

# CEExam

270 JUNE 2006 1 CE CREDIT

## Ethics in the O.R. setting, part I

### Earn CE credits at home

You will be awarded continuing education (CE) credit(s) for recertification after reading the designated article and completing the exam with a score of 70% or better.

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Members: \$6 per CE, nonmembers: \$10 per CE

1. The bioethical principle of \_\_\_\_\_ states that patients have the right to self-determination.
  - a. integrity
  - b. autonomy
  - c. veracity
  - d. reciprocity
2. The bioethical principle of \_\_\_\_\_ states that practitioners will be honest.
  - a. veracity
  - b. solidarity
  - c. integrity
  - d. justice
3. The bioethical principle of \_\_\_\_\_ states that practitioners will monitor and correct breaks in aseptic technique.
  - a. loyalty
  - b. surgical conscience
  - c. veracity
  - d. respect for life
4. The bioethical principle of \_\_\_\_\_ states that all patient information be kept private.
  - a. confidentiality
  - b. efficiency
  - c. reciprocity
  - d. compassion
5. The bioethical principle of \_\_\_\_\_ states that all interventions should help the patient more than cause harm.
  - a. fidelity
  - b. justice
  - c. non-maleficence
  - d. beneficence
6. The bioethical principle of \_\_\_\_\_ states that practitioners will maintain an up-to-date knowledge and skills base.
  - a. efficiency
  - b. solidarity
  - c. currency
  - d. loyalty
7. The bioethical principle of \_\_\_\_\_ states that patients have the right to be told the truth during the process of making decisions regarding their healthcare.
  - a. integrity
  - b. autonomy
  - c. veracity
  - d. reciprocity
8. The bioethical principle of \_\_\_\_\_ states that practitioners will tell the truth.
  - a. fidelity
  - b. solidarity
  - c. respect for community
  - d. justice
9. The bioethical principle of \_\_\_\_\_ states that professionals will strive to alleviate patient suffering.
  - a. currency
  - b. autonomy
  - c. reciprocity
  - d. compassion
10. The bioethical principle of \_\_\_\_\_ states that the degree of harm caused during an intervention should not outweigh the benefits derived from the care.
  - a. confidentiality
  - b. justice
  - c. autonomy
  - d. beneficence

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### Ethics in the O.R. setting, part I

Certified Member     Certified Nonmember

Certification No. \_\_\_\_\_

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

# CE Exam

271 JULY 2006 1 CE CREDIT

## Ethics in the O.R. setting, part II

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1. Utilitarian ethics involves choosing a solution that:
  - a. Is cost-effective
  - b. Provides for individual autonomy
  - c. Benefits the greatest number of people
  - d. Considers the concept of self-determination
2. Deontological ethics involves choosing a solution that:
  - a. Meets the individual's needs and wishes
  - b. Allocates resources equitably
  - c. Benefits all members of society
  - d. Does not consider the concept of self-determination
3. Ethical considerations associated with elective abortion include:
  - a. Maternal complications and risk factors
  - b. Fetal "point of viability"
  - c. Patient out-of-pocket cost
  - d. Patient age
4. Elective sterilization is:
  - a. Supported by all religions
  - b. A means of preventing conception
  - c. Effective only on male patients
  - d. Often ordered by judges in criminal cases
5. Medical experimentation is:
  - a. Rarely done on humans
  - b. Only performed on animals
  - c. A necessary part of scientific research
  - d. Usually done without patient consent
6. Some of the ethical issues associated with organ donation include:
  - a. Black market buying and selling of organs
  - b. The cost of surgery, follow-up care, and anti-rejection medications
  - c. Selecting organ recipients
  - d. All of the above
7. Drug and substance abuse by health care workers violates the principle of:
  - a. Self-determination
  - c. Veracity
  - b. Non-maleficence
  - d. Fidelity
8. The condition where one perceives themselves to be psychologically and emotionally the opposite sex is termed:
  - a. Gender dysphoria
  - c. Phimosis
  - b. Sexual dimorphism
  - d. Hermaphroditism
9. The surgical patient has the right to refuse treatment under the Patient's Bill of Rights developed by:
  - a. AORN
  - c. AAMI
  - b. AST
  - d. AHA
10. The concept where that action that another practitioner of equal education and preparation would undertake in the same situation under the same circumstance is called the doctrine of:
  - a. Reasonably Prudent Person
  - b. Foreseeability
  - c. Res Ipsa Loquitur
  - d. Master-Servant

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### Ethics in the O.R. setting, part II

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## Safety concepts in the surgical setting

### Earn CE credits at home

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**Note this exam awards two continuing education credits. Members: \$12, nonmembers: \$20**

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 device delivers the current to the patient?
  - a. Active electrode
  - b. Inactive dispersive 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. An anesthetized 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

### Safety concepts in the surgical setting

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## Necrotizing fasciitis

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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. Bacteriodes often reside in the
 

a. Liver	c. Intestine
b. Lungs	d. Mouth
  
4. When bacteria invades parts of the body where they are usually not found, the infection is called:
  - a. Toxic shock syndrome
  - b. Invasive GAS disease
  - c. Hepatitis C
  - d. Chickenpox
  
5. \_\_\_\_\_ plays a critical role in the transmission of NF.
  - a. History of alcoholism
  - b. Open wound
  - c. Hygiene
  - d. Diabetes
  
6. Factors that help the spread of NF include:
  - a. Cancer
  - b. Alcoholism
  - c. Hepatitis C
  - 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 flu
  - 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

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11. Which of the following microbiological staining methods can be used to determine whether a type I or type II infection is present?

- a. Acid-Fast
- b. Gram
- c. Simple
- d. Negative

12. In patients with an allergy to penicillin, the surgeon may prescribe

- a. methicillin.
- b. benzathine.
- c. amoxicillin.
- d. clindamycin.

13. A common region of the body in which group A hemolytic streptococcus may be found is the

- a. colon.
- b. lungs.
- c. skin.
- d. liver.

14. The gaseous toxin of *streptococcus pyogenes* is released

- a. when cell death occurs due to invasion by bacteriophages.
- b. from the bacterial cell wall.
- c. when antitoxins invade causing cellular lysis.
- d. when the cell binds to the plasma membrane of an organ.

15. Which of the following antibiotics is ineffective against *Peptostreptococcus*?

- a. metronidazole
- b. chloramphenicol
- c. penicillin G
- d. ampicillin

16. Routine X-rays are not considered a reliable method for diagnosing NF because the

- a. contrast medias are ineffective in aiding in the diagnosis of NF.
- b. detection of gas can be due to many other factors.
- c. radiographs cannot adequately show the fascial planes.
- d. infection is superficial and will not appear on the radiographs.

17. Mechanical debridement is not often used due to

- a. the removal of healthy tissue.
- b. inadequate removal of dead tissue.
- c. contributing to the spread of the bacteria to healthy tissue.
- d. time inefficiency allowing spread of the bacteria.

18. \_\_\_\_\_ of adult reported cases of NF report toxic shock and multi-organ failure.

- a. 12%
- b. 25%
- c. 37%
- d. 50%

19. Which of the following bacteria is increasingly causing NF?

- a. *Helicobacter pylori*
- b. *Staphylococcus aureus*
- c. *Escherichia coli*
- d. *Pseudomonas aeruginosa*

20. The number of reported cases of GAS disease in the U.S. is \_\_\_\_\_ the number of strep throat cases.

- a. equal to
- b. more than
- c. less than
- d. variable as compared to

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**Necrotizing faciitis**

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## Disasters

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*Note this exam awards three continuing education credits.*

**Members: \$18, nonmembers: \$30**

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 patients 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 seriously-injured casualties
  - 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

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11. What is a hospital's first response to a disaster scenario?

- a. Surge in place
- b. Cancel all elective surgeries
- c. Divert all incoming non-disaster patients
- d. Place the hospital under secure lockdown

12. Surging in 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 fatalities

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. After the critically injured are treated, the \_\_\_\_\_ tagged patients are seen.

- a. Yellow
- b. Green
- c. White
- d. Orange

**Disasters**

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21. \_\_\_\_\_ provides a common organizational structure and language to simplify communication.

- a. START method
- b. Incident Command System
- c. Emergency Medical Response
- d. Decompressing

22. Small aircraft evacuation can be characterized by:

- a. Simple and generally available
- b. More efficient
- c. High cost and complexity
- d. Removal of critical resources

23. More patients' lives can be saved through:

- a. Temporizing damage-control surgery
- b. Definitive surgery
- c. Long-lasting surgical intervention
- d. Use of sophisticated technology

24. ICS is built around:

- a. Command/Operations
- b. Planning/Logistics
- c. Administration/Financial
- d. All of the above

25. \_\_\_\_\_ is when hospitals incorporate the ICS into their emergency preparedness plans:

- a. Triage
- b. HEICS
- c. Definitive medical care
- d. SARS

26. Definitive medical care is provided in:

- a. An existing hospital
- b. Mobile facility
- c. A and B
- d. None of the above

27. \_\_\_\_\_ determines the organizational hierarchy of the ICS:

- a. Job titles
- b. Seniority
- c. Academic degree
- d. Functional requirements

28. \_\_\_\_\_ infected 20-40 percent of the world's population.

- a. SARS
- b. Saran
- c. Spanish Flu
- d. Bubonic Plague

29. The Spanish Flu caused death by:

- a. Bacterial pneumonia
- b. Massive hemorrhages
- c. Edema in the lungs
- d. All of the above

30. A pandemic outbreak can result in:

- a. Economic downturn
- b. Mass quarantine
- c. Overwhelmed medical community
- d. All of the above

**Disasters**

	a	b	c	d		a	b	c	d
21	<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"/>
22	<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"/>
23	<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"/>
24	<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"/>
25	<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"/>



# CEExam

300 DECEMBER 2008 2 CE CREDITS

## Gangrene

### Earn CE credits at home

You will be awarded continuing education (CE) credit(s) for recertification after reading the designated article and completing the exam with a score of 70% or better.

If you are a current AST member and are certified, credit earned through completion of the CE exam will automatically be recorded in your file—you do not have to submit a CE reporting form. A printout of all the CE credits you have earned, including Journal CE credits, will be mailed to you in the first quarter following the end of the calendar year. You may check the status of your CE record with AST at any time.

If you are not an AST member or are not certified, you will be notified by mail when Journal credits are submitted, but your credits will not be recorded in AST's files.

Detach or photocopy the answer block, include your check or money order made payable to AST, and send it to Member Services, AST, 6 West Dry Creek Circle, Suite 200, Littleton, CO 80120-8031.

**Note this exam awards two continuing education credits. Members: \$12, nonmembers: \$20**

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

300 DECEMBER 2008 2 CE CREDITS PART 1 OF 2

### Gangrene

Certified Member  Certified Nonmember

My address has changed. The address below is the new address.

Certification No. \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Telephone \_\_\_\_\_

	a	b	c	d		a	b	c	d
1	<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"/>
2	<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"/>
3	<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"/>
4	<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"/>
5	<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"/>

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

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 the above
16. \_\_\_\_\_ larvae are the preferred species for MDT.
- Horse fly
  - Greenbottle fly
  - Fruit fly
  - All are used
17. Medical maggots are generally left in the wound for \_\_\_\_\_ days.
- 1-2
  - 2-3
  - 3-4
  - They crawl out on their own
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 the above

**Gangrene**

	a	b	c	d		a	b	c	d
11	<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"/>
12	<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"/>
13	<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"/>
14	<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"/>
15	<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"/>

# Answers

## CE CREDIT PKG 6: 12 CONTINUING EDUCATION CREDITS

**Certified Member**

AST Member No: \_\_\_\_\_

Name: \_\_\_\_\_ Certification No: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

### CE CREDIT PKG 6: 12 CONTINUING EDUCATION CREDITS

The fee is \$19. This package is only available to AST members.

*Check Enclosed*

Yes, I want to pay by credit card:  Visa  MasterCard  AmEx

Card # \_\_\_\_\_ Expiration Date \_\_\_\_\_ Signature \_\_\_\_\_

### Ethics in the O.R., Part 1

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

### Ethics in the O.R., Part 2

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

### Safety Concepts in the Surgical Setting

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

## Necrotizing Faciitis

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>				
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"/>	<i>Mark one box next to each number. Only one correct or best answer can be selected for each question.</i>				
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"/>						
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"/>						
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"/>						

## Disasters Follow No rules

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>				
1.	<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"/>	17.	<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"/>	10.	<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"/>	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"/>	11.	<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"/>	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"/>	12.	<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"/>	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"/>	13.	<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"/>	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"/>	14.	<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"/>	30.	<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"/>	15.	<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"/>	<i>Mark one box next to each number. Only one correct or best answer can be selected for each question.</i>				
8.	<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"/>	24.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

## Gangrene: Recognizing and Treating Cellular Necrosis

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>				
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"/>	<i>Mark one box next to each number. Only one correct or best answer can be selected for each question.</i>				
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"/>						
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"/>						
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"/>						

**Directions: Complete all 6 answer keys for the exams. Include your check or money order made payable to AST or complete credit card information with the appropriate amount and mail to Members Services, AST, 6 W Dry Creek Circle, Ste 200, Littleton, CO 80120-8031. If paying by credit card, you can fax in the answer keys and credit card payment to AST at 303-694-9169.**