

2018 ASCLS-WA Spring Seminar



Red Lion Hotel
Renton, WA

April 26 - 27, 2018



Our Awesome Sponsors



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2018 Spring Seminar At A Glance

Thursday April 26, 2018	AM	1	2	3	4
		<p>Serum vs Plasma - Which Specimen Should You Use</p> <p>Pre-analytical Best Practices for Blood and Urine Specimens</p>	<p>Emergency Earthquake Preparations: for the Home and the Lab</p>	<p>Optimizing Your Antimicrobial Stewardship Programs via "On-Demand" Molecular Testing or Real Time Actionable Results</p>	<p>Implementing Patient Safety Principles to Improve Laboratory Services</p>
	PM	5	6	7	8
		<p>Emergency Hemostasis Testing</p> <p>Transfusion Management of Emergency Hemostasis</p>	<p>You Are What You Eat. Good Nutrition for Everyone</p> <p>Men in Black; Interpreting Lab Values in Renal Failure</p>	<p>Essential Skills for Supervision</p>	<p>Drugs of Abuse Testing</p> <p>Evolving Use of Cardiac Troponins in the ED</p> <p>QSEN and Interdisciplinary Collaboration for Safe Patient Care</p>
<p>ASCLS-WA Board Meeting and House of Delegates Thursday, April 26, 2018, 4:45 PM</p>					
Friday April 27, 2018	AM	9	10	11	12
		<p>Massive Transfusion and Obstetrical Hemorrhage Support</p> <p>Cord Blood and Transplantation Transfusion Medicine</p> <p>Laboratory Cases Involving Serology and Molecular Testing</p>	<p>Lab Test Stewardship: A Marriage of Patient Safety and Financial Integrity</p> <p>Insert Lab "Values" Here: The Role of the Laboratory in Transgender Health</p>	<p>Locally Acquired Vibrio vulnificus Infection in WA State</p> <p>Food and Shellfish testing at the WA State Public Health Lab</p> <p>Managing Marine Biotoxins in WA State</p>	<p>Thrombosis and What to do About It: D-dimer Testing and Anticoagulant Monitoring in the Clinical Laboratory</p>
	PM	13	14	15	16
		<p>The Role of the Laboratory in Differentiating Thrombotic Microangiopathies: Atypical Hemolytic Uremic Syndrome</p>	<p>Surviving Instrument Downtime</p> <p>Restructuring of Workflow in the Lab in Today's Tech Shortage Workforce</p> <p>Millennials In Today's Workforce</p>	<p>Global Laboratory Systems: Needs, Approaches, and Opportunities</p> <p>Healthcare Tour of Cuba</p>	<p>Retirement Planning Do's and Don'ts and Sound Investment Strategies</p>
<p>Check out the Student Posters on Page 19 and 20.</p>					

Welcome to the 2018 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) Call before 8 pm please.

- » **Registration mail postmark by date: April 10, 2018.** This assures that your form will be delivered in time for us to provide you with the handout access information. This is not a deadline date; registration remains open through the seminar.

To Register Online:

Go to www.asclswa.org and click on the Spring Seminar tab. On the Spring Seminar page, click on Registration to see the link for online registration. Credit cards can be used to pay for registration.

- » Registrants using the online form must have a completed registration by **April 20, 2017** 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 this 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 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 2018 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
- 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, www.asclswa.org, Spring Seminar Link. 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, at which time you will receive the “password” and instructions on how to print the handouts. 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

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ASCLS-WA Board Meeting and House of Delegates
Thursday, April 26, 2018, 4:45 PM

Northwest State Society of the American Medical Technologists

President	Roxanne Erskine
Secretary	Danielle Rathbun
Treasurer	D'Maurier Barnhart

Session Information

Registration Hours
7:30 AM - 8:30 AM
12:30 PM - 1:00 PM

Scientific Session
8:30 AM - 11:45 AM
1:00 PM - 4:15 PM

Coffee Breaks
10:00 AM - 10:15 AM
2:30 PM - 2:45 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 Red Lion.

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.

Session Accreditations

P.A.C.E.® 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. The session number will be given to attendees upon completion of the online evaluation. Without this information, the attendee will not be able to obtain their electronic certificate.

Red Lion Hotel

One South Grady Way
Renton, WA 98057

Phone: (425) 226-7700
<https://www.redlion.com/m/renton>

Rates: Standard Single King or Two Queen beds
\$105.00 per night plus state and local tax.

Please mention that you are with 2018 ASCLS-WA Spring Seminar to obtain these rates. Rates are held until April 7, 2018, after which room rates are at the discretion of the hotel.



Driving Directions to the Renton Red Lion

DIRECTIONS FROM SOUTHBOUND I-5:

- Take Exit 154A from South Bound I-5 toward Renton via I-405N
- Take exit 2 from I-405 N
- Continue on WA-167 N
- Merge onto WA-167 N
- Turn right onto S Grady Way
- Turn right and right again
- Red Lion Hotel & Conference Center will be on the right

DIRECTIONS FROM SOUTHBOUND I-405

- Take exit 2B from I-405 S
- Merge onto Rainier Ave S
- Turn right onto S Grady Way 0.1 mi
- Turn right and right again
- Red Lion Hotel & Conference Center will be on the right

DIRECTIONS FROM NORTHBOUND I-5:

- Take exit 154AB from North Bound I-5 toward Bellevue via I-405N
- Take exit 2 from I-405 N
- Continue on WA-167 N
- Merge onto WA-167 N
- Turn right onto S Grady Way
- Turn right and right again
- Red Lion Hotel & Conference Center will be on the right

DIRECTIONS FROM NORTHBOUND SR 167:

- Take NB SR 167 to Renton
- Turn right onto S Grady Way
- Turn right and right again
- Red Lion Hotel & Conference Center will be on the right

Driving Alert

Traffic on I-405 in Renton can be very heavy. Please allow yourself an additional 30-45 minutes over what you think would be normal driving time to allow for traffic congestion. There is alternate route information for the Renton Red Lion Hotel listed on the hotel page on the ASCLS-WA website.

Serum vs Plasma - Which Specimen Should You Use

- Jean Tenuta, MS, MBA, MT(ASCP)DLM, SLS

Becton, Dickinson and Company
Kenosha, WI

This session explores the advantages and disadvantages of each sample type, the impact of each on turnaround time, costs, and patient outcomes as an overall indication of quality of laboratory services. Participants will be armed with the knowledge to understand the best sample given their circumstances.

- ⇒ Differentiate between serum and plasma, and impact on sample quality.
- ⇒ Detail the impact of turnaround time on costs and patient outcomes.
- ⇒ Make an informed choice of sample that best applies to their situation.

Sponsor: Becton Dickinson

Pre-analytical Best Practices for Blood and Urine Specimens

- Alla Kolodenker, MT(ASCP)

Becton, Dickinson and Company
Franklin Lakes, NJ

In this session we will review phlebotomy best practices for blood collection, equipment, and how to obtain a quality specimen, as well as identify sources of error. We will also discuss pre-collection and collection procedures for microcollection. Finally we will review infant heelstick collection procedure, references, and resources for blood volume.

- ⇒ Identify the appropriate blood collection equipment needed to perform a venipuncture and discuss best practices for obtaining a quality blood specimen.
- ⇒ Recall the sources of errors during a venipuncture and apply corrective action.
- ⇒ Describe best practices for precollection and collection procedure (heelsticks, wingsets, and syringe collections) and demonstrate how to successfully perform an infant heelstick and indicate which type of lancet device is appropriate for a particular infant and test to be performed.

Sponsor: Becton Dickinson



Session 2

8:30 - 11:45 am

Intermediate

3 contact hours

Emergency Earthquake Preparations: for the Home and the Lab

- **Steve LaCroix MS, CBSP**
- **Mark Turner, BS**
Washington State Public Health Laboratories
Shoreline, WA

This session will cover basic emergency preparations for the laboratory and at home specifically regarding earthquake preparedness. How prepared are you in your workplace? Are your employees prepared at home so they will be free to come to work and perform their duties? We will go over some strategies and resources that should help you along in your preparations.

- ⇒ Discuss strategies that could enhance a laboratory's preparations for an earthquake event.
- ⇒ Discuss strategies to better prepare employees to respond in an emergency in and out of the workplace.
- ⇒ Outline resources and best practices that fellow laboratorians have had success with.

Sponsor: WA Department of Health Public Health Laboratories

Session 3

8:30 - 11:45 am

Intermediate

3 contact hours

Optimizing Your Antimicrobial Stewardship Programs via "On-Demand" Molecular Testing or Real Time Actionable Results

- **Troy Stillings, PharmD**
- **Roberta O'Neil, MS, MT(ASCP)**
Cepheid
Sunnyvale, CA

The need for the development and progression of Antimicrobial Stewardship Programs continues to be a driving force within hospitals with both clinical and regulatory needs on the horizon. As of January 1, 2017, the Joint Commission has now approved a new Medication Management standard that is applicable to hospitals, critical access hospitals, and nursing care centers in regards to expectations of Antimicrobials Stewardship Programs. With bacterial resistance remaining on the rise and a very narrow pipeline for new antimicrobials, the time is now to implement interventions designed to optimize clinical outcomes while minimizing unintended consequences of antimicrobial use.

The speakers will discuss Antimicrobial Stewardship Programs in the inpatient and outpatient setting with focus on decreasing resistance and inappropriate antimicrobial utilization. They will provide an overview of *C difficile* infections including the diagnosis, testing, treatment, and impact within Antimicrobial Stewardship Programs and conclude with a brief overview of the utilization of rapid diagnostic testing in Antimicrobial Stewardship Programs.

- ⇒ Discuss Antimicrobial Stewardship Programs.
- ⇒ Review updates for the diagnosis and management of *C difficile* Infections.
- ⇒ Evaluate the Use of rapid diagnostics in Antimicrobial Stewardship Programs.

Sponsor: Cepheid

Session 4 *8:30 - 11:45 am* *Intermediate* *3 contact hours*

Implementing Patient Safety Principles to Improve Laboratory Services

- **Catherine Otto, PhD, MBA, MLS(ASCP)^{CM}**
Rutgers University
Newark, NJ

The Institute of Medicine's report, *Improving Diagnosis in Health Care*, highlights the importance of clinical laboratory professionals. This session will discuss how adopting specific recommendations from the report and incorporating patient safety competencies into practice promotes the value of laboratory professionals and improves the quality of patient care.

- ⇒ Summarize the recommendations from *Improving Diagnosis in Health Care* as they relate to clinical laboratory science practice.
- ⇒ Identify one patient safety competency to reduce errors in laboratory diagnoses and to improve patient outcomes.
- ⇒ Describe one method to promote the value of clinical laboratory professionals to others using the recommendations from *Improving Diagnosis in Health Care*.

Sponsor: Seattle Society for CLS

Session 5 *1:00 - 4:15 pm* *Intermediate* *3 contact hours*

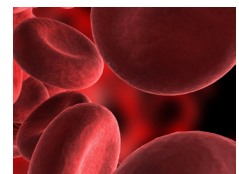
Emergency Hemostasis Testing

Transfusion Management of Emergency Hemostasis

- **Wayne Chandler, MD**
- **Nabiha Saifee, MD, PhD**
Seattle Childrens Hospital
Seattle, WA

This two part session will first review the optimum testing strategies for evaluating hemostasis in the bleeding patient. It will include review of rapid conventional testing (PT, fibrinogen, platelet count, hematocrit) as well as viscoelastic testing. The second part of the session will review the approach to transfusion therapy in these complex patients.

- ⇒ Describe different approaches to emergency hemostasis testing.
- ⇒ Select the best testing approach for their institution.
- ⇒ Discuss approach to transfusion support in emergency situations.



Session 6

1:00 - 4:15 pm

Intermediate

3 contact hours

You Are What You Eat. Good Nutrition for Everyone

Men in Black; Interpreting Lab Values in Renal Failure

- **Katy G. Wilkens, MS, RD**
Northwest Kidney Centers
Kenmore, WA

You are what you eat will cover 1. What is healthy eating? 2. What are good and bad foods? 3. How can you change your diet and your family's diet to be healthier? Learn how to spot good choices from bad, and how to help yourself make better choices more often. The speaker is a clinical registered dietitian.

Men in Black will examine what does the world of dialysis look like? What is KT/V? What is URR? What is a PET test? How are the results produced in the lab used to guide clinicians and patients to make better choices in their care?

- ⇒ List three nutrients to cut back on in your and your family's diet and identify three substitutions they can willingly make to eat healthier.
- ⇒ Write a healthy grocery list using information learned.
- ⇒ List three renal related laboratory tests, and discuss how these tests are used by clinicians and patients and discuss possible sources of error and how results might influence patients care.

Session 7

1:00 - 4:15 pm

Intermediate

3 contact hours

Essential Skills for Supervision

- **Catherine Otto, PhD, MBA, MLS(ASCP)^{CM}**
Rutgers University
Newark, NJ

Effective supervision is an essential feature of providing quality laboratory services. Supervisory skills, like any other skill, can be learned. This session will cover essential skills needed to effectively supervise others: leadership, communication, conflict management, and basics of budgeting.

- ⇒ Describe leadership styles used for effective management of employees.
- ⇒ Given a situation, identify the primary problem and describe possible methods for resolution.
- ⇒ Identify components of a budget and key principles of budgeting.

Sponsor: Seattle Society for CLS

Drugs of Abuse Testing

- Thomas K. Bane, PhD, PPM

Beckman Coulter Diagnostics
Walnut, CA

In 2010, the impact of drugs of abuse on the US economy was \$520B due to related crime, lost work, and healthcare. Given the exponential growth of abuse, economic impact, reimbursement tightening, and new laws and regulations, there will be great changes in the DAT field in the next 5 years. In this seminar we will discuss the basics of DAT testing; nuts & bolts of testing, regulatory oversight, evolving technology, currently abused drugs, and case studies.

- ⇒ Describe the principles lab design, goals and capabilities.
- ⇒ Discuss the basic components of DAT testing assays.
- ⇒ List current drugs of abuse.

Evolving Use of Cardiac Troponins in the Emergency Department: New Cardiac Guidelines and Early Rule In/Rule Out Protocols

- Thomas K. Bane, PhD, PPM

Beckman Coulter Diagnostics
Walnut, CA

In this seminar we will cover the issues facing the ED in rapid diagnosis and triage in patients presenting with chest pain and the role of cardiac troponin measurements in the process. We will discuss recent research and guidelines surrounding the use of cardiac troponins.

- ⇒ Discuss the goal of the Ed in rule in/rule out protocols.
- ⇒ Discuss the nature and differences between reference ranges, critical values, and delta values.

Sponsor: Beckman Coulter

~~QSEN and Interdisciplinary Collaboration for Safe Patient Care~~

- Lynn Von Schlieder, MSN, RN

Interim Associate Dean of Nursing
Shoreline Community College

The concepts of Quality and Safety for Education for Nurses (QSEN) originated with the Institute of Medicine's (IOM) recommendations for safe patient care. IOM recommended that "All health professionals should be educated to deliver patient-centered care as members of an interdisciplinary team, emphasizing evidence-based practice, quality improvement approaches, and informatics" and identified five core competencies. This presentation will focus on the competencies to build the bridge to quality between nursing and medical laboratory professionals.

**This portion has been cancelled. Dr Bane
will cover the entire time.**

Massive Transfusion and Obstetrical Hemorrhage Support- Cases and Updates

- Theresa Nester MD

Bloodworks Northwest
Seattle, WA

Many hospitals work to develop protocols for patients requiring massive transfusion. This is a positive step, as the literature indicates that such protocols help to reduce mortality. This session will describe recent data that may help to refine hospital protocols, depending on whether the hospital supports trauma patients, obstetrical patients, or non-trauma patients requiring massive transfusion. Where possible a case-based format will be used.

- ⇒ Describe the benefit of a hospital-wide massive transfusion protocol.
- ⇒ List the overall finding of the WOMAN trial in obstetrical patients.
- ⇒ Review basic component therapy and laboratory testing to support patients with severe hemorrhage.

Cord Blood and Transplantation

- Rebecca Haley, MD

Bloodworks
Seattle, WA

This session will describe the process of cord blood collection, a cell source for hematopoietic stem cells, processing and transplantation. This session will also address outcomes and differences between cord blood stem cell transplants, Bone Marrow Transplants, and Apheresis Stem Cells.

- ⇒ Describe cord blood collection, processing, and transplantation.
- ⇒ Identify cord blood stem cells transplant outcomes.
- ⇒ List differences between cord blood transplantation, apheresis stem cells, and bone marrow transplant.

Transfusion Medicine Laboratory Cases Involving Serology and Molecular Testing

- Samantha Harris, BS, and Lay See Er, MSTM SBB(ASCP)^{cm}

Bloodworks
Seattle, WA

This session will involve a discussion of advanced Immunohematology techniques used along with red cell molecular testing to solve difficult transfusion medicine cases.

- ⇒ Identify tools to use in complicated serological work-ups.
- ⇒ Describe the basic red cell molecular test procedures.
- ⇒ Identify when red cell genomics can be helpful in assisting with complex serologic cases.

Lab Test Stewardship: A Marriage of Patient Safety and Financial Integrity

- Jane Dickerson, PhD DABCC

Seattle Children's Hospital
Seattle, WA

This session will discuss advances in the lab utilization movement, including its re-branding to laboratory stewardship, the need for infrastructure within health systems, and the new recommendations recently published this past fall.

- ⇒ Describe best practices to develop and sustain a lab test utilization management system.
- ⇒ Distinguish the advantages and disadvantages of particular test utilization management strategies such as provider report cards, algorithms, and cascades.
- ⇒ Identify common cultural and communication challenges and propose strategies to navigate those challenges when implementing changes within the laboratory.

Insert Lab “Values” Here: The Role of the Laboratory in Transgender Health

- Dina N Greene, PhD, DABCC

University of Washington
Seattle, WA

This session will provide the background healthcare professionals need to better understand what it means to be transgender and how their medical experiences can differ from cisgender individuals. The material will be specifically catered to laboratory professionals using case studies.

- ⇒ Illustrate the differences between gender and sex.
- ⇒ Give an example of healthcare discrimination towards transgender individuals.
- ⇒ Describe the barriers involved in providing adequate laboratory medicine to the transgender population.

Student Poster Session

A student poster session will again be held as a part of the ASCLS-WA Spring Seminar!! Come and support our future laboratory professionals by visiting the poster presentations during the meeting. PACE credits will be available to those that visit the student poster session and successfully complete an exam about the posters. This is a great way to get continuing education credits and support our students!

There is no charge to attend the poster session.

Check the ASCLS-WA website for more information about the poster topics.

Locally Acquired *Vibrio vulnificus* Infection in Washington State Associated with Handling Tilapia

- Laurie K. Stewart, MS

Washington State Department of Health Public Health Laboratories
Shoreline, WA

Vibrio vulnificus is a Gram-negative, rod-shaped, halophilic bacterium that causes septicemia and severe wound infections--death occurs in up to half of the cases. Nearly all infections in the United States are caused by consumption of raw oysters harvested in the southeastern US or by skin exposure to brackish water in the southeastern US. In 2016-17, two cases of *V. vulnificus* infection occurred in King County, WA residents who had no history of oyster consumption or travel history. Their only common risk factor? Handling tilapia purchased from live tanks at grocery stores. How does a farm raised, fresh water fish become the source for deadly bacteria typically found in warm, brackish (salty) water?

- ⇒ Describe two characteristics of the *Vibrio vulnificus* organism
- ⇒ Describe two health conditions that increase the risk of *Vibrio vulnificus* infection
- ⇒ Describe two disease syndromes caused by *Vibrio vulnificus* infection

Food and Shellfish testing at the Washington State Public Health Lab

- Avi Singh, BS

Washington State Department of Health Public Health Laboratories
Shoreline, WA

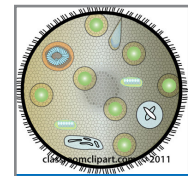
This presentation will cover the basics of food and shellfish testing at the Washington State Department of Health Public Health Laboratories. Organisms discussed will include *Vibrio parahaemolyticus*, *Vibrio vulnificus*, coliforms, and other foodborne pathogens. Routine monitoring and surveillance as well as foodborne outbreak testing will be covered.

- ⇒ Describe *Vibrio* surveillance in shellfish in Washington State.
- ⇒ Discuss how the food and shellfish laboratory at the Washington State Public Health Lab function.
- ⇒ Describe laboratory methods used in food and shellfish testing.

Managing Marine Biotoxins in Washington State

- David Ikeda, BS

Washington State Department of Health Public Health Laboratories
Shoreline, WA



This session will be an overview of Washington State Marine Biotoxins Program including a history of Public Health's role and the potential harmful effects of shellfish biotoxin in addition to biotoxin testing.

- ⇒ Outline a brief history of Washington State Public Health role in Shellfish Management.
- ⇒ Describe potential harmful effects of shellfish biotoxin poisoning.
- ⇒ Describe biotoxin testing at the Public Health Laboratory.

Session 12

8:30 - 11:45 am

Intermediate

3 contact hours

Thrombosis and What to do About It: D-dimer Testing and Anticoagulant Monitoring in the Clinical Laboratory

- Paul Riley, PhD, MBA

Diagnostica Stago, Inc.
Parsippany, NJ

Session Cancelled

D-dimer assays are most useful when demonstrated to have high clinical sensitivity to detect all patients with venous thromboembolism (VTE). This presentation will not only cover the clinical impact of VTE but also how D-dimer and pretest probability utilization potentially saves healthcare dollars by preventing false positives, resulting in fewer unneeded imaging procedures. In addition, information will be presented regarding treatment of thrombosis and anticoagulant monitoring practices, including the impact of direct oral anticoagulants (DOACs) on coagulation assays and screening/measurement best practices.

- ⇒ Describe the use of D-dimer testing as a cost effective tool to safely rule out VTE diagnosis when used in combination with a clinical pretest probability score.
- ⇒ Identify current methods for implementation of the D-dimer assay.
- ⇒ Discuss the present use of the aPTT and anti-Xa for anticoagulant monitoring and reasons for discordant values.

Sponsor: Diagnostica Stago

Session 13

1:00 - 4:15 pm

Intermediate

3 contact hours

The Role of the Laboratory in Differentiating Thrombotic Microangiopathies: Atypical Hemolytic Uremic Syndrome

- Paul Eastvold, MD

INBC/Blood Systems Incorporated BSI
Spokane, WA

In this session we will discuss laboratory tests critical for 1) differentiating Thrombotic Microangiopathies-Atypical Hemolytic Uremic Syndrome (smears, lab values, Adams13) and 2) Paroxysmal Nocturnal Hemoglobinuria-High Sensitivity Flow Cytometry, lab values.

- ⇒ Distinguish atypical Hemolytic Uremic Syndrome AHUS from other thrombotic microangiopathies with similar clinical presentation.
- ⇒ Describe the critical role of laboratory and clinical considerations in Dx of AHUS.
- ⇒ Describe Paroxysmal Nocturnal Hemoglobinuria, pathology, signs, symptoms, high risk groups, and High Sensitivity Flow Cytometry laboratory testing.

Sponsor: Alexion

Surviving Instrument Downtime

Restructuring of Workflow in the Lab in Today's Tech Shortage Workforce

Millennials In Today's Workforce

- Tina J Batsch, MT (ASCP)

Newport Hospital and Health Services
Newport, WA

Part I-If you have ever worked in a lab, then chances are you have experienced instrument downtime. This session will begin with an example of a worse case scenario result of an instrument being down. Next, back-up and work around procedures will be discussed. Finally, a look at the aftermath and how instrument downtime effects the areas of billing and coding, result reporting, and the impact it had on the budget
Part II-Are you spending too much money on contracted temporary staff or running into too much overtime and not enough help? This session points out some options that can help reorganize the workload. We will look at job codes as well as look at waived, moderate-complexity, or high-complexity tests. Finally a look at what to consider if contracted staff is used for staffing
Part III-By 2030, it is predicted that 75% of the workforce will be comprised of Millennials! This session will define what the Millennial generation is and the impact it has in today's workforce. Time will be spent defining characteristics of other generations and how a team can work together in a busy lab.

- ⇒ Define what instrument downtime is.
- ⇒ List several options or ideas on how to distribute workload.
- ⇒ Discuss how to work with the different generations in the lab.

Sponsor: Newport Hospital Health Services



Global Laboratory Systems: Needs, Approaches, and Opportunities

- **Lucy A. Perrone, MSPH, PHD**

University of Washington, Dept. of Global Health, I-TECH
Seattle, WA

Achieving, maintaining, and improving diagnostic testing accuracy, timeliness, and reliability are major challenges for clinical and public health laboratories in resource-limited countries. In addition to quality reagents, functioning equipment and infrastructure, and well trained staff among other items, laboratories need leaders who can manage their resources effectively, maximize the laboratory's human resource capacity, communicate effectively with stakeholders, and ensure their laboratory meets the service delivery needs of the community. Only a sound management of quality in health laboratories improves patient care and treatment, and disease surveillance and response. Training laboratory managers and supervisors in leadership and management skills is another step towards achieving quality laboratory practice. This presentation will review what the University of Washington is doing to address this training gap.

- ⇒ Summarize three major challenges to achieving medical laboratory quality in resource-limited settings that are not financial.
- ⇒ Describe the cycle of poor laboratory quality in resource-limited countries.
- ⇒ Recognize and reflect on local-to-global opportunities to strengthen labs.

Healthcare Tour of Cuba

- **Molly Morse, MS, MLS (ASCP)**

Shoreline CC
Shoreline, WA

The speaker will discuss a recent healthcare tour of facilities in Cuba. Healthcare is provided in a variety of healthcare settings and is accessible to all. We visited a primary care setting in a village, a polyclinic where 24/7 services were available, and a pediatric care facility. Visitation to the clinical laboratory was limited, but we were able to view laboratories at these facilities. A visit to a nursing program and seeing their lecture hall and skills lab gave us a picture of their commitment to training healthcare professionals. The tour included tourist sites and activities which gave us an opportunities to talk with some of the people.

- ⇒ Review healthcare services at a primary care and polyclinic facilities.
- ⇒ Discuss clinical laboratory setting and nursing program facilities.
- ⇒ Review vaccination and vectorborne illnesses and Cuba's practices to reduce diseases.

Sponsor: Seattle Society for CLS



Retirement Planning Do's and Don'ts and Sound Investment Strategies

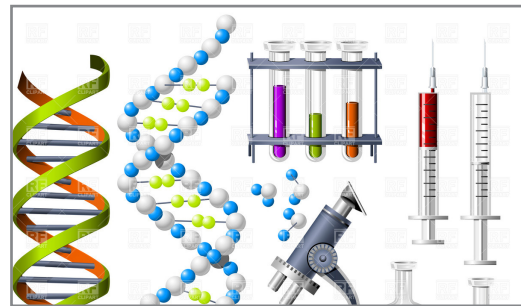
- Dan Dake and Jon Zetlmaier

Voya Financial Advisors
Seattle, WA

Retirement planning do's and don'ts for clinical laboratory professionals will describe the risks involved in achieving your retirement goals. We will present applicable strategies to deal with the risks in order to pave the way to a comfortable retirement. Sound investment strategies will explore three questions: Am I investing correctly? What do I invest in? How do I handle market risk? These and many issues surrounding proper portfolio construction will be discussed.

- ⇒ Describe how to manage risk.
- ⇒ Discuss fundamental investment strategies.
- ⇒ Outline the importance of early retirement savings.

Sponsor: Voya Financial Advisors



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.




Comments from past seminar attendees

Knowledgeable, interactive, fun, good speakers, takes lots of questions. Enjoyed and learned a lot.

Really enjoyed this. Love the enthusiasm and passion for the topic. Very interesting and exciting.

Great speakers, lots of new info. Updates. These are the kinds of speakers we need. They explain current and new information. Speaker provided many helpful examples.



The 2018 Spring Seminar Program, registration form and any updates are available on the Internet at the following URL

www.asclswa.org
Spring Seminar Link

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.

2018 Student Posters



Poster 1 ... Roche Liat Strep A Verification

— *Abigail Lundgren, Providence Sacred Heart Medical Center, Spokane, WA*

For our project, we evaluated the Roche Liat rapid molecular platform (an assay intended for point-of-care testing) for the detection of Strep A. We tested positive and negative patient specimens to establish the performance and precision of the assay, which could replace the existing rapid antigen lateral flow devices currently in use at PSHMC.

Poster 2 ... Is Doxycycline a Reliable Alternative for Empiric Therapy of Community-Acquired Pneumonia in the Spokane Region?

— *Lena Lebedinski and Vita Danyuk, Providence Sacred Heart Medical Center, Spokane, WA*

Doxycycline can be used as an alternative drug therapy against *Streptococcus pneumoniae* if the local resistance rate to doxycycline is less than 25%. We looked at the rate of resistance to doxycycline in the Spokane region

Poster 3 ... Verification of Alternate EDTA Tubes for Complete Blood Counts

— *Brittany Harris, Jenna Storvick, Providence Sacred Heart Medical Center, Spokane, WA*

We will be looking at whether royal blue trace-metal-free EDTA or pink EDTA tubes yield equivalent CBC results as specimens collected in the standard, lavender-top EDTA tubes for adult patients. We will also be looking into the stability of refrigerated samples.

Poster 4 ... Enteric Bacterial Pathogens PCR Panel Verification

— *Kylee James Hraban, Providence Sacred Heart Medical Center, Spokane, WA*

Analysis of a verification study performed at Bonner General Hospital on the BD Max Enteric Pathogens panel.

Poster 5 ... Establishing extended stability of Stago D-Dimer Liatest N + P controls

— *Kaitlyn Hohrman, Providence Sacred Heart Medical Center, Spokane, WA*

The goal of this project is to extend the stability of the D-Dimer Liatest N + P controls on a Stago instrument to 24 hours.

Poster 6 ... Validation of cobas Liat Influenza A/B & RSV Assay for Use in Rapid Molecular-based Point of Care Testing in the Emergency Department

— *Sydney Hiebert, Providence Sacred Heart Medical Center, Spokane, WA*

Describes the process and results of our validation on cobas Liat Influenza A/B & RSV Assay for detection of target viruses in former Influenza A/B & RSV positive samples.

2018 Student Posters

Poster 7 ... Detection of Sexually Transmitted Organisms by the BD MAX PCR Analyzer

— *Cassandra Johnson, Providence Sacred Heart Medical Center, Spokane WA*

This poster provides a complete validation of the BD MAX automated PCR vaginal panel done at Bonner General Hospital. This Validation was done to confirm sensitivity and specificity of the method in order to provide in house testing and shorter turn around time.

Poster 8 ... Comparison of the Plasmodium 18S rRNA RT-PCR Assay to Blood Smears in Conjunction with BiNaxNOW® RDT in Returning Travelers

— *Alex Jim Melnichuk, University of Washington, Seattle, WA*

A comparison between a molecular assay and the standard protocol by University of Washington Medical Centers in the diagnosis of malaria. The research showed that the molecular assay was highly sensitive and specific, but does have its shortcomings.

Poster 9 ... Differentiation of HIV-2 Antibody by Bio-Rad Geenius HIV 1/2 Supplemental Assay

— *Eugene Deng, University of Washington, Seattle, WA*

This study was to evaluate how well the BioRad Geenius assay differentiated HIV-1 and HIV-2 antibodies. Consistent with other studies, I found that many HIV-2 samples showed HIV-1 antibody cross reactivity.

Poster 10 ... Classification of the MSH6: c.2342C>T Variant as Likely Causing Lynch Syndrome: A Co-Segregation Study and Application of Sanger Sequencing

— *Sarah Lintag Upham, University of Washington, Seattle, WA*

A co-segregation study was performed by the University of Washington Genetics and Solid Tumors Division on a family with a variant of uncertain clinical significance in the gene MSH6 (NM_000179.2, c.2342C>T), to assess if the variant was co-segregating with disease phenotypes normally associated with Lynch syndrome. Application of a bioinformatics, rule-based wInterVar analysis and a multivariate Bayesian analysis demonstrated that the variant was likely to be pathogenic.

Please visit the Student Posters and talk with the students when they are present; their support allows us to showcase their research.

An exam is available. To be eligible for 1.5 contact hours, you will need to correctly answer 18 of 20 questions on the exam. There are 10 posters, each with two questions. Answers may be found within the student poster.

Registration General Information

To Register by Mail:

Complete the registration form and mail the registration form with a check payable to **Spring Seminar** to:

2018 ASCLS-WA Spring Seminar
Brenda Kochis
44 West 26th Avenue
Spokane, WA 99203-1818

If questions:

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

Phone: 509-939-8445 (leave message) Call before 8 pm please.

- » **Registration mail postmark by date: April 10, 2018.** This assures that your form will be delivered in time for us to provide you with the handout access information. This is not a deadline date; registration remains open through the seminar.

To Register Online:

Go to www.asclswa.org and click on the **Spring Seminar** tab. Click on “**Online Registration**” to go to the online form. Credit cards can be used to pay for registration.

- » Registrants using the online form must have a completed registration submitted by April 20, 2017 to receive lunch if eligible.

- **Lunch** is provided for those who register for two sessions on the same day. Lunch is not provided for those who register for one session a day or for those who register on site.
- **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.
- **Sessions** are approved for P.A.C.E.® credits.
- **Hotel reservations:** See the website for more detailed information. Please call the hotel for reservations. Mention “**2018 ASCLS-WA Spring Seminar**” to get the seminar rates.
- **Rates** will be available until April 7, 2018 after which it will revert to standard hotel rates.
- **No “Spring Seminar” Registration refunds** will be issued.

Fees are by session. Sessions are 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)
- 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 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 2018 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
- Shoreline Community College MLT Program
- University of Washington MT Program
- Wenatchee Valley College MLT Program

Registration Form

2018 ASCLS-WA Spring Seminar
 April 26 - 27, 2018
 Renton, WA

*Online registration and credit card payment is available at
www.asclswa.org, Spring Seminar Link
 or
 Mail this form with a check.*

First Name _____ Last Name _____
 Address _____
 City/State/Zip _____
 Day Phone _____ Evening Phone _____
 Institution _____
 City/State _____
 Email Address _____

Are you willing to serve as a session moderator? Yes No

**Circle the sessions
 you will be attending.**

Thursday, April 26	AM	1	2	3	4
	PM	5	6	7	8
Friday, April 27	AM	9	10	11	12
	PM	13	14	15	16

Category	# Sessions	Fee/session	Total Fee
ASCLS/AMT Professional/Technical		\$45.00	\$
ASCLS # _____ AMT # _____			
Special Member		\$60.00	\$
__AABB __AACC __ASC __ASCT __CLMA __ASM __ASH __ASCP Member number _____			
Non-Member		\$80.00	\$
Phlebotomist		\$35.00	\$
Student		\$25.00	\$
Total Fee			\$

Mail with check to
 2018 ASCLS-WA Spring Seminar
 Brenda Kochis
 44 West 26th Avenue
 Spokane, WA 99203-1818

Full payment in U.S. Dollars must accompany each mailed in
 registration. Make check payable to **Spring Seminar**
 Mail by April 10, 2018 to assure timely arrival.

OR

Online registration with credit card payment is available at
www.asclswa.org, Spring Seminar link