



CE Credit Package 10A

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CE Exams

Repeat Cesarean Section

- When should the field be cleared of sharp and metal objects?**
 - Before the delivery
 - Prior to uterine incision
 - After the shoulders are delivered
 - After the umbilical cord is clamped
- The uterus was palpated to determine ____.**
 - Fetal distress
 - Abnormal uterine action
 - Fetal position
 - Location of umbilical cord
- The __ count is performed ____.**
 - 4th, after the skin is closed
 - 2nd, before the uterus is palpated
 - 1st, after the initial skin incision
 - 3rd, while the peritoneum is closed
- Cord blood gas was ____.**
 - Drawn prior to clamping umbilical cord
 - Sent to pathology for analysis
 - Collected by the neonatal nurse
 - None of the above
- Which of the following is incorrect for this problem?**
 - Bulb syringe, one per infant
 - Core blood vial, one per infant
 - Cord clamp, one per infant
 - Both a. and c.
- The uterine incision was ____.**
 - Carried bilaterally with Lister bandage Scissors
 - Closed in one layers
 - Followed by oxytocin injection
 - Closed prior to cord blood collection
- Indications for cesarean section include:**
 - Diabetes mellitus
 - Placenta previa
 - Ovarian tumors
 - All of the above
- The neonate presented with ____.**
 - Abnormal heart rate
 - Umbilical cord prolapse
 - Breech presentation -footling
 - Dystocia
- The bolster under the patient's right hip reduced pressure on the:**
 - Vena cava
 - Uterus
 - Umbilical cord
 - Femoral artery
- In the final stages of a cesarean section, oxytocin may be administered to ____.**
 - Stimulate lactation
 - Control uterine hemorrhage
 - Decrease postpartum bleeding
 - Prevent uterine rupture

Off-pump Coronary Artery Bypass Grafting

- 1. The first OPCAB was performed in**
 - a. 1954
 - b. 1967
 - c. 1973
 - d. 1995
- 2. What are the main branches of the left main trunk**
 - a. RIMA AND LIMA
 - b. RCA AND PDA
 - c. LAD and left circumflex
 - d. Diagonal and obtuse marginal
- 3. All of the following are risks of conventional CABG except:**
 - a. Systemic Inflammatory Response
 - b. Aortic dissection
 - c. Embolism
 - d. Shorten hospital stay
- 4. OPCAB is beneficial to all of the following except:**
 - a. Jehovah's Witness
 - b. Prone to CVAs
 - c. Need valve replacement
 - d. Heavily calcified aortas.
- 5. The chest incision for OPCAB is called?**
 - a. Midline
 - b. Median sternotomy
 - c. Subxyphoid
 - d. Femoral
- 6. Anesthesia delivers the following drugs for OPCAB except:**
 - a. Milrinone
 - b. Heparin
 - c. Albumin
 - d. Plavix
- 7. The XPOSE device is set at what pressure?**
 - a. 350 mmHg
 - b. 500 mmHg
 - c. 50 mmHg
 - d. 150 mmHg
- 8. Which of the following is not a conduit used in OPCAB?**
 - a. LIMA
 - b. Saphenous vein graft
 - c. Temporal artery graft
 - d. RIMA
- 9. All of these items are placed prior to sternal closure except:**
 - a. Vascular bulldog
 - b. Temporary pacing wires
 - c. Mediastinal chest tube
 - d. Pleural chest tube
- 10. Postoperative arrhythmias can be treated by all of the following except:**
 - a. Cardioversion
 - b. Temporary pacemaker
 - c. Intraaortic balloon pump
 - d. Intravenous medication

Sterilization – Killing the Prehistoric Beast

- 1. What is the minimum time needed to flash sterilize a crile clamp in a gravity displacement sterilizer?**
 - a. 15 min
 - b. 10 min
 - c. 4 min
 - d. 3 min
- 2. What does a chemical indicator measure?**
 - a. Removal of residual air
 - b. Exposure to the sterilization process
 - c. Sterility
 - d. Steam pressure
- 3. Which Blood biological indicator is used in a gravity displacement autoclave?**
 - a. Chemical indicator
 - b. Bowie-Dick
 - c. Blue Lid rapid readout
 - d. Brown Lid rapid readout
- 4. What is the minimum time needed to sterilize a Frazier suction tip in a pre-vac sterilizer?**
 - a. 15 min
 - b. 10 min
 - c. 4 min
 - d. 3 min
- 5. What is the number of minutes that a closed flash pan system should be sterilized in a gravity displacement sterilizer?**
 - a. 3
 - b. 5
 - c. 8
 - d. 10
- 6. Immediate – use sterilization was designed for ____.**
 - a. Quick room turnover
 - b. Instruments that were forgotten during opening
 - c. Sterilizing power equipment
 - d. Instruments that were dropped during surgery
- 7. Bacteria form spores when:**
 - a. Steam is present
 - b. In humid climates
 - c. Unfavorable conditions arise for the bacteria
 - d. Favorable conditions arise for the bacteria
- 8. Biological indicators are routinely run:**
 - a. In the morning
 - b. Daily
 - c. In every load
 - d. Once
- 9. What is the minimum temperature for flash sterilization?**
 - a. 250° F
 - b. 270° F
 - c. 272° F
 - d. 275° F
- 10. What is the purpose of running distilled water through lumens before flash sterilization?**
 - a. To irrigate the cannula
 - b. To pre-clean the lumen
 - c. To allow for steam to heat the lumen
 - d. Hospital policy

When Unexpected Complications Arise During Surgery

1. Which ligaments hold the ovaries in place?
 - a. Suspensory
 - b. Broad
 - c. Ovarian
 - d. All of the above
2. Which unexpected surgical instrument did the surgeon request to drain the uterus?
 - a. Jackson-Pratt drain
 - b. Thoracic trocar
 - c. Gallbladder trocar
 - d. Red Robinson drain
3. ____ attempts were made to close the vaginal cuff by suture.
 - a. 27
 - b. 18
 - c. 23
 - d. 31
4. TAH is not indicated for which of the following?
 - a. Uterine sarcoma
 - b. Ascites
 - c. Tubal malignancy
 - d. Dysfunctional uterine bleeding
5. The round ligament terminates at the _____.
 - a. Anterior cul-de-sac
 - b. Vestibule
 - c. Labia majora
 - d. Fallopian-uterine attachment
6. Care was taken to avoid the _____ when the initial midline incision was made.
 - a. Falciform ligament
 - b. Xiphoid process
 - c. Symphysis pubis
 - d. Umbilicus
7. What size and type of suture was primarily used to control bleeding?
 - a. 1 Chromic
 - b. 2-0 Chromic
 - c. 0 Vicryl
 - d. 2-0 Vicryl
8. Estimated blood loss up to the first time the patient was transported to the ICU:
 - a. 16,000 cc
 - b. 17,000 cc
 - c. 18,000 cc
 - d. 19,000 cc
9. The triangular space at the base of the bladder is called _____.
 - a. Triakates
 - b. Trielcon
 - c. Trigone
 - d. Trilabe
10. The uterine sac was incised with _____.
 - a. Jorgenson scissors
 - b. Metzenbaum scissors
 - c. #10 KB on #3 KH
 - d. Curved Mayo scissors

Blood Pressure

- The kidneys help regulate blood pressure by:**
 - Controlling sodium absorption
 - Providing negative feedback
 - Triggering baroreceptors
 - Providing positive feedback
- Renin is produced...**
 - During a hypotensive episode
 - By the juxtaglomerular apparatus of the kidneys
 - By the liver
 - To decrease cardiac output
- Secondary hypertension may occur with:**
 - Toxemia during pregnancy
 - Vascular and kidney diseases
 - Diabetes
 - All of the above
- _____ is/are not a suspected cause of essential hypertension.**
 - Sodium intake
 - Beta blockers
 - Obesity
 - Sedentary lifestyle
- Diastolic pressure is measured during ____ of Korotkoff's sounds.**
 - Phase II
 - Phase III
 - Phase IV
 - Phase V
- _____ hypertension cannot be attributed to any specific cause.**
 - Genetic
 - Arterial
 - Essential
 - Secondary
- Systolic pressure is heard during ____ of Korotkoff's sounds.**
 - Phase I
 - Phase II
 - Phase III
 - Phase IV
- Following the release of _____, sodium reabsorption _____ in the kidneys.**
 - Angiotensinogen; decreases
 - Aldosterone; increases
 - Angiotensin II; decreases
 - Epinephrine; increases
- A patient who experiences orthostatic hypotension was likely:**
 - Hunched over
 - Standing
 - Lying down
 - Sitting with legs crossed
- Angiotensin II causes:**
 - Decreased fluid reabsorption
 - Renin production in the liver
 - Vasodilation
 - Increased cardiac output

Safety Concepts in the Surgical Setting

1. **When the patient is moving between two surfaces:**
 - a. Three people should be available, one on each side and one at the head
 - b. Four people should be available, two on each side
 - c. Two people should be available, one on each side
 - d. Five people should be available, two on each side, one at the head, one at the foot
2. **Abduction of the upper extremities greater than 90 degrees can lead to:**
 - a. Decreased blood flow
 - b. Brachial plexus palsy
 - c. Skin Breakdown
 - d. Gangrene
3. **The application of force greater than tissue resistance can cause:**
 - a. Ischemia
 - b. Necrosis
 - c. Gangrene
 - d. All of the above
4. **Common pressure points are:**
 - a. Ear, nose, toe
 - b. Elbow, pelvis, head
 - c. Ear, nose, chin
 - d. Elbow, pelvis, back
5. **The force created on skin by the movement of underlying tissues results in**
 - a. Decreased blood flow
 - b. Hyperextension
 - c. Skin irritation
 - d. Contact dermatitis
6. **Thermal tissue injury can result from:**
 - a. Shear force
 - b. Fiberoptic light sources
 - c. Neurovascular compromise
 - d. Class 1 lasers
7. **When using electrosurgery, what must be applied to the patient to deliver the current back to the electrosurgery unit?**
 - a. Active electrode
 - b. Patient return electrode
 - c. Electrosurgical generator
 - d. Electrical switch
8. **How is a laser similar to an endoscope?**
 - a. Both emit light
 - b. Both are dependent on photon energy
 - c. Both produce gamma rays
 - d. Both rely on sound waves
9. **A medicated patient is never left alone in order to prevent:**
 - a. Hyperextension
 - b. Dislodging of tubes and catheters
 - c. Falls
 - d. Cardiovascular complications
10. **If a team member is exposed to an infrared laser, he or she**
 - a. Feels immediate pain
 - b. Loses eyesight immediately
 - c. May hear a popping noise
 - d. Experiences photokeratitis

Necrotizing Fasciitis

- 1. Group A hemolytic streptococcus may cause:**
 - a. Impetigo
 - b. Necrotizing fasciitis
 - c. Strep
 - d. All of the above
- 2. The effectiveness of *streptococcus pyogenes* can be attributed to:**
 - a. Colonizing and rapidly multiplying
 - b. Creating an abscess
 - c. Developing fluid-filled blisters
 - d. Secreting powerful exotoxins
- 3. Bacteroides often reside in the**
 - a. Liver
 - b. Lungs
 - c. Intestine
 - d. Mouth
- 4. Which of the following is not normally inhabited by bacterium?**
 - a. Intestine
 - b. Muscle
 - c. Mouth
 - d. Nasopharynx
- 5. Which of the following carries the highest risk for the transmission of NF?**
 - a. Diabetes
 - b. Alcoholism
 - c. Open skin wound
 - d. Cancer
- 6. Which comorbid condition carries the greatest risk for the patient to be infected by NF?**
 - a. Cancer
 - b. Alcoholism
 - c. Diabetes
 - d. all of the above
- 7. Advanced symptoms of NF include:**
 - a. Blisters increase in size
 - b. Drop in blood pressure
 - c. Peeling or discolored skin
 - d. All of the above
- 8. Doctors and patients often fail to recognize NF because it:**
 - a. Resembles the flue
 - b. NO apparent wound
 - c. Body begins to decompose
 - d. Discoloration of skin spreads
- 9. Methods of treatment utilize:**
 - a. Hyperbaric chambers
 - b. Leeches
 - c. NSAIDS
 - d. Aspirin
- 10. Death from necrotizing fasciitis is correlated to:**
 - a. How early the diagnosis is made
 - b. How soon treatment began
 - c. Gas in the subcutaneous fascial planes
 - d. a&b

Necrotizing Fasciitis – questions Continued

11. Which of the following microbiological staining methods can be used to determine whether a type I or type II infection is present?
- Acid – FAST
 - Gram
 - Simple
 - Negative
12. Which of the following antibiotic is an alternative to penicillin G?
- methicillin.
 - benzathine.
 - amoxicillin.
 - clindamycin.
13. A common region of the body in which group A hemolytic streptococcus may be found is the.
- colon.
 - lungs.
 - skin.
 - liver.
14. The gaseous toxin of *streptococcus pyogenes* is released
- When cell death occurs due to invasion by bacteriophages.
 - From the bacterial cell wall.
 - When antitoxins invade causing cellular lysis.
 - When the cell binds to the plasma membrane of an organ.
15. Which of the following antibiotics is ineffective against *Peptostreptococcus*?
- penicillin G
 - chloramphenicol
 - metronidazole
 - ampicillin
16. Routine X-rays are not considered a reliable method for diagnosing NF because the
- Contrast media are ineffective in aiding in the diagnosis of NF.
 - Detection of gas can be due to many other factors.
 - Radiographs cannot adequately show the fascial planes.
 - Infection is superficial and will not appear on the radiographs.
17. Mechanical debridement is not often used due to
- the removal of healthy tissue
 - inadequate removal of dead tissue.
 - contributing to the spread of the bacteria to healthy tissue.
 - time inefficiency allowing spread of the bacteria.
18. ____ of adult reported cases of NF report toxic shock and multi-organ failure.
- 12%
 - 25%
 - 37%
 - 50%
19. Which of the following bacteria is increasingly causing NF?
- Helicobacter pylori*
 - MRSA*
 - Escherichia coli*
 - Pseudomonas aeruginosa*
20. The number of reported cases of GAS disease in the U.S. is ____ the number of strep throat cases.
- equal to
 - more than
 - less than
 - variable as compared to

Treatment of War Casualties

1. Today, __ percent of GIs reaching a field hospital survive the ordeal.
 - a. 69.7
 - b. 75.4
 - c. 76.4
 - d. 90.5
2. Uncontrollable hemorrhage accounts for almost __ percent of combat fatalities.
 - a. 30
 - b. 40
 - c. 50
 - d. 60
3. This article compared the wounds experienced in __ and __.
 - a. Germany and Vietnam
 - b. Vietnam and Iraq
 - c. Iraq and Germany
 - d. Japan and North Korea
4. The surgeon began his tour of duty in Vietnam with a __ orientation phase.
 - a. 1 week
 - b. 2 week
 - c. 3 week
 - d. 1 month
5. Since cause of death is still exsanguination, surgeons say __ are still the single greatest life-saving device in the Iraq conflict.
 - a. Tourniquets
 - b. Stents
 - c. Montgomery straps
 - d. Stent dressing
6. The concept of the Forward Surgical Team was developed after the ____.
 - a. American Revolutionary War
 - b. Civil War
 - c. Gulf War
 - d. World War II
7. Primary blast injuries which cause damage mainly to gas-filled structures, such as eardrums, lungs and ____.
 - a. Arteries
 - b. Pancreas
 - c. Kidneys
 - d. Intestines
8. During the Vietnam War, the average length of time from initial treatment to transfer to the continental United States was __ days.
 - a. 45
 - b. 46
 - c. 47
 - d. 48
9. Which tourniquet is not 100 percent effective in occluding distal arterial Doppler sound in the arms and legs?
 - a. Emergency & Military Tourniquet
 - b. Combat Application Tourniquet
 - c. Special Operations Force Tactical Tourniquet
 - d. War Applications Tourniquet
10. Intravenous treatment begins with procoagulants and whole blood, type __, followed by fresh whole blood with thawed plasma instead of crystalloids.
 - a. AB+
 - b. AB-
 - c. O
 - d. B+

Wrist Fusion: Fighting Back Against Rheumatoid Arthritis

- 1. Diagnosis of rheumatoid arthritis does not involve:**
 - a. Reviewing family history
 - b. Examining joints for inflammation and deformity
 - c. Blood tests
 - d. Stress tests
- 2. A/an _____ utilizes a sterile needle and syringe to drain joint fluid.**
 - a. Arthrocentesis
 - b. Arthroscopy
 - c. Spinal tap
 - d. Synovectomy
- 3. _____ develops during the early, acute inflammatory stage.**
 - a. Subluxation of the ulna
 - b. Intrinsic contracture
 - c. Fixed DRUJ
 - d. Bony compression
- 4. _____ bones are the long bones in the palm.**
 - a. Phalanges
 - b. Trapezium
 - c. Carpal
 - d. Metacarpal
- 5. The proximal row does not include the:**
 - a. Scaphoid
 - b. Lunate
 - c. Trapezoid
 - d. Pisiform
- 6. The ___ coordinates the movement of the distal and proximal rows.**
 - a. Radius
 - b. Scaphoid
 - c. Hamate
 - d. Carpal
- 7. Carpal bones connect the _____ and _____ to the bones in the hand.**
 - a. Capitate and trapezium
 - b. Scaphoid and pisiform
 - c. Radius and ulna
 - d. Trapezoid and lunate
- 8. Second-line drugs include all but:**
 - a. Cortisone
 - b. Methotrexate
 - c. Gold salts
 - d. Adalimumab
- 9. If the _____ is not fused, a patient will have continued rotation in the hand.**
 - a. Radius
 - b. Hamate
 - c. Ulna
 - d. Lunate
- 10. Fusing wrist bones together may:**
 - a. Prevent deformity
 - b. Eliminate pain
 - c. Improve alignment
 - d. All of the above

Wrist Fusion: Fighting Back Against Rheumatoid Arthritis – questions cont.

11. The intraoperative phase of a wrist fusion begins with

a:

- a. Dissection down the extensor retinaculum
- b. Opening of the radiocarpal joint
- c. Dorsal, longitudinal incision over Lister tubercle
- d. Synovectomy

12. Types of NSAIDs are:

- a. Subluxation of the ulna
- b. Traditional NSAIDs
- c. Cox-2 selective inhibitors
- d. All of the above

13. Prostaglandins do all but:

- a. Promote inflammation
- b. Facilitate the function of blood platelets
- c. Protect the stomach lining
- d. Halt joint damage

14. Disease-modifying anti-rheumatic drugs are effective in

- a. Rheumatoid arthritis
- b. Psoriatic arthritis
- c. Ankylosing spondylitis
- d. All of the above

15. _____ is a hormone produced in the adrenal gland.

- a. Calcitonin
- b. Thyroxine
- c. Cortisol
- d. GnRh

16. Steroids are used to alleviate:

- a. Lupus
- b. Rheumatoid arthritis
- c. Vasculitis
- d. All of the above

17. _____ stimulate or restore the ability of the immune system to fight disease or infection.

- a. Analgesics
- b. Corticosteroids
- c. BRMs
- d. Cox-2

18. _____ block the Cox enzymes and reduce prostaglandins.

- a. Steroids
- b. Analgesics
- c. BRMs
- d. NSAIDS

19. The distal ulnar resection was performed using a/an:

- a. Oscillating saw
- b. Burr
- c. Osteotome
- d. Bone cutting forceps

20. Which of the following is not a first-line drug?

- a. Methylprednisolone acetate
- b. Cortisone
- c. Hydroxychloroquine
- d. Aspirin

Disasters Follow No Rules: Preparing Your Hospital for Disaster Response

- 1. What is the easiest way to designate a patient's status at a disaster scene?**
 - a. A simple spreadsheet
 - b. Move patients to screening areas
 - c. Triage tags
 - d. Mobile rescue units
- 2. The central focus of disaster triage is:**
 - a. Stabilize patient that cannot walk
 - b. Find and tag patients that require immediate care
 - c. Providing definitive care
 - d. Stabilizing critically injured patients
- 3. ____ medical care improves the casualty's condition.**
 - a. Expert
 - b. Specialized
 - c. Definitive
 - d. General
- 4. Casualty collection sites should not be located:**
 - a. On hospital property
 - b. Downwind from hazards
 - c. Downhill from contaminated areas
 - d. All of the above
- 5. "Decompressing" a disaster scene means:**
 - a. Evacuating patients who are consuming resources
 - b. Dismissing excess medical staff
 - c. Expanding the search parameters for survivors
 - d. Frequently re-triaging patients
- 6. The ____ simplifies communication among disaster responders:**
 - a. Emergency Response System
 - b. Incident Command System
 - c. Emergency Response Network
 - d. Disaster Preparedness System
- 7. Using the START method, triage evaluation should take:**
 - a. 15 seconds
 - b. 30 seconds
 - c. One minute
 - d. Up to two minutes
- 8. During disaster triage, if a patient does not start breathing after simple airway maneuvers:**
 - a. Immediately move patient to secondary care facility
 - b. Tag as red/immediate and move on
 - c. Tag as black/dead and move on
 - d. Call for assistance
- 9. Which scenario has the greatest casualty potential?**
 - a. A terrorist attack on a major city
 - b. A natural disaster
 - c. A nuclear power plant meltdown
 - d. A pandemic disease outbreak
- 10. What was the greatest pandemic in US history?**
 - a. Spanish Flu
 - b. Avian (Bird) Flu
 - c. West Nile Virus
 - d. SARS

Disasters Follow No Rules: Preparing Your Hospital – questions cont.

11. **What is a hospital's first response to a disaster scenario?**
 - a. Postpone all elective surgeries
 - b. Divert all EMS units not arriving from disaster scene
 - c. Place hospital under security lockdown
 - d. All of the above

12. **Surging in a place does not involve**
 - a. Rapidly discharge existing patients
 - b. Canceling scheduled elective procedures
 - c. Hiring more support personnel
 - d. Increasing the number of patient-care staff

13. **A key reason for hospitals losing money is:**
 - a. Increasing cost of energy
 - b. Underfunding of Medicare and Medicaid
 - c. High costs of updating equipment
 - d. Personnel salaries

14. **The National Implementation Plan does not include:**
 - a. Preparedness and communication
 - b. Initiating an emergency response alert
 - c. Surveillance and detection
 - d. Response and containment

15. **Natural disasters do not include:**
 - a. Hurricanes
 - b. Mine cave-ins
 - c. Floods
 - d. Earthquakes

16. **A Mass casualty event is defined as:**
 - a. An incident that produces a sufficient number of casualties to disrupt normal functions
 - b. An event that affects more than one million people
 - c. An occurrence that is the result of terrorism
 - d. An event that involves only facilities

17. **The most important mission in a disaster response scenario is:**
 - a. Communicating the location
 - b. Alerting the national guard
 - c. Triage
 - d. Alerting evacuation teams

18. **Disaster triage excludes:**
 - a. Providing the greatest good for the patient
 - b. Response teams prioritizing the casualties
 - c. Orderly treatment
 - d. Best use of equipment

19. **___ identifies a patient who will not survive without immediate treatment.**
 - a. Black
 - b. Red
 - c. Yellow
 - d. Green

20. **Which triage color is used to identify “walking wounded” patients?**
 - a. Green
 - b. Yellow
 - c. White
 - d. Orange

Disasters Follow No Rules: Preparing Your Hospital – questions cont.

21. ____ provides a common organizational structure and language to simplify communication.
- START method
 - Incident Command System
 - Emergency Medical Response
 - Decompressing
22. Small aircraft evacuation can be characterized by:
- Simple and generally available
 - More efficient
 - High cost and complexity
 - Removal of critical resources
23. More patients' lives can be saved through:
- Temporizing damage-control surgery
 - Definitive surgery
 - Long-lasting surgical intervention
 - Use of sophisticated technology
24. ICS is built around:
- Command/Operations
 - Planning/Logistics
 - Administration/Financial
 - All of the above
25. ____ is when hospitals incorporate the ICS into their emergency preparedness plans:
- Triage
 - HEICS
 - Definitive medical care
 - SARS
26. Definitive medical care is provided in:
- An existing hospital
 - Mobile facility
 - A and B
 - None of the above
27. ____ determines the organizational hierarchy of the ICS:
- Job titles
 - Seniority
 - Academic degree
 - Functional requirements
28. ____ infected 2-0-40 percent of the world's population
- SARS
 - Saran
 - Spanish Flu
 - Bubonic Plague
29. The Spanish Flu caused death by:
- Bacterial pneumonia
 - Massive hemorrhages
 - Edema in the lungs
 - All of the above
30. A pandemic outbreak can result in:
- Economic downturn
 - Mass quarantine
 - Overwhelmed medical community
 - All of the above

Pain Management for Patients with a Substance Abuse History

- 1. Health care workers should be cautious when prescribing opioids to ____.**
 - a. Transplant recipients
 - b. Cardiac patients
 - c. Diabetic patients
 - d. Recovering addicts
- 2. One component of pain is ____.**
 - a. Physical
 - b. Pre-existing
 - c. Pain scale
 - d. Recovering addicts
- 3. The emotional components of pain include:**
 - a. Anger
 - b. Sadness
 - c. Depression
 - d. All of the above
- 4. Acute pain in postoperative surgical patients is due to:**
 - a. Emotional distress
 - b. Preexisting disease
 - c. Surgical procedure
 - d. A combination of B and C
- 5. ____ leads to a rise in heart rate, increased oxygen consumption and overall cardiac workload.**
 - a. Opioid prescription
 - b. Unrelieved pain
 - c. Arterial blockage
 - d. Intoxication
- 6. ____ is a chronic, relapsing and treatable disease characterized by lack of control over consumption and compulsive use despite harmful consequences.**
 - a. Addiction
 - b. Diabetes
 - c. Crohn's
 - d. Arthritis
- 7. The most important step in proper postoperative pain management is:**
 - a. Administration of prescription drugs
 - b. Maintaining the dopamine pathway
 - c. Proper preoperative assessment
 - d. Understanding and treating a patient's addiction
- 8. An example of a pain assessment tool is a:**
 - a. Numerical scale
 - b. Visual analog scale
 - c. Picture scale
 - d. All of the above
- 9. A patient's altered level of consciousness in the acute postoperative phase of care due to intraoperative anesthetics makes it hard to successfully administer:**
 - a. An IV drip
 - b. Oral analgesics
 - c. A pain assessment
 - d. All of the above
- 10. Physical indications of pain in the acute postoperative setting include;**
 - a. Sweating
 - b. Elevated heart rate
 - c. Trouble moving/taking deep breaths
 - d. All of the above

Pain Management for Patient's with a Substance Abuse History – questions cont.

11. **One way to help ensure postoperative pain management for a patient with a history of opioid addiction is:**
- Obtain a preoperative substance abuse history
 - Consult an addictionologist
 - Administer frequent pain scale tests
 - Begin a preoperative pain management regimen
12. **Which of the following is not an alternative pain treatment?**
- Electric shock therapy
 - Local and regional anesthesia
 - Epidural blocks
 - Local pain pumps
13. **Postoperative fears for opioid-dependent patients may include:**
- Being judged by the care giver
 - Suffering a relapse into drug use
 - Not receiving enough pain medication
 - All of the above
14. **Blocking the action of cyclooxygenase and inhibiting prostaglandin production can be accomplished with:**
- Steroid treatment
 - A Clonidine patch
 - NSAID therapy
 - All of the above
15. **___ is a synthetic narcotic used to treat opioid addiction.**
- Heroin
 - Clonidine
 - Methadone
 - Prednisone
16. **Methadone is used in the treatment of addiction to:**
- Opiates
 - Alcohol
 - Methamphetamines
 - All of the above
17. **Side effects of Methadone use include:**
- Impairs cognitive functions
 - Debilitating drowsiness
 - Liver damage
 - Methadone has no serious side effects
18. **Opiates provide a flood of ___, which causes the euphoric high associated with drug use.**
- Epinephrine
 - Dopamine
 - Endorphins
 - Morphine
19. **The preoperative assessment for a substance abuser should include:**
- The patient's drug history
 - The patient's recovery history
 - A full physical
 - All of the above
20. **Patients who take opiates in large doses have a higher ___.**
- Pain threshold
 - Drug-seeking behavior
 - Tolerance
 - B & C

Gangrene: Recognizing and Treating Cellular Necrosis

- 1. Which is not the one of the three most common variations of gangrene?**
 - a. Gas
 - b. Dry
 - c. Internal
 - d. Wet
- 2. Fournier's gangrene affects the ____.**
 - a. Fingers
 - b. Genitals
 - c. Feet
 - d. Hands
- 3. The best treatment for gangrene is ____.**
 - a. Revascularization
 - b. Amputation
 - c. Maggot debridement therapy
 - d. Antibiotic therapy
- 4. Gangrene occurs when a body part ____.**
 - a. Becomes infected
 - b. Loses its blood supply
 - c. Is diseased
 - d. Loses feeling
- 5. What disease often contributes to the occurrence of dry gangrene?**
 - a. HIV
 - b. High cholesterol
 - c. Smoking
 - d. Arteriosclerosis
- 6. Symptoms of gangrene include ____.**
 - a. Swelling of the affected area
 - b. Discoloration of affected tissue
 - c. Decreased heart rate
 - d. All of the above
- 7. ____ can occur if a bacterial infection from gangrene spreads throughout the body.**
 - a. Septic shock
 - b. Necrosis
 - c. Ischemia
 - d. Decompression
- 8. The tissue becoming dry, shrunken and blackened describes ____ gangrene.**
 - a. Wet
 - b. Gas
 - c. Dry
 - d. Internal
- 9. Which of the following are symptomatic of wet gangrene?**
 - a. Swelling
 - b. Blistering
 - c. Pungent odor
 - d. All of the above
- 10. Burns, frostbite and wound infections can result in ____ gangrene.**
 - a. Wet
 - b. Gas
 - c. Dry
 - d. Internal

Gangrene : Recognizing and Treating Cellular Necrosis - questions cont.

11. Gas gangrene should ___ be treated as a medical emergency.
- Always
 - Sometimes
 - Never
 - Depends on the patient
12. A hernia, or a twist in the gastro-intestinal tract can result in ___ gangrene
- Wet
 - Gas
 - Dry
 - Internal
13. X-ray technology can be helpful in diagnosing ___ gangrene.
- Wet
 - Gas
 - Dry
 - Internal
14. Sweating, difficulty breathing and convulsions can be signs of ___.
- Bacterial infection
 - Oxygen toxicity
 - Fournier's gangrene
 - Bacteriostasis
15. The primary function(s) of MDT is/are:
- Clean the wound
 - Disinfect the wound
 - Speed the rate of healing
 - All of above
16. ___ larvae are the preferred species for MDT.
- Horse fly
 - Greenbottle fly
 - Fruit fly
 - All of the above
17. Medical maggots are generally left in the wound for ___ days.
- 1-2
 - 2-3
 - 304
 - 4-5
18. The risks associated with MDT include:
- There are no inherent risks
 - Larvae attacking living tissues
 - Larvae burrowing into the wound and breeding
 - b and c
19. It has been reported, though unproven in clinical studies, that maggots can:
- Improve blood clotting ability
 - Stimulate the production of granulation tissue
 - Remove bacteria from the blood
 - All of the above
20. Medical grade maggots are:
- Sterile
 - Safe
 - A legitimate treatment option
 - All of above

Answers CE CREDIT PKG 10A: 22 CONTINUING EDUCATION CREDITS

Certified Member

AST Member No: _____

Name: _____

Certification No: _____

Address: _____ City: _____ State: _____ Zip: _____

Telephone: _____ Email: _____

CE Credit PKG 10A: 22 CONTINUING EDUCATION CREDITS

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Check Enclosed Yes, I want to pay by Credit Card: Visa MasterCard AmEx

Card# _____ Expiration Date _____ Signature _____

Repeat Cesarean Section

a	b	c	d	a	b	c	d		
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mark one box next to each number. Only one correct or best answer will be selected for each question.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Off- pump Coronary Artery Bypass Grafting

a	b	c	d	a	b	c	d		
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mark one box next to each number. Only one correct or best answer will be selected for each question.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Sterilization – Killing Prehistoric Beast

a	b	c	d	a	b	c	d		
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mark one box next to each number. Only one correct or best answer will be selected for each question.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

When Unexpected Complications Arise During Surgery

a	b	c	d	a	b	c	d		
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mark one box next to each number. Only one correct or best answer will be selected for each question.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Blood Pressure

a	b	c	d	a	b	c	d		
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mark one box next to each number. Only one correct or best answer will be selected for each question.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Safety Concepts in the Surgical Setting

a	b	c	d	a	b	c	d		
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mark one box next to each number. Only one correct or best answer will be selected for each question.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Necrotizing Fasciitis

a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d			
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mark one box next to each number. Only one correct or best answer will be selected for each question.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Treatment of War Casualties

a	b	c	d	a	b	c	d		
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mark one box next to each number. Only one correct or best answer will be selected for each question.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Wrist Fusion: Fighting Back Against Rheumatoid Arthritis

a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d				
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Mark one box next to each number. Only one correct or best answer will be selected for each question.

Disasters Follow No Rules: Preparing Your Hospital For Disaster Response

a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d					
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	21.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	27.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	28.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	23.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	30.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Mark one box next to each number. Only one correct or best answer will be selected for each question.

Pain Management for Patients with a Substance Abuse History

a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d				
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
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5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Mark one box next to each number. Only one correct or best answer will be selected for each question.

Gangrene: Recognizing and Treating Cellular Necrosis

a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d				
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Mark one box next to each number. Only one correct or best answer will be selected for each question.