

Questions with * are mentioned more than once so focus on them & their topics in general

- 1- Regarding abdominal wall hernias:
- A. Are 2nd to adhesions as a cause of strangulated intestinal obstruction
- B. 20% of inguinal hernias are indirect
- C. In women inguinal hernias are less common than femoral hernias
- The mortality associated with bowel strangulation is over 10%
- E. Trial reduction of pediatric inguinal hernias is not recommended
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- 2- Regarding the femoral canal, all of the following statements are true EXCEPT:
- A. Lies medial to the femoral vein
- B. Has the inguinal ligament as its anterior border
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 Answer: C
- 3- Which of the following organisms is not a gastrointestinal source of peritonitis?*

(2)50

- A. bacteroids
- B)chlamydia
- C. escherichia coli
- D. clostridium
- E. streptococci
- 4- All of the following is a risk factor for developing Clostridium Difficile Colitis EXCEPT:
- A. Prolonged intravenous antibiotics
- B) Contraceptive pills For Hapatic adenoma
- C. Mal-nutrition
- D. Steroids
- E. Proton pump inhibitor



- 5- All of the following are true about Fournier gangrene EXCEPT:
- A. More in elderly patient
- B. Affect patient with significant comorbidity
- Fournier gangrene: Necrotizing fasciitis of the external genitalia that can spread rapidly to the anterior abdominal wall and gluteal muscles. 👺 · Clostridial myonecrosis: a rapidly spreading necrotizing infection caused by Clostridium perfringens or Clostridium septicum (see "Gas gango

- C. Caused by mixed organisms
- D. If it affects the scrotum in males, debridement and orchidectomy is essential
- E. Carries a high risk of mortality



6- A 23-year-old male patient, presented with right forearm pain for one day duration after aggressive scratching, exam showed an area at the forearm with hotness, redness and tenderness. All of the following is true about the above condition EXCEPT:

- A. Elevation of the patient's arm is part of the treatment
- B. Antibiotics need to be started
- C. The cause of this pathology is most likely gram-positive organism
- D. Underlying osteomyelitis is a common predisposing factor:
- E. Axillary lymph node might be palpable



- 7- Which statement regarding the management of hypernatremia is INCORRECT:
- A. Hypernatremia, if not corrected, has a high mortality rate
- B. It may exist in the presence of low, normal or high effective circulating volume 🗸
- C. Hypotonic fluid therapy may be given by mouth, by tap water enema or parenterally
- (D) The aim of fluid replacement is to decrease serum osmolality gradually by

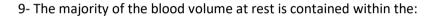
about 10 mOsm/hour <

E. May be associated with major burn

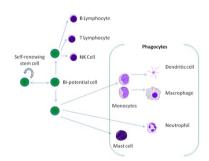
Correction of free water deficit [2][4]

- - Decrease Na⁺ concentration by **1–2 mEq/L/hour** (i.e., replace entire free water deficit in < 24 hours). [4]
- Chronic hypernatremia (onset within > 48 hours)
- Gradually restore a normal Na* level by decreasing Na* concentration by 0.5 mEq/L/hour (max. 10-12 mEq/L per 24 hours).
 Oral rehydration with free access to water may be sufficient in stable and alert patients.

- 8- A 70 kg man with pyloric obstruction resulting from ulcer disease is admitted to the hospital for resuscitation after 1 week of prolonged vomiting. What metabolic disturbance is expected to occur?*
- A. Hypokalemic hyperchloremic metabolic acidosis
- B. Hyperkalemic hypochloremic metabolic alkalosis
- C. Hyperkalemic hyperchloremic metabolic acidosis
- D. Hypokalemic hypochloremic metabolic alkalosis
- E. Hypokalemic hypernatremic hypochloremic metabolic acidosis



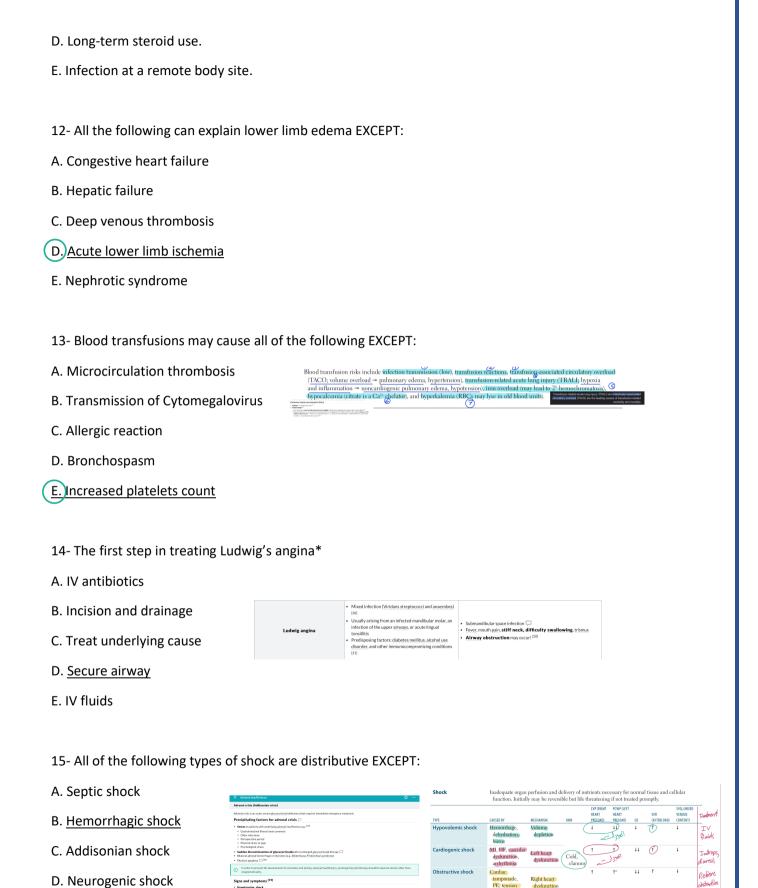
- A. Arterial system.
- B. Capillary bed.
- C. Portal circulation.
- D. Pulmonary circulation.
- (E.) Venous system.
- 10- Which group of the following cells is NOT phagocytic in nature?
- A. Neutrophil polymorphonuclear leucocytes.
- B. Lymphocytes.
- C. Microglial cells.
- D. Macrophages.
- E. Kupffer cells.



- 11- All of the following are associated with increased likelihood of surgical site infection after major elective surgery, EXCEPT**
- A. Age over 70 years.
- B. Chronic malnutrition.
- (C.)Controlled diabetes mellitus.







CNS injury

E. Anaphylaxis

16- The GCS (Glasgow Coma Scale) of a patient who responds with inappropriate words, opens eye to painful stimuli, and flexing in response to pain is*

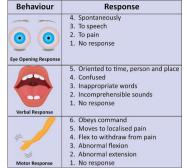
A. 6

B. 8

C. 7

D. 10

E.)9



17- Regarding sepsis and septic shock, all of the following are true EXCEPT*

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- A. Sepsis is a clinical syndrome of life-threatening organ dysfunction caused by a dysregulated response to infection.
- B. IV fluids challenge with 20-30 ml/kg is the first method used to restore perfusion.

C. Intra-venous antibiotics could be delayed up to 6 hours until specimens of

blood, have been taken for Gram stain and culture.

- D. The source of infection should be controlled as early as possible.
- E. Estimates of successful reperfusion include ScvO2 (Central Venous saturation) and lactate clearance.
- Approach PI

 Natid evaluation

 Printer survival residual devaluation

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- 18- One of the following does NOT fit the definition of Massive Blood transfusion:
- A. Replacement of one entire blood volume within 24 h.
- B. Transfusion of >10 units of packed red blood cells (PRBCs) in 24 h.
- C. Transfusion of >4 units of PRBCs in 1 h when on-going need is foreseeable.
- D. Replacement of 50% of total blood volume (TBV) within 3 h.
- E. The need to transfuse fresh frozen plasma to correct the Coagulopathy of

blood transfusion.

Massive transfusion

Definition

- The replacement of a large volume of blood in response to massive hemorrhage
- $\bullet \ \ \text{There is no universal threshold for a } \underline{\text{massive transfusion; proposed values include:}} \ [54][55]$
 - o Complete replacement of a patient's blood volume (~ 10 units of RBCs) within 24 hours
 - Replacement of ≥ 50% of a patient's blood volume (\sim 5 units of <u>RBCs</u>) within 3 hours
 - o Blood loss replacement at a rate of > 150 mL/minute
 - ∘ Transfusion of ≥ 3 units of pRBCs within 1 hour





19- Regarding Enteral Nasogastric tube feeding, one of the following is CORRECT

A. Highly thrombogenic.

B. Used in patients with the short gut syndrome.

C. A potential cause of abdominal cramps and diarrhea.

- D. More likely to cause septic complications than parenteral nutrition.
- E. Contraindicated in patients after a cerebrovascular accident.
- 20- All the following are contraindications to major elective surgery requiring general anesthesia, EXCEPT:
- A. Myocardial infarction 2 months ago.
- B. Preoperative serum potassium of 2.5 mmol/liter in a patient on diuretic therapy.

- C.) Previous mitral valve replacement.
- D. A resolving upper respiratory tract infection.
- E. Stroke within 4 months before surgery.
- 21- Potential sites of hemorrhage leading to hypotensive chock in children and adolescents include all the following EXCEPT:
- A. Thorax
- B. Abdomen

الفكرة بانك النيف هون مش كما يحميم C. Intracranial :

D. Pelvis

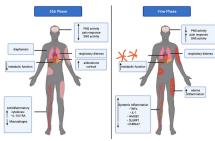
E. Femur

22- Which phase of hypermetabolic state can last for an extended period of time

leading to adverse nutritional status?

A. Ebb phase

B. Flow phase



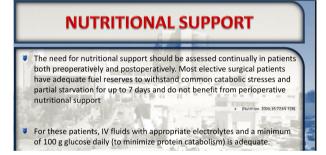
- C. Cycling phase
- D. Imbalance phase
- E. Healing phase
- 23- All of the following is an obligatory glucose user EXCEPT:
- A. Red Blood Cells
- B. Cardiac Muscles
- C. Renal Medulla
- D. Bone Marrow
- E. Brain

Healthy myocardium uses mainly fatty acids as its major energy source, with little contribution of glucose. However, lactate, ketone bodies, amino acids or even acetate can be oxidized under certain circumstances.

GII

24- To prevent gluconeogenesis, glucose administration must be carefully monitored, the protein sparing effect of glucose administration begins to be manifested after administration of how much glucose?*

- A. 100 gm
- B. 200 gm
- C. 75 gm
- D. 300 gm
- E. 500 gm



- 25-Regarding abdominal surface anatomy, all of the following are true EXCEPT*
- A. The abdomen can be divided into 4 quadrants.
- B. The trans pyloric plane is at the level of L1

above

- C. The deep inguinal ring is 1.25cm below the mid inguinal point
- D. McBurney's point in located one third distance between anterior superior iliac spine and the umbilicus
- E. The umbilicus is normally situated mid-way between the xyphoid process and the symphysis pubis

26- Surgical wounds are classified based on the presumed magnitude of the bacterial load at the time of surgery. The best to represent a clean/contaminated (class II)

wound is*

- A. Penetrating abdominal trauma
- B. Large tissue injury
- C. Elective upper GI surgery
- D. Enterotomy during bowel obstruction
- E. Perforated diverticulitis

	ypes of Surgery	
Clean	Hernia repair breast biopsy	1.5%
Clean- Contaminated	Cholecystectomy Elective bowel resection	2-5%
Contaminated	Emergency bowel resection	5-30%
Dirty/infected	Perforation, abscess	5-30%

27- A 68-year-old woman underwent tracheostomy for prolonged intubation, 2 weeks later she developed brisk bright red bleeding from the tracheostomy site that resolved without intervention. Her Hb is 10.2 g/dL, and coagulation studies are normal. What is the most likely diagnosis?

- A. Pneumonia
- B. Tracheitits
- (C) Bleeding of granulation tissue in the stoma
- E. Bleeding from the anterior jugular vein: early complication, not after 2 weeks

28-45-year-old male, non-diabetic scheduled for laparoscopic cholecystectomy, the best antimicrobial prophylaxis that have significantly lower overall infectious complications is:

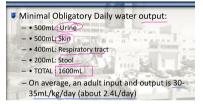
- (A.)Cephazolin
- B. Cefuroxime sodium
- C. Ceftriaxone
- D. Gentamycin
- E. Metronidazole

· Cefazolin for perioperative wound infection prophylaxis (covers S. aureus)

- 29- For a feeding gastrostomy all are true EXCEPT:
- A. It can be either a temporary or a permanent method of feeding.
- B. Is safer than intravenous feeding.
- C. It is usually created endoscopically.

- Tracheobronchial aspiration of tube feeds
 - may occur with patients who are fed into the stomach or proximal small intestine and can lead to major morbidity.
 - Precautions include frequent assessment of gastric residuals as well as head of bed elevation.
- D.) The risk of aspiration is less than jejunostomy feeding.
- E. Does not require surgical closure after cessation of feeding.
- 30- For a 70 kg man, the minimum acceptable urine output is:
- A. 7 ml/ hour.
- B. 70 ml/ hour.
- C. 35 ml/ hour.
- D. 100 ml/ hour.
- E. 105 ml/ hour.

Normal urine output in a healthy individual should be between 0.5-1.5 mL/kg/hour, and patients should generally be urinating at least every 6 hours. Oliguria is defined as the production of inadequate volumes of urine (<500 ml/day in adults, <0.5 mL/kg/hour in children, and <1.0 mL/kg/hour in infants).

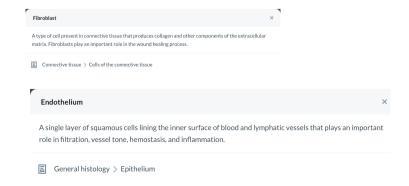


- 31- Sequence of return of gastrointestinal motility after abdominal surgery is*
- A. intestine, stomach, colon
- B. stomach, intestine, colon
- C. colon, intestine, stomach
- D. colon, stomach, intestine
- E. stomach, colon, intestine

TSC



- 32- The principal types of proliferating cells in granulation tissue are:
- A. Fibroblasts and macrophages
- B) Fibroblasts and endothelial cells
- C. Leukocytes and endothelial cells
- D. Lymphocytes and fibroblasts
- E. Macrophages and leukocytes



33- Deficiency of which of the following vitamins influence wound healing?*

A. Vitamin A

B. Vitamin B6

C. Vitamin B12

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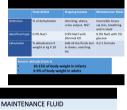
D. Vitamin C

Delayed wound healing or chronic wound formation

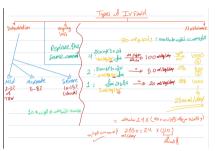
- Usually occurs in patients with multiple risk factors that cause slowing or failure to progress through one or more stages of wound healing
- E. Vitamin D
- The proliferative wound healing phase is delayed in individuals with copper and vitamin C deficiency.
 Zinc deficiency can delay wound healing because the collagenases responsible for collagen remodeling require zinc to function properly.

34- For a 70 kg healthy patient the postoperative maintenance fluids should be around*

- a. 1800 ml per 24 hours.
- b. 2800 ml per 24 hours.
- c. 3800 ml per 24 hours.
- d. 4800 ml per 24 hours.
- e. 5800 ml per 24 hours

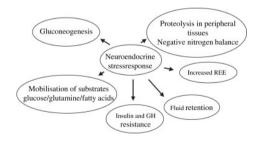






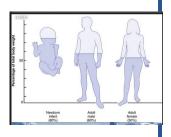


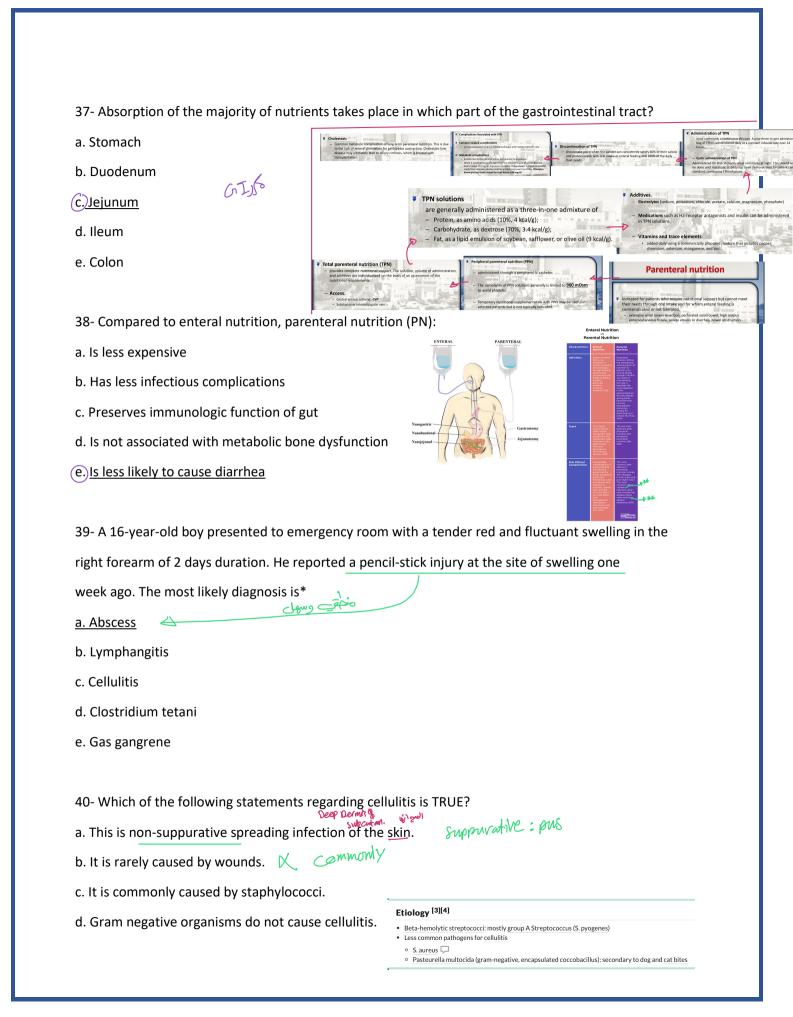
- 35- All the following are metabolic effects of injury and sepsis EXCEPT:
- a. fluid retention
- b. insulin resistance and glucose intolerance
- c. positive nitrogen balance
- d. hypoalbuminemia
- e. increased gluconeogenesis and protein catabolism



- 36- Which of the following statements about total body water composition is correct?
- a. Females and obese persons have an increased percentage of body water.
- b. Increased muscle mass is associated with decreased total body water. ; 🎢 Male ಪ್ರೂಪಾರ್ಣ ಕಾಡಿಗೆ
- c. Newborn infants have the lowest proportion of total body water. :
- d. Total body water increases steadily with age. ; ما الحسم الحسم المعالم الحسم المعالم الحسم المعالم المعالم
- e. Any person's percentage of body water is subject to wide physiologic variation.







• **Treatment**: penicillin; in pediatric patients: amoxicillin (oral emulsion is tolerated better)

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- (e.) Penicillin is an effective treatment
- 41- Which of the following statements is FALSE of gastrointestinal (GI) secretions?
- a. Pancreatic fluid is alkaline.
- b. The chloride content of gastric fluid is around 110 mmol/L.
- c. Gastric fluid has a high concentration of potassium.
- d. Bile has a pH of 7.2.
- e. Most losses can be replaced with normal saline with or without potassium NOT SURE 😕
- 42- Which of the following statements regarding direct inguinal hernias is TRUE?
- a. They protrude medially to the inferior epigastric vessels

b. They are common in women

- c. They commonly reach the scrotal sac in men
- d. They obstruct more commonly than indirect hernias K
- e. They are more common than indirect inguinal hernias in men
- 43- In which of the following surgeries preoperative antibiotic administration is not indicated?**
- a. Inguinal hernioplasty
- b. Breast surgery for duct ectasia Triblemmetrion
- c.) Thyroid surgery for multinodular goitre : Clem
- d. Laparoscopic cholecystectomy for symptomatic gall stones
- e. Coronary bypass surgery

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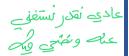


- 44- The use of vasopressors is crucial in which of the following types of shock?
- a. Hypovolemic shock
- b. Neurogenic shock
- c. Cardiogenic shock
- d. Septic shock
- e. Hemorrhagic shock
- Vasopressors for septic shock $\[\[\] ^{[23][2]}$
- · Indication: persistent hypotension during or after fluid resuscitation
- Target: MAP ≥ 65 mm Hg
- First line: norepinephrine $\square^{[2]}$
- Second line: Consider adding vasopressin if hypotension persists.

*actually this applies to any distributive shock, so septic is a correct answer as well

Septic: 8+art Elmids then vasopressors Neurogenic: < vasopressors

- 45- One is true in regarding trauma of the spleen:
- a. This organ is rarely involved in blunt trauma. K Nost common



- d. Overwhelming postsplenectomy sepsis (OPSS) is more than 10%.
- e. Non-operative management is limited to grades 1&2 Regardless of the grade
- 46-The most common cause of secondary bleeding that happens several days postoperatively is*
- a. Infection
- b. Bleeding disorder
- c. Slipped ligature
- d. Improper surgical technique
- e. Hypothermia

Haemorrhage

Inadequate haemostasis, unrecognized damage to blood vessels

defective vascular anastomosis , clotting factor deficiency , intraoperative anticoagulants

surgical re-exploring is usually required

Secondary hemorrhage:

Related to infection which erodes blood vessel Several days postoperative

treatment of infection

- 47- Which is false regarding antibiotic prophylaxis in surgery?**
- a. Decrease bacterial counts at surgical site
- (b.)Given for 72 hrs
- c. Started one hour prior to incision
- d. Chosen according to the expected pathogen
- e. Repeat dose is given in long surgeries

Operative Antibiotic Prophylaxis

- Given within 60 minutes prior to starting surgery (knife to skin)
- Repeat dose for longer surgery (T 1/2)
- Do not continue beyond 24 hours
- Determinants prevailing pathogens, antibiotic resistance, type of surgery
- Not a substitute for aseptic surgery or good technique
- 48- If appropriately utilized, supervised exercise programs for patients with peripheral vascular disease can help achieve which of the following?
- a. Gradual improvement in ankle brachial index.
- b. Improve collateral circulation.
- c. Increased walking distance.
- d. Clinical benefit in patients with claudication and rest pain but not in patients presenting with tissue loss.

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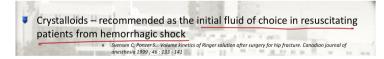
- e. Reduces the need for long term antiplatelet therapy.
- 49- All of the following are true regarding lymphedema EXCEPT:
- a. Lymphedema praecox denotes primary lymphedema, while secondary lymphedema is also termed lymphedema tarda.
- b. Primary lymphedema has a marked female predominance.
- c. The most common world-wide cause of secondary lymphedema is filariasis.
- d. Lymphoscintigraphy is a reliable diagnostic tool for lymphedema.
- e. Methods of treatment include manual lymphatic drainage, compression devices, and surgery.
- 50- Which of the following Blood transfusion complication is most likely to result in the death of a patient?
- a. Circulatory overload
- b. Allergic reaction
- c. Febrile reaction

Uncrossmatched blood claransfusion

The provision of red blood cell units for emergency transfusion without performing pretransfusion crossmatching. Usually performed in life-threatening situation when the hondrist of transfusion or unusually that risks of notated in transfusion reactions.

d. ABO incompatibility

- e. Transfusion related Acute lung injury
- 51- A 25-year-old lady loses 15 % of her blood during surgery, the best immediate management is*
- a. Colloids
- b. Crystalloids
- c. Crystalloids and packed Red cells
- d. Fresh Frozen P and PRC
- e. Fresh Whole Blood



- 52- Transfusion Related Acute Lung Injury (TRALI), one of the following is TRUE*
- (a.) Can be caused by blood products transfusion, like fresh frozen plasma
- b. Is associated with significantly elevated pulmonary artery capillary wedge pressure
- c. Is the commonest cause of morbidity associate with blood transfusion
- d. Should be treated with high dose steroids







- e. Typically presents 24 hours after transfusion
- 53- All of the following are associated with increased likelihood of wound infection after major elective surgery, EXCEPT:
- a. Age over 70 years.
- b. Chronic malnutrition.
- c. Hyperthermia during the operation.
- d. Long-term steroid use.
- e. Infection at a remote body site.



- 54- A major problem in nutritional support is identifying patients at risk. All of the following can identify the patient at risk, EXCEPT:
- a. Weight loss of greater than 15% over 2 to 4 months.
- b. Serum albumin.
- c. Malnutrition as identified by Physical examination.
- d. Serum transferrin.
- (e.) <u>Hemoglobin Level.</u>
- 55-A 17-year-old patient involved in an automobile accident is paralyzed with multiple peripheral extremity injuries. Nutritional support is instituted with a nasogastric feeding catheter. Which of the following statement is TRUE concerning the patient's management?
- a. Feeding into the stomach results in stimulation of the biliary/pancreatic axis which is trophic for small bowel.
- b. Gastric secretions will dilute the feeding increasing the risk of diarrhea. K

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- c. The risk of aspiration is minimized by using the nasal route. 📈
- d. The cost of the new feeding formulas is more expensive than total parenteral nutrition 🗵
- e. The risk of infection is higher than with Total Parenteral Nutrition 🐰
- 56- One of the following is a cyanotic congenital heart disease in the newborn:
- (a.) Transposition of the Great vessels

Congenital heart diseases

| RIGHT-10-LEFT SHUNTS | Early cyanosis—"blue babies." Often diagnosed prenatally or become evident immediately after birth. Usually require urgent surgical treatment and/or maintenance of a PDA.

C. Atrial Septal Defect | Santa Septal Defect | Congenitation of the properties of the propert

d. Ventricular Septal Defect

e. Patent Ductus Arteriosus

57- Postoperative oliguria with a fractional excretion of Sodium of less than 1% is most consistent

With*

a. Pre renal acute renal failure.

b. Intrinsic acute renal failure.

c. Chronic renal insufficiency.

d. Acute tubular necrosis.

e. Obstructive uropathy.

Renal Complications

- Urinary retention
- · Inability to evacuate urine-filled bladder after 6 hours
- 250-300 mL urine → catheterization
- >500 mL trigger foley replacement

Acute renal failure

- Oliguria < 0.5 cc/kg/hr
- Pre-renal (FeNa < 1)
- Intrinsic (FeNa > 1)
- Post-renal (FeNa > 1)

preoperative hydration to prevent prevent causes

58- A 60-year-old TPN-dependent male with short gut syndrome and diarrhea presents with non-healing leg wound. Which trace element he may need supplementation with?

- a. Manganese.
- b. Fluorine.
- c. Selenium.
- d. Copper.
- <u>e.</u>Zinc

59- All the following are benefits of vacuum assisted wound closure (VAC) EXCEPT:

67 76

- a. Keeps wound clean.
- b. Increases angiogenesis.
- c. Increases granulation tissue growth.
- d. Can be used in cases of exposed major blood vessels.
- e. Decreases edema.









60- Regarding normal physiology of body fluids in adults, all of the following statements are true

EXCEPT:



1/4 x 1/3

a. Intra-vascular compartment contains approximately (1/12) of total body water

b. Intra-vascular and interstitial compartments have different levels of sodium ions.

c. The main intra-cellular cation is potassium.

d. The main intra-vascular anion is chloride.

e. Starling forces control diffusion between intra-vascular and interstitial compartments.



Intracellular fluids

Found inside the plasma membrane of the body

2/3 of the total body water TBW

61- Body mass index is calculated*

a. By a ratio of soft tissue mass to bone mass.

b. By multiplying height (in meters) by weight (in kilograms).

c. By dividing body weight (in kilograms) by a bone density factor.

d. By dividing twice the body weight (in kilograms) by half the height in meters.

e. By dividing body weight in kilograms by the square of body height in meters.

 $BMI = \frac{\text{weight (kg)}}{\text{height (m}^2)}$

62- A 65-year-old man undergoes a low anterior resection for rectal cancer. On the fifth day in hospital, his physical examination shows a temperature of 39°C (102°F), blood pressure of 150/90 mm Hg, pulse of 110 beats per minute and regular, and respiratory rate of 28 breaths per minute. A computed tomography (CT) scan of the abdomen reveals an abscess in the pelvis. Which of the following most accurately describes his present condition?**

a. Systemic inflammatory response syndrome (SIRS)

b.)Sepsis (SIRS + documented infection = sepsis)

c. Severe sepsis : No organ farme

d. Septic shock 🙎 ↓ ເຣິ₽

e. Severe septic shock 🛂 🕱 🏳



Third International Consensus Definitions for Sepsis and Septic Shock (DIRZI

* Septis seven; life-threatening condition that result from a dyvergulation of the patient's response to an infection, couning tissue and organ damage and subsequent great any structure. Dirzical seven and representation of the patient's response to an infection, couning tissue and organ damage and subsequent great any structure. Dirzical seven and seven

63- A patient with grossly contaminated wound presents 12 hours after an accident, his wound should be managed by:

b. Thorough cleaning with debridement of all dead and devitalized tissue without primary closure

c. Primary closure over a drain

d. Covering that I covering

d. Covering the defect with split skin graft after cleaning

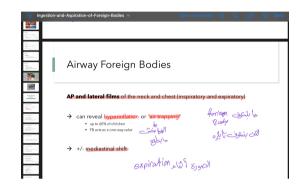
e. Covering it with a full thickness skin graft

64- The most common radiographic finding on X-ray after aspiration of a foreign body is:

a. Pleural effusion

b. hyperinflation

- c. Atelectasis
- d. Identification of the foreign body
- e. Pneumonia



65- All of the following is true about antibiotic prophylaxis in surgical patients except:

a. The choice of antibiotic is based on type of surgery performed.

b. Antibiotics should be given before the start of anaesthesia

c.Postoperative doses can be given for 2-3 days

d. Further doses of antibiotics are occasionally required during the same procedure

e. Single or multiple types of antibiotics can be given

Prevention Strategies: Core Postoperative Measures Surgical Wound Dressing

Output of scimory closure incisions with sterile dressing for 24-48 hrs post-Control blood glucose level during the immediate post-operative period ure blood glucose level at 6AM on POD#1 and #2 with procedure day ue antibiotics within 24hrs after surgery end time (48hrs fo

66- You are called to observe a patient in the ICU who came to the hospital two days ago and has started to have gram-negative septicaemia. In addition, he has significant heart disease with a history of MI two years ago. Right now, he has Hypotension, high blood volume, high central venous pressure and decreased central venous oxygen saturation which would point to a diagnosis of:

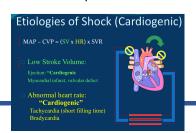
a.cardiogenic shock

b.over hydration

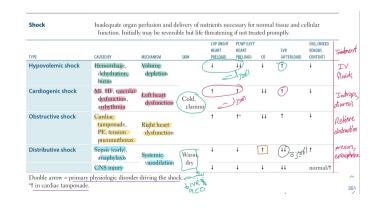
c.hypovolemic shock

d.adult respiratory distress syndrome

e.septic shock







- 67- One of the following is correct about groin hernia:
- a.Femoral hernia is more common in males.
- b. The inguinal hernia appears medial and below to the pubic tubercle.
- c.Direct inguinal hernia is lateral to the inferior epigastric artery.
- (d)Hernioplasty is the surgical treatment for inguinal hernia in adult men.
- e.The risk of strangulation is more common in inguinal compared to femoral hernia



- 68- Cellulitis, all the following are true, EXCEPT:
- (a)Systemic signs are not present (\ocally)
- b.Blood culture is often negative
- c.It can be caused by clostridium perfringens.
- d.It is poorly localized.
- e.This is non-suppurative invasive infection of tissue.

not skin



- 69- Regarding necrotizing soft-tissue infections. All the following are true EXCEPT:
- a. Streptococcus pyogenes cause toxic shock syndrome.
- b.Treatment is mainly surgical.
- c. The onset is usually gradual, and they run a chronic course
- d. They are usually polymicrobial infections.
- e.Dish water pus is a characteristic feature.



- 70- Regarding sepsis, one of the following is false:
- a.Sepsis is defined as life-threatening organ dysfunction caused by a dysregulated host response to infection.
- b.The baseline SOFA score can be assumed to be zero in patients not known to have pre-existing organ dysfunction.
- © Organ dysfunction can be identified as an acute change in total SOFA(sequential organ failure assessment score) score ≥4 points consequent to the infection. (>= 2)
- d.Management with Broad spectrum Antibiotic should be done within one hour of diagnosis.

 Antibiotic therapy SOFA Score

npiric broad-spectrum therapy with one or mo



SOFA Score
The European Society of Intensive Care Medicine

 Mortality
 SOFA score

 <10%</td>
 0-6

 15-20%
 7-9

 40-50%
 10-12

 50-60%
 13-14

 >80%
 15

 >90%
 15-24

- Crystalloids are favored as the initial fluid
- Hydroxyethyl starches are likely harmful
- Albumin may have a role, particularly if alot of fluid is given

Patients with a SOFA score of 2 or more had an overall mortality risk of approximately 10% in a general hospital population with presumed infection.



e. SOFA score ≥2 reflects an overall mortality risk of approximately 10% in a general hospital

701 Regarding the direct inguinal hernia

a. Use of surgical mesh is a must.

b. The sac should be excised at surgery.

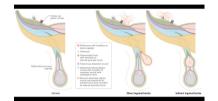
Direct inguinal hernia

- Commonly secondary to conditions resulting in increased intraabdominal pressure (e.g., chronic obstructive pulmonary disease with chroughing, constipation)
 May be associated with long-term glucocorticoid use (...)
- Medial to the inferior epigastric blood vessels (within Hesselbach triangle) and lateral to the rectus abdominis
 Hernial sac protrudes directly through the posterior wall of the inguinal canal (without involvement of the spe
 Only herniates through the superficial (external) ring

c. Has a preformed sac formed by a persistent processus vaginalis.

(d)The neck of its sac lies medial to the inferior epigastric artery. \checkmark

e.It is mostly congenital



72- A 20-year-old male patient underwent an uneventful appendectomy for acute appendicitis. All the following are true about his postoperative care except: Postoperative Measures

a. Wound swelling and discharge could be a sign of wound infection

b.Pathological examination of the appendix is mandatory \checkmark

c.The development of new onset diarrhoea could be due to pelvic abscess 🗸

y DE. Surgical Site Infections and the Surgical Care Improvement Project (SCIP): Evolution of National Quality Measures. Surg Infect 2008;9(6):579

d.Routine use of post-operative metronidazole and cefuroxime for 3 days reduce postoperative hospital stay.

e.Early mobilization can reduce the risk of deep vein thrombosis

73- A 52-year-old obese lady reports a painless grape sized mass in her groin area. She has no medical conditions apart from some varicose veins. There is a cough impulse, and the mass disappears on lying down. What is the most likely cause?

(a) Saphena varix

b. Arteriovenous malformation

c. False aneurysm of the femoral artery

d. Femoral hernia

e. Inguinal hernia

Saphenous varix: a dilated, saccular swelling of the great saphenous vein that lies just distal to the junction of the femoral vein and the great saphenous



74- What is the ideal time for prophylactic dose of antibiotic in patient who is planned for right hemicolectomy?

a. Early morning of the day of surgery

b. One day before surgery

Operative Antibiotic Prophylaxis

- Decreases bacterial counts at surgical site
- Given within 60 minutes prior to starting surgery (knife to skin)
 - Repeat dose for longer surgery (T 1/2)
 - Do not continue beyond 24 hours
 - Determinants prevailing pathogens, antibiotic resistance, type
 - Not a substitute for aseptic surgery or good technique

Before p's

- c. One hour after incision
- d. Four hours before incision
- e. Thirty minutes before incision

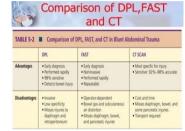
75- All of the following are advantages of FAST (focused assessment with _sonography for trauma), compared to CT scan of the abdomen, in blunt abdominal trauma EXCEPT:

A. Klebsiella B. Staphylococcus

C. proteus
D. Pseudomonas

- a. Gives early diagnosis
- (b.) The diagnosis is usually specific of which organ is affected
- c. Does not need patient transport
- d. Can be repeated
- e. Performed rapidly

Jamos strim V



76- One of the following patients require urgent investigation to malignancy

a.) A 58-year-old with anemia and low MCV

rear-old with anemia and low MCV

- b. A 45-year-old male with constipation of 2 weeks duration
- c. A 60-year-old Patient with anal pain and fresh rectal bleeding
- d. A 24-year-old female patient with right iliac fossa pain
- e. A 65-year-old female with full thickness rectal prolapse



77- The most common microorganism causing liver abscess is?

- a. Klebsiella
- b. Staphylococcus (according to the internet)
- c. proteus
- d. Pseudomonas Common pathogens [1
- e. E-coli

 Coli |

 K preumoniae □ 19181

 Streptococcus spp. □ 19181

 Streptococcus spp. □ 19181

78- All the following is true about inguinal hernia repair EXCEPT

- a. Irreducible hernia is a risk factor for strangulation 🗸
- b. Chronic postoperative pain can be as high as 20 % of cases 🗸



- c. Is a clean operation
- d. Cannot be performed as a day case setting if it was done under local anesthesia
- e. Testicular atrophy is a known postoperative complication

79- Life threatening organ dysfunction caused by a dysregulated host response to infection is the



80- All of the following are part of the primary survey in trauma patients except:

- a. Plain abdomen X-ray
- b. CXR
- c. FAST
- d. Pelvic X-ray
- e. Cervical spine

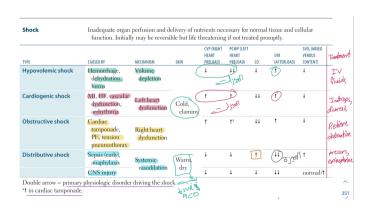
Done to: MONITOR, RESUSCITATE OR IDENTIFY. > ECG monitoring. > Monitoring of vital signs: blood pressure, pulse pressure, heart rate, body temperature and respiratory rate > Monitoring: arterial blood gases, pulse oximetry, and colorimetric CO2 monitoring. > Urinary and gastric cathters. > X-Rays, and diagnostic studies: AP chest on AP pelvis and lateral cervical spine.

ADJUNCTS TO PRIMARY SURVEY

- 81- All true about necrotizing fasciitis except:
 - a. Carries high mortality
 - b. Occur in immunocompromised subjects
 - C. Is a single microbial infection in 80% of cases mostly polymicrobia
 - d. Trauma can be a predisposing factor
 - e. Require urgent treatment with antibiotics and debridement



- a. Obstructive
- b. Is contraindicated in shock
- (c.) distributive
- d. Metabolic
- e. Cardiogenic





83- All of the followings are within the spermatic cord in the inguinal canal except:

- a. Testicular artery
- b. Genital branch of genitofemoral nerve
- c. Artery to the vas
- d. Lymphatics
- (e.) Inferior epigastric artery

84- All are correct about Clostridium Difficile colitis except:

- a. Most likely affect elderly patients with co-morbidities
- b. The use of a cephalosporin-based antibiotic is a risk factor
- (c.) Surgery is the first line of management
- d. Oral but not intravenous vancomycin is of help in this situation
- e. Can be diagnosed by performing flexible sigmoidoscopy

85- One of the following is true about inguinal hernia

- a. More common in females
- b. Reducible hernia is a high-risk factor for strangulation
- c. Testicular atrophy is a known postoperative complication
- d. Can't be performed as a day-case setting
- e. <u>Is a clean-contaminated operation</u>

*If it was a herniotomy (in peds) or without using a mesh it would've been clean

86- False about hypernatremia?

- a. cannot use NL saline if the patient has hypovolemia
- b. associated with inadequate water intake ___
- c. Should not be corrected greater than 0.5mmol/L/hr 🗸
- d. clinically manifest primarily by neurological effects igsim
- e. if hypervolemia is present use furosemide



87- Wrong about Inguinal hernia?

- a. femoral is the most common hernia in females
- b. females are more likely to have femoral
- c. males are more likely to have inguinal
- d. Inguinal hernia is superior & medial to pubic tubercle
- e. Femoral hernia is inferior & lateral to pubic tubercle

SPERMATIC CORD CONTENTS "PILES DON'T CONTRIBUTE TO A GOOD STYLISH LIFE"

- Pampiniform plexus
- Ductus deferens
- Cremasteric artery
- · Testicular artery
- · Artery of the ductus deferens
- · Genital branch of the genitofemoral nerve
- Sympathetic nerve fibers
- · Lymphatic vessels

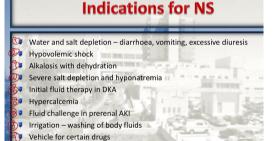


Produces toxins A and B, which damage entercytes. Both toxins lead to watery diarrh pseudomembranous colitis @. Often 2° to antibiotic use, especially clindamycin, ampicillin, cephalosporins, fluoroquinolone associated with PPIs. Fulminant infection: toxic megacolon, ileus,

Diagnosed by PCR or antigen detection of on or both texins in stool. Treatment oral vancomycin or fidaxomicin. For recurrent cases, consider repeating prior regimen or fecal microbiota transplant.

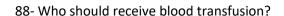






Where is the most common place for a woman to get a hernia?

The umbilicus is the thinnest part of the abdominal wall. It's a very common site to develop a hernia, whether you're a man or a woman.



- a. A patient with with Hb 8 with tachycardia and SOB
- b. A patient with with HB 10 and CAD
- c. A patient on hemodialysis and Hb 7
- d. A patient with 1 g\dL drop in Hb after bleeding



89- Which of the following is an indication for FFP?

- a. volume repletion
- b. reversal of bleeding due to clopidogrel
- c. A patient who received 1 PRBC
- d. A patient who is on warfarin with a high INR

⊕ charged peptide that binds ⊖ charged Protamine sulfate Warfarin Vitamin K (slow) +/- (FFP or PCC (rapid) Monoclonal antibody Fab fragments Dabigatran Direct factor Xa inhibitors

Healthy individuals with minimal anticipated blood loss

during surgery- (6-7 g/dl) Cardiac or pulmonary disease-(10g/dl)

In case of elective surgery:

· Correctable cause of anemia- delay surgery · Uncorrectable cause - blood trasfusion

· Blood transfusion are also required during emergency

90- not commonly seen with diarrhea?

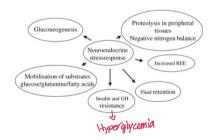
(a.) alkalosis

b. hypercalcemia

Acidosis & Hypokalemia

91- All of the following can present in an acute trauma patient except:

- a. hypoglycemia
- b. lipolysis.
- c. hypercatabolism
- d. gluconeogenesis.



92- A patient presenting to the ER after an RTA. He is conscious and communicative. He was found to be hypotensive and is complaining of abdominal pain. What is the best next

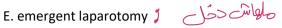
step?

c. intubation

a. Jaw thrust of Roll Conscions

b. chin lift Non-conscions

d.) IV line



93- A patient was being treated for lower leg ulcer with a cephalosporin. He developed diarrhea and tested positive for C.diff with the stool toxin test. Best next step?

a. Switch to oral vancomycin

b. start metronidazole therapy





- 94- Which of the following is associated with the highest perioperative mortality?
- a. MI 4 months ago
- b. Aortic stenosis
- c. CHF with Hb 7 "not sure"



- d. Frequent PVCs
- e. Age more than 70
- 95- A patient had epidural anesthesia for a lower abdominal surgery, she has headache after the procedure, which of the following is not done to decrease the headache?
- a. bed rest
- b. analgesics
- c. decrease caffeine intake
- d. epidural blood patch
- e. oral hydration

How do you get rid of a headache after spinal anesthesia? Your provider may recommend getting bed rest, drinking plenty of fluids, consuming caffeine and taking oral pain relievers. If your headache hasn't improved within 24 hours, your Y.YY/.o/\. provider might suggest an epidural blood patch.

- 96- Which of the following is false about hypercalcemia:
- a.) breast cancer metastasis is an unusual cause
- b. severely hypercalcemic patient will have signs of extracellular fluid volume deficit
- c. Volume repletion would result in increased urinary excretion of calcium
- d. Hypercalcemic patients will have signs and symptoms similar to hyperglycemia



For causes of hypercalcemia, remember "Thinking Chimpanzees!" Thinking: Thiazides, thyroid Calcium supplementation **H**yperparathyroidism Immobilization, inherited (FHH) Milk-alkali synd., meds (thiazides, lithium) Paraneoplastic PTHrP Adrenal insufficiency Neoplasm (multiple myeloma, breast, lung) Excessive vitamin D Excessive vitamin A Sarcoidosis & granulomatous diseases

97- Not given in cardiogenic shock: (both could be given according to the internet)

Jule 258

- (a) nitroprusside
- b. norepinephrine

	Management of cardiogenic shock [46][53][54]
Classification	Treatment
Dry and cold	Fluid bolss cally in case of Phypotension and/or PCMP < 15 mm Hg Consider a fluid challenge (250-500 mL), 105444 If shock persists, start a vasopressor, ideally, nonepinephrine. Administer instrogic support if hypoperfusion persists despite fluids and vasopressors, □ ^[A61] Dobstrating O Birtinone Nirrinone Doparamine
Wet and cold	A administer inotrogic therapy to maintain perfusion. If shock persists, start avaporeser of ideally, norepirelyrine). Once systolic BP is > 90 mm lys, start disurest: therapy for AHF. If symptoms persist, start restaments or ferfactory AHF.

98- Antibiotic given for cholecystectomy prophylaxis:

- a. Cefuroxime
- (b) <u>Cefazolin</u>
- c. Ceftriaxone
- d. Metronidazole

99- Drug of choice for hydatid cyst:

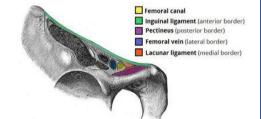
- a. Mebendazole
- b. Ketoconazole
- c. Albendazole



100- Wrong about femoral canal:

- a. Inguinal ligament is the superior border of femoral canal
- b. Pectinular line posterioly to femoral canal
- c. Contains lymph Nodes
- d. lacunar ligament is the lateral border





101- All of following considered distributive shock except:

- a. anaphylactic
- (b.)hemorrhagic
- c. septic

102- Unlikely injured site to cause hypovolemic shock:

- (a) Intracranial
- b. Spleen



103- Wrong about Massive blood transfusion:

- a. One blood volume in 24
- b. 10 units in 12 hrs 🐣
- c. 50% blood volume in 3 hrs
- d. 4 units in one hour
- e. Transfusion needing FFP to treat coagulopathy

Freel	ı frozen plasma [24∦33∦17∦31]
	mendations in this section are consistent with the 2010 AABB guideline for plasma transfusion. [31]
• Con	
0 A	flooms, including all coagulation factors and plasma proteins ill cellular components are removed from the transfusion product, initive/une: 20.00 0.00 mil. [1712]
• Con	npatibility requirements: See "ABO blood type system."
0 R	ABO compatibility must be considered. \Box [1] th(D) matching: not required \Box [22]
 Indi 	ications (24[17]
	Annagement of coagulopathy in patients with multiple clotting factor deficiencies (e.g., due to liver cirrhosis , DIC) revention of dilutional coagulopathy in massive transfusion
0 %	fisama exchange transfusion, e.g., in TTP ^[44] Vanagement of zome coaguitation factor deficiencies if no specific concentrate for treatment exists Uternakive therapy for:
	Management of plasma protein deficiencies if recombinant products are unavailable 🖵
	Immediate reversal of warfarin in patients with life-threatening bleeding or intracranial hemorrhage if 4-factor PCC is unavailable [24]
• Effe	ect
	The second secon

What is a "Massive Transfusion"

- Replacement of one blood mass, or 10 units of RBCs in a 24 hour period
- · Dynamic Definitions
 - Transfusion of ≥4 PRBC units with 1 hour when ongoing need is foreseeable
 - Replacement of 50% of the total blood volume within 3-4 hours

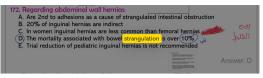
Massive transfusion

Definitio

- The replacement of a large volume of blood in response to massive hemorrhage
- There is no universal threshold for a massive transfusion; proposed values include: [54][55]
- $\circ \quad \text{Complete replacement of a patient's blood volume (\sim 10 units of $\underline{\text{RBCs}}$) within 24 hours}$
- Replacement of ≥ 50% of a patient's blood volume (~ 5 units of RBCs) within 3 hours
 Blood loss replacement at a rate of > 150 ml /minute
- Blood loss replacement at a rate of > 150 mL/minute
 Transfusion of ≥ 3 units of pRBCs within 1 hour

104- About hernias what is true:

- a. Strangulation mortality is above 10% \code/,
- b. Indirect hernia are 20% of inguinal hernia
- c. Females have femoral hernia more than inguinal hernia
- Are second to adhesions as a cause of intestinal obstruction



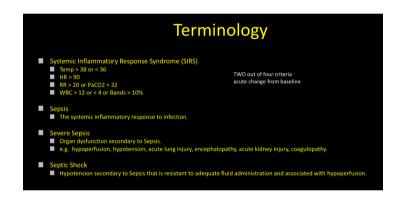


105- Sepsis with organ failure and persistent hypotension is the definition of:

- a. Septic shock
- b. SIRS
- c. Severe sepsis
- d. MODS

106- Not part of the SIRS criteria:

- a. Temperature < 36
- b. HR >90
- c. WBC > 12000 or < 4000
- (d.)RR>8 or PaCO2 >23mmHg
- e. Cell bands > 10%



107- Antibiotic prophylaxis for inguinal hernia repair with mesh:

- a. Vancomycin
- b. 1st generation cephalosporin (cefazolin)
- c. 2nd generation cephalosporin
- d. 3rd generation cephalosporin

108- all are risk factors for C. difficile infection except:

a. smoking

- b. PPI
- c. Prolonged broad-spectrum antibiotics use
- d. Severely ill patient



Produces toxins A and B, which damage enterocytes. Both toxins lead to watery diarhea

-- pseudomembranous colitis A. Often 2°
to antibiotic use, especially clindamycin,

Treatment: oral vancomycin or fidaxomicin. ampicillin, cephalosporins, fluoroquinolones; associated with PPIs.

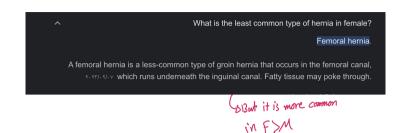
Fulminant infection: toxic megacolon, ileus,

Difficile causes diarrhea.

For recurrent cases, consider repeating prior regimen or fecal microbiota transplant.



- a. direct inguinal hernia
- b. indirect inguinal hernia
- c. femoral hernia
- d. incisional hernia
- e. umbilical hernia: most



CONTRAINDICATIONS Nasogastric intubation is contraindicated in patients with;

esophageal stricture because of the risk for esophageal perforation

 basilar skull fracture or facial fracture due to the potential for a <u>bleeding diathesis</u>, minimal trauma to the pharynx, esophagus, or stomach from nasogastric tubes can also lead to severe bleeding and,

Ringer Lactate

110- All are absolute contraindications to insert NGT except:

- a. confirmed esophageal rupture
- b. suspected esophageal rupture
- c. esophageal stricture (Most likely)
- d. foreign body in esophagus



- 111- False about IV fluids:
- A. NaCL has 154 mEq Na & 154 mEq Cl
- B. RL is the most physiological
- C. hypotonic fluids can increase intracerebral pressure (or edema)
- D. colloids can cause volume overload
- E. G5W is enough to support nutrition for a fasting patient



large molecular wt substances that largely remains in the intravasc compartment thereby generating oncotic pressure

0.9% NS

- 112- All given for treatment of pseudo membranous colitis except:
- a. metronidazole
- b. vancomycin
- c. steroids
- d. stop offending antibiotic
- 113- All risk factors for c.difficle infections except:
 - vegetarian
 - b. long course of antibiotics



1 ml blood loss = 1ml colloid = 3ml crystalloids

3 times more potent

114- High velocity penetrating trauma, transverse abdomen injured:	at mid umb	ilicus, which is likely to	be
(a) small bowel			
b. liver			
c. kidney			
d. spleen			
115- Source of infection after inguinal hernia repair is:			
a. Patient's skin (NOT SURE)			
b. instruments			
c. surgeon			
116- False about hypermagnesemia:			
A. associated with ECG changes consistent with hyperka	lemia		
b. Deep tendon reflexes are exaggerated (lost usually)	ELECTROLYTE Sodium	LOW SERUM CONCENTRATION Nausea, malaise, stupor, coma, seizures	HIGH SERUM CONCENTRATION (Irritability, stupor, coma)
b. <u>Deep tendon reflexes are exaggerated (lost usually)</u> c. Levels are parallel with potassium levels	Sodium Potassium	LOW SERUM CONCENTRATION	Irritability, stupor, coma Wide QRS and peaked T waves on ECG, arrhythmias, nuscle weakness Stones (renal), bones (pain), groans (abdon pain), thrones (1 urinary frequency), psyc
c. Levels are parallel with potassium levels	Sodium Potassium Calcium Magnesium	Nausca, malaise, stupor, coma, scizures U waves and flattened T waves on ECC, arrhythmia, muscle cramps, spasm, weakness Tetany, seizures, QT prolongation, twitching (eg, Chvostek sign), spasm (eg, Trousseau sign) Tetany, torsades de pointes (hypokalemia) hypocalcemia (when [Mg ²⁺] < 1.0 mEq/L)	Irritability, stupor, coma Wide QRS and peaked T waves on ECC, arrhythmias, nuscle weakness Stones (renal), bones (pain), groans (abdon pain), thrones (1 urinary frequency), psye overtones (anxiety, altered mental status) 4 DTRs, lethargy, bradycardia, hypotensior cardiac arrest, hypocaleemia— praticip for cardiac arrest, hypocaleemia— praticip for
c. Levels are parallel with potassium levels 117- most important factor for wound healing:	ELECTROLYTE Sodium Potassium Calcium	Nausca, malaise, stupor, coma, scizures t waves and flattened T waves on ECC, arrhythmia, muscle cramps, spasm, weakness Tetany, seizure. OT prolongation, twitching, (eg, Chvostek sign), spasm (eg, Trousseau sign) Tetany, torsades de pointes (hypokalemia)	Irritability, stupor, coma Wide QRS and peaked T waves on ECG, arrhythmias, nuscle weakness Stones (renal), bones (pain), groams (abdon pain), thrones (1 urinary frequency), psyc overtones (armiety, altered mental status) to make blad DTRs, lethargy, bradycardia, hypotension
c. Levels are parallel with potassium levels 117- most important factor for wound healing: a. vit.D	Sodium Potassium Calcium Magnesium	IOW SERIMA CONCENTRATION Nausca, malaise, stupor, coma, seizures ti waves and dattened T. waves on ECC, arrhythmis, muscle cramps, spasm, weakness Tetany, seizures, T. Prodongation, twitching (eg. Chyostes deepn), spasm (eg. Trousseau sign) (Tetany, torsades de pointes, hypokalemia) hypocaleemia (when [Mg ^{2+]} < 1.0 mEq/I.) Bone loss, osteomalacia (adults), rickets	Irritability, stupor, coma Wide QRS and peaked T waves on ECC, arrhythmias, muscle weakness Stones (renal), bones (pain), groans (abdon pain), thrones (1 urinary frequency), psyc overtones (anxiety, altered mental status) to make give 1 DTRs, lethargy, bradycardia, hypotensior cardiac arrest, hypocaleemia or make be. Renal stones, metastatic calcifications,
c. Levels are parallel with potassium levels 117- most important factor for wound healing: a. vit.D b. vit.C	Sodium Potassium Calcium Magnesium	IOW SERIMA CONCENTRATION Nausca, malaise, stupor, coma, seizures ti waves and dattened T. waves on ECC, arrhythmis, muscle cramps, spasm, weakness Tetany, seizures, T. Prodongation, twitching (eg. Chyostes deepn), spasm (eg. Trousseau sign) (Tetany, torsades de pointes, hypokalemia) hypocaleemia (when [Mg ^{2+]} < 1.0 mEq/I.) Bone loss, osteomalacia (adults), rickets	Irritability, stupor, coma Wide QRS and peaked T waves on ECC, arrhythmias, muscle weakness Stones (renal), bones (pain), groans (abdon pain), thrones (1 urinary frequency), psyc overtones (anxiety, altered mental status) to make give 1 DTRs, lethargy, bradycardia, hypotensior cardiac arrest, hypocaleemia or make be. Renal stones, metastatic calcifications,
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c. Levels are parallel with potassium levels 117- most important factor for wound healing: a. vit.D b. vit.C c. carbohydrate	Sodium Potassium Calcium Magnesium	IOW SERIMA CONCENTRATION Nausca, malaise, stupor, coma, seizures ti waves and dattened T. waves on ECC, arrhythmis, muscle cramps, spasm, weakness Tetany, seizures, T. Prodongation, twitching (eg. Chyostes deepn), spasm (eg. Trousseau sign) (Tetany, torsades de pointes, hypokalemia) hypocaleemia (when [Mg ^{2+]} < 1.0 mEq/I.) Bone loss, osteomalacia (adults), rickets	Irritability, stupor, coma Wide QRS and peaked T waves on ECC, arrhythmias, muscle weakness Stones (renal), bones (pain), groans (abdon pain), thrones (1 urinary frequency), psyc overtones (anxiety, altered mental status) to make give 1 DTRs, lethargy, bradycardia, hypotensior cardiac arrest, hypocaleemia or make be. Renal stones, metastatic calcifications,
c. Levels are parallel with potassium levels 117- most important factor for wound healing: a. vit.D b. vit.C c. carbohydrate d. caloric intake	Sodium Potassium Calcium Magnesium	IOW SERIMA CONCENTRATION Nausca, malaise, stupor, coma, seizures ti waves and dattened T. waves on ECC, arrhythmis, muscle cramps, spasm, weakness Tetany, seizures, T. Prodongation, twitching (eg. Chyostes deepn), spasm (eg. Trousseau sign) (Tetany, torsades de pointes, hypokalemia) hypocaleemia (when [Mg ^{2+]} < 1.0 mEq/I.) Bone loss, osteomalacia (adults), rickets	Irritability, stupor, coma Wide QRS and peaked T waves on ECC, arrhythmias, muscle weakness Stones (renal), bones (pain), groans (abdon pain), thrones (1 urinary frequency), psyc overtones (anxiety, altered mental status) to make give 1 DTRs, lethargy, bradycardia, hypotensior cardiac arrest, hypocaleemia or make be. Renal stones, metastatic calcifications,
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c. Levels are parallel with potassium levels 117- most important factor for wound healing: a. vit.D b. vit.C c. carbohydrate d. caloric intake e. balanced diet 118- Source of protein in pts with trauma is:	Sodium Potassium Calcium Magnesium	IOW SERIMA CONCENTRATION Nausca, malaise, stupor, coma, seizures ti waves and dattened T. waves on ECC, arrhythmis, muscle cramps, spasm, weakness Tetany, seizures, T. Prodongation, twitching (eg. Chyostes deepn), spasm (eg. Trousseau sign) (Tetany, torsades de pointes, hypokalemia) hypocaleemia (when [Mg ^{2+]} < 1.0 mEq/I.) Bone loss, osteomalacia (adults), rickets	Irritability, stupor, coma Wide QRS and peaked T waves on ECC, arrhythmias, muscle weakness Stones (renal), bones (pain), groans (abdon pain), thrones (1 urinary frequency), psyc overtones (anxiety, altered mental status) to make give 1 DTRs, lethargy, bradycardia, hypotensior cardiac arrest, hypocaleemia or make be. Renal stones, metastatic calcifications,

119- About erysipelas, all are true except:

- a. caused by group A Strep
- b. Painful
- c. Red, flat, skin lesions
- d. Face is common site
- e. Treated with penicillin

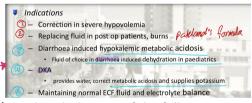
120- SSI, usually occurs when?

(a.) 4-5 days post op



121- Prophylactic antibiotic not indicated in:

- a. Hernioplasty
- (b.) Herniorrhaphy
- c. Duct ectasia
- d. Colectomy
- 122- All are risk factors of wound infection except:
 - a. DM
 - b. Immunosuppression
 - c. Vit C def
 - (d.) Young age
- 123- A patient with multiple fractures and hypovolemic shock, what is the initial resuscitation?
 - a. Blood
 - b. FFP
 - c. Hypertonic saline
 - d) Ringer's lactate



- To fix things together by over suturing under tension - orrhaphy (ex: herniorrhaphy)

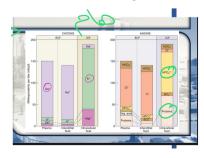
If we gold any formy devices busterials in any curses.

124- Body response to major trauma/ shock includes one of the following:

- a. Increased Na and water secretion
- b. Increased renal perfusion
- (c.) <u>Hyperkalemia</u>
- d. Hypoglycemia
- e. Decreased cortisol production

125- Compared to ICF, the ECF has one of the following:

- a. Lower Cl-
- b. Higher K+
- (c.) Lower protein
- d. Lower pH



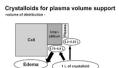


- e. Bigger in volume
- 126- Which of the following is true about femoral hernia?
 - More common in middle aged and older women
 - b. Can be above and medial to the inguinal ligament
- 127- What is the volume of distribution of crystalloids?

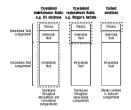


b. ICF

Transcellular fluid



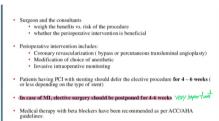
The femoral canal lies just below the inquinal ligament and lateral to the pubic tubercle. Consequently, a femoral hernia will pass below and lateral to the pubic tubercle, whereas an inguinal hernia will be seen above and



128- After a CVA, an elective surgery must be delayed for how long?

- a. 7 days
- b. 6 weeks (for MI)
- c. 3 months
- (d.) 6 months
- e. 1 year





Cerebrovascular	disease	

- 129- A 24-year-old healthy male, undergoing hernia repair at 12mid-day, he started fasting at midnight (12 hours fasting), what is the maintenance fluid therapy?



a. 1250 ml NS+ 500 ml D5W

b. 1250 ML D5W+ 500 ml NS

c. 1000 ml D5W+ 2500ml RL

d. 1000 ml RL+ 2500 ml D5W

egyl & 2500 c = edulosian Maintainance 1/2il, die l'ula pour pour le 1250 :.

130- 10 Kgs infant, 11 months old, temp 38 C, what is the maintenance fluid per day?

- a. 300 ml
- b. 500 ml
- c. 800 ml
- d. 1200 ml
- e. 1500 ml

- 1/4/0 = 1/00
- 131- At which day post-op will the protein start to be metabolized?
 - 5 a.
 - (b.) 7 NOT SURE 🙁
 - c. 10
 - d. 13
 - e. 15
- The need for nutritional support should be assessed continually in patients both preoperatively and postoperatively. Most elective surgical patients have adequate fuel reserves to withstand common catabolic stresses and partial starvation for up to 7 days and do not benefit from perioperative nutritional support

132- All of the following statements regarding the use of systemic prophylactic antibiotics are true,

EXCEPT:

- A. The goal is to attain high tissue level at time of incision.
- B. Should be as broad-spectrum as possible in most cases.
- C. Are usually given as a single dose.
- D. They are not effective if given 3 hours after making the incision.
- E. Are not effective in reducing postoperative respiratory infections. \checkmark
- 133- Concerning erysipelas, all of the following statements are true, EXCEPT:
- A. Is caused by staphylococcus.
- B. Is typically painless.
- C. Is effectively treated by penicillin.
- D. Hands are mainly involved.
- E. The lesion has ill-defined flat edge. 🖫



- 143- tetanus, all of the following statements are true, EXCEPT:
- A. The majority of cases are due to endogenous infection.
- (B) It is caused by gram negative anaerobic bacilli.
- C. Tetanolysin is the most important neurotoxin responsible for the disease
- D. The disease is characterized by episodes of convulsions with short period of muscle relaxation in

between.

- In addition in initial supportive care, management should focus on controlling the infection, eliminating toxin production, and neutralizing circulating to:

 * Wound cleaning and debrifuenest:

 * Adaptive international*

 * Dugor draise: methoristicate

 * Dugor draise: methoristicate

 * Alternative procedition G
- E. Penicillin and metronidazole are used to treat an established infection.

nospasmin: reaches the CNS through retrograde axonal transport

- ones to receptors or perginear inerves and is time transported on methodrons (sensional cells) in the Liss via Vesicies professes that cleaves symaptobrevia. SANAE protein → prevention of inhibitory neutronamitiers (i.e., Châd and glycine) release from have cells in the spiral cord → uninhibited activation of alpha motor neurons → muscle spasms, rigidity, and autonomic instability
 - 135- All of the following statements about surgical site infections (SSIs) are true, EXCEPT:
 - A. Infection in the musculofascial tissues is known as deep SSI.
 - B. The patient may have systemic signs in a minor SSI.
 - C. Infection causing delay in hospital discharge is a major SSI.
 - D. The differentiation between major and minor SSIs is extremely important.
 - E. Surveillance for surgical site infection should be done for a year after implanted joint surgery.

Superficial Incisional SSI

Infection occurs within 30 days after the operation and involves only skin or subcutaneous tissue of the incision

Subcutaneous Superficial incisional SSI









136- Which of the following statement concerning intravenous nutritional support is TRUE?

A. Concentrations of glucose no higher than 5% should be used to avoid peripheral vein sclerosis

B. A major disadvantage of the peripheral technique is limited caloric delivery



C. If total parenteral nutrition is required, access to the superior vena cava via the external jugular vein is the most suitable site

D. Venous thrombosis is an uncommon complication for long-term central vein catheterization

E. amino acid solutions should only be administered centrally

137- A 40 year old male patient involved in a road traffic accident, at the accident and emergency department his Glasgow coma scale was 15, but he had shortness of breath, hypotension with tachycardia. He had a patent airway with difficulty in breathing. The air entry was reduced and hyperresonant on the right side of the chest. The most appropriate next step is:

A. Urgent chest x ray



- B. IV access and blood transfusion
- C. Intubation and ventilation
- D. Needle thoracostomy
- E. Diagnostic peritoneal lavage
- 138- All of the following is correct about Femoral hernia EXCEPT:
- A. More common in women
- B. The risk of strangulation is more as compared with inguinal hernia
- C.)It present as a swelling below and medial to Pubic tubercle
- D. The sac may contain omentum
- E. Can be a cause of small bowel obstruction

The femoral canal lies just below the inguinal ligament and lateral to the pubic tubercle. Consequently, a femoral hernia will pass below and lateral to the pubic tubercle, whereas an inguinal hernia will be seen above and medial to it. The key landmark for the femoral canal is the femoral vein.

139- A 35 year old male patient, admitted with abdominal pain, distension and excessive vomiting. He had previous history of appendectomy at the age of 18. The most likely cause for this illness is:

- A. Internal hernia
- B. Right colon cancer
- C. Volvulus



E. Acute mesenteric ischaemia

140- Concerning postoperative atelectasis, all of the following statements are true EXCEPT:

A) This is the most common cause of postoperative fever that starts on postoperative day four.

B. The physical examination may demonstrate dullness to percussion over the involved area and Pulmonary complications

Alteria breath, MC cause of finer within 48h

C. The most common cause of postoperative atelectasis is bronchial obstruction by plugs of tenacious sputum.

D. <u>Postoperative atelectasis</u> is best managed by standard <u>chest physiotherapy</u>, <u>deep breathing</u>, <u>coughing</u>, and suctioning of patients who are intubated.

The second of th

Postoperative Fever



E. Judicious use of postoperative analgesia is an essential adjunct permitting patients to breathe deeply,

cough forcefully and participate in chest physiotherapy

Atelectasis is often precipitated by postoperative pain (poor cough) and poor lung compliance, retained airway secretions, posterior tongue prolapse, airway edema, or anesthetic effects, which can all interfere with spontaneous deep breathing and coughing.

141- The most commonly involved organ in penetrating abdominal trauma is:

A. Small bowel

B. Colon

C. Liver

D. Spleen

E. Kidney

142- How many kilocalories per gram are contained in the glucose used in parenteral formulas?

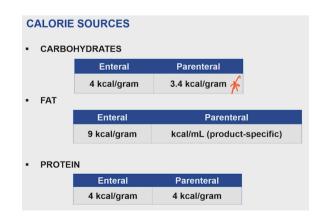
A.)4.0

B. 5.5

C. 9.0

D. 10.0

E. 11.9



143- Re-feeding syndrome is characterized by which of the following electrolyte abnormalities?

A. Hyponatremia, hypokalemia, hypercalcemia

B. Hyperphosphatemia, hypokalemia, hypocalcemia

C. Hypokalemia, hypomagnesemia, hypophosphatemia

D. Hypocalcemia, hyponatremia, hypomagnesemia

E. Hyperglycemia, hyperkalemia, hyperphophatemia

Refeeding syndrome—often occurs in significantly malnourished patients with sudden † calorie intake → † insulin → ‡ PO₄³⁻, ‡ K+, ‡ Mg²⁺ → cardiac complications, rhabdomyolysis, seizures. Treatment: nutritional rehabilitation, psychotherapy, olanzapine.



a potentially lethal complication in patients who are severely malnourished. Alterations in phosphate, potassium, magnesium, and thiamine can be seen which can lead to harmful effects on the cardiac, respiratory, hepatic, neuromuscular, and hematologic systems

144- A child who was involved in a road traffic accident has a bleeding open femur fracture. What is the first step in fluid resuscitation in the emergency room?

A. Bolus 10ml/kg of normal saline

B. Bolus 20ml/kg of normal saline

C. Bolus 20ml/kg of colloid

D. Transfuse 20ml/kg of packed red blood cells

Approach to fluid administration [2][30]

Administer rapid fluid bolus (i.e., within 10–30 minutes)

Adults: NS or LR 500-1000 mL IV bolus [2]

Children: NS or LR 10–20 mL/kg IV bolus \square [9][31]

145- The least likely differential diagnosis of a groin lump in a supine patient is?

E. Transfuse 20ml/kg of packed red blood cells, fresh frozen plasma, and platelets

A. Irreduicable inguinal hernia.

B. Psoas abscess.

C. Hodgkin lymphoma.

D) Saphena varix.

E. Femoral artery aneurysm.

• Saphenous varix: a dilated, saccular swelling of the great saphenous vein that lies just distal to the junction of the femoral vein and the great saphenous

O-15% or Serve Dehyphothism

O-15% or Serve Dehyphothism

C. increased capillary hydrostatic pressure (proofic) & hyphostatic

D. decrease in venomotor tone of

E. increased release of

A. Skin vasoconstriction	
B. Confusion	
C. Tachycardia	
D. Distended neck veins	ichover load du s
E. Tachypnea	
148- All of the following are conside	ered early postoperative complications EXCEPT:
A. Fever	
B. Urinary Tract Infection	
C. Wound Infection	What is early postoperative complications? Common general postoperative complications include postoperative force stallardesis.
D. Deep Venous Thrombosis	Common general postoperative complications include postoperative fever, atelectasis, wound infection, embolism and deep vein thrombosis (DVT). The highest incidence of text-nvv.v postoperative complications is between one and three days after the operation.
	e correct regarding major lower limb amputation EXCEPT:
A. Energy expenditure to achieve m	nobility is lower following above knee amputation compared to
A. Energy expenditure to achieve m	nobility is lower following above knee amputation compared to
149- All of the following options are A. Energy expenditure to achieve m below knee amputation B. Patient outcome is worse following C. Amputations performed by specifications	
A. Energy expenditure to achieve melow knee amputation B. Patient outcome is worse following to the general popular.	ing emergency amputation than elective amputation falist surgeons have improved outcomes tion, patients with diabetes are at higher risk of major amputations The energy expenditure is known to be significantly greater when thigh. In the case of transibial amputes the energy expenditure is
A. Energy expenditure to achieve melow knee amputation B. Patient outcome is worse following C. Amputations performed by special D. Compared to the general popular E. Deep vein thrombosis is a recognition.	ing emergency amputation than elective amputation falist surgeons have improved outcomes tion, patients with diabetes are at higher risk of major amputations The energy expenditure is known to be significantly greater when thigh. In the case of transibial amputes the energy expenditure is
A. Energy expenditure to achieve melow knee amputation B. Patient outcome is worse following C. Amputations performed by special D. Compared to the general popular E. Deep vein thrombosis is a recognition.	ing emergency amputation than elective amputation falist surgeons have improved outcomes tion, patients with diabetes are at higher risk of major amputations hized risk following major amputation The energy expenditure is known to be significantly greater when thigh. In the case of transitioal amputees the energy expenditure is in the case of transitioal amputees the energy expenditure is in the case of transitioal amputees the energy expenditure is in the case of transitioal amputees the energy expenditure is in the case of transitioal amputees the energy expenditure is in the case of transitioal amputees the energy expenditure is in the case of transitioal amputees the energy expenditure is in the case of transitioal amputees the energy expenditure is in the case of transition and the case
A. Energy expenditure to achieve melow knee amputation B. Patient outcome is worse following. C. Amputations performed by special displayments. D. Compared to the general popular ending is a recognized form.	ing emergency amputation than elective amputation falist surgeons have improved outcomes tion, patients with diabetes are at higher risk of major amputations hized risk following major amputation The energy expenditure is known to be significantly greater when thigh. In the case of transibilal amputees the energy expenditure is in the case of transibilal amputees the energy expenditure is in the case of transibilal amputees the energy expenditure is in the case of transibilal amputees the energy expenditure is in the case of transibilal amputees the energy expenditure is in the case of transibilal amputees the energy expenditure is in the case of transibilal amputees the energy expenditure is in the case of transibilal amputees the energy expenditure is in the case of transibilation and the case of transibility and the
149- All of the following options are A. Energy expenditure to achieve melow knee amputation B. Patient outcome is worse following C. Amputations performed by special D. Compared to the general popular E. Deep vein thrombosis is a recognistic second of the second	ing emergency amputation than elective amputation falist surgeons have improved outcomes tion, patients with diabetes are at higher risk of major amputations hized risk following major amputation The energy expenditure is known to be significantly greater when thigh. In the case of transibial amputees the energy expenditure is in the c

ation is 16% to m/min.

- Not to do in sepsis? Infection source control During 1st hour, stabilize the patient first
- Wrong about fluids: 130mml/L of Cl in ringer lactate \\2_
- Regarding wounds Which is true? Diverticulitis stage 2 is considered a contaminated wound
- 1st in hemostasis >>> Vasoconstriction
- Vit. C.>>> Hydroxyaltion of procollagen
- True about abx: carabapenems have good coverage for gram +ve and anaerobes
- True about gas gangrene?? pain, crepitus and toxemia
- True>>> Canal of Nuck opens in labia majora –
- true about hypovolemic shock? Increased SVR
- MCC in septic shock? staph/ pseudomonas/ Ecoli
- true about septic shock: persisting hypotension requiring vasopressors to maintain a MAP of 65
- Management of gastric outlet obstruction with hypochloremic hypokalemic metabolic alkalosis? 0.9
 NS infusion with KCl
- Most common cause of death after blood transfusion? TRALL
- Which of the following is true about body fluids? ± It might be affected by wide range of physiological variation
- Which of the following is true about body fluids? ± The concentration of sodium in the intravascular and the interstitial compartment is almost equal.
- Amino acid most important in improving immunity (glutamine)
- limit for K in peripheral line: 20 mEq
- Pt with crush injury, in respiratory distress, multiple rib fractures, life saving measure is: intubation and mechanical ventilation
- Plain AXR in SBO, what is the finding? Valvulae conniventes (plica circularis)
- Not complication of TPN: Hypoglycemia (mentioned in past papers, but both HYPO/HYPER glycemia are possible complications of TPN)



