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September - December 2015

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**Highlights**

Chemistry & Immunochemistry
Biomarkers in Pediatric Diabetes and Obesity

Cytology
Diagnostic Pitfalls in Effusion Cytology: The Usual, the Unusual, and the Mimickers

Hematology & Coagulation
Heart Attacks and Strokes, and How the Hematology/Coagulation Laboratory Helps

Histology
Process Management In Anatomic Pathology

Laboratory Operations & Management
Diagnostic Management Teams
Getting to the Root of an Error: Determining the True Root Cause and Ensuring Corrective Actions are Sustained

Microbiology & Infectious Diseases
IQC - What Does It Mean for You?

Molecular Diagnostics
Multiplex Molecular Microbiology: Challenges and Solutions

Phlebotomy
The Lab Ambassador

Transfusion Medicine
Serology and Molecular: Together is Better

www.ascp.org/webcasts
Mass "Feng Shui"metry: Harmonizing Mass Spectrometry and Your Existing Environment

Frederick G. Strathmann, PhD, DABCC (CC, TC)
Medical Director of Toxicology, Associate Scientific Director of Mass Spectrometry, ARUP Laboratories, Salt Lake City, UT; Assistant Professor of Pathology, University of Utah, Salt Lake City, UT

After attending this session, participants will be able to:
- Describe the operational theory of several types of mass spectrometers used in the clinical laboratory.
- Give examples of how mass spectrometry has been applied successfully in the clinical laboratory.
- Evaluate key criteria in order to justify the implementation of mass spectrometry.

Who should attend? Practicing Pathologists, Residents, Doctoral Scientists, Pathologists’ Assistants, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians, Students

Developments in the Laboratory Diagnosis of Disorders of Iron Metabolism: Deficiency, Overload, and Maldistribution

Robert E. Fleming, MD
Professor of Pediatrics and Biochemistry and Molecular Biology, Saint Louis University, St. Louis, MO

After attending this session, participants will be able to:
- Become familiarized with recent developments in the molecular regulation of iron metabolism, with emphasis on the hepcidin-ferritoprotein axis.
- Understand the pathogenesis of disorders of iron metabolism, including heritable and acquired disorders characterized by iron deficiency, iron overload, or iron maldistribution.
- Become facile with the appropriate laboratory diagnostic tools for the workup and management of disorders of iron metabolism, including the use of traditional serum iron parameters and novel biomarkers.

Who should attend? Practicing Pathologists, Residents, Doctoral Scientists, Laboratory Managers, Bench Supervisors, Students

Biomarkers in Pediatric Diabetes and Obesity

Joyce Lee, MD, MPH
Research Faculty, University of Michigan, Ann Arbor, MI

After attending this session, participants will be able to:
- Describe current pediatric guidelines for laboratory testing of overweight and obese children and children with diabetes.
- Describe case studies of how clinicians use screening tests in the diagnosis and management of overweight and obese children and children with diabetes.
- Describe the limitations of hemoglobin A1c testing for identification of children with prediabetes and type 2 diabetes.

Who should attend? Practicing Pathologists, Residents, Doctoral Scientists, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians, Students

Get full session details! www.ascp.org/webcasts
Cytopathology of Mediastinal Neoplasms
Oscar Lin, MD, PhD
Acting Chief of Cytology Services, Memorial Sloan-Kettering Cancer Center, New York, NY

After attending this session, participants will be able to:
- Use a step-by-step approach to evaluate cytology specimens from mediastinal neoplasms.
- Understand the workflow for optimal use of ancillary studies in the evaluation of mediastinal neoplasms.
- Better understand the current role of molecular studies in the evaluation of mediastinal neoplasms.

Who should attend? Practicing Pathologists, Residents, Pathologists’ Assistants, Cytotechnologists

Cytologic Diagnosis of Mesotheiloma
Carlos Bedrossian, MD, PhD (Hon)
President, Biomedical-Concepts, Oak Park, IL; Professor of Pathology, Rush University Medical College, Chicago, IL

After attending this session, participants will be able to:
- Apply the International Mesotheiloma Interest Group (IMIG) Guidelines for the cytopathological diagnosis of malignant mesothelioma.
- Correctly process small cytohistological samples, including effusions, fine needle aspirates, core needle biopsies, EBUS-TBNA, and VATS specimens obtained during minimally-invasive procedures.
- Distinguish malignant mesothelioma from its neoplastic and non-neoplastic mimickers.
- Utilize ancillary testing such as antibody panels and genetic testing to confirm the diagnosis of malignant mesothelioma and identify novel therapeutic strategies.
- Distinguish between and appreciate the clinical significance of malignant mesothelioma subtypes (epithelioid, mixed, and sarcomatoid) and their less common cytohistological variants

Who should attend? Practicing Pathologists, Residents, Pathologists’ Assistants, Bench Supervisors, Cytotechnologists

Diagnostic Pitfalls in Effusion Cytology: The Usual, the Unusual, and the Mimickers
Claire W. Michael, MD
Director of Cytopathology Fellowship and Faculty Professional Development, University Hospitals Case Medical Center, Cleveland, OH; Professor, Case Western University, Cleveland, OH

After attending this session, participants will be able to:
- Distinguish the morphologic features of reactive mesothelium and learn how to differentiate it from adenocarcinoma and mesothelioma.
- Recognize the morphologic presentation of some rare or unusual entities and diagnostic mimickers.
- Utilize proper immunostain panels in the workup of effusions.

Who should attend? Practicing Pathologists, Residents, Cytotechnologists
Heart Attacks and Strokes, and How the Hematology/Coagulation Laboratory Helps

Elizabeth Van Cott, MD
Director of Coagulation Laboratory, Medical Director of Core Laboratory, Massachusetts General Hospital, Boston, MA; Associate Professor, Harvard Medical School, Boston, MA

After attending this session, participants will be able to:

- Recognize the magnitude of the effect of heart attacks (myocardial infarctions or MI) and strokes on the general population in the United States.
- Describe the risk factors and basic mechanisms that lead to heart attacks and/or strokes, and summarize ways to prevent them from occurring.
- Recommend appropriate laboratory tests to clinicians caring for patients with heart attacks or strokes, including which patients may benefit from a typical hypercoagulation panel, antiphospholipid antibodies, homocysteine, C-reactive protein, and/or lipoprotein (a).

Who should attend? Residents, Doctoral Scientists, Pathologists’ Assistants, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians, Cytotechnologists, Histotechnologists, Phlebotomists, Students

Hematology M+Ms: Morphology and Mystery of Erythrocytes

Karen A. Brown, MS, MLS(ASCP)SM
Professor and Clinical Coordinator, University of Utah, Salt Lake City, UT

After attending this session, participants will be able to:

- Identify and describe the physiological processes for abnormal variations in RBC size, shape, hemoglobin concentration, distribution, and inclusions.
- Discuss RBC morphologic features significant in selected anemias.
- Correlate abnormal RBC morphologic variations with selected case studies.

Who should attend? Bench Supervisors, Bench Technologists & Technicians, Students

Diagnosis of Plasma Cell Neoplasms: Pearls for Integrating Laboratory and Clinical Data

Michael A. Linden, MD, PhD
Hematopathologist and Assistant Professor, University of Minnesota and Medical Center, Minneapolis, MN

After attending this session, participants will be able to:

- Recommend to the clinical team the most relevant ancillary laboratory diagnostic tests for the diagnosis of patients with plasma cell neoplasms.
- Distinguish between the different types of plasma cell neoplasms based on their morphology, genetics, immunophenotype, and clinical features.
- Describe the most common immunophenotypic abnormalities documented by flow cytometric immunophenotyping of neoplastic plasma cells.

Who should attend? Practicing Pathologists, Residents, Pathologists’ Assistants, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians, Students
Process Management In Anatomic Pathology
William N. DeSalvo, BS, HTL (ASCP)
System Production Manager, Sonora Quest Laboratories, Tempe, AZ
After attending this session, participants will be able to:
- Identify the components of a Process Management Plan.
- Assess the need for data collection, analysis, and measurement.
- Recognize and choose data collection opportunities in the Total Test Process.
Who should attend? Practicing Pathologists, Pathologists’ Assistants, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians, Histotechnologists, Students

Diagnostic Management Teams
Michael Laposata, MD, PhD
Chairman of the Department of Pathology and Professor of Pathology,
University of Texas Medical Branch, Galveston, TX
After attending this session, participants will be able to:
- Describe the concept of diagnostic error.
- Present the activities of a diagnostic management team.
- Have increased awareness of errors in laboratory test selection and results interpretation.
Who should attend? Practicing Pathologists, Residents, Doctoral Scientists, Pathologists’ Assistants, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians, Cytotechnologists, Histotechnologists, Phlebotomists, Students

Financial Quality Management: Are You Leaving Money on the Table?
Anthony Kurec, MS, H(ASCP)DLM
Practice Plan Administrator and Clinical Associate Professor,
SUNY Upstate Medical University, Syracuse, NY
After attending this session, participants will be able to:
- Develop a basic understanding of how a lab test is billed and paid.
- Learn what are some of the more common reasons for payment denial.
- Identify key test areas that should be targeted for ongoing review.
- Learn to create ways to improve the bottom line.
Who should attend? Practicing Pathologists, Residents, Pathologists’ Assistants, Laboratory Managers, Bench Supervisors, Cytotechnologists, Histotechnologists, Billing and/or Budgeting Staff, Students

Getting to the Root of an Error: Determining the True Root Cause and Ensuring Corrective Actions are Sustained
Anne T. Daley, MS, CMQO(E)(ASQ)CSSBB, CLC(AMT), MT(ASCP)DLM
President, Daley Consulting, LLC, Mesa, AZ
After attending this session, participants will be able to:
- Learn how to determine the “true” root cause of an error or nonconforming event.
- Learn how to identify corrective actions needed and ensure improvements are sustained.
- Develop immediate strategies to address common pitfalls within the participant’s organization.
Who should attend? Practicing Pathologists, Residents, Doctoral Scientists, Pathologists’ Assistants, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians, Cytotechnologists, Histotechnologists, Phlebotomists, Students
IQCP - What does it Mean for You?

Susan E. Sharp, PhD, MS, BSMT
Director of Airport Way Regional Laboratory and Regional Microbiology and ID Molecular, Kaiser Permanente, Portland, OR; Associate Professor, Oregon Health and Sciences University, Portland, OR

After attending this session, participants will be able to:
- Discuss QC regulations for laboratory testing beginning January 1, 2016.
- Describe the requirements necessary for the development of an IQCP.
- Develop an IQCP for several laboratory testing systems.

Who should attend? Practicing Pathologists, Doctoral Scientists, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians

Clinical Case Mysteries in Microbiology

Rick L. Hodinka, PhD
Chair of the Department of Biomedical Sciences and Clinical Professor of Microbiology, University of South Carolina School of Medicine Greenville and Greenville Health System, Greenville, SC

After attending this session, participants will be able to:
- Recognize the clinical syndromes associated with specific microbial pathogens.
- Distinguish the transmission, epidemiology, and pathogenesis of various disease-causing microbial agents.
- Define the practical issues and testing strategies involved in making a laboratory diagnosis of an unknown clinical infectious disease case.
- Communicate the treatment and/or prevention strategies used for various pathogenic microbes.

Who should attend? Practicing Pathologists, Residents, Doctoral Scientists, Pathologists’ Assistants, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians, Cytotechnologists, Histotechnologists, Phlebotomists, Students

Emerging and Re-emerging Infections 2015: The Good, the not so Good, and the Just Plain Confusing!

D. Jane Hata, PhD, D(ABMM)
Director of Microbiology and Infectious Disease Serology Laboratories, Mayo Clinic in Florida, Jacksonville, FL; Assistant Professor of Laboratory Medicine and Pathology, Mayo Clinic College of Medicine, Jacksonville, FL

After attending this session, participants will be able to:
- Define the concept of “emerging” infections and “re-emerging” infections.
- Discuss the role of epidemiologic surveillance networks and the importance of case reporting.
- Assess clinical presentation and laboratory workup as they apply to four pathogens considered emerging/re-emerging in the United States: Trichosporon spp., bacteria containing NDM carbapenemases, Trypanosoma cruzi, and Dengue viruses.

Who should attend? Practicing Pathologists, Residents, Doctoral Scientists, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians, Students

Multiplex Molecular Microbiology: Challenges and Solutions

Cindy B. McCloskey, MD
Director of Clinical Microbiology and Virology Laboratories and Assistant Professor, University of Oklahoma Medical System and Health Sciences Center, Oklahoma City, OK

After attending this session, participants will be able to:
- Evaluate the utility and feasibility of multiplex molecular infectious disease test platforms for your practice environment.
- Develop implementation strategies for multiplex molecular diagnostics to maximize quality of patient care and cost effectiveness.
- Design and implement quality control plans for multianalyte, molecular microbiology tests.

Who should attend? Practicing Pathologists, Residents, Doctoral Scientists, Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians
The Role of the Laboratorian in the Era of Cancer Genomics
Pranil K. Chanda, DO, FCAP, FASCP
Director of Molecular Pathology Services, PathGroup, Nashville, TN
After attending this session, participants will be able to:
- Understand the reasons for growth in molecular/genomics testing.
- Identify and select high value genomics testing that brings value to
  the health care system with review of case examples.
- Learn about the challenges and opportunities facing cancer genomics testing.
Who should attend? Practicing Pathologists, Residents, Doctoral Scientists, Pathologists' Assistants, Bench Technologists & Technicians, Cytotechnologists, Histotechnologists

The Lab Ambassador
Marilyn S. McCain, MBA, H(ASCP)
Laboratory Manager, Grady Health System, Atlanta, GA
After attending this session, participants will be able to:
- Understand the role of the Phlebotomist as a Laboratory Ambassador.
- Demonstrate professional behaviors that convey competence to the patient
  and reflect well on the laboratory.
- Deliver excellent customer service to all points of contact including the
  patient's family and hospital staff.
- Demonstrate effective communication skills to create a positive trusting
  relationship with the patient.
Who should attend? Laboratory Managers, Bench Supervisors,
Bench Technologists & Technicians, Phlebotomists, Students

What an Anesthesiologist Wants the Blood Bank to Know
Daniel T. Redford, MD
Cardiothoracic Anesthesiologist, Banner University Medical Center, Tucson, AZ;
Associate Professor of Clinical Anesthesiology, University of Arizona, Tucson, AZ
After attending this session, participants will be able to:
- Discuss how the anesthesiologist must multi-task in the operating room
  for the benefit of the patient.
- Describe how quickly patients can become unstable and things can
  get really bad for the patient without warning.
- Communicate clearly with the anesthesiologist and know what they can
  do to best benefit the patient.
Who should attend? Practicing Pathologists, Residents, Pathologists' Assistants,
Laboratory Managers, Bench Supervisors, Bench Technologists & Technicians, Students
Update on Red Blood Cell Transfusion
Jennifer A. Daniel-Johnson, MBBS
Medical Director of Transfusion Service, Harborview Medical Center, Seattle, WA;
Assistant Professor, Department of Laboratory Medicine,
University of Washington, Seattle, WA

After attending this session, participants will be able to:
• List 3 AABB “Choosing Wisely” recommendations for things physicians and
  patients should question regarding red cell (RBC) transfusion, and the rationale
  for each based on the evidence based literature.
• Understand the process of RBC “crossmatch on demand,”
  and the advantages this has for inventory management.
• Describe recent data relating to age of transfused RBCs and the impact of
  transfusion of “old” versus “new blood” has on patient outcomes.

Who should attend? Practicing Pathologists, Residents, Transfusion Medicine Fellows,
Pathologists’ Assistants, Laboratory Managers, Bench Supervisors, Students

Serology and Molecular: Together is Better
Michael Schanen, MLS(ASCP)SBB
Manager of Immunohematology and Transfusion Services,
BloodCenter of Wisconsin, Milwaukee, WI

After attending this session, participants will be able to:
• Understand the limitations and challenges serologists face when working on
  complex antibody investigations.
• Understand how molecular techniques can aide in complex antibody identifications.
• Understand how serology and molecular testing can work together to solve and
  streamline the process of antibody identification.

Who should attend? Practicing Pathologists, Residents, Laboratory Managers,
Bench Supervisors, Bench Technologists & Technicians, Students

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NEW! OnDemand Course!

A Comprehensive Guide to Prostate Diagnosis

List Price: $250.00  |  Member Price: $225.00

Donna E. Hansel, MD, PhD
Chief of the Division of Anatomic Pathology and Professor of Pathology at the University of California San Diego in La Jolla, California.

A Comprehensive Guide to Prostate Diagnosis is an A to Z overview of diagnostic prostate pathology. The full online course includes just over 3 hours of content subdivided into six stand-alone modules for convenience.

Building from the very basic to the more complex issues, the course begins with a discussion of normal prostate anatomy and histology in order to provide a baseline to recognize the diverse histology of the prostate gland components. The course builds systematically and concludes with a review of non-epithelial lesions of the prostate, including STUMP and stromal sarcoma and distinguishes these lesions from sarcomatoid carcinoma.

Upon completion of this course, you will be able to:
1. Understand correct protocols for grossing prostate specimens.
2. Identify histologic features of a normal prostate gland that can mimic prostate neoplasia.
3. Distinguish between small foci of prostate cancer and atypical glands on prostate biopsy.
4. Correctly report prostate biopsy specimens, including grading and quantitation of prostate cancer.
5. Recognize variants of prostate cancer and use of immunohistochemistry in the differential diagnosis.
6. Describe spindle cell and mesenchymal lesions of the prostate.

Module Titles & Approximate Run Times:
Module 1 – Normal Prostate Histology and Non-Neoplastic Variations (36 min)
Module 2 – Prostate Biopsy I: Clinical Indications, Grossing, Limited Adenocarcinoma and PIN (40 min)
Module 3 – Prostate Biopsy II: Grading, Scoring and Therapy Effects (30 min)
Module 4 – Prostate Cancer Variants (37 min)
Module 5 – Prostate Cancer on Radical Prostatectomy (33 min)
Module 6 – Non-epithelial Lesions Involving the Prostate (25 min)

Total approximate run time: 201 min

Who should attend? Pathologists, Residents, Pathologists’ Assistants

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Please note: some sessions may not be available for CME credit—please check session descriptions.

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Maintenance of Certification Competency Labels

- **PC**: Patient Care — a satisfactory level of diagnostic competence and the ability to provide appropriate and effective care in the context of pathology services.
- **MK**: Medical Knowledge — knowledge about established and evolving biomedical, clinical, and cognate (e.g., epidemiological and social-behavioral) sciences and the application of this knowledge to pathology.
- **PBL**: Practice-Based Learning and Improvement — the ability to investigate and evaluate his/her diagnostic and consultative practices, appraise and assimilate scientific evidence, and improve individual care practices.
- **PR**: Professionalism — a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.
- **SBP**: Systems-Based Practice — an awareness and responsiveness to the larger context and systems of healthcare and the ability to call on system resources to provide pathology services that are of optimal value.
- **ICS**: Interpersonal and Communication Skills — interpersonal and communication skills that result in effective relationships, information exchange and learning with other healthcare providers, patients, and patients’ families.

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<tr>
<th>City</th>
<th>State</th>
<th>Zip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business phone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax number</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Billing**
- ☐ Check here if same as shipping information.

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
</tr>
</tbody>
</table>

| City | State | Zip | Country |

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*Please note: If you have not received confirmation three days prior to the start of the program, call ASCP Customer Services toll free at 800.267.2727, (outside the continental U.S., call 312.541.4484).*