Clinical Infectious Disease Elective  
Departments of Infectious Diseases and Pathology  
Boston University School of Medicine  

Course Directors: Natasha Hochberg, MD, MPH; Jerrold Ellner, MD; Nancy Miller  
Student Course Manager: Ian Francis

SUMMARY OF ELECTIVE:  
The Clinical Infectious Disease Elective provides students with the opportunity to integrate their curriculum-based knowledge of microbiology with the clinical and laboratory facets of infectious disease. This elective is another venue for pre-clinical medical students to gain exposure to clinical medicine while increasing their awareness and appreciation for the field of infectious disease.

The elective will begin with an introductory lecture. The next 7 sessions will be composed of BUMC’s Infectious Disease Clinical Case Conference, with an accompanying debrief with Drs. Hochberg and Ellner, followed by either a clinical session or a lab session. Each clinical session will include examination and discussion of patient cases led by an infectious disease clinician. Laboratory sessions will focus on sample collection and handling, different diagnostic technologies used and interpreting their results. A detailed breakdown of the schedule is below.

DESCRIPTION OF ELECTIVE:  
The elective curriculum is designed to have two principal components: clinical shadowing experiences and laboratory exercises. The elective will take place on Fridays, coinciding with Infectious Disease Clinical case conference. The curriculum is arranged for students to join conference and participate in small group case discussions with attendings, fellows, and 4TH year medical students. This elective will provide additional ways for first and second-year students to gain clinical exposure. We believe the elective will demonstrate how microbiology correlates into clinical practice. For second-year students, this elective will provide reinforcement of Disease and Therapy curriculum and an opportunity to translate curricular knowledge to clinical application. The elective will culminate in a presentation of a interesting topic from the elective.

GOAL:  
Introduce pre-clinical medical students to the field of clinical infectious disease, and provide an opportunity for students to pursue their interest in infectious disease.

OBJECTIVES:  
1) Exposure to infectious disease in a clinical setting.  
2) Develop general knowledge of the clinical presentation of infectious diseases.  
3) Develop an understanding of the diagnostic processes used to identify infectious agents.  
4) Gain knowledge on the treatment of infectious diseases.  
5) Knowledge of differences and similarities of infectious disease in Boston and internationally.  
6) Introduction to current infectious disease research at BUMC.

FACULTY:  
Natasha Hochberg, MD, MPH –Department of Medicine, Section of Infectious Diseases, BUSM and Department of Epidemiology, BUSPH;  
Jerrold Ellner, MD – Department of Medicine, Chief of Infectious Diseases BMC  
Nancy Miller – Pathology and Laboratory Medicine, BUSM
CURRICULUM:
The elective is divided into 9 sessions. The introductory and culminating sessions will act to lay the groundwork and bring closure to the goals and experiences of the elective. All 7 sessions are broken down as shown.

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th>Topics</th>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/9/2015 1pm-4pm</td>
<td>Intro to the elective: Clinic and Lab</td>
<td>Dr. Hochberg</td>
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<tr>
<td>1/16/2015 1pm-4pm</td>
<td>ID Case Conference/Clinical session</td>
<td>Dr. Hochberg</td>
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<tr>
<td>1/23/2015 1pm-4pm</td>
<td>ID Case Conference/Lab session</td>
<td>Dr. Hochberg &amp; Dr. Miller</td>
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<tr>
<td>1/30/2015 1pm-4pm</td>
<td>ID Case Conference/Lab session</td>
<td>Dr. Ellner &amp; Dr. Miller</td>
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<tr>
<td>2/6/2015 1pm-4pm</td>
<td>ID Case Conference/Clinical session</td>
<td>Dr. Ellner</td>
</tr>
<tr>
<td>2/13/2015 1pm-4pm</td>
<td>ID Case Conference/Lab session</td>
<td>Clinical Staff/Dr. Miller</td>
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<tr>
<td>2/20/2015 2:30pm-4pm</td>
<td>Clinical session</td>
<td>Dr. Ellner</td>
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<tr>
<td>2/27/2015 2pm-4pm</td>
<td>Lab session (“Unkowns” activity)</td>
<td>Dr. Miller</td>
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<tr>
<td>3/13/2015 1pm-4pm</td>
<td>ID Case Conference/Wrap-up</td>
<td>Dr. Ellner</td>
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A. **Laboratory session**
Students will work with Dr. Nancy Miller, the Clinical Director of the Clinical Microbiology lab. Sessions will involve discussing and examination of sample collection and culturing, diagnostic methodology and algorithms, result reporting, and follow up concerns.

B. **Clinical sessions**
As a group, students and the clinical preceptor will visit ~2 patients over the course of ~2hours. The clinician will discuss the case and pertinent microbiology, pathology, and treatment. Students will then join the attending in the patient’s room to review the relevant history and perform pertinent aspects of the physical examination. At the introduction lecture, students will be oriented to the patient population they will be working with and will review general concepts related to history-taking, physical examination skills, and infectious disease principles.

EXPECTATIONS OF STUDENTS:
**Students are expected to attend 100% of the sessions.** Students are expected to inform Dr. Hochberg/Ellner of any extenuating circumstances requiring absence from class.
**NUMBER OF STUDENTS:**
The elective is limited to 8 students, who will be selected by a blinded application system prioritizing MS2/PA applicants. The small student number facilitates the clinical experiences, interactions with patients, and involvement in laboratory activities. Students will be asked to submit applications for the elective.

**LENGTH OF ELECTIVE:**
The elective will be 9 sessions spread out over the course of the Spring 2015 semester.

**COURSE EVALUATION:**
Students participating in the elective will fill out a survey assessing the success of the course in achieving its learning objectives.

**APPLICATION:**
Complete the application posted along with this document on the Free Time elective site (http://www.bumc.bu.edu/enrichment/fte/) and return it to lanpfran@bu.edu BY 11:59pm on DECEMBER 8th.