



CENTER FOR
Independent Healthcare Education

Bugs vs. Drugs: The Pharmacist's Challenge Podcast

CE Activity 2

CE POST-TEST, EVALUATION, AND CREDIT INFORMATION

Release Date: Tuesday, April 29, 2008

Expiration Date: Tuesday, June 2, 2009

CE INSTRUCTIONS

To receive credit for your participation in this CE activity, please complete the following steps:

1. Review the CE information for all six episodes within the activity including the target audience, learning objectives, and disclosures.
2. Listen to and review each of the six episodes carefully.
3. Complete the CE Post-test, selecting the most appropriate response to each question.
4. Complete the CE Evaluation Form and Credit Information.
5. Fax the Evaluation Form and Credit Information to (908) 450-3300 or mail to: Center for Independent Healthcare Education, 15 Hook Drive, Milford, NJ, 08848. Documentation of credit will be mailed within 6-8 weeks following receipt of materials.

POST-TEST

Please select the best answer for the following questions and state your answer on the Evaluation Form.

1. Which PK/PD target is predictive of clinical success when treating gram-negative bacterial infections with fluoroquinolones?
 - a. C_{max}
 - b. $AUC/MIC=35$
 - c. $AUC/MIC=125$
 - d. $T>MIC_{40\%}$
2. Which dosing strategy increases the probability of meeting PK/PD targets when treating with time-dependent antimicrobial agents?
 - a. Using a higher dose
 - b. Prolonging the infusion time
 - c. Lengthening the dosing interval
 - d. Shortening the infusion time
3. According to a study by Tam and colleagues involving meropenem, achieving which of the following PK/PD criteria is necessary to prevent resistance emergence in *P. aeruginosa*?
 - a. $T>MIC_{50\%}$
 - b. $T>MIC_{100\%}$
 - c. $T>MIC_{100\%}$ and $C_{min}/MIC >2$
 - d. $T>MIC_{100\%}$ and $C_{min}/MIC \geq 6$
4. According to the IDSA/SHEA guidelines on antimicrobial stewardship, who are the core members of the antimicrobial stewardship team?
 - a. Infectious diseases physician and microbiologist
 - b. Hospital epidemiologist and information technologist
 - c. Infectious diseases physician and clinical pharmacist with infectious diseases training
 - d. Clinical pharmacist and information technologist
5. The antimicrobial stewardship program of the University of Kentucky Hospital has resulted in cumulative pharmacy savings (inflation adjusted) from 1998 to 2004 of . . .
 - a. \$500,000
 - b. \$2 million
 - c. \$8 million
 - d. \$12 million
6. An increase in the rates of all of the following constitutes unintended consequences, except:
 - a. VRE
 - b. Infections due to non-ESBL producing gram-negative bacteria
 - c. *C. difficile*-associated disease
 - d. Antimicrobial-associated nephrotoxicity



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EVALUATION FORM

ANSWER KEY	
1	_____
2	_____
3	_____
4	_____
5	_____
6	_____

Please check the title that most appropriately applies to your profession:

- Clinical Pharmacist
- Retail Pharmacist
- Professor of Pharmacy
- Other _____

CONTENT: Please evaluate the content of this educational activity.	Yes	No
Is the information timely/up-to-date?		
Did the activity meet your expectations?		
Is the content relevant to your practice of pharmacy?		
Is the content useful to you in improving care of patients?		
Is the activity fair, balanced, and free of commercial bias?		
If no, why not?		
Based on the content, will you go back and participate in the first CE activity in this series?		
If no, why not?		

OBJECTIVES: Upon completion of this activity are you able to:	Yes	No
Identify the PK/PD parameters of antimicrobial agents that are predictive of successful clinical outcomes		
Identify the dosing strategies that increase the probability of meeting PK/PD targets		
Examine the difficulty in achieving PK?PD targets necessary for preventing resistance emergence in <i>Pseudomonas aeruginosa</i>		
Recognize the pharmacist's role in the antimicrobial stewardship team		
Examine the clinical and economical benefits of implementing an antimicrobial stewardship program		
Recognize the benefits of antimicrobial stewardship programs in reducing collateral damage		

If you selected No for any of the objectives, please explain why not.



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EPISODES: Please rate each podcast episode.	<i>Excellent</i>	<i>Good</i>	<i>Average</i>	<i>Fair</i>	<i>Poor</i>
<i>The PK/PD Challenge Issue 1</i>					
Value of topic					
Quality of presentation					
<i>The PK/PD Challenge Issue 2</i>					
Value of topic					
Quality of presentation					
<i>The PK/PD Challenge Issue 3</i>					
Value of topic					
Quality of presentation					
<i>The Pharmacist's Role Issue 1</i>					
Value of topic					
Quality of presentation					
<i>The Pharmacist's Role Issue 2</i>					
Value of topic					
Quality of presentation					
<i>The Pharmacist's Role Issue 3</i>					
Value of topic					
Quality of presentation					

Of these six episodes, would you like more in-depth education on a specific topic?

Yes No

If yes, which topic? _____

What one new thing did you learn about the PK/PD challenge?

What one new thing did you learn about the pharmacist's role?



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How important <i>to you</i> is the pharmacist's role in	<i>Very Important</i>	<i>Important</i>	<i>Somewhat Important</i>	<i>Not Important</i>
maintaining lower levels of resistance?				
Implementing an antimicrobial stewardship program?				
achieving positive patient outcomes?				
ensuring appropriate initial antimicrobial therapy?				

How important <i>to other healthcare professionals</i> is the pharmacist's role in	<i>Very Important</i>	<i>Important</i>	<i>Somewhat Important</i>	<i>Not Important</i>
maintaining lower levels of resistance?				
Implementing an antimicrobial stewardship program?				
achieving positive patient outcomes?				
ensuring appropriate initial antimicrobial therapy?				

Do you intend to change your patient care based upon information received in this activity?

- Yes
- No
- Not sure

How will you modify your practice performance as a result of participating in this activity?

Assess your level of commitment to making the modification to your practice stated above:

<i>Very committed</i>	<i>Committed</i>	<i>Somewhat committed</i>	<i>Not very committed</i>	<i>Do not expect to change practice</i>



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Was this CE podcast activity easy to access? Yes No

Would you consider using podcasts again for continuing education? Yes No

What recommendations do you have for improving this activity?

As you look ahead, what CE topic is your highest learning priority?

In order to assist us in measuring the outcomes of this educational activity, would you be willing to participate in a brief post-activity questionnaire?

Yes No

If yes, please include your e-mail address here: _____

CREDIT INFORMATION

(PLEASE PRINT)

Name _____

Degree _____

Mailing Address _____

City _____ State _____ ZIP _____

Phone _____ Fax _____

E-mail _____

Time spent in the activity _____ (Max. 1.75 hours)

By signing, I certify that I have completed this educational activity.

Signature: _____ Date: _____

Thank you for completing this CE activity.

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