



## Post Test, Evaluation, and Credit Application

### *From Principle to Practice: A Case Series Workshop in Clinical Mycology*

*This CME/CE activity is based on CME/CE symposium held during the 2009 BMT Tandem Meetings on February 14 in Tampa, Florida*

#### ONLINE ACTIVITY

Release Date: August 14, 2009

Expiration Date: August 14, 2011

**Your professional title:**     Physician                       Other \_\_\_\_\_

**Your specialty:** \_\_\_\_\_                      **Your practice setting:** \_\_\_\_\_

**INSTRUCTIONS FOR CREDIT**

1. Review all learning modules in their entirety
2. Print and complete the Post Test, Evaluation, and Credit Application form.
3. Mail the completed form to  
 Office of Continuing & Professional Education, Medical College of Wisconsin (RPC 125),  
 8701 Watertown Plank Road, Milwaukee, WI 53226.  
 OR  
 Fax to (414) 456-6623.

*Documentation of credit will be mailed within 4-6 weeks of receipt of this completed form.*

*Your evaluation and suggestions will help improve the quality of future continuing education activities. Please answer the following general questions, provide written comments, and evaluate individual faculty. Additional space for your comments and suggestions is available. Thank you for your cooperation.*

LEARNING OBJECTIVES: Were the learning objectives met?	Yes	Somewhat	No
1. Evaluate strategies for the prevention and treatment of invasive fungal infections in HSCT patients			
2. Discuss the importance of safe, appropriate use of antifungal agents in achieving optimal clinical outcomes			
If you answered 'No' to any objective, please explain			

FACULTY: Evaluate the knowledge and expertise in the subject	Excellent	Good	Fair	Poor
Thomas F. Patterson, MD, FACP, FIDSA				
John R. Perfect, MD				

ACTIVITY GOAL: Was the activity goal met?	Yes	Somewhat	No
The goal of this program is to further clinicians' knowledge of novel diagnostic techniques and therapeutic strategies for invasive fungal infections in hematopoietic stem cell transplant recipients			



LEARNING FORMAT	Yes	Somewhat	No
1. The course format enhanced achievement of learning objectives			
2. The format was easy to follow and understand			

ACTIVITY MANAGEMENT	Yes	Somewhat	No
1. The activity was easy to access			
2. The activity format was conducive to learning			

OVERALL EVALUATION	Yes	Somewhat	No
1. This activity met my expectations			
2. The content was relevant to my practice			
3. This activity was fair and balanced			
4. This activity was without commercial bias			
If you answered "No" to 3 or 4, please explain			

HOW WILL YOU CHANGE YOUR EVALUATION/TREATMENT OF FUNGAL INFECTIONS IN CANCER PATIENTS BASED ON THESE PRESENTATIONS?

POST TEST (Please check most appropriate answer)
<p><b>Aspergillosis: Early Diagnosis Equals Better Outcomes</b></p> <p><b>Case # 1:</b>            45-year-old male; AML refractory chemotherapy; Allogeneic HSCT 2 months prior to presentation;            Complicated by GvHD requiring high-dose steroid therapy            Presentation: fever, shortness of breath            Evaluation: serum galactomannan, chest CT; Chest CT results: nodular lesion with "halo" sign in RLL of lung            Aspergillosis is suspected</p> <p><b>1. What would be the best treatment approach?</b></p> <p><input type="checkbox"/> Start AmB deoxycholate therapy</p> <p><input type="checkbox"/> Start voriconazole therapy</p> <p><input type="checkbox"/> Start lipid AmB therapy at 10 mg/kg/d</p> <p><input type="checkbox"/> Start caspofungin therapy</p> <p><input type="checkbox"/> Start combination caspofungin + voriconazole therapy</p> <p><input type="checkbox"/> Withhold therapy pending diagnostic procedure</p>



## POST TEST (cont.)

### Antifungal Prophylaxis: Identifying Patients at Greatest Risk

#### Case # 2

59-year-old male; H/O MDS; S/PMUD BMT on 6/08  
Complicated by acute GvHD but marrow reconstitute  
Steroids started 8/08 (prednisone 80 mg bid, slow taper)  
Admitted 11/08 after routine chest film revealed RLL mass  
CT scan: "RLL nodule and a second 3 cm cavitory lesion adjacent to bronchus"  
Had been on fluconazole prophylaxis

#### 2. *What is the best approach to manage this patient?*

- Start with empiric polyene antifungal therapy
- Broaden coverage with antibacterials with specific coverage for *Nocardia*
- Continue antifungal prophylaxis with change to posaconazole and obtain serum galactomannan
- Patients is completely asymptomatic from pulmonary lesion and thus continue present management
- Perform bronchoscopy for biopsy, culture, and BAL galactomannan

#### 3. *Preliminary Biopsy Report: Necrotic lung tissue with rare aseptate, ribbon-like fungal hyphae. What would your treatment approach be?*

- Start AmB deoxycholate
- Start lipid formulation of AmB
- Start posaconazole
- Use combination therapy
- Start antifungals and surgically resect abscess cavity in lung

### Drug Safety and Monitoring

#### Case # 3

55-year-old male; 80 days post-allogeneic HSCT; Extensive HSCT; Extensive GvHD  
Renal failure on dialysis  
1 month prior: empiric therapy with liposomal AmB  
7 day prior: restarted on liposomal AmB for fever  
3 day prior: switched to voriconazole 200 mg po bid

#### 4. *What is the most likely diagnosis?*

- Fusariosis
- Zygomycosis (mucormycosis)
- Invasive aspergillosis
- Phaeohyphomycosis (black mold)
- Invasive candidiasis



**POST TEST (cont.)**

5. Based on the materials presented, what would the best treatment approach?

- Switch to posaconazole
- Switch to lipid AmB
- Switch to caspofungin
- Add liposomal AmB to voriconazole
- Increase does of oral voriconazole

**DO YOU HAVE (1) ANY SUGGESTIONS FOR IMPROVING THIS ACTIVITY OR (2) ANY ADDITIONAL COMMENTS?**

Blank area for suggestions and comments.

**CREDIT APPLICATION\* (Please Print Clearly)**

Name and Degree \_\_\_\_\_

Address \_\_\_\_\_

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

E-mail address \_\_\_\_\_

May we follow-up with you by e-mail?  Yes  No

Phone \_\_\_\_\_

Would you like to be informed/participate in all activities of this initiative?  Yes  No

Type of Credit requested  MD/DO AMA PRA Category 1 Credit™  Other \_\_\_\_\_

**I certify that I participated in *From Principle to Practice: A Case Series Workshop in Clinical Mycology* online activity.**

**Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

\*For questions regarding certification of this activity, please contact : CME Registrar, Medical College of Wisconsin, (414) 456-4900