8:00 am  Opening Remarks and Outline of the Agenda  
Susan Sharp; Copan Diagnostics  
US, Murrieta, CA

8:05 am  The Clinical Microbiology Lab  
Yvette McCarter; University of Florida Health, Jacksonville, Florida

- Purpose of the Clinical Microbiology Laboratory
  - Differences between academic and community hospital clinical microbiology laboratories
  - Commercial reference laboratories
- Role of the Laboratory Director
- Role of the Clinical Laboratory with the Hospital
  - Antibiotic Stewardship Committees
  - Infection Control
  - Sepsis Initiatives
- Metrics Used to Evaluate the Microbiology Lab

8:50 am  The Basics of Clinical Microbiology  
Yvette McCarter; University of Florida Health, Jacksonville, Florida  
Sandra Richter; Cleveland Clinic, Cleveland, OH

- Identification of microbial pathogens
  - Gram positive and negative bacteria
  - Yeasts and filamentous fungi
  - Mycobacteria
  - Viruses
- Techniques used to identify microbial pathogens
  - Microscopy
  - Culture
  - Antigen detection
  - Serology
  - Molecular assays
  - MALDI-TOF
- Common Infectious Diseases and how they are diagnosed by the clinical microbiology laboratory
  - Respiratory tract infections (upper and lower)
  - Gastrointestinal tract infections
  - Bloodstream infections

9:50 am  Antimicrobial Susceptibility Testing  
Sandra Richter; Cleveland Clinic, Cleveland, OH

- Defining Antimicrobial Susceptibility
- Methods used for susceptibility testing
  - Qualitative susceptibility results (S,I,R)
  - Quantitative susceptibility results

10:20 am  BREAK

10:40 am  Defining Laboratory Tests  
Jane Hata; Mayo Clinic, Jacksonville, FL

- Defining what makes a good lab test
  - Measuring accuracy, sensitivity, specificity, PPV, NPV
  - How to evaluate new tests
  - Difference between qualitative and quantitative tests

11:05 am  Managing Expectations  
Jane Hata; Mayo Clinic, Jacksonville, FL

- Timing Required to Implement New Tests
  - Internal requirements (data/IT requirements)
  - External requirements (CMS and CAP)
  - Typical needs to justify new technology
  - (outcome studies, health economic/outcome models)
  - Realistic time estimates for implementation
  - Validation, External QC and Proficiency
- Process for Capital Purchase Approvals
  - who is involved and estimated line line
- Other Hospital / Lab Contacts
  - Microbiology Laboratory Manager/Supervisor
  - Microbiology Laboratory Director
  - Clinical Laboratory Director/Manager
  - Hospital Purchasing Personnel
  - ID Pharmacist
  - ID Physician
  - Infection Control Personnel

11:45 am  How Healthcare Reimbursement is Determined and the Role of Industry in that Determination  
Omai Garner; University of California Los Angeles, Los Angeles, CA

12:45 am  Question & Answer Period

1:00 pm  Adjourn