

Plastic Surgery

- 1) A 30 year old man was trapped in a burning house. When he was rescued and brought to hospital, it was found that he had first degree burns to his torso, second degree burns to the anterior aspect of both his arms and third degree burns to both his legs. His weight is approximately 70 kg. You are the emergency physician that first received him in the Emergency Room, which fluid resuscitation would you initiate if he presented 1 hour after his burn injury.
 - a) Ringer's Lactate 525 ml/hr
 - b) Ringer's Lactate 788 ml/hr
 - c) Ringer's Lactate 900 ml/hr
 - d) Ringer's Lactate 1420 ml/hr
 - e) Ringer's Lactate 1620 ml/hr

- 2) A 56 year old woman who works as a medical secretary comes into the office complaining of pain in her left hand. After a detailed history and physical, it was concluded that her pain is most likely attributed to carpal tunnel syndrome. Which of the following is not a feature of carpal tunnel syndrome?
 - a) Numbness and pain in the affect hand leading to frequent night awakenings
 - b) Decreased ability to abduct the thumb
 - c) Decreased sensation in the 4th and 5th digits
 - d) Flattening of the thenar eminence
 - e) Percussion over the median nerve at the wrist reproduces symptoms

- 3) A 50 year old healthy man who recently underwent day surgery for right inguinal hernia repair presents with fever and pain over his incision area. On examination, it was found that there is a poorly defined erythematous region around his incision that is tender to palpation with no areas of necrosis. Which of the following organism is most likely the cause of his infection?
 - a) Escherichia coli
 - b) Pseudomonas aeruginosa
 - c) Streptococcus pyogenes
 - d) Clostridium perfringens
 - e) Pasteurella multocida

- 4) You are working in the emergency department when a burn victim is brought in. Which of the following is not an indication for transfer to a burn center:
 - a) A 40 year old man who fell asleep while smoking and sustained a mixed 2° and 3° burn to 15% of his body including his right hand, arm and chest
 - b) A five year old boy with a mixed 2° and 3° burn to 15% total body surface area on his back from a scald injury
 - c) A 30 year old woman who was rescued from a burning building. She has a 5% TBSA mixed 2° and 3° burn on her right forearm and 12% mixed 2° and 3° on her thigh. She was also trapped in a smoke-filled room and appears to be in respiratory distress
 - d) A 45 year old factory worker who sustained a 0.5% total body surface area partial thickness burn to his left forearm after coming into contact with hydrofluoric acid
 - e) A 58 year old woman who sustained a high voltage electrical injury

- 5) A 32 year old man comes into the emergency department after a sustaining facial blow injuries from a fight. The CT head reveals that he has sustained facial bone fractures. Which of the following is an indication for him to have immediate surgery:
- He has a displaced nasal bone fracture
 - His CT head reveals an orbital floor fracture with no soft tissue entrapment
 - He has ptosis and proptosis of his left eye and is complaining that he cannot see out of this eye even when the eyelid is held open
 - He has an unstable fracture of the zygomatic complex
 - He has a bilateral LeFort I fracture
- 6) Which of the following is not a sign or symptom of carpal tunnel syndrome:
- Loss of sensation to the proximal palm
 - Positive Phalen test
 - Positive Tinel sign
 - Pain involving the thumb, index, long, and part of the ring digits
 - Delayed transit time on nerve conduction study
- 7) A 35 year-old intoxicated man presents to the Emergency Department with a deep laceration to his right distal forearm after putting his hand through a window. On examination, he has no sensation to his little finger and the ulnar aspect of his ring finger. Power on abduction and adduction of all fingers is markedly decreased. He is unable to flex the distal joint of his little finger. When he flexes his wrist, his hand deviates radially. The examination was otherwise normal. What structure(s) have been damaged?
- Ulnar nerve
 - Flexor carpi ulnaris and flexor digitorum profundus muscles
 - Median nerve
 - Radial nerve
 - Brachioradialis
- 8) In which of the following are systemic antibiotics not indicated:
- Animal bite to hand
 - Laceration over metacarpalphalangeal joint sustained after punching someone in a fight
 - Cellulitis
 - Burn wound to 75% of the dorsal aspect of the hand
 - Acute suppurative tenosynovitis
- 9) Which of the following is not a finding in mandibular fractures?
- Palpable step along mandible
 - Loose teeth
 - Trismus
 - Numbness in V2 distribution
 - Malocclusion
- 10) A 43 year-old woman is brought to the Emergency Department after being burned in a house fire. You estimate first degree burns to 20% of her body, second degree burns to 11% of her body, and third degree burns to 9% of her body. She weighs 60 kg and is 120 cm tall. What IV therapy would you begin immediately?
- Normal saline at 200cc/hr for 24 hours
 - Normal saline at 400cc/hr for 24 hours
 - Normal saline at 150cc/hr for 8 hours, then 75cc/hr for the next 16 hours
 - Normal saline at 300cc/hr for 8 hours, then 150cc/hr for the next 16 hours
 - Normal saline at 600cc/hr for 8 hours, then 300cc/hr for the next 16 hours

- 11) Which of the following statements is incorrect with respect to wound healing?
- a) Epithelialization can occur within 24 hours following primary closure of a wound
 - b) Maximum wound strength is often achieved after 2 years
 - c) Wounds continue to gain strength after collagen synthesis has reached an equilibrium
 - d) Wound contraction is mediated by myofibroblasts
 - e) The incidence of wound infection increases with healing by secondary intention

- 12) Which of the following is not a stage in the development of pressure ulcers?
- a) Ischemia
 - b) Congestion
 - c) Hyperemia
 - d) Ulcer
 - e) Necrosis

- 13) A 45 year old woman with a history of hypothyroidism comes to your office complaining of problems with extending the middle finger of her left hand for the last two months. She complains of a snapping of her finger when she forces extension and on examination, you can feel a nodule on the palmar aspect of her left hand proximal to the third MCP joint. Based on your history and physical exam, you conclude that her symptoms are most likely attributed to stenosing tenosynovitis. Which one of the following options is incorrect:
- a) You suspect that her symptoms are arising at the A-1 pulley. This is the most common site for this condition to arise
 - b) The ring finger is one of the most commonly affected fingers
 - c) This condition is also associated with rheumatoid arthritis and diabetes mellitus
 - d) The most appropriate therapeutic option at this time would be conservative treatment with NSAIDs and steroid injections
 - e) The most appropriate therapeutic option at this time is surgical incision of the A-1 flexor tendon sheath

ANSWERS

1. C
2. C
3. C

4. D
5. C
6. A

7. A
8. D
9. D

10. D
11. E
12. B
13. E