



**Application for Certificate of Completion**  
***Clinical Description and Epidemiology of Bioterrorism Agents:***  
***Anthrax, Smallpox, and Plague***

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip Code: \_\_\_\_\_

Contact Phone: \_\_\_\_\_ E-mail \_\_\_\_\_

Would you like to receive our monthly e-mail newsletter? Yes \_\_\_ No \_\_\_

Instructions: Below you will find a pretest and a post test that must be completed to qualify for a certificate of completion for the ***Clinical Description and Epidemiology of Bioterrorism Agents: Anthrax, Smallpox, and Plague*** program. These tests will be scored by the Centers for the Study of Bioterrorism and Emerging Infections. You must score 80% or higher on the post test to earn the certificate of completion.

Steps for successful completion:

1. Take the pre test
2. Review all of the material on the CD-ROM including lectures and reading materials
3. Take the post test and check your answers carefully
4. Mail all of the forms to the address listed below.

To receive a certificate of completion for this product please return:

- This application
- Your completed pre and post tests
- The evaluation form

The Centers for the Study of Bioterrorism and Emerging Infections will score your test and issue a certificate to qualified recipients.

***Mailing address:***

**The Centers for the Study of Bioterrorism and Emerging Infections**  
**Saint Louis University School of Public Health**  
**3545 Lafayette Blvd. Suite 300**  
**St. Louis, MO 63104**  
**Phone: (314) 977-8257 • Fax: (314) 977-1674**



## **Pre-Test:**

### ***Clinical Description and Epidemiology of Bioterrorism Agents: Anthrax, Smallpox, and Plague***

**Please circle the letter next to the correct answer for each question.**

- 1. *Why can you not diagnose pneumonic plague solely on a chest x-ray?***
  - A. Chest x-rays can only identify that the patient has a gram negative coccobacillus, but cannot identify the causative agent.
  - B. You must have a positive sputum culture to diagnose pneumonic plague.
  - C. Pneumonic plague does not cause changes on the chest x-ray.
  - D. The chest x-ray will indicate signs of pneumonia, but cannot diagnose the causative agent.
  
- 2. *The mortality rate for pneumonic plague is almost 100%, regardless of whether the patient is treated.***
  - A. True
  - B. False
  
- 3. *Anthrax cannot be transmitted from person to person.***
  - A. True
  - B. False
  
- 4. *Whom should you always notify first of a known or suspected potential bioterrorism event?***
  - A. Infectious Disease Specialist
  - B. CDC
  - C. FBI
  - D. Local Health Department

5. ***Which of the following is the correct isolation precautions required for patients with inhalational anthrax?***
- A. Standard Precautions
  - B. Droplet Precautions
  - C. Contact Precautions
  - D. Airborne Precautions
6. ***Which of the following descriptions fits the Variola Minor smallpox strain?***
- A. Form most likely to be seen in a bioterrorism attack, less virulent strain, mortality < 5%.
  - B. Form most likely to be seen in a bioterrorism attack, more virulent strain, mortality > 30%.
  - C. Prodrome and rash are more severe, more virulent strain, mortality > 30%.
  - D. Less virulent strain, mortality < 5%, prodrome and rash are less severe.
7. ***Lab specimens from patients with smallpox should be sent to which of the following laboratories?***
- A. Hospital (or your facility's equivalent) lab
  - B. State health department reference Laboratory
  - C. CDC
8. ***Patients with inhalational anthrax typically present with which of the following signs?***
- A. Pneumonia on chest x-ray
  - B. Hemoptysis
  - C. Nausea and vomiting
  - D. Mediastinal widening on chest x-ray
  - E. A & B
  - F. B & D
9. ***Which of the following is the correct isolation precautions required for patients with smallpox?***
- A. Standard Precautions
  - B. Contact Precautions
  - C. Droplet Precautions
  - D. Airborne Precautions
  - E. A & B
  - F. B & C
  - G. B & D

- 10. Bleach is the only effective disinfectant for the rooms of patients with smallpox.**
- A. True
  - B. False
- 11. Which of the following is one of the primary differentiating symptoms between pneumonic plague and typical pneumonia?**
- A. Hemoptysis
  - B. Fever
  - C. Prostration
  - D. Productive cough
- 12. Which of the following agents was used to contaminate salad bars in 1984?**
- A. Anthrax
  - B. Salmonella
  - C. Plague
  - D. Botulism Toxin
- 13. Which of the following agents has not been used in a known or suspected bioterrorism attack?**
- A. Enterococcus Facium
  - B. Anthrax
  - C. Smallpox
  - D. Plague
- 14. Potential cases of smallpox should be confirmed before reporting them to the local health department.**
- A. True
  - B. False
- 15. People, including household contacts and caregivers, who come into contact with patients with inhalational anthrax need to be provided prophylactic therapy as soon as possible.**
- A. True
  - B. False

- 16. *People with pneumonic plague require which of the following isolation precautions?***
- A. Standard Precautions
  - B. Droplet (Respiratory) Precautions
  - C. Contact Precautions
  - D. Airborne Precautions
- 17. *Which of the following groups will function as the first responders following a large-scale aerosolized bioterrorism attack?***
- A. Law enforcement
  - B. Healthcare professionals
  - C. Firemen
  - D. Public health professionals
  - E. A & C
  - F. B & D
- 18. *Specimens sent to the state health department reference laboratory must be coordinated through the local health department.***
- A. True
  - B. False
- 19. *Which of the following is not a sign of a potential bioterrorism event:***
- A. An increase in severe respiratory illness
  - B. An increase in the number of patients with nosocomial antibiotic resistant infections
  - C. An unexplained number of dead animals in your area
  - D. An increase in severe morbidity or mortality in your patient population, especially in a previously healthy population
- 20. *Which of the following is the correct animal vector for the transmission of plague?***
- A. Rat
  - B. Flea
  - C. Mosquito
  - D. Rabbit



## **Post-Test:**

### ***Clinical Description and Epidemiology of Bioterrorism Agents: Anthrax, Smallpox, and Plague***

**Please circle the letter next to the correct answer for each question.**

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## Evaluation Form

### *Clinical Description and Epidemiology of Bioterrorism Agents: Anthrax, Smallpox, and Plague*

Please rate the speaker using the following scale (circle one):

<b>PRESENTER EVALUATION</b> Rate speaker each of the following items: Circle appropriately	<b>Poor</b>	<b>Fair</b>	<b>Good</b>	<b>Excellent</b>
<b>Terri Rebmann, RN, MSN, CIC</b>				
Presentation of material	Poor	Fair	Good	Excellent
Knowledge of the subject	Poor	Fair	Good	Excellent
Organization and clarity of content	Poor	Fair	Good	Excellent
Effectiveness of teaching methods	Poor	Fair	Good	Excellent
Overall rating	Poor	Fair	Good	Excellent

How well did the program meet its stated objectives? Circle one.

	<b>Not at all</b>	<b>Partially</b>	<b>Adequately</b>	<b>Very well</b>	<b>Completely</b>
Describe the past and future threat of bioterrorism	1	2	3	4	5
Identify epidemiological clues that may indicate that a bioterrorism attack may have occurred in your community	1	2	3	4	5
Identify the most likely agents to be used in a bioterrorism attack	1	2	3	4	5
Define the clinical description of the three most likely agents to be used: anthrax, smallpox, & plague	1	2	3	4	5

Please take a few minutes to give us constructive feedback. Your candid evaluation of this program will help us plan future programs.

Rate the program on each of the following items:  
Circle appropriately

	Agree strongly	Agree somewhat	Neither agree nor disagree	Disagree somewhat	Disagree strongly
1) The lecture material retained my attention.	1	2	3	4	5
2) The presentation materials were organized.	1	2	3	4	5
3) The CD-ROM format effectively contributed to learning.	1	2	3	4	5
4) The visual aids effectively contributed to learning.	1	2	3	4	5
5) The length of the program was appropriate.	1	2	3	4	5
6) The educational level of the material was appropriate for me.	1	2	3	4	5
7) This program met my expectations.	1	2	3	4	5
8) I would like to receive education on other topics in CD-ROM format.	1	2	3	4	5
9) How long (in minutes) did it take you to complete this program?	_____ Minutes				

### Optional Questions

10) What did you like best about this program?

11) What change(s) would improve this program?

Comments:

**Which of the following best describes your work setting or specialty?**

**Please select as many as apply.**

- Acute care
- Administration
- Burn
- Cardiology/Thoracic
- Dialysis
- ER
- Hem/Oncology
- Home Health
- Intensive Care
- Long term care
- Med/surg
- Neonatal
- Nurse Anesthetist
- Nurse Practitioner
- Nursing School Faculty
- OB
- OR
- Orthopedics
- Outpatient clinic
- Outpatient surgery
- Pediatric
- Psychology
- Public health
- Rehab
- School
- Student
- Other (Please specify)

**Which of the following describes your level of education? Check all that apply.**

- LPN
- RN
- Bachelors Degree
- Masters
- PhD
- Certification (define)

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Other (define)

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