

PRINTED TEST

NAME \_\_\_\_\_ 2018 DATE \_\_\_\_\_

Smith Seminars

Multiple Organ Dysfunction Syndrome

1. \_\_\_\_ Sepsis is a systemic response to \_\_\_\_\_.  
A) Allergies  
B) Blood clots  
C) Infection  
D) None of the above
  
2. \_\_\_\_ Inflammatory mediators release becomes a self-stimulating process (an autocrine), and release of other inflammatory mediators, including:  
A) Interleukin-1 (IL-1)  
B) Platelet activating factor, IL-2, IL-6, IL-8, IL-10, INF  
C) Nitric oxide  
D) All of the above
  
3. \_\_\_\_ Nitric oxide plays a central role in the \_\_\_\_\_ of septic shock.  
A) Vasodilatation  
B) Vasoconstriction  
C) Thermoregulation  
D) None of the above
  
4. \_\_\_\_ Neutrophil entrapment within the pulmonary microcirculation initiates and amplifies the injury to \_\_\_\_\_.  
A) Cardiac ventricles  
B) Alveolar capillary membranes  
C) Collagen  
D) All of the above
  
5. \_\_\_\_ Acute renal failure often accompanies sepsis due to acute \_\_\_\_\_.  
A) Tubular necrosis  
B) Renal vasodilatation  
C) Absorption of cytokines  
D) None of the above
  
6. \_\_\_\_ The microcirculatory injury, which is compounded by the inability of the erythrocytes to navigate the septic microcirculation are caused by \_\_\_\_\_.  
A) Reactive oxygen sepsis  
B) Lytic enzymes  
C) Vasoactive substances (nitric oxide, endothelial growth factors)  
D) All of the above

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7. \_\_\_\_\_ Patients who have developed septic shock require right heart catheterization with a pulmonary artery (Swan-Ganz) catheter in order to \_\_\_\_\_.
- A) Provide an accurate assessment of the volume status of a patient.
  - B) Obtain cardiac output measurement.
  - C) Measure mixed venous oxygenation to determining the status of tissue oxygenation.
  - D) All of the above
8. \_\_\_\_\_ In mild criteria for organ dysfunction, the pulmonary criteria is
- A) ARDS requiring PEEP >10 cm H<sub>2</sub> O and FiO<sub>2</sub> >0.5
  - B) Hypoxia/hypercarbia requiring assisted ventilation for 3-5 days
  - C) Intolerance of gastric feeding for more than 5 days
  - D) None of the above
9. \_\_\_\_\_ The main causes of patients with impaired host defense mechanisms include:
- A) Chemotherapeutic drugs and malignancy
  - B) Severe trauma, burns, and invasive catheters
  - C) Diabetes mellitus, renal or hepatic failure, old age, and ventilatory support
  - D) All of the above
10. \_\_\_\_\_ Clinically occult infiltrates have been detected by routine use of chest radiography in \_\_\_\_\_.
- A) Adults who are febrile without localizing symptoms or signs.
  - B) Patients who are febrile and neutropenic without pulmonary symptoms.
  - C) A & B
  - D) None of the above

# Evaluation Form

Course Sponsor: Smith Seminars (CRCE Sponsor)

Title of Activity: Multiple Organ Dysfunction Syndrome (MODS)

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Learner's achievement of each objective. Rate each on a scale of 1=low 5=high. (Circle One)

## **Objective 1**

Become familiar with the organs that can be affected by multiple organ dysfunction syndrome.

Know the mechanisms of cell injury and resulting organ dysfunction in sepsis leading to MODS.

Have a working knowledge of the staging factors and diagnostic modalities in sepsis.

Know what treatments are available to patients with sepsis and MODS.

1 2 3 4 5

## **Purpose/Goal of this activity**

Attendee will be aware of the current information and will be able to meet the required continuing education.

Relationship of objectives to overall Purpose/Goal of activity.

1 2 3 4 5

If conflict of interest, off-label use, commercial support, or in-kind support were evident in the education component of this program, were you notified? (Circle One)

N/A — not applicable for any of the above

Yes

No

Comments:

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Content was presented without bias of any commercial product or drug. (Circle One)

Yes

No

Comments:

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Will the information you gained from this program change your practice? (Circle One)

Yes

No

Comments:

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Additional comments or suggestions

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## Submission Instructions

Print the test, answer the questions, complete the evaluation, and fill out personal information.

Submission Method #1 – Go to [www.smithseminars.com](http://www.smithseminars.com) complete online test and evaluation

Submission Method #2 – Fax to us at 972-759-9791

Submission Method #3 – Smith Seminars, 3016 W. Hwy 114, Paradise, TX 76073 (if you use this method, your certificate will be dated the day it arrives in the office. If you need your certificate earlier, call the office and you will be instructed to supply the answers on the phone)

AARC members please include AARC membership number, if you have one.

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The test must be completed and passed prior to December 31 of the year of purchase.

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