



2013
ASCLS-WASHINGTON
SPRING SEMINAR



Lynnwood Convention Center
Lynnwood, WA
April 25 - 27, 2013

SPONSORS



The 2013 ASCLS-WA Spring Seminar would like to extend its sincere thanks for the following companies and organizations for their support.

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Tacoma-Olympia Society for Clinical Laboratory Science

2013 Spring Seminar At A Glance

Thursday April 25, 2013	AM	1	2	3	4
		Molecular Hematopathology Paradigm B-cell Disease	25-Hydroxyvitamin D Testing	What's New in Clinical Microbiology	Safety & Health for Labs Appl to Safety Regs
	PM	5	6	7	8
		Introduction to Forensic Science	Food Allergies and Lab Tests Cardiac Biomarkers	Major Coagulation Review and New Anticoagulants	Remote Allocation at PSBC
Friday April 26, 2013	AM	9	10	11	12
		Autopsy Pathology for the Medical Technologist	Transfusion in Hematopoietic Stem Cell Transplant Transfusion Reactions	Unicel DxH 800 Data Interpretation Lean in the Lab	Communication Biohazard and Potential for Conflict
	PM	13	14	15	
		Pediatric Acute Leukemia	Mass Spectrometry in the Clinical lab	Pre & Postanalytic Lab Errors Toyota System in Lab	
Saturday April 27, 2013	AM	16	17	18	19
		Clinical Overview Syphilis, Hepatitis & HIV	Resumes, Cover Letters, and Interviews	Review of Bone Marrow Pediatric ALL, A Lab Journey to Diagnosis	Molecular Diagnostic Testing at the WA Public Health Lab
	PM	20	21	22	23
		Practical Nutrition Tips for Everyone Lab Values in Renal Failure	Laboratory and Hospital Information Systems	Challenges of Antimicrobial Susceptibility Testing	RBC Morphology Good,Bad, Ugly!

The 2013 Spring Seminar Program and registration form are available on the Internet at the following URL: www.asclswa.org

Updates and other information are provided on this site.

Welcome to the 2013 ASCLS-Washington Spring Seminar

Here is some important information that you need to know!

To Register by Mail:

Complete the registration form and mail the registration form and check payable to

“Spring Seminar” to:

Brenda Kochis
ASCLS-WA Spring Seminar
44 West 26th Avenue
Spokane, WA 99203-1818

If questions:

Contact: BrenKoch@comcast.net

(email contact is preferred)

Phone: 509-939-8445 (leave message)

- » **Registration mail postmark by date: April 6, 2013.** This assures that your form will be delivered in time for us to provide you with the handout access information.

To Register Online:

Go to www.asclswa.org and click on the **Spring Seminar tab**. Credit cards can be used to pay for registration.

- » Registrants using the online form must have a completed registration by **April 20, 2013** to receive lunch if eligible.

Special Member Registration Rates

Any person currently a member in good standing of the following organizations can qualify for special member registration rates for the meeting:

- AABB (American Association of Blood Banks)
- AACC (American Association for Clinical Chemistry)
- ASC (American Society of Cytology)
- ASCP (American Society of Clinical Pathologists)

Laboratory Professional Membership Category

NOTE: Certification only through ASCP does NOT qualify you for “Special Member” rates.

- ASCT (American Society for Cytotechnology)
- ASH (American Society of Hematology)
- ASM (American Society of Microbiology)
- CLMA (Clinical Laboratory Management Association)

Student Registration

If you are a student in one of the Washington Clinical Laboratory Science education programs listed below, you may register for **one half-day session at NO CHARGE** courtesy of ASCLS-Washington. See your Program Director for more information about this offer and for help in registering for the 2013 ASCLS-WA Spring Meeting.

Washington Clinical Laboratory Science Educational Programs:

- Clover Park Technical College MLT Program
- Heritage University CLS Program
- Providence Sacred Heart Medical Center MT Program
- Renton Technical College MLT Program
- Shoreline Community College MLT Program
- University of Washington MT Program
- Wenatchee Valley College MLT Program

Handouts ONLY Available On-line

To keep registration rates as low as possible, the Spring Seminar no longer provides paper copies of the session handouts at the meeting. Session handouts will be available for download at the ASCLS-WA website, <http://www.asclswa.org>. Click on the “Spring Seminar” tab. Remember to print copies of the handouts for the sessions you registered for and bring them to the meeting with you. If you are having problems downloading a handout, please contact Brenda Kochis, BrenKoch@comcast.net. Handouts for the sessions will be available on the ASCLS-WA website approximately 2 weeks prior to the meeting in a password protected area. You will receive the “password” and instructions on how to print the handouts starting approximately 2 weeks before the meeting. The email will be from BrenKoch@comcast.net, so watch for it. Register early so that you can print the handout material for your sessions.

Spring Seminar Committee

General Chair	Leonard Kargacin
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ASCLS-Washington

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ASCLS-WA Board Meeting and House of Delegates
Friday, April 26, 2013, 5:00 PM

Northwest State Society of the American Medical Technologists

President	Jo Abraham
Vice President	Theresa Indovina
Secretary	Linda Wilkins
Treasurer	Roxanne Erskine

NWSSAMT Board Meeting and Business Meeting
Friday, April 26, 2013, 5:00 PM

Session Information

Registration Hours
7:30 AM - 8:30 AM
12:30 PM - 1:15 PM

Scientific Session
8:30 AM - 11:45 AM
1:15 PM - 4:30 PM

Coffee Breaks
10:00 AM - 10:30 AM
2:45 PM - 3:00 PM

Lunch is from 12:00 - 1:00 PM each day. Individuals pre-registered for **an AM and a PM session on the same day** will be provided lunch. Lunch cannot be guaranteed for onsite registrants.

Name Badges are required for entrance to all sessions.

Smoking: There is no smoking during the sessions or in the Hotel..

Dress: Casual business dress is appropriate.

Cell Phones/Pagers: As a courtesy to the speakers and registrants, all cell phones and pagers must be turned off during the sessions.

Meeting Room Assignments: The meeting room assignments will be printed on the session sheet in your registration packet. A floor plan will be available at the registration desk.

Session Accreditations

P.A.C.E.® and AMTrax credits have been approved for all appropriate sessions.

ASCLS-WA is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® program. Additionally, ASCLS-WA is approved as a provider for California clinical laboratory licensees under P.A.C.E.® California accrediting agency license number 0001. ASCLS-WA will be using CE Organizer for documentation of continuing education credits. Please make note of the P.A.C.E.® number and the session number that will be given to attendees in each session after the session break. Without this information, the attendee will not be able to obtain their electronic certificate.

NWSSAMT is the approved provider for AMTrax CECs and insures that these educational presentations conform to standards established by AMT.

Lynnwood Convention Center



Lynnwood Convention Center

3711 196th Street SW
Lynnwood, WA 98036

Toll Free: 888-778-7155
Fax: 425-778-7965

Website: www.lynnwoodcc.com

The Lynnwood Convention Center has 600 free parking places. All sessions will be at the Convention Center. There is no charge for parking at the Lynnwood Convention Center.



DIRECTIONS FROM SEATTLE:

- Take I-5 North; Take Exit 181B (Alderwood Mall)
- Take left onto Poplar Way (first light)
- Take left onto 196th Street
- Drive West over the freeway, Convention Center is on the right.
- For the Alderwood Best Western Hotel, turn right onto 36th Avenue W (The Best Western Alderwood is on the left just North of the Lynnwood Convention Center.)

DIRECTIONS FROM EVERETT:

- Take I-5 South; Take Exit 181 West
- Drive West one block, Convention Center is on the right.
- For the Alderwood Best Western Hotel, turn right onto 36th Avenue W (The Best Western Alderwood is on the left just North of the Lynnwood Convention Center.)

DIRECTIONS FROM EASTSIDE/BELLEVUE

- Take I-405 Northbound
- Merge onto I-5 Southbound; Take Exit 181 West
- Drive West one block, Convention Center is on the right.
- For the Alderwood Best Western Hotel, turn right onto 36th Avenue W (The Best Western Alderwood is on the left just North of the Lynnwood Convention Center.)

Best Western Alderwood Hotel

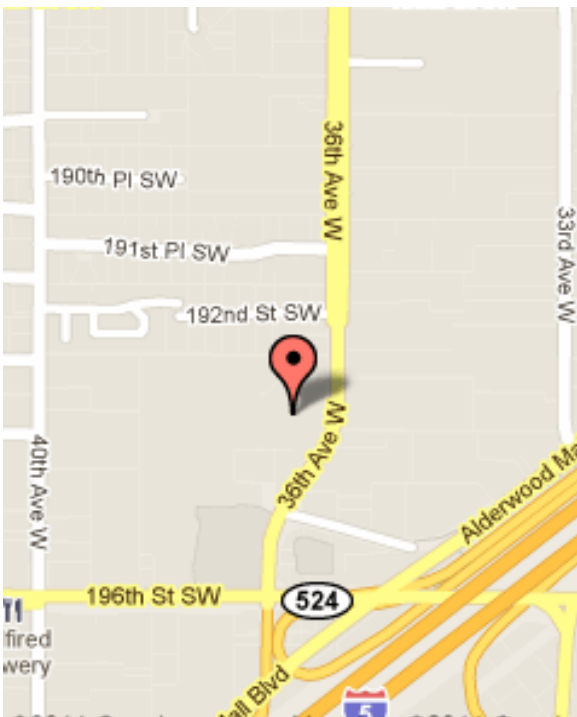


Hotel Information

Special group rates are available at the Best Western Alderwood Hotel through

April 17, 2013.

After that date, room rates will be at the discretion of the hotel. Please mention that you are with the ASCLS-WA Spring Seminar when making your reservations by telephone at 425-775-7600.



Best Western Alderwood Hotel

19332 36th Ave W
Lynnwood, WA 98036
Phone: 425-775-7600
Fax: 425-771-3087

Website: <http://www.bestwesternwashington.com/hotels/best-western-alderwood/>

The Hotel will honor the following overnight room rates:

\$69.99 for single queen bed
\$74.99 for single king bed
\$79.04 for two queen beds
\$84.62 for two king beds

Hotel room rates are subject to applicable state and local taxes.

Reservations: Call the hotel at 1-800-205-6935 or 1-425-775-7600. You must request the ASCLS-Washington group rate to obtain the listed room rate. The group rate will be honored until April 17, 2013.

There is no charge for parking at the Best Western Alderwood Hotel.

**Session
1**

8:30 - 11:45 am
Intermediate
3 contact hours

Recent Updates in Molecular Hematopathology

This session will cover recent updates in the application of molecular diagnostics to the field of hematopathology. Topics to be covered include the use of molecular tests for enhanced diagnostic classification of hematopoietic neoplasms and prognostication to individualize patient care approaches.

Objectives:

- ✓ Describe the role of molecular diagnostics in hematologic malignancies,
- ✓ Discuss the utility of molecular diagnostics for disease-classification, prognostication, and guiding patient therapy, and
- ✓ Describe the increasing role of new technologies, including next-generation sequencing in the laboratory diagnosis of hematologic malignancies.

DAVID WU, MD, PhD

Assistant Professor
Dept. of Laboratory Medicine
University of Washington
Seattle, WA

The Paradigm of Monoclonal B-cell Lymphocytosis and Chronic Lymphocytic Leukemia / Small Lymphocytic Lymphoma

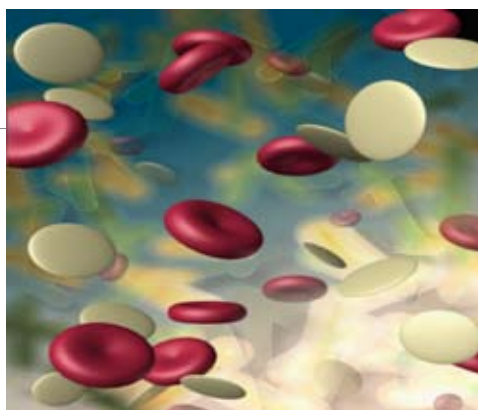
We will discuss the similarities and differences of monoclonal B-cell lymphocytosis (MBL) and Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma (CLL), including morphology, immunophenotype, molecular, and cytogenetic findings. Patient characteristics and therapeutics will also be addressed.

Objectives:

- ✓ Describe laboratory criteria for differentiating monoclonal B cell lymphocytosis (MBL) from Chronic Lymphocytic Leukemia/Small lymphocytic lymphoma (CLL),
- ✓ Describe the morphologic and immunophenotypic findings in MBL and CLL (peripheral blood, bone marrow, and tissue), and
- ✓ Describe the cytogenetic and molecular findings in both entities and how they relate to prognostication.

LORI SOMA MD

Assistant Professor in the Division of Hematopathology
University of Washington
Seattle, WA



<p>Session 2</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>25-Hydroxyvitamin D Testing</p> <p>Assay performance challenges of today's automated 25-OH vitamin D immunoassays and the clinical evaluation of vitamin D status will be discussed. We will address the question: should we measure vitamin D in routine clinical practice? If so, which patient populations should be considered for vitamin D testing?</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe immunoassay differences and clinical significance in vitamin D testing, and✓ Discuss which patient populations to consider for vitamin D testing <p>JOSHUA C. SOLDO Corporate Director, Scientific Affairs DiaSorin Inc. Stillwater, MN</p> <p>Sponsor: Diasorin, Inc.</p>
<p>Session 3</p> <p>8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>What's New in Clinical Microbiology Diagnostics?</p> <p>The speakers will provide an overview of the newest available technologies (including mass spectroscopy and next-generation sequencing) for organism identification and characterization in the clinical microbiology laboratory. In addition, how these technologies are being used for cutting edge clinical research will be discussed.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe several of the most recently available technologies for use in identification and characterization of microorganisms from both solid-media and direct specimens,✓ Discuss the advantages, disadvantages and challenges associated with implementing these new technologies in the clinical microbiology laboratory, and✓ Explain how these tools can be used beyond organism identification and their potential future applications <p>TANIS DINGLE, PhD Clinical Microbiology Fellow University of Washington Seattle, WA</p> <p>STEPHEN J. SALIPANTE, MD, PhD Clinical Pathology Resident Department of Laboratory Medicine University of Washington</p> <p>RAQUEL MARTINEZ, PhD Clinical Microbiology Fellow University of Washington Seattle, WA</p>

**Session
4**

8:30 - 11:45 am
Intermediate
3 contact hours

Safety and Health for Clinical Labs

The presentation will review key OSHA/WISHA safety and health issues for the clinical lab, and what areas that may need more of your attention. We will discuss how to help prevent injuries and illnesses in the clinical laboratory workplace.

Objectives:

- ✓ Describe how to help prevent injuries and illnesses in the clinical lab workplace.

PAM EDWARDS
Industrial Hygienist

JEFF SPANN
Consultation

Division of Occupational Safety and Health
Department of Labor & Industries
Seattle, WA

Sponsor: Department of Labor and Industries

Practical Application to Safety Regulations in the Clinical Laboratory

In this section we will discuss practical application to safety regulations in the clinical laboratory including regulations from the DOH, WISHA, OSHA, the Joint Commission and the College of American Pathologists. We will specifically identify the why, the who, and the how for laboratory safety.

Objectives:

- ✓ Identify the why, the who, and the how for laboratory safety.

AMY HENRIQUES, MT (ASCP)
Quality, Safety, & POCT Manager | Department of Laboratories
Seattle Children's Hospital
Seattle, WA

Globally Harmonized System for Hazard Communication

In this presentation we will discuss an overview of the new Hazard Communication Standard as it is now aligned with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This will give an overview of what has changed in the regulation, important information that they will need to understand moving forward, and some background on the GHS system.

Objectives:

- ✓ Describe the new Hazard Communication Standard and GHS system.

BRIAN GRAF
Brady Corporation

**Session
5**

1:15 - 4:30 pm
Intermediate
3 contact hours

Introduction to Forensic Science

Crime is as old as human society, as is the use of evidence and witnesses to solve crimes. The desire to identify criminals and bring them to justice has been the inspiration for innumerable stories in novels, plays, movies, and TV shows. This is an introduction to what really goes on in a crime lab.

Objectives:

- ✓ Describe the diverse operations of a modern crime lab, and
- ✓ Describe the TV portrayal as separate from the reality of what forensic scientists actually do.

TERRY McADAM

Laboratory Manager
Washington State Patrol, Seattle Crime Laboratory
Seattle, WA

Sponsor: Washington State Patrol, Seattle Crime Laboratory

**Session
6**

1:15 - 4:30 pm
Intermediate
3 contact hours

Cardiac Biomarkers in HF and ACS

Cardiac biomarkers are critical to the proper triage and treatment of patients presenting with heart failure (HF), acute coronary syndrome (ACS), or myocardial infarction (MI). This seminar reviews the current clinical utility of BNP, NT-proBNP, cardiac troponin, CKMB, and myoglobin, including both diagnostic and prognostic applications.

Objectives:

- ✓ Describe the utility of BNP and NT-proBNP in both HF and ACS,
- ✓ Describe the diagnostic and prognostic characteristics of cardiac troponin in ACS patients and the role of sensitive cardiac troponin tests in the diagnosis of MI, and
- ✓ Describe why cardiac troponin is the preferred biomarker for diagnosing an MI

Food Allergies: Laboratory Testing and Diagnosis

Food allergy is an immune-based disease that has become a serious health concern in the United States. Symptoms can range from mild to severe and, in rare cases, can lead to anaphylaxis, a severe and potentially life-threatening allergic reaction. This presentation describes the difference between food allergies and food intolerance, as well as the oral allergy syndrome. Food allergy testing methods including in vivo and in vitro approaches are discussed, along with current testing guidelines.

Objectives:

- ✓ Describe the difference between food allergies and food intolerance,
- ✓ List the most common foods that cause allergies,
- ✓ Outline the clinical progression of typical allergy patients from infancy to adulthood, and
- ✓ Describe the different types of allergy testing methods

KATHERINE SORENG, PHD

Sr. Manager
Siemens Healthcare
Clarkston, GA

Sponsor: Siemens Healthcare

**Session
7**

A Major Coagulation Review with How to Handle the New Anticoagulants

1:15 - 4:30 pm
Intermediate
3 contact hours

Not all reagents are created equal. Knowing the sensitivity of your reagent system can help in the investigation of a prolonged protime or PTT. You will learn the tools to expand the understanding of your reagent capabilities. This session will also review the coagulation system from the formation of a clot to its dissolution. The final portion of the session will cover the current anticoagulants in use. You will learn how to recognize their effect on the routine coagulation tests and also how to monitor.

Objectives:

- ✓ Describe that the sensitivity of your PT and PTT reagent-supersensitive is not always desirable,
- ✓ Validate a new lot of protime and PTT reagent,
- ✓ Discuss the basics of clot formation and fibrinolysis, and
- ✓ Recognize pattern of a direct thrombin inhibitor on routine coag screen.

COLLEEN ENGLE, MT (ASCP), MBA

Technical Supervisor-Specialty Labs
Puget Sound Blood Center
Seattle, WA

CHRIS FERRELL, MT(ASCP)

Special Coagulation Lead
Harborview Medical Center
Seattle, WA

**Session
8**

Remote Allocation at the Puget Sound Blood Center

1:15 - 4:30 pm
Intermediate
3 contact hours

In this session we will explain the concept of Remote Allocation and how it improves patient safety and provides for faster delivery of blood products to patients in King County Hospitals. The speakers will share implementation strategy, process shifts, and improved utilization outcomes.

Objectives:

- ✓ Describe what Remote Allocation is and how it benefits patients.

ANDREA NORDMARK, MT(ASCP)

Remote Allocation Program Manager
Puget Sound Blood Center
Seattle WA

JULIE DEL MORO, MT(ASCP)

Laboratory Operations Manager
UW Medicine Northwest Hospital
Seattle, WA

<p>Session 9 8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>Autopsy Pathology for the Medical Technologist</p> <p>This illustrated lecture and discussion will begin by reviewing the history of anatomical study and role of autopsy in medical practice. Several cases will follow, demonstrating the ways in which the clinical laboratory contributes to autopsy diagnosis and ultimately to patient and family care.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe the history of anatomic study and autopsy pathology,✓ Discuss the role of autopsy in medical practice, and✓ Participate interactively in the discussion of case studies for the medical technologist, which are designed to showcase the importance of the clinical laboratory in autopsy diagnosis. <p>JOSEPH R. SIEBERT, PhD Director of Autopsy Services, Professor of Pathology and Pediatrics Seattle Children's Hospital University of Washington School of Medicine Seattle, WA</p>
<p>Session 10 8:30 - 11:45 am Intermediate 3 contact hours</p>	<p>Transfusion in the Hematopoietic Stem Cell Transplant Patient</p> <p>This section will cover the special considerations in supporting the patient undergoing stem cell transplantation with transfusion therapy. Topics covered will include platelet and red blood cell support and the challenges faced in patients receiving a transplant from an ABO mismatched donor. Approaches to achieving hemostasis in this patient population will be discussed.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe the appropriate platelet transfusion threshold for patients undergoing stem cell transplantation,✓ Discuss red blood cell support in patients receiving stem cell transplantation from an ABO mismatched donor, and✓ Define approaches to the patient with platelet transfusion refractoriness. <p>TERRY B. GERNESHEIMER, MD Professor of Medicine/Medical Education Director University of Washington Puget Sound Blood Center Seattle, WA</p> <p>Transfusion Reactions—a Nurse's Perspective</p> <p>In this session general signs and symptoms of transfusion reactions will be discussed. We will also discuss some of the challenges that the bedside caregiver may face in recognizing and reporting a suspected transfusion reaction. The goal of this discussion is for the audience to gain some insight to what it might be like to care for someone experiencing a suspected transfusion reaction and how we can all work together to provide the best care for the patient while meeting the regulatory and quality guidelines.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Discuss some of the challenges the bedside caregiver may have on meeting the requirements in a suspected transfusion reaction investigation,✓ Define the signs and symptoms are associated with transfusion reactions, and✓ Define approaches to collaborating with nursing staff and others to improve communication and patient care. <p>MELANIE M. JORGENSEN, RN BSN Chief Transfusion Safety Officer Puget Sound Blood Center Seattle, WA</p>

**Session
11**

8:30 - 11:45 am
Intermediate
3 contact hours

Unicel DxH 800 Data Interpretation

The hematology section will review the Unicel DxH 800 technology, followed by case studies of several different blood pictures.

Objectives:

- ✓ Explain Beckman Coulter CBC, Diff, NRBC & Retic Technology,
- ✓ Describe the Coulter Principle, RBC & Platelet Histogram Development, New DxH800 Differential & NRBC Technology, and Retic Technology,
- ✓ Identify normal and abnormal histograms, dataplots, flags and codes technology, and
- ✓ Apply this information to case studies in order to better understand data interpretation.

KATHY DAVIDSON ALTIG BS MT(ASCP)

Field Product Specialist
Beckman Coulter
Portland, OR

Lean in the Lab

In this section we will cover an introduction to the following concepts tailored to the Lab environment: Change Management, Lab applications for Lean tools and principles, and Visual Management.

Objectives:

- ✓ Describe practical methods for introducing and utilizing Continuous Improvement methodologies in the laboratory.

CATHERINE OCHSNER

Danaher Business System Leader
Beckman-Coulter
Brea, CA

Sponsor: Beckman Coulter



Handouts

Handouts are only available online at www.asclswa.org. Several weeks before the Seminar, Registrants will receive an email from BrenKoch@comcast.net with session confirmations and instructions for accessing the handouts. Be sure to print them and bring them with you to the meeting. No handouts will be available onsite.

**Session
12**

8:30 - 11:45 am
Intermediate
3 contact hours

Communication Biohazard

The laboratory plays an invaluable and enormously significant role in health care. Laboratory professionals possess highly specialized expertise, experience, and skills, which are the cornerstone of optimal patient care. Approximately 75 to 85 percent of the diagnostic information used in treating a patient during an episode of care comes from laboratory information; this same data comprises 90 to 95 percent of the patient's medical record. Amazingly, the laboratory provides this tremendous contribution to patient care for only 3 to 5 percent of the total health care cost. There is no greater, more cost-effective service being provided in health care today. The laboratory provides the greatest value proposition, meaning the relationship between quality and price, in health care.

Considering the impact of the laboratory's value contribution to patient care, awareness of communication issues is more important than ever. Laboratory professionals are experts in their field; however, at times the delivery, or packaging, of their expertise can sabotage its actual value. This session engages participants with an energetic, focused, interactive, and humorous approach, which uncovers and explores some of the communication biohazard that can be pervasive within any laboratory. Attendees will have the opportunity to identify some of the communication pitfalls that occur all too frequently while developing appropriate communication strategies to align their communication delivery methods with the value of their expertise.

Objectives:

- ✓ Deliver more effective communication that better represents their experience and expertise,
- ✓ Uncover improved approaches for delivering routine and redundant information to common customer groups, and
- ✓ Recognize the impact that poor communication has on the laboratory.

Communicating When There is a Potential for Conflict

How often have you wanted to discuss an issue with someone at work but avoided the conversation because you didn't want to cause or engage in conflict? Or maybe you've brought up an issue that was seemingly insignificant, only to have it cause unintended conflict?

There are a variety of possible outcomes given the above circumstances: You internalize your stress and frustration; you discuss your concerns with others rather than confronting the person, potentially creating gossip; you engage the person, and the conversation doesn't go well, so you become discouraged or angry; your behavior toward the person becomes passive aggressive; or you completely withdraw. Fortunately, these negative outcomes can be avoided altogether if the situation is approached with thoughtful consideration and a positive strategy.

This course outlines a three-part strategy that illustrates how to handle situations where the potential for conflict exists. Participants will have the opportunity to apply the strategy and learn for themselves how to facilitate more satisfying outcomes when dealing with the potential for conflict.

Objectives:

- ✓ Utilize a three-part strategy to manage conversations with a potential for conflict,
- ✓ Focus on the personal responsibility that comes with managing conflict,
- ✓ Recognize the value of establishing a common understanding or points of common agreement, and
- ✓ Identify two safety considerations while addressing conflict.

CHÉRIE V. PETERSEN

Distance Education Program Coordinator
ARUP Laboratories
Salt Lake City, UT

Sponsor: ARUP Laboratories

**Session
13**

Pediatric Acute Leukemia

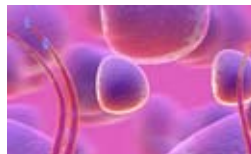
1:15 - 4:30 pm
Intermediate
3 contact hours

This session will provide information on the diagnosis of acute lymphoblastic leukemia (ALL) and acute myeloid leukemia (AML). We will discuss the WHO classification of acute leukemia and the utility of different methods, such as morphology, flow cytometry, cytogenetics, and molecular genetics in the diagnosis and prognosis of acute leukemia.

Objectives:

- ✓ Describe WHO classification of acute leukemia,
- ✓ Describe the utility of different methods in the diagnosis and prognosis of acute leukemia, and
- ✓ Diagnose most cases of acute leukemia

Min Xu, MD, PhD
Clinical Pathologist
Seattle Children's Hospital
Seattle, WA



**Session
14**

Mass Spectrometry in the Clinical Laboratory

1:15 - 4:30 pm
Intermediate
3 contact hours

This presentation will begin with a review of mass spectrometry as a method and its many advantages over immunoassays. We will then discuss a few different applications of the method (including vitamin D, immunosuppressants, and drugs of abuse), present approaches for proper quality control, highlight new advances in mass spectrometry and discuss how they will soon enable more laboratories to use mass spectrometry on a daily basis.

Objectives:

- ✓ List the benefits that mass spectrometry has over immunoassays,
- ✓ Outline the steps needed to prepare samples for a mass spectrometric assay,
- ✓ Detail several quality control parameters that can be monitored to improve the overall quality of a mass spectrometry program, and
- ✓ Explain some of the advances that will help make mass spectrometry more accessible to smaller laboratories.

ANDY HOOFNAGLE, MD PhD
Associate Professor
University of Washington
Seattle, WA

**Session
15**

1:15 - 4:30 pm
Intermediate
3 contact hours

10 Annoying Pre and Post analytic Lab Errors and How to Get Rid of Them

Errors in the clinical laboratory can undermine patient safety. This entertaining and informative presentation gets at some of the most annoying laboratory errors – for example mislabeling, data entry errors, and the failure of physicians to retrieve lab result – and teaches participants how to decrease or eliminate them.

Objectives:

- ✓ List three preanalytic errors and three postanalytic errors,
- ✓ Describe some interventions for helping physicians retrieve the results for the tests they order, and
- ✓ List 2 weak interventions and 1 strong intervention for reducing data entry errors and describe a strong intervention for lowering the rate of mislabeling errors.

MICHAEL ASTION MD, PHD

Division Chief of Laboratory Medicine
Clinical Professor of Laboratory Medicine
Seattle Children's Hospital
University of Washington Dept of Laboratory Medicine
Seattle, WA

**The Toyota Production System in the Clinical Laboratory—
Impact on the Technologists**

Our laboratory has applied the Lean Methodology in most of its sections. While giving examples of how those changes occurred, I will also outline how it has impacted the technologists. We will briefly cover as foundation, the principles of the Toyota Production System.

Objectives:

- ✓ Describe how lean tools and principles could be applied in their lab, and
- ✓ Discuss the impact of those improvements on the technologists.

JOE RUTLEDGE, MD

Medical Director of Laboratories
Seattle Children's Hospital
Seattle, WA



Handouts

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**Session
16**

8:30 - 11:45 am
Intermediate
3 contact hours

Syphilis: Clinical Disease and Testing Algorithms

Syphilis is an infection of humans caused by the bacterium *Treponema pallidum* that is readily spread through unprotected sexual contact. After years of decline in the United States, syphilis infections are again on the rise. This seminar reviews the pathology, epidemiology, and laboratory testing involved in a diagnosis of syphilis. A reverse-testing algorithm, utilizing the treponemal assay as a front-line test (which may enhance detection of late-stage infections as well allow automation of the assay), is reviewed along with current testing guidelines.

Objectives:

- ✓ Describe the progression of untreated infection with *Treponema pallidum* and the risk of undiagnosed or misdiagnosed cases of syphilis,
- ✓ Discuss the clinical utility of both treponemal and nontreponemal based tests, and
- ✓ Describe the traditional as well as the reverse testing algorithms, and their role in the identification of patients with syphilis.

Clinical Overview of Viral Hepatitis

A diagnosis for the causative agent in viral hepatitis requires laboratory testing, as it cannot be determined on clinical grounds alone. This presentation focuses on the pathology, epidemiology and serology of hepatitis A, B, and C. Acute and chronic serological profiles are examined, and an explanation of both antigen and antibody involved in the immune response is provided. Current screening and testing recommendations that involve clinical serology are reviewed.

Objectives:

- ✓ Describe viral hepatitis, including prevalence, route of infection, and risk factors,
- ✓ Discuss the differential pathogenesis of infection with recovery versus chronic infection with Hepatitis B and C, and
- ✓ Describe the serologic profiles and marker utilization for Hepatitis A, B, and C, including resolved, chronic, and immunized.

Clinical Overview of HIV Infection

The human immunodeficiency virus (HIV) has been defined as the infectious agent mediating the disease known as the Acquired Immune Deficiency Syndrome (AIDS). This seminar reviews the biological, epidemiological, serological, and molecular aspects of the virus. The clinical presentation of disease culminating in a diagnosis of AIDS is discussed, along with the value of early identification and treatment. The role of 4th generation antigen-antibody tests in the diagnosis of acute infection is reviewed, along with current testing recommendations.

Objectives:

- ✓ Describe the pathology of HIV, including prevalence, route of infection, replication, pathogenesis, and risk factors,
- ✓ Discuss the difference in HIV-1, HIV-2, and Group O viral strains, and
- ✓ Describe the serological and molecular tests used to diagnose and manage HIV patients.

KATHERINE SORENG, PHD

Sr. Manager
Siemens Healthcare
Clarkston, GA

Sponsor: Siemens Healthcare

Saturday, April 27, 2013

Session 17

8:30 - 11:45 am
Intermediate
3 contact hours

Job Search 101: Resumes, Cover Letters and Interviews

Come learn about effective resumes and cover letters from a University of Washington Medical Technology Program academic adviser. We will cover successful interviewing tips and strategies as well. We will focus on the interviewer's perspective, what you need to get across, types of interviews, preparation, and interview follow-up.

Objectives:

- ✓ Describe the purpose of a resume, resume styles, content and categories,
- ✓ Describe an effective cover letter and its purpose, and
- ✓ Discuss the employer's perspective and how to target a resume.

HEATHER EGGLESTON, MEd

Academic Adviser/Program Operations Specialist
University of Washington
Seattle, WA

Session 18

8:30 - 11:45 am
Intermediate
3 contact hours

Morphologic Review of Bone Marrow

The presentation will focus on morphologic features of hematopoietic and lymphoid lineages and other cells types in the bone marrow, as well as evaluation of bone marrow stroma, vessels, and bone. A variety of artifacts that may cause diagnostic challenges will be discussed.

Objectives:

- ✓ Systemically evaluate all hematopoietic and lymphoid lineages in the bone marrow, and
- ✓ Do a cytologic assessment of macrophages, plasma cells, and mast cells.

XUEYAN CHEN, MD, PhD

Assistant Professor
University of Washington
Seattle, WA

Pediatric Acute Lymphocytic Leukemia – Journey to Diagnosis

Our lab at Seattle Children's Hospital has a team approach for handling the testing involved in the diagnosis of acute leukemia. Critical departments are located close together to facilitate the sharing of samples and streamlining hand offs. This session will outline bone marrow sample handling from specimen collection to processing and testing in our lab. Flow cytometry and cytogenetics testing will be illustrated using a representative case study.

Objectives:

- ✓ Describe the importance of proper handling of bone marrow specimens throughout the preanalytic, analytic, and post-analytic phases of lab testing,
- ✓ Describe flow cytometry testing performed for leukemia diagnosis, and
- ✓ Outline the process for cytogenetics testing from culturing to G-band and FISH analysis

BILLY DAVIS, MT(ASCP)

Cytogenetics Laboratory Supervisor
Seattle Children's Hospital
Seattle, WA

Lisa Klingler, MS, MLS(ASCP)^{CM}

Clinical Laboratory Scientist
Seattle Children's Hospital,
Cell Marker Laboratory
Seattle, WA

JANICE R. HALL, BS, MT(ASCP)

Clinical Laboratory Scientist
Seattle Children's Hospital, Cell Marker Laboratory
Seattle, WA

Saturday, April 27, 2013

Session 19

8:30 - 11:45 am
Intermediate
3 contact hours

Ramping Up: An Overview of New Molecular Diagnostic Testing at the WA State Public Health Laboratory

Today's session will be a discussion pertaining to new molecular testing methods that are currently being performed at the Washington State Public Health Laboratory. We will discuss how the application of these molecular tests aids in the diagnosis, confirmation, characterization and epidemiological investigations of disease caused by Mycobacteria, Salmonella and *Vibrio parahaemolyticus*. We will explain basic methodologies, test utilization, specimen submission requirements, case studies and interpretation of results.

Objectives:

- ✓ Describe the basic methodology used to test each organism,
- ✓ Describe the application of each method and how the results are used to protect public health, and
- ✓ Describe test availability and specimen submission requirements.

AILYN PÉREZ-OSORIO, PhD

Lead Microbiologist
Molecular Diagnostics Lab
WA State Public Health Laboratories

WILLIAM A. GLOVER II, PhD, D(ABMM), MT(ASCP)

Lead Microbiologist
Methods Development and Special Projects
WA State Public Health Laboratories

MARYANN WATKINS

Microbiologist
Enterics Lab
WA State Public Health Laboratories
Shoreline, WA

Sponsor: WA State Public Health Laboratories

Handouts

Handouts are only available online at www.asclswa.org. Several weeks before the Seminar, Registrants will receive an email from BrenKoch@comcast.net with session confirmations and instructions for accessing the handouts. Be sure to print them and bring them with you to the meeting. No handouts will be available onsite.

**Session
20**

1:15 - 4:30 pm
Intermediate
3 contact hours

You Are What You Eat: Practical Nutrition Tips for Everyone

This session is a review of good nutrition information for everyone, with special emphasis on lowering sodium and increasing potassium intake. We will examine data on US salt consumption, issues of obesity in the US, and ways individuals can improve their health and the health of others through practical life changes.

Objectives:

- ✓ List 5 changes they will make in theirs and their families diet,
- ✓ List ten top salt containing foods in the US, and
- ✓ List serving sizes for fat/protein/carbs and choose healthy choices from a sit down restaurant and fast food restaurant.

Interpreting Lab Values in Renal Failure: Men in Black

What on earth is going on with renal failure and lab tests and what do clinicians do with the data? In this section we will discuss lab tests that need special interpretation in light of renal failure, as well as complex issues of anemia and renal disease, including use of EPO. We will investigate issues of different albumin tests and impact on patient care. Finally we will discuss who is the health care team involved in ESRD and who to contact with questions.

Along the way we will answer the following questions:

- What do clinicians do with all these weird numbers in renal patients?
- What is the difference between CKD and ESRD?
- What about drugs used in renal failure, how do they affect labs?
- What's the big deal about albumin?
- How can laboratory medicine help improve quality of life and outcomes in renal failure?
- What you should talk to your renal professional about?

Objectives:

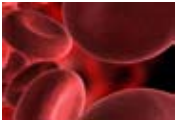
- ✓ List 5 lab tests that need special interpretation in light of renal failure diagnosis,
- ✓ Discuss interpretation of complex issues of calcium/phosphorus/vitamin D and renal bone disease and complex issues of anemia and renal disease, including use of EPO, and
- ✓ Describe the dialysis treatment, and lab issues relating to therapy.

KATY WILKENS, MS, RD

Registered Dietitian: Manager, Nutrition & Fitness Services
Northwest Kidney Centers
Seattle, WA



Saturday, April 27, 2013

<p>Session 21</p> <p>1:15 - 4:30 pm Intermediate 3 contact hours</p>	<p>Laboratory and Hospital Information Systems</p> <p>This session covers an overview of how the clinical laboratory relies upon, and interacts with, hospital (HIS) and laboratory information systems (LIS). The speaker will emphasize the relationships of these systems with lab workflow and operations; the importance of testing; downtime planning; and interfaces. Finally, we will touch on the current and future regulatory environment (e.g., CAP, meaningful use).</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe the most significant workflow-related dependencies on the LIS,✓ Identify considerations for LIS downtime planning, and✓ Describe the need for testing in relation to lab and hospital information systems and interfaces. <p>NOAH. G. HOFFMAN, MD, PhD Assistant Professor, Associate Director Informatics Division, Dept. of Laboratory Medicine University of Washington Medical Center Seattle, WA</p>
<p>Session 22</p> <p>1:15 - 4:30 pm Intermediate 3 contact hours</p>	<p>Challenges of Antimicrobial Susceptibility Testing—Super Bug vs. Super Wimpy Bug</p> <p>Antimicrobial susceptibility testing presents unique challenges as organism characteristics change. In this session we will examine antimicrobial resistance mechanisms associated with bacteria that cause acute and invasive infections versus bacteria that cause chronic and focal infections. The Human Microbiome is our first line of defense. Finally we will discuss laboratory methods, interpretation, and report of antimicrobial susceptibilities that is relevant to patient care.</p> <p>Objectives:</p> <ul style="list-style-type: none">✓ Describe <i>in vitro</i> antimicrobial susceptibility testing methods and their advantages and limitations to guide clinical treatment.✓ Discuss antimicrobial bacterial resistance mechanisms associated with acute vs. chronic infections.✓ Recommend best practices regarding <i>in vitro</i> susceptibility testing and reporting to improve treatment and patient care practices. <p>XUAN QIN, PHD, D(ABMM) Director, Microbiology Laboratory, Associate Professor Univ. of Washington Seattle Children's Hospital Seattle, WA</p>
<p>Session 23</p> <p>1:15 - 4:30 pm Intermediate 3 contact hours</p>	<p>RBC Morphology: The Good, the Bad, and the Ugly!</p> <p>This session is an interactive presentation using RBC indices and specific RBC morphology to categorize and classify disease states.</p> <p>Objective:</p> <ul style="list-style-type: none">✓ Correlate RBC indices and morphology to various disease states. <p>KARA HANSEN-SUCHY, MED, MT(ASCP)SH Program Director University of Washington Seattle, WA</p> 

Interested in joining ASCLS?

You can get member rates for this meeting!

All new members have the opportunity to join ASCLS and receive 15 months for the price of 12. Please go to www.ascls.org and click on "Join ASCLS" in the box to the left. At that location is the New Member Application. If you join through the ASCLS website **March 1, 2013 or later**, you will get a membership through July 31, 2014. By joining through the ASCLS website, you will have your member number mailed to you immediately. No waiting for snail mail.

OR

A membership application is available at the following URL:

<http://www.ascls.org>

Remember that you have to be a **new member** and join after **March 1, 2013** to get the 15 months for the price of 12.

The 2013 Spring Seminar Program, registration form and any updates are available on the Internet at the following URL

www.asclswa.org

Spring Seminar tab

All information will be provided at this site. There is a registration form that you can print and mail with a check. Also, at this site there is a link to an online form that you can complete and pay using a credit card.

Registration General Information

To Register by Mail:

Complete the registration form and mail the registration form and check payable to

“Spring Seminar to:

Brenda Kochis
ASCLS-WA Spring Seminar
44 West 26th Avenue
Spokane, WA 99203-1818

If questions:

Contact: BrenKoch@comcast.net (email contact is preferred)

Phone: 509-939-8445 (leave message)

- » **Registration mail postmark by date: April 6, 2013.** This assures that your form will be delivered in time for us to provide you with the handout access information.

To Register Online:

Go to www.asclswa.org and click on the Spring Seminar tab. Credit cards can be used to pay for registration.

- » Registrants using the online form must have a completed registration by **April 20, 2013** to receive lunch if eligible.
- **Lunch** is provide for those that register for two sessions on the same day. Lunch is not provided for those that register for one session a day or for those that register onsite.
- **Handouts** for all sessions will only be available online. Registrants will be sent the web address, username and password to access the handouts. Please print your email address clearly.
- **All sessions** are approved for P.A.C.E. and AMTrax credits.
- **Institution Group Registration:** Please contact Brenda at BrenKoch@comcast.net if you wish to register a group and use a credit card.
- **Hotel reservations:** See page 2 for information. Please call the hotel for reservations. Mention “Spring Seminar” to get the seminar rates. Rates will be available until April 17, 2013 after which it will revert to standand hotel rates.
- **No “Spring Seminar” Registration refunds** will be issued for non-attendance.
- **Fees are by session.** Each session is 3 hours (half day). Please register for the membership category that you qualify for. More information about fee categories are on the website at www.asclswa.org tab: Spring Seminar.

Special Member Registration Rates

Any person currently a member in good standing of the following organizations can qualify for special member registration rates for the meeting:

- AABB (American Association of Blood Banks)
- AACCC (American Association for Clinical Chemistry)
- ASC (American Society of Cytology)
- ASCP (American Society of Clinical Pathologists)
Laboratory Professional Membership Category

NOTE: Certification only through ASCP

does NOT qualify you for “Special Member” rates.

- ASCT (American Society for Cytotechnology)
- ASH (American Society of Hematology)
- ASM (American Society of Microbiology)
- CLMA (Clinical Laboratory Management Association)

Student Registration

If you are a student in one of the Washington Clinical Laboratory Science education programs listed below, you may register for **one half-day session at NO CHARGE** courtesy of ASCLS-Washington. See your Program Director for more information about this offer and for help in registering for the 2013 ASCLS-WA Spring Meeting.

Washington Clinical Laboratory Science Educational Programs:

- Clover Park Technical College MLT Program
- Heritage University CLS Program
- Providence Sacred Heart Medical Center MT Program
- Renton Technical College MLT Program
- Shoreline Community College MLT Program
- University of Washington MT Program
- Wenatchee Valley College MLT Program

Registration Form

2013 ASCLS-WA Spring Seminar
 April 25 - 27, 2013
 Lynnwood Convention Center, Lynnwood, WA

To facilitate processing please
 postmark this registration form by
 April 8, 2013

**Online registration with a credit card is available at
www.asclswa.org, Spring Seminar tab
 or
 Mail this form with a check payable to Spring Seminar**

PLEASE PRINT AND SHOW NAME AS WANTED ON NAME TAG

First Name _____ Last Name _____
 Address _____
 City/State/Zip _____
 Day Phone _____ Evening Phone _____
 Institution _____
 City/State _____
 E-Mail Address _____

Please circle sessions you wish to attend.

Would you be willing to serve as Moderator for any of the sessions you will be attending?
 Please circle response.
 Yes No

Thursday, April 25	AM	1	2	3	4
	PM	5	6	7	8
Friday, April 26	AM	9	10	11	12
	PM	13	14	15	
Saturday, April 27	AM	16	17	18	19
	PM	20	21	22	23

ADVANCED REGISTRATION FEE SCHEDULE

Pre-registrations with two sessions on the same day INCLUDE Lunch)

Member ASCLS or AMT (Membership #: ASCLS _____ AMT _____)

Technical/Administrative Professional. Sessions @ \$45.00 \$ _____

Special Member (enclose copy of membership card) Sessions @ \$55.00 \$ _____

AABB AACC ASC ASCT
 ASH ASM CLMA
 ASCP Laboratory Professional Membership Category. Certification through ASCP does NOT qualify you for "Special Member" rates.

NonMember

Technical/Administrative Professional. Sessions @ \$80.00 \$ _____

Phlebotomist Sessions @ \$35.00 \$ _____

Student Sessions @ \$25.00 \$ _____

Total \$ _____

Enter Amount on Blank Lines

Mail to: ASCLS-WA Spring Seminar
 Brenda Kochis
 44 West 26th Avenue
 Spokane, WA 99203-1818

Full Payment must accompany all registrations. Remit in U.S. dollars. Make check payable to Spring Seminar.

OR

Online registration with a credit card is available at
www.asclswa.org, Spring Seminar tab