to the vertebral body until after the age of 4

- D. Subluxation at C2/C3 is normal
- E. The normal retropharyngeal space at C2 should be less than 7mm
- 27. With respect to asthma, which ONE of the following is TRUE
- A. An elevated white cell count is more likely to be due to infection in children
- B. Respiratory function testing is unreliable in most primary school aged children
- C. A chest xray should be performed
- D. The indication for steroids is the same in adults and children
- E. Intubation should be performed if the pCO2 is elevated
- 28. Which ONE of the following statements about malignant hypertension is FALSE
- A. BP should be rapidly lowered by 30% over 30-60 mins
- B. Diastolic BP greater than 120 mmHg is diagnostic
- C. Nitroprusside causes an increase in myocardial oxygen demand
- D. GTN is the drug of choice in patient with pulmonary oedema
- E. If associated with renal impairment, red cell casts are seen in the urine
- 29. In bronchiectasis, which ONE of the following is FALSE
- A. Haemoptysis is common
- B. Clubbing may be present
- C. Wheezing may be evident
- D. Chest xray is always abnormal
- E. Adenovirus is a common cause
- 30. In right ventricular infarction, which ONE of the following is TRUE
- A. Kussmaul's sign may be present
- B. ST segment elevation is seen in V4 and V5
- C. Pulmonary oedema is a common feature
- D. Low dose GTN infusions will improve right ventricular contractility
- E. It usually occurs without any associated left ventricular infarction

- 31. All of the following are TRUE concerning anaphylaxis EXCEPT
- A. Adrenaline inhibits further mast cell mediator release.
- B. Aspirin is a frequent cause of IgE antibody formation.
- C. Biphasic reactions may be expected in up to 5% of acute presentations.
- D. Hypoxia is a more common cause of death than circulatory failure with hypotension.
- E. Perioperative anaphylaxis may be caused by latex allergy.
- **32.** The following are TRUE concerning malaria EXCEPT
- A. Primaquine is contraindicated in pregnancy and patients with G-6-PD deficiency.
- B. Hepatosplenomegaly is common
- C. Plasmodium falciparum may infect red cells of all ages
- D. A normal initial blood film rules out falciparum malaria.
- E. It is the most common parasitic disease in the world.
- 33. Concerning Emergency Department triage and departmental staffing, the following are TRUE EXCEPT
- A. The Australian Triage Scale is derived from an adaptation of the Ipswich Triage Scale.
- B. The Australian Council on Health Care Standards (ACHS) has adopted the Australasian Triage Scale as the basis of clinical indicators and performance measurement.
- C. There is a linear relationship between increasing Emergency Department medical staffing levels and a corresponding reduction in Emergency Department waiting times.
- D. Waiting-time by triage category may be used to reflect optimum staffing levels required in a given Emergency Department.
- E. Labour related expenditure is the largest component of the annual Emergency Department budget.
- 34. Concerning the pregnant patient, which ONE of the following is FALSE
- A. Tilting the patient or manually displacing the uterus to the left in late pregnancy prevents aortic compression with resultant supine hypotension syndrome.
- B. The rate of combined intrauterine and ectopic pregnancies occurring together is approximately 1:5000 in patients not receiving fertility treatment.
- C. Selected patients with an ectopic pregnancy may be managed with medial therapy such as methotrexate.
- D. Hyperemesis is characteristic of trophoblastic disease of the uterus such as "molar pregnancy".
- E. Rhesus-negative mothers may require anti-D immunoglobulin following trauma in pregnancy, spontaneous abortion, and ruptured ectopic pregnancy.

- 35. With respect to decontamination in poisoning, which ONE of the following is FALSE
- A. The use of activated charcoal alone may reduce adsorption by as much as 50 per cent
- B. There is no evidence to suggest that the addition of a cathartic such as sorbitol to activated charcoal improves clinical outcome.
- C. Ethanol does not bind well to activated charcoal.
- D. In whole bowel irrigation, polyethylene glycol should be administered via naso-gastric tube at a rate of 200ml/hr.
- E. Close monitoring of serum electrolytes is unnecessary during the procedure of whole bowel irrigation in paediatric patients.
- 36. With respect to snake envenomation, which ONE of the following is CORRECT
- A. The dose of polyvalent antivenom for an envenomated three year old would be one quarter of an ampoule.
- B. Anaphylaxis from antivenom is more likely to occur in paediatric patients
- C. A child should receive a 5 day course of prednisolone after administration of brown snake antivenom to prevent serum sickness.
- D. The most frequent presentation of death adder bite is with a consumption coagulopathy.
- E. Positive Venom Detection Kit from blood implies envenomation and is an indication for antivenom in the asymptomatic patient.
- 37. Concerning intravenous cannulation, which ONE of the following is CORRECT
- A. Ultrasound is of no proven benefit for central venous cannulation.
- B. Intraosseous cannulation is best used in children under the age of 6 years.
- C. Using cannulae greater than 16guage increases the risk of thrombophlebitis
- D. Intravenous cannulation should never be performed through burnt skin
- E. The correct size of a central venous line in a child less than 1 year is 6.0 FG
- 38. Regarding prehospital care of patients, which ONE of the following is CORRECT
- A. Prehospital endotracheal intubation is of no proven benefit in the management of head injured patients.
- B. Minimum volume resuscitation is only useful in controlled haemorrhage
- C. Hartmann's solution is superior to normal saline for fluid resuscitation
- D. Laryngeal masks prevent aspiration
- E. Time to defibrillation is the most significant factor to survival in out of hospital cardiac arrests.
- 39. Concerning nasal foreign bodies in children, which ONE of the following is FALSE

- A. Removal of nasal foreign bodies nearly always requires sedation.
- B. Beads, paper and toy parts are the commonest nasal foreign bodies in children 2-3 years of age.
- C. Nasal or facial cellulitis can indicate a chronic nasal foreign body.
- D. Nasal polyps can mimic symptoms of foreign bodies.
- E. Organic material is best imaged by CT
- 40. In patients presenting with hyperventilation, which ONE of the following is CORRECT
- A. In anxiety induced hyperventilation, the pH on arterial blood gases is normal.
- B. Hyperventilation is found in up 43% of patients presenting with dizziness
- C. An abnormal A-a gradient is found in all cases
- D. Tachypnoea and anxiety are the predominant presenting symptoms
- E. Anxiety induced hyperventilation is the least common cause of hyperventilation.
- 41. With respect to diabetic ketoacidosis in an 8 year old, which ONE of the following is FALSE
- A. Total body potassium is generally high due to dehydration
- B. The recommended dose of insulin is 0.1 unit/kg per hour
- C. Initial fluid replacement should be 20ml/kg fluid bolus over one hour.
- D. The complication or cerebral oedema, once clinically evident, has a mortality rate of over 90%
- E. Phosphate and calcium levels should be measured in diabetic ketoacidosis but are seldom of concern to the emergency physician.
- 42. With respect to diarrhoea, which ONE of the following is FALSE
- A. Tachycardia and decreased skin turgor suggest dehydration of approximately 3-5%.
- B. Loperamide poisoning may result in toxic dilatation and paralytic ileus in young infants
- C. As many as 50% of infants and young children infected with Giardia lamblia may be asymptomatic.
- D. The osmololality of commercial rehydration solutions is generally between 250 –350 mosm/L
- E. In patients with AIDS, cryptosporidiosis may cause a chronic diarrhoeal syndrome with significant morbidity and mortality
- 43. Pertaining to burn and inhalation injuries, which ONE of the following statements are FALSE?
- A. Five percent of patients with burns to the face have an inhalation injury.
- B. Respiratory obstruction often develops as result of soft tissue swelling at the time of maximal wound oedema between 12 and 36 hours.
- C. Especially in children, a burn to the neck skin may aggravate respiratory obstruction produced by inhalation of hot gases.

- D. The two most important intoxications occurring in association with burns are caused by carbon monoxide and cyanide.
- E. Carbon monoxide levels measured on arrival in hospital correlate well with the severity of the central nervous system symptoms of carbon monoxide intoxication.
- 44. Concerning renal colic, which ONE of the following is CORRECT
- A. Uric acid based stones account for approximately 70% of all renal stones.
- B. 50% of stones are radio-opaque.
- C. There is a 90% lifetime recurrence rate for patients with renal colic.
- D. 90% of stones are passed spontaneously.
- E. The incidence of urolithiasis shows no distinct geographical and climatic variability.
- 45. With regard to chest trauma, which ONE of the following statement is FALSE
- A. Up to 50% of fractured ribs are not apparent on initial chest X-ray.
- B. Admission and monitoring is not required for all patients with sternal fractures following blunt trauma.
- C. In patients with ruptured hemidiaphragm, radiographic findings of viscera in the thoracic cavity, nasogastric tube coiled in the thoracic cavity, or marked hemidiaphragm elevation are present only 50% of the time.
- D. Drainage of more than 1,500 ml following initial intercostal catheter insertion for haemothorax, or sustained blood loss of more than 200 ml per hour, are indications for thoracotomy
- E. The majority of pulmonary contusions will not be visible on chest x-ray within 6 hours post injury.
- 46. In isolated anterior penetrating abdominal trauma, which ONE of the following is FALSE
- A. Mandatory laparotomy following penetrating abdominal trauma has largely been abandoned.
- B. Local wound exploration is adequately performed by digitally probing the wound plus radiographic trajectograms with contrast material.
- C. If local wound exploration demonstrates no violation of the anterior fascia, the patient can be discharged home safely.
- D. Laparotomy is indicated in the presence of hypotension.
- E. Non operative management of splenic injury is less successful in adults than in children with failure rates as high as 20-30%
- 47. Concerning subarachnoid haemorrhage, which ONE of the following statement is INCORRECT
- A. Hypertension following subarachnoid haemorrhage cannot be controlled by analgesia and sedation alone.
- B. Four percent of patients rebleed within the first 24 hours after the initial haemorrhage and overall 20% of patients rebleed within the first 2 weeks.

- C. In the first 24 hours following haemorrhage, CT can demonstrate the presence of subarachnoid blood in 90-95%, but this decreases to 80% at 3 days and 50% at 1 week.
- D. Xanthrochomia is usually present within 6 hours and is detected in all patients between 12 hours and 2 weeks following the haemorrhage.
- E. Up to 50% of patients experience a sentinel haemorrhage in the hours to days prior to the major bleed.
- 48. Concerning hernias which ONE of the following is INCORRECT?
- A. A strangulated hernia is one in which the blood supply to the herniated structures is compromised.
- B. Umbilical hernias in infants occur in 10 20% of the population and most are spontaneously closed by the age of one
- C. Femoral hernias occur below the inguinal ligament.
- D. A Richters hernia is one in which incarceration of a single wall of hollow viscus occurs.
- E. Direct inguinal hernias rarely incarcerate while incarceration is common in femoral hemias and indirect inguinal hernias.
- **49.** Parents present their 18 month old male child with a fever of 39 degrees. History and examination reveal no evidence of focal infection. The child is otherwise well. Regarding investigation and management, which ONE of the following is CORRECT
- A. Full blood count, blood cultures, urine microscopy and culture, chest xray and admission for observation is warranted
- B. Full blood count, blood cultures, urine microscopy and culture and discharge with a planned review in 24 hours or sooner if indicated.
- C. Full blood count FBE, blood cultures, urine microscopy and culture, chest xray, lumbar puncture and discharge with a planned review in 24 hours or sooner if indicated.
- D. Full blood count, blood cultures, chest xray, chest xray, lumbar puncture and admission for observation
- E. Full blood count, blood cultures, chest xray and empiric 50mg ceftriaxone intramuscularly and admission for observation.
- 50 Which ONE of the following statements regarding analgesia in the emergency department is CORRECT.
- A. Parental narcotics are significantly more effective than NSAIDs in relieving renal colic pain.
- B. Splintage does not reduce pain in fractures
- C. The use of analgesia interferes with the assessment of abdominal pain.
- D. 10% of the population do not have the metabolic pathways to convert codeine to its active metabolite.
- E. Local swelling and itch at the site of intravenous morphine use indicates an allergy and precludes further use.
- 51. Concerning abdominal aortic aneurysm, which ONE of the following is INCORRECT
- A. Mortality for patients presenting with abdominal aortic aneurysm is 2-7% if asymptomatic and greater than 50% if symptomatic.

- B. An abdominal aortic aneurism is defined as a greater than 50% increase in aortic diameter.
- C. The classic triad of back pain, hypotension and pulsatile abdominal mass is present in approximately 50% of cases.
- D. Ultrasound has an almost 100% sensitivity in diagnosing a ruptured abdominal aortic aneurysm.
- E. Obesity is not a risk factor
- 52. Concerning pancreatitis, which ONE of the following is INCORRECT
- A. Alcoholism and cholelithiasis account for 80 90% of cases of pancreatitis.
- B. Prognostic indicators for severe pancreatitis include Ranson Criteria, Apache scores and the Balthazar CT scanning system.
- C. Severe pancreatitis causes multiorgan dysfunction (MOD) by activating systemic inflammatory response syndrome (SIRS).
- D. A lipase level of greater than three times the upper limit of normal is highly specific for pancreatitis.
- E. Ranson criteria include increased white cell count, increased liver enzymes, increased urea and creatinine, increased calcium and haematocrit together with hypoxia and acidosis.
- 53. Regarding compartment syndrome in a limb, which ONE of the following is CORRECT
- A. It is not commonly associated with long bone fractures
- B. The presence of a palpable arterial pulse excludes compartment syndrome.
- C. Pain is made worse by passively stretching the muscles
- D. Tissue pressure greater than 20mmHg impairs local circulation
- E. Chronic compartment syndromes are more common in the upper limb.
- 54. In a child with a "pulled elbow", which ONE of the following is INCORRECT
- A. It usually occurs between 1 and 3 years of age.
- B. The arm is held in pronation and slightly flexed.
- C. Reduction is achieved by supination, traction and flexing the elbow.
- D. Radiological examination is required to confirm the diagnosis.
- E. Supination of the elbow will cause pain.
- 55. In differentiating VT from SVT with aberrancy, which ONE of the following is CORRECT
- A. A widened QRS only occurs in SVT with aberrancy.
- B. In SVT with aberrancy there are capture beats.

- C. An irregular rhythm suggests SVT with aberrancy.
- D. In SVT with aberrancy there are fusion beats
- E. VT can never be bi-directional
- 56. In valvular heart disease, which ONE of the following is INCORRECT
- A. Mitral stenosis has a characteristic opening snap and a diastolic murmur.
- B. Mitral valve prolapse has an ejection click preceded by a systolic murmur.
- C. Aortic stenotic murmurs radiate to the neck with a soft second sound.
- D. Tricuspid stenosis is best heard at the left sternal edge.
- E. Graham Steell's murmur is heard in pulmonary hypertension.
- 57 In patients with aspiration pneumonia, which ONE of the following is CORRECT
- A. Aspiration is more likely in the elderly or obtunded.
- B. Endotracheal intubation will prevent aspiration
- C. Antibiotics are always indicated in aspiration pneumonia.
- D. Drug overdoses are the least common cause in young adults.
- E. Gastric acid is relatively non toxic to alveoli.
- 58. Concerning indications for CT scanning, which ONE of the following is CORRECT
- A. An adult with a minor head injury and GCS 15 requires a CT because of the risk of axonal brain injury.
- B. Children with minor head injuries require a CT if they remain symptomatic after a period of observation.
- C. Focal neurological deficit in head injury is not an indication for CT scan if the GCS is 15.
- D. In suspected subarachnoid haemorrhage, CT is indicated only if the CSF is positive for xanthachromia.
- E. Children with signs of raised intracranial pressure should have an LP before a CT is performed.
- 59. With respect to hand injuries. Which ONE of the following is INCORRECT
- A. Local and regional nerve blocks should be considered early for pain relief
- B. Assessment for nerve injury should ideally occur prior to the use of nerve blocks
- C. Any amputated digits should be placed directly in an ice slurry to preserve for possible reimplantation
- **D.** Antibiotics should cover both Gram +ve and Gram –ve organisms if there has been extensive wound soiling and devitalisation of tissue
- **E.** Assessment of flexor digitorum profundus tendon function involves flexing the distal interphalangeal joint whilst immobilising the proximal interphalangeal joint of the affected finger

- 60. Concerning acute myocardial infarction. Which ONE of the following statements is CORRECT
- **A.** Thrombolysis is the intervention of choice in a patient with an acute myocardial infarction complicated by cardiogenic shock
- B. A history of cerebrovascular disease is an absolute contraindication to thrombolysis
- C. Reperfusion arrhythmias usually require treatment
- D. The dose of rPA is two 10mg boluses 60 minutes apart
- E. Right ventricular involvement in an inferior myocardial infarction increases the mortality rate

Answers are asterixed *

- 1. A 29yo female presents with acute onset of dyspnoea and pleuritic chest pain. Which ONE of the following statements is CORRECT?
 - A. 80% of patients with pulmonary embolism will present with associated symptoms or signs of lower limb deep venous thrombosis.
 - B. Pleuritic chest pain is the most common presenting symptom of pulmonary embolus.
 - C. In pulmonary embolus, the Westermark sign seen on chest xray refers to a pleural–based density with a rounded border pointing toward the hilum.
 - D. A smoking history is not a risk factor for thromboembolic disease.*
 - E. In pulmonary embolism a ventilation-perfusion scan will show an area of abnormal ventilation in an area of normal perfusion.

Answer: D

Reference: Tintinalli 4th Edition. P371-372; Harrisons 13th Ed P.1216.

- **2.** A 4 week old baby presents with a 2 day history of dyspnoea and sweating whilst feeding. Which ONE of the following is INCORRECT?
 - A. Clinical differentiation of heart failure from non-cardiac causes in this age group is difficult.
 - B. Cardiomegaly on chest xray is usually present in congestive heart failure.
 - C. Patent ductus arteriosus is the most common cause of congestive heart failure at this age.*
 - D. The incidence of congenital heart disease is 8 per 1000 live births.
 - E. Raised jugular venous pressure, peripheral oedema, and lung crepitations are late signs in infants with congestive heart failure.

Answer: C

Reference: Tintinalli 4th Edition. P.601-602.

- 3. With respect to anorectal abscesses, which ONE of the following statements is INCORRECT?
 - A. The majority of infections begin in an anal crypt and its gland.
 - B. Carcinoma of adjacent organs should be considered with fistulous abscesses.
 - C. Perianal abscesses are the most common form of anorectal abscess.
 - D. Ischiorectal abscesses are usually confined superficially.*
 - E. Incision and drainage under general anaesthetic of anorectal abscesses is the most appropriate definitive treatment.

Answer: D.

Reference: Tintinalli 4th Edition. P.480-481.

- 4. In cerebrovascular accidents involving the middle cerebral artery, which ONE of the following is FALSE
 - A. Contralateral hemiplegia and hemianaesthesia will occur if the entire middle cerebral artery is occluded.
 - B. Middle cerebral artery occlusion is usually embolic in aetiology.
 - C. Homonymous hemianopia is a feature of middle cerebral artery occlusion.
 - D. A lateral medullary syndrome may be present.*
 - E. If the dominant lobe is involved aphasia will be present.

Answer D

References

Tintinalli 3rd edition pages 793-798; Harrisons 13th Ed p.2244

- 5. In peripheral nerve injuries of the upper limb, which ONE of the following is FALSE
 - A. Lower brachial plexus injuries are associated with distal upper limb weakness and atrophy.
 - B. Axillary nerve injuries produce paraesthesia in the lateral aspect of the forearm.*
 - C. The radial nerve may be injured in humeral shaft injuries.
 - D. Wasting of the thenar eminence can occur in carpal tunnel syndrome.
 - E. The claw-hand deformity of an ulnar nerve lesion is often more pronounced in the ring and little finger.

Answer B

References

Harrison's 2nd edition pages 2368-2378

Tintinalli 3rd edition pages 811-816

- 6. Which ONE of the following is TRUE of a L2 spinal cord lesion?
 - A. A sensory level at the inguinal crease.
 - B. Quadriceps activity is maintained.
 - C. Extensive autonomic dysfunction is common.
 - D. Hip flexion is maintained.*
 - E. Urinary retention is rare.

Answer D

References

Cameron pages 52-62

Tintanalli 3rd edition pages 922-927

- 7. Which ONE of the following is NOT an indication to X-ray according to the "Ottawa ankle and foot rules"
 - A. Inability to weight bear in the Emergency Department.
 - B. Bony tenderness over the medial cuneiform*.
 - C. Bony tenderness at the tip of the medial malleolus.
- D. Bony tenderness at the tip of the lateral malleolus.
- E. Bony tenderness at the base of fifth metatarsal.

Answer B

References

Implementation of the Ottawa Ankle Rules. JAMA 1994 vol 271, No. 11 pages 827-832

- 8. With regard to shoulder dislocations which ONE of the following is FALSE?
 - A. The usual mechanism of an anterior dislocation is abduction and internal rotation.*

- B. Seizures are a common cause of posterior dislocations.
- C. Paralysis of the deltoid is the most common muscle injury associated with anterior dislocations.
- D. There is about a 50% incidence of recurrence in the younger patient.
- E. The Hippocratic method of reduction involves traction and adduction.

Answer A

References

McRae 2nd edition pages 87-92

- 9. With regard to an irritable hip (transient synovitis) in children, which ONE of the following is TRUE?
 - A. The white cell count and erythrocyte sedimentation rate (ESR) are raised
 - B. The temperature is often elevated to greater than 38.0 degrees Celsius
 - C. X-ray of the hip is usually abnormal
 - D. An ultrasound of the hip is usually normal
 - E. None of the above*

Answer E

References

Paediatric Handbook 5th edition

- **10**. A 4 year old child presents with a facial laceration that you deem will require primary closure. With respect to providing analgaesia and sedation to perform the procedure, which ONE of the following is CORRECT?
 - A. Fentanyl is less likely than morphine to cause cardiovascular depression.*
 - B. The dose of midazolam is 0.1-0.15mg/kg orally.
 - C. Ketamine has only sedative properties.
 - D. Nitrous oxide has a rapid onset of action and a long duration of action.
 - E. In the event of opiate toxicity, the dose of naloxone is 1mcg/kg intravenously.

Answer: A

Reference: Tintinalli 4th Edition. P.253-255.

- 11. With respect to acute scrotal pain, which ONE of the following statements is INCORRECT?
- A. Peak incidence of testicular torsion occurs in adolescence.
- B. The "blue dot sign" is pathognominic of torsion of the appendix testis or epididymis.
- C. The presence of pyuria is diagnostic of epididymitis or epididymo-orchitis.*
- D. Acute scrotal pain may be the presenting symptom for testicular malignancy.
- E. Operative scrotal exploration is the definitive diagnostic test for testicular torsion.

Answer: C

Reference: Tintinalli 4th Edition. P 536-537.

- **12**. A 5year old child presents to your Emergency Department in status epilepticus. Which ONE of the following statements is CORRECT?
 - A. Approximately 40% of children with epilepsy will experience an episode of status epilepticus.
 - B. Blood gas analysis of a patient in status epilepticus will reveal a metabolic alkalosis.
 - C. Diazepam is effective in 80% of cases within 5 minutes.*
 - D. Absence or petit mal seizures never progress to status.
 - E. The oral dose of paraldehyde is 0.3ml/kg.

Answer: C

Reference: Tintinalli 4th Edition. P.650-651.

- 13. Following a paracetamol overdose which ONE of the following is CORRECT?
- A. The initial dose of N-acetylcysteine is 120mg/kg given over one hour.
- B. The Rumack-Matthew nomogram is useful between 4 and 24 hours post-ingestion.
- C. Toxicity is more likely when associated with acute alcohol ingestion.
- D. In a patient on long-term carbamazepine and a serum paracetamol level of 90mg/l at 8 hours, N-acetylcysteine should be considered.*
- E. Elevation of AST, ALT, and LDH are usually apparent within the first 8 hours following ingestion.

Answer: D.

14. With regards to encephalitis, which ONE of the following is CORRECT

- A. It may be associated with influenza, measles and rubella*.
- B. A cerebral CT scan will not assist in the diagnosis.
- C. Meningism is always a feature.
- D. Acyclovir should be given at a dose of 100mg/kg every 8 hours.
- E. Neurological signs are not a feature.

Answer: A

- **15.** When differentiating between an organic brain syndrome and psychosis which ONE of the following is CORRECT
- A. Patients with an organic brain syndrome are more agitated.
- B. Disorientation is not a feature of psychosis.
- C. Abnormal vital signs suggest psychosis.
- D. Fixed delusions suggest psychosis.*
- E. First presentation of a mental disorder in an older patient suggests psychosis.

Answer: D

- 16. With regards to assessing patients with renal failure, which ONE of the following is CORRECT
- A. A plasma urea to creatinine ratio of less than 20:1 suggests pre-renal failure.
- B. Red blood cell casts may suggest underlying vasculitis.*
- C. A 50% reduction in renal function is always associated with a rise in serum creatinine.
- D. Encephalopathy and pericarditis are not indications for haemodialysis in acute renal failure.
- E. Hypomagnesaemia is more likely in chronic renal failure.

Answer: B

- **17.** When managing patients following a selective serotonin reuptake inhibitor (SSRI) overdose, which ONE of the following is CORRECT?
- A. The serotonin syndrome is dose-dependant.
- B. Cardiotoxicity is common.
- C. Movement disorders do not occur in acute overdose.
- D. Haemodialysis is useful in severe overdose.
- E. Seizures are uncommon.*

Answer: E

- **18.** With respect to childhood infectious diseases, which ONE of the following is CORRECT?
- A. The infectious period for chicken pox is from the onset of the rash to 5 days after the first crop of vesicles appear.
- B. A child with whooping cough (B.pertussis) infection should be excluded from childcare for the first 2 days of a 7 day course of antibiotics.
- C. Mumps infection is a notifiable infectious disease.
- D. Congenital rubella syndrome occurs in up to 30% of infants born to women with rubella in the first trimester of pregnancy.
- E. Measles (rubeola) is a notifiable disease.*

Answer: E.

- **19.** All of the following can be a precipitant of hepatic encephalopathy in a patient with end stage liver disease EXCEPT
- A. Constipation
- B. Acute Bacterial Peritonitis
- C. Temazepam
- D. Hyperkalaemia*
- E. Urinary tract infection

(Answer D - Harrisons 10th Ed; P1493 Tintinalli Ed 4 p 965)

- 20. Which ONE of the following statements concerning the unconscious patient is INCORRECT?
- A. Patients with the 'locked in syndrome" have a lesion in their ventral pontine motor tracts
- B. In patients with the "locked in syndrome", the only movement possible is vertical eye movement
- C. Anticoagulation is an important part of the treatment of patients with non-ketotic, hyperosmolar coma.
- D. An adult with no spontaneous eye opening, inappropriate verbal response and extensor motor response has a Glasgow Coma Score of 5^*
- E. The modified Glasgow Coma Score for paediatrics has a top score of 9 for infants under 6 months of age

(Answer D - Harrisons 10th Ed; P1493 Tintinalli Ed 4 p 150-158, 746 T.E. Oh Ed 4 pp933-4; Lancet August 21 1982, p450)

- 21. Which ONE of the following drugs is NOT associated with hyponatraemia?
- A. Mannitol
- B. Phenytoin*
- C. Frusemide
- D. Carbemazapine
- E. Octreotide

(Answer B - Harrisons 13th Ed p.407)

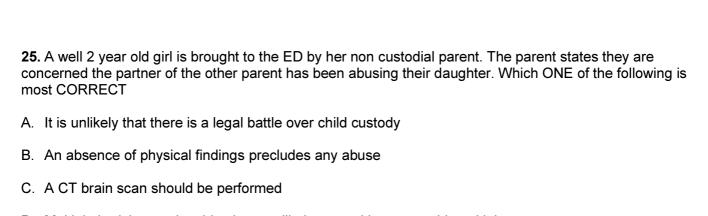
- 22. The following statements about hypothyroidism are all correct EXCEPT
- A. In the elderly patient the signs can be confused with Alzheimer's disease or Parkinson's disease.
- B. Hypothyroidism can cause menorrhagia and carpal tunnel syndrome
- C. Hypothyroidism can cause localized pretibial myxedema*
- D. The dose of intravenous thyroxine is 400-500 micrograms given slowly for the treatment of myxoedema coma
- E. The dose of intravenous triiodothyronine is 25-50 micrograms given slowly for the treatment of myxoedema coma

(Answer C - Harrsion's Ed 13 pp1940-1944; Tintinalli Ed 4 p 965)

- 23. Which ONE of the following statements relating to external cardioversion and defibrillation is CORRECT
- A. Electrical cardioversion of atrial fibrillation is more likely to be associated with an embolic complication than pharmacological cardioversion.
- B. The defibrillation threshold is lower using biphasic waveform defibrillators.*
- C. The energy requirement for successful defibrillation decreases with the duration of VF.
- D. Defibrillation is dependent on sufficient energy being delivered to depolarise the myocardium.
- E. Transthoracic impedance increases with larger defibrillator pads or paddles.
- 24. With regards to injuries to the eye, all of the following statements are TRUE EXCEPT
- A. Acid burns are potentially more serious than alkali burns*
- B. Corneal ulcers caused by welding heal quickly over 24-36 hours
- C. A "tear-drop" shaped pupil is a sign of a full thickness corneal laceration
- D. Subconjunctival haemorrhage from trivial trauma resolves spontaneously over 10-14 days
- E. The initial injury resulting in an intraocular foreign body is usually painless

(Answer A – Tintinalli Ed 4 p834; Brown Ed 2000 pp 280-96)

Update Tintinalli for latest edition



- D. Multiple bruising on the shins is most likely caused by non accidental injuryE. An old fracture of the ribs is more suspicious than an old fracture of the tibia*
- Answer E
 Ref Tintinalli 4th Ed p 1367- 1370. Rosen 4th Ed
 - 26. With respect to cervical spine xrays in children, which ONE of the following is CORRECT
 - A. Air in the prevertebral space is always abnormal*
 - B. A normal predental space may be twice as wide as that seen in an adult
 - C. The odontoid peg does not fuse to the vertebral body until after the age of 4
 - D. Subluxation at C2/C3 is normal
 - E. The normal retropharyngeal space at C2 should be less than 7mm

Answer A
Ref Tintinalli. Rosen 4th Ed 483-486

- 27. With respect to asthma which ONE of the following is TRUE
- A. An elevated white cell count is more likely to be due to infection in children
- B. Respiratory function testing is unreliable in most primary school aged children
- C. A chest xray should be performed
- D. The indication for steroids is the same in adults and children*
- E. Intubation should be performed if the pCO2 is elevated

Answer D Ref Tintinalli 4th ED, Rosen 4th ed 1470 - 1485

- 28. Which ONE of the following statements about malignant hypertension is FALSE
- A. BP should be rapidly lowered by 30% over 30-60 mins
- B. Diastolic BP greater than 120 mm Hg is diagnostic.
- C. Nitroprusside causes an increase in myocardial oxygen demand.*

- D. GTN is the drug of choice in patient with pulmonary oedema
- E. If associated with renal impairment, red cell casts are seen in the urine

Answer (

REF Tintinalli 4th ed p374-379. Harrison's On line

- 29. In bronchiectasis, which ONE of the following is FALSE
- A. Haemoptysis is common
- B. Clubbing may be present
- C. Wheezing may be evident.
- D. Chest xray is always abnormal *
- E. Adenovirus is a common cause

Answer

Ref Harrison's On line, Oxford text of Medicine

- 30. In right ventricular infarction, which ONE of the following is TRUE
- A. Kussmaul's sign may be present*
- B. ST segment elevation is seen in V4 and V5
- C. Pulmonary oedema is a common feature
- D. Low dose GTN infusions will improve right ventricular contractility
- E. It usually occurs without any associated left ventricular infarction

Answer A

Ref Tintinalli 4th ED p332-5 Rosen 4th ed p1674, 1698

- 31. All of the following are TRUE concerning anaphylaxis EXCEPT
 - A. Adrenaline inhibits further mast cell mediator release.
 - B. Aspirin is a frequent cause of IgE antibody formation.*
 - C. Biphasic reactions may be expected in up to 5% of acute presentations.
 - D. Hypoxia is a more common cause of death than circulatory failure with hypotension.
 - E. Perioperative anaphylaxis may be caused by latex allergy.

- 32. The following are TRUE concerning malaria EXCEPT
 - A. Primaquine is contraindicated in pregnancy and patients with G-6-PD deficiency.
 - B. Hepatosplenomegaly is common
 - C. Plasmodium falciparum may infect red cells of all ages
 - D. A normal initial blood film rules out falciparum malaria.*
 - E. It is the most common parasitic disease in the world.
 - 33. Concerning Emergency Department triage and departmental staffing, the following are TRUE EXCEPT
 - A. The Australian Triage Scale is derived from an adaptation of the Ipswich Triage Scale.
 - B. The Australian Council on Health Care Standards (ACHS) has adopted the Australasian Triage Scale as the basis of clinical indicators and performance measurement.
 - C. There is a linear relationship between increasing Emergency Department medical staffing levels and a corresponding reduction in Emergency Department waiting times.*
 - D. Waiting-time by triage category may be used to reflect optimum staffing levels required in a given Emergency Department.
 - E. Labour related expenditure is the largest component of the annual Emergency Department budget.
- **34.** Concerning the pregnant patient, which ONE of the following is FALSE
 - A. Tilting the patient or manually displacing the uterus to the left in late pregnancy prevents aortic compression with resultant supine hypotension syndrome.*
 - B. The rate of combined intrauterine and ectopic pregnancies occurring together is approximately 1:5000 in patients not receiving fertility treatment.
 - C. Selected patients with an ectopic pregnancy may be managed with medial therapy such as methotrexate.
 - D. Hyperemesis is characteristic of trophoblastic disease of the uterus such as "molar pregnancy".
 - E. Rhesus-negative mothers may require anti-D immunoglobulin following trauma in pregnancy, spontaneous abortion, and ruptured ectopic pregnancy.
- 35. With respect to decontamination in poisoning, which ONE of the following is FALSE
 - A. The use of activated charcoal alone may reduce adsorption by as much as 50 per cent
 - B. There is no evidence to suggest that the addition of a cathartic such as sorbitol to activated charcoal improves clinical outcome.

- C. Ethanol does not bind well to activated charcoal.
- D. In whole bowel irrigation, polyethylene glycol should be administered via naso-gastric tube at a rate of 200ml/hr.*
- E. Close monitoring of serum electrolytes is unnecessary during the procedure of whole bowel irrigation in paediatric patients.
- 36. With respect to snake envenomation, which ONE of the following is CORRECT
 - A. The dose of polyvalent antivenom for an envenomated three year old would be one quarter of an ampoule.
 - B. Anaphylaxis from antivenom is more likely to occur in paediatric patients
 - C. A child should receive a 5 day course of prednisolone after administration of brown snake antivenom to prevent serum sickness.*
 - D. The most frequent presentation of death adder bite is with a consumption coagulopathy.
 - E. Positive Venom Detection Kit from blood implies envenomation and is an indication for antivenom in the asymptomatic patient.
- 37. Concerning intravenous cannulation, which ONE of the following is CORRECT
 - A. Ultrasound is of no proven benefit for central venous cannulation.
 - B. Intraosseous cannulation is best used in children under the age of 6 years.*
 - C. Using cannulae greater than 16guage increases the risk of thrombophlebitis
 - D. Intravenous cannulation should never be performed through burnt skin
 - E. The correct size of a central venous line in a child less than 1 year is 6.0 FG
- 38. Regarding prehospital care of patients, which ONE of the following is CORRECT
 - A. Prehospital endotracheal intubation is of no proven benefit in the management of head injured patients.
 - B. Minimum volume resuscitation is only useful in controlled haemorrhage
 - C. Hartmann's solution is superior to normal saline for fluid resuscitation
 - D. Laryngeal masks prevent aspiration
 - E. Time to defibrillation is the most significant factor to survival in out of hospital cardiac arrests.*
- 39. Concerning nasal foreign bodies in children, which ONE of the following is FALSE
 - A. Removal of nasal foreign bodies nearly always requires sedation.*

- B. Beads, paper and toy parts are the commonest nasal foreign bodies in children 2-3 years of age.
- C. Nasal or facial cellulitis can indicate a chronic nasal foreign body.
- D. Nasal polyps can mimic symptoms of foreign bodies.
- E. Organic material is best imaged by CT
- 40. In patients presenting with hyperventilation, which ONE of the following is CORRECT
 - A. In anxiety induced hyperventilation, the pH on arterial blood gases is normal.
 - B. Hyperventilation is found in up 43% of patients presenting with dizziness
 - C. An abnormal A-a gradient is found in all cases
 - D. Tachypnoea and anxiety are the predominant presenting symptoms*
 - E. Anxiety induced hyperventilation is the least common cause of hyperventilation.
- 41. With respect to diabetic ketoacidosis in an 8 year old, which ONE of the following is FALSE
 - A. Total body potassium is generally high due to dehydration*
 - B. The recommended dose of insulin is 0.1 unit/kg per hour
 - C. Initial fluid replacement should be 20ml/kg fluid bolus over one hour.
 - D. The complication or cerebral oedema, once clinically evident, has a mortality rate of over 90%
 - E. Phosphate and calcium levels should be measured in diabetic ketoacidosis but are seldom of concern to the emergency physician.
- 42. With respect to diarrhoea, which ONE of the following is FALSE
 - A. Tachycardia and decreased skin turgor suggest dehydration of approximately 3-5%.*
 - B. Loperamide poisoning may result in toxic dilatation and paralytic ileus in young infants
 - C. As many as 50% of infants and young children infected with Giardia Lamblia may be asymptomatic.
 - D. The osmololality of commercial rehydration solutions is generally between 250 –350 mosm/L
 - E. In patients with AIDS, cryptosporidiosis may cause a chronic diarrhoeal syndrome with significant morbidity and mortality
- 43. Pertaining to burn and inhalation injuries, which ONE of the following statements is FALSE?
 - A. Five percent of patients with burns to the face have an inhalation injury.

- B. Respiratory obstruction often develops as result of soft tissue swelling at the time of maximal wound oedema between 12 and 36 hours.
- C. Especially in children, a burn to the neck skin may aggravate respiratory obstruction produced by inhalation of hot gases.
- D. The two most important intoxications occurring in association with burns are caused by carbon monoxide and cyanide.
- E. Carbon monoxide levels measured on arrival in hospital correlate well with the severity of the central nervous system symptoms of carbon monoxide intoxication.*
- 44. Concerning renal colic, which ONE of the following is CORRECT
 - A. Uric acid based stones account for approximately 70% of all renal stones.
 - B. 50% of stones are radio-opaque.
 - C. There is a 90% lifetime recurrence rate for patients with renal colic.
 - D. 90% of stones are passed spontaneously.*
 - E. The incidence of urolithiasis shows no geographical and climatic variability.
- 45. With regard to chest trauma, which ONE of the following statement is FALSE
 - A. Up to 50% of fractured ribs are not apparent on initial chest X-ray.
 - B. Admission and monitoring is not required for all patients with sternal fractures following blunt trauma.
 - C. In patients with ruptured hemidiaphragm, radiographic findings of viscera in the thoracic cavity, nasogastric tube coiled in the thoracic cavity, or marked hemidiaphragm elevation are present only 50% of the time.
 - D. Drainage of more than 1,500 ml following initial intercostal catheter insertion for haemothorax, or sustained blood loss of more than 200 ml per hour, are indications for thoracotomy
 - E. The majority of pulmonary contusions will not be visible on chest x-ray within 6 hours post injury.*

- 46. In isolated anterior penetrating abdominal trauma, which ONE of the following is FALSE
 - A. Mandatory laparotomy following penetrating abdominal trauma has largely been abandoned.
 - B. Local wound exploration is adequately performed by digitally probing the wound plus radiographic trajectograms with contrast material.*

- C. If local wound exploration demonstrates no violation of the anterior fascia, the patient can be discharged home safely.
- D. Laparotomy is indicated in the presence of hypotension.
- E. Non operative management of splenic injury is less successful in adults than in children with failure rates as high as 20-30%
- 47. Concerning subarachnoid haemorrhage, which ONE of the following statement is INCORRECT
 - A. Hypertension following subarachnoid haemorrhage cannot be controlled by analgesia and sedation alone.*
 - B. Four percent of patients rebleed within the first 24 hours after the initial haemorrhage and overall 20% of patients rebleed within the first 2 weeks.
 - C. In the first 24 hours following haemorrhage, CT can demonstrate the presence of subarachnoid blood in 90-95%, but this decreases to 80% at 3 days and 50% at 1 week.
 - D. Xanthrochomia is usually present within 6 hours and is detected in all patients between 12 hours and 2 weeks following the haemorrhage.
 - E. Up to 50% of patients experience a sentinel haemorrhage in the hours to days prior to the major bleed.
- 48. Concerning hernias which ONE of the following is INCORRECT?
 - A. A strangulated hernia is one in which the blood supply to the herniated structures is compromised.
 - B. Umbilical hernias in infants occur in 10 20% of the population and most are spontaneously closed by the age of one.*
 - C. Femoral hernias occur below the inguinal ligament.
 - D. A Richters hernia is one in which incarceration of a single wall of a hollow viscus occurs.
 - E. Direct inguinal hernias rarely incarcerate while incarceration is common in femoral hemias and indirect inguinal hernias.
- **49.** Parents present their 18 month old male child with a fever of 39 degrees. History and examination reveal no evidence of focal infection. The child is otherwise well. Regarding investigation and management, which ONE of the following is CORRECT?
 - A. Full blood count, blood cultures, urine microscopy and culture, chest xray and admission for observation is warranted
 - B. Full blood count, blood cultures, urine microscopy and culture and discharge with a planned review in 24 hours or sooner if indicated.*
 - C. Full blood count FBE, blood cultures, urine microscopy and culture, chest xray, lumbar puncture and discharge with a planned review in 24 hours or sooner if indicated.
 - D. Full blood count, blood cultures, chest xray, chest xray, lumbar puncture and admission for observation
 - E. Full blood count, blood cultures, chest xray and empiric 50mg ceftriaxone intramuscularly and admission for observation.

- 50 Which ONE of the following statements regarding analgesia in the emergency department is CORRECT.
 - A. Parental narcotics are significantly more effective than NSAIDs in relieving renal colic pain.
 - B. Splintage does not reduce pain in fractures
 - C. The use of analgesia interferes with the assessment of abdominal pain.
 - D. 10% of the population do not have the metabolic pathways to convert codeine to its active metabolite.*
 - E. Local swelling and itch at the site of intravenous morphine use indicates an allergy and precludes further use.
- 51. Concerning abdominal aortic aneurysm, which ONE of the following is INCORRECT
 - A. Mortality for patients presenting with abdominal aortic aneurysm is 2-7% if asymptomatic and greater than 50% if symptomatic.
 - B. An abdominal aortic aneurism is defined as a greater than 50% increase in aortic diameter.
 - C. The classic triad of back pain, hypotension and pulsatile abdominal mass is present in approximately 50% of cases.
 - D. Ultrasound has an almost 100% sensitivity in diagnosing a ruptured abdominal aortic aneurysm.*
 - E. Obesity is not a risk factor
- **52.** Concerning pancreatitis, which ONE of the following is INCORRECT?
 - A. Alcoholism and cholelithiasis account for 80 90% of cases of pancreatitis.
 - B. Prognostic indicators for severe pancreatitis include Ranson Criteria, Apache scores and the Balthazar CT scanning system.
 - C. Severe pancreatitis causes multiorgan dysfunction (MOD) by activating systemic inflammatory response syndrome (SIRS).
 - D. A lipase level of greater than three times the upper limit of normal is highly specific for pancreatitis.
 - E. Ranson criteria include increased white cell count, increased liver enzymes, increased urea and creatinine, increased calcium and haematocrit together with hypoxia and acidosis.*
- 53. Regarding compartment syndrome in a limb, which ONE of the following is CORRECT
 - A. It is not commonly associated with long bone fractures
 - B. The presence of a palpable arterial pulse excludes compartment syndrome.
 - C. Pain is made worse by passively stretching the muscles*

- D. A tissue pressure greater than 20mmHg impairs local circulation.
- E. Chronic compartment syndromes are more common in the upper limb.
- 54. In a child with a "pulled elbow", which ONE of the following is INCORRECT?
 - A. It usually occurs between 1 and 3 years of age.
 - B. The arm is held in pronation and slightly flexed.
 - C. Reduction is achieved by supination, traction and flexing the elbow.
 - D. Radiological examination is required to confirm the diagnosis*
 - E. Supination of the elbow will cause pain.
- 55. In differentiating VT from SVT with aberrancy, which ONE of the following is CORRECT
 - A. A widened QRS only occurs in SVT with aberrancy.
 - B. In SVT with aberrancy there are capture beats
 - C. An irregular rhythm suggests SVT with aberrancy.*
 - D. In SVT with aberrancy there are fusion beats
 - E. VT can never be bi-directional
- 56. In valvular heart disease, which ONE of the following is INCORRECT
 - A. Mitral stenosis has a characteristic opening snap and a diastolic murmur.
 - B. Mitral valve prolapse has an ejection click preceded by a systolic murmur.*
 - C. Aortic stenotic murmurs radiate to the neck with a soft second sound.
 - D. Tricuspid stenosis is best heard at the left sternal edge.
 - E. Graham Steell's murmur is heard in pulmonary hypertension.
- 57 In patients with aspiration pneumonia, which ONE of the following is CORRECT?
 - A. Aspiration is more likely in the elderly or obtunded.*
 - B. Endotracheal intubation will prevent aspiration
 - C. Antibiotics are always indicated in aspiration pneumonia.
 - D. Drug overdoses are the least common cause in young adults.
 - E. Gastric acid is relatively non toxic to alveoli.

- **58.** Concerning indications for CT scanning, which ONE of the following is CORRECT?
 - A. An adult with a minor head injury and GCS 15 requires a CT because of the risk of axonal brain injury.
 - B. Children with mild head injuries require a CT if they remain symptomatic after a period of observation.*
 - C. Focal neurological deficit in head injury is not an indication for CT scan if the GCS is 15.
 - D. In suspected subarachnoid haemorrhage, CT is indicated only if the CSF is positive for xanthachromia.
 - E. Children with signs of raised intracranial pressure should have an LP before a CT is performed.