



2019 Northwest Medical Laboratory Symposium

October 9 - 12, 2019
Lynnwood Convention Center
Lynnwood, WA



The American Society for Clinical Laboratory Science (ASCLS) and the American Medical Technologists (AMT) invite you to join us in Lynnwood, WA, for this year's Symposium. Our clients, patients, and colleagues in the allied health professions rightfully expect and deserve that, as medical laboratory professionals, we maintain our professional credentials and competency. One means of doing this is to stay abreast of the latest developments in technology and testing. The NWMLS provides an excellent means of accomplishing this responsibility. Seminars cover topics in every aspect of laboratory medicine. In addition to educational opportunities, you will not want to miss out on the chance to network with fellow laboratorians. The **Exhibit Hall**, an opportunity to meet laboratory industry vendors face-to-face and learn of the latest technological developments, is always a highlight of the NWMLS. The industry representatives are available for you to visit with in a low intensity setting. They are happy to hear and respond to your questions.

Featured Exhibitors

Check the website as more are added!
www.asclswa.org/NWMLS.html

Abbott Diagnostics	GenMark Diagnostics
Abbott Rapid Diagnostics	Hardy Diagnostics
ARKRAY	Instrumentation Laboratory
ARUP Laboratories	Luminex Corporation
AUDIT MicroControls, Inc.	Ortho Clinical Diagnostics
BD	Radiometer America
Beckman Coulter	Randox Laboratories-US, Ltd.
bioMerieux, Inc.	Samaritan Health Services
Cepheid	Stago
Delivery Express	Sysmex America
DiaSorin Inc.	ThermoFisher Scientific
DiaSorin Molecular, Inc.	University of Washington
Drucker Diagnostics	WSLH ProficiencyTesting
General Water Technologies	

Who: All Are Welcome to Attend

What: The Major Laboratory Exhibit in the Northwest

Where: At the 2019 Northwest Medical Laboratory Symposium

Why: Don't miss a chance to see "state of the art" equipment. Talk to vendors and ask questions. And it's **FREE!** Guest passes available to non-registrants.

When: Exhibit Hall Open for Three Days!

Wednesday	Oct 9:	11:45 am - 2:15 pm
Thursday	Oct 10:	11:45 am - 2:15 pm
Friday	Oct 11:	11:45 am - 1:30 pm

P.A.C.E. Credits: Free P.A.C.E. credits are available for anyone attending the exhibits and completing an exam.

Exhibitor list is updated on the web, so check back often. Updates at www.asclswa.org/NWMLS.html

1

Thrombosis: What's the Risk? Will I Be One of the Unfortunate Ones?

– Paul Riley, PhD, MBA, Diagnostica Stago, Inc.

Acquired and inherited thrombotic risk is multifaceted. Patient thrombotic risk is based on many independent but also inter-dependent factors. Our session will explore both genetic and external risk factors, what testing should be done, if any, and how the hemostasis laboratory is an integral part of the diagnostic team.

Sponsor: Diagnostica Stago, Inc.

2

Survival Skills in a Bug's World

– Siu Kei (Jacky) Chow, PhD, D(ABMM), MultiCare Health System

The clinical microbiology field is evolving at a rapid pace. The advancement of knowledge and technology has promoted efficient clinical practice as well as accurate, rapid diagnoses of emerging infectious diseases. The speaker will provide an overview of the latest technologies and practices for the clinical microbiology laboratory. Additionally, recent highlights from the literature on laboratory function, epidemiology and clinical practice will be reviewed.

3

Clinical Utility of PSA Isoforms in Prostate Cancer Management

– Monet N. Sayegh, MD, Siemens Healthineers

An estimated 164,690 new cases of prostate cancer accounting to 19% of new cancer cases in men was reported by the American Cancer Society in 2018, while indeed, extensive use of PSA testing has importantly contributed to 52% decline in prostate cancer mortality between 1989 and 2015. The presentation will address three main topics: an overview of prostate cancer, clinical utility of prostate specific antigen, and ways to improve PSA performance using PSA isoforms and finally discussing some of the emerging biomarkers that potentially can meet clinical needs, as this may reduce unnecessary interventions that may cause more harm than good.

Clinical and Diagnostic Testing of Patients with Cardiorenal Syndrome

The layout of this talk begins with an explanation of the concept of the Cardiorenal syndrome. Rather than calling it a disease - it is named a syndrome, because several unrelated symptoms tend to cluster together. Whereas a disease has a clear and clear explanation of pathophysiology, the understanding of this syndrome is quite complex. We will look at how we define it, what types there are, and what is known about the underlying pathophysiology. We will review the current guidelines for diagnostics from the ADA to the KDOQI guidelines.

Sponsor: Siemens Healthineers

4

Best Practices in Blood and Urine Collection in Consideration of Sample Quality and Patient Experience

– Jean L. Tenuta, MS, MBA, MT(ASCP)DLM, SLS; CQA(ASQ), Becton, Dickinson and Company

Studies show that 75 percent of erroneous results reported occur in the pre-analytic phases. This session will explore what laboratorians can do to procure samples that most accurately reflect a patient's clinical status, while adhering to the pressures of minimizing turnaround time and improving the patient experience and outcomes.

Sponsor: Becton, Dickinson and Co.

..... Visit the Exhibits 11:45 AM - 2:15 PM ... Lots of great information!

5

Techniques and Surveillance in Disease Management for Public Health

– Sophey Hun, MBA, MLS(ASCP)^{CM}, WA State DOH Public Health Laboratories

Karin Neidt, MPH; Philip Dykema, PhD; Beth Melius, RN, MN, MPH; Charla (Chas) DeBolt, RN, MPH; Raymond Gee, BS; Marisa D'Angeli, MD, MPH; Kelly Kauber, MPH, CIC; Drew MacKellar, PhD; Krisandra Allen, MPH, MB(ASCP)^{CM}

Washington State Public Health Laboratories (WAPHL) provides diagnostic and analytical services for testing and surveillance of infectious, communicable, genetic, and chronic diseases and environmental health concerns. Laboratory functions include providing state-of-the-art reference clinical laboratory testing and confirmation, food-borne disease surveillance, outbreak response, biomonitoring, and response to biological, chemical, and radiological terrorism. The speakers in this session will present on a diverse range of public health cutting edge technology from early hearing loss detection, antimicrobial resistance data for action, microbial genomics including whole genome sequencing, and current emerging infectious diseases.

Sponsor: WA State DOH

6

What's New With CLSI Documents

– Luann Ochs, MS, Clinical & Laboratory Standards Institute

This session includes several parts. First we will discuss new and revised CLSI Documents with a general overview of recently published new or revised CLSI documents, including what changes have been made. Next we will look at EP06, Verification of Linearity Simplified which covers how to do linearity verification using simplified methods that are described in the new EP06 documents. Next is QMS20, Cost of Quality which covers how to determine the cost of poor quality within the laboratory.

Sponsor: Clinical & Laboratory Standards Institute

Note: This session is also being offered on Saturday as Session 30

7

Part 1: Platelet Transfusion Therapy / Part 2: Update on Thrombocytopenia

– Terry B. Gernsheimer, MD, University of Washington

This session in two parts will describe the pathophysiology, laboratory findings, and diagnosis of thrombocytopenia. The second part will review therapies for thrombocytopenia, focusing on platelet transfusion therapy. The transfusion section will include platelet support of the surgical, oncologic, and stem cell transplant patient and adjunctive therapies for thrombocytopenic bleeding.

8

Evolving Role of the Microbiologist in Advancing Antibiotic Stewardship: Changing the Paradigm

– Michael R Broyles, BSPHarm, RPh, PharmD, Five Rivers Medical Center, Pocatong, AR

The participant will become aware of the opportunities that exist for most laboratories to extend their effectiveness in antimicrobial stewardship programs. We will describe various methodologies and how they become synergistic to provide clinicians the needed information to avoid over prescribing. Recommendations are discussed to add value to the hospital team and C-Suite helping them to see the "Big Picture" while avoiding the common "Silo" mentality. All of the concepts will be demonstrated using real patient case studies.

Sponsor: bioMerieux

9

Variants Of The Rh Blood Group System: Understanding How and When Genotyping Can Help Resolve Serologic Typing Discrepancies

– *Samantha Harris, BS, Bloodworks NW*

The Rh blood group system is one of the most polymorphic and antigenic human blood group systems, and is quite complex, resulting in the potential for various serologic typing discrepancies to arise. This session will include topics that cover molecular basics to advanced concepts used in RH genotyping, focus on the indications for red cell genotyping, and explain how to utilize red cell genotyping to help resolve discrepancies in the transfusion service laboratory.

Blood Donation Reactions in Young Donors and Intervention Strategies Utilizing Medically Trained Volunteers

– *Naomi Demarest, MPA, CVA, LSSGB, Bloodworks NW*

One of Bloodworks NW's challenges that impacts our blood supply is engaging young blood donors to not only donate blood, but to donate regularly. Studies and evidence in donor retention and donation patterns demonstrate a correlation between donation experience that includes a vasovagal reaction and the impact it has on future donations.

Sponsor: Bloodworks NW

10

Moving Healthcare Forward: Sepsis

– *Kathy Davidson Altig, BS, MT(ASCP), Beckman Coulter*

Sepsis has a high mortality rate and is the third leading cause of death in the US, over 258,000/year in the US with 25-30% Mortality Rate. Sepsis impacts many people - 26 million people worldwide are affected with a 1.5% increase in incidence each year. Early Identification Sepsis reduces costs to healthcare organizations; antibiotic administration decreases the likelihood of death by 7.6% per hour. We propose a test that will give earlier information to clinicians.

Sponsor: Beckman Coulter

Employing Neural Networks to Standardize RBC Morphology and the WBC Differential using Digital Cell Morphology with Case Studies

– *Scott Dunbar, BS, MS, CellaVision*

This session will describe how advanced RBC Software and Neural Networks can standardize RBC Morphology of the manual differential. Furthermore it will cover new case studies of rare disorders and on-line competency software which will help assess quality.

Sponsor: CellaVision

11

The Role of Biomarkers in The Diagnosis of Gastrointestinal Infection and Disease

– *Sarah Elliott, PhD, DiaSorin*

Many people in the US suffer from some form of gastrointestinal disease, including ulcerative colitis, Crohn's disease, irritable bowel syndrome and pancreatic insufficiency. Utilizing fecal biomarkers to aid in the diagnosis of many gastrointestinal diseases is a major advancement in the field, and can help differentiate between the different disorders. This session will focus on several gastrointestinal diseases, the relevant current testing recommendations, available testing methodologies, and highlight the importance of an accurate diagnosis and the resulting impact on patient care.

Sponsor: DiaSorin

Herpes Simplex Virus Infection: From Delivery Room to Nursing Home

– *Jeff Chan, PhD, DiaSorin Molecular*

Herpes simplex virus: HSV-1 and HSV-2 are common human pathogens that affect all age groups. Clinical presentation of HSV infection ranges from cutaneous and mucocutaneous lesions to encephalitis and meningitis. This presentation will discuss the epidemiology and modality of HSV infections, and emphasize the appropriate use of diagnostic tests.

Sponsor: DiaSorin Molecular

..... Visit the Exhibits 11:45 AM - 2:15 PM ... Lots of great information!

12

The Law Versus the Lab - Who Will Win?

– *Kelcey Terrell, MT(ASCP)H, CG, CLC, InCyte Pathology*

Imagine that you had to go defend one of your lab results in court? What documentation would you need to show that your laboratory produced an accurate and quality result? This session will provide education on the legal liability of your lab and show the importance of proper documentation. This will be a fun and interactive session.

Sponsor: InCyte Pathology

13

Antimicrobial Resistance, Antimicrobial Stewardship, and Efforts in the Pacific Northwest

– *Chloe Bryson-Cahn, MD, Harborview Medical Center*

In this session, we will explore antimicrobial resistance and its impact on the care of our patients. We will discuss how the overuse of antimicrobials drives resistance and successful strategies to help improve the use of antimicrobials, including opportunities for the lab to drive better prescribing. We will wrap-up with some innovative approaches in antimicrobial stewardship in the Pacific Northwest.

14

The Current Status of Rapid HIV Testing

– *Norman Moore, PhD, Abbott Rapid Diagnostics*

HIV is the etiological agent for AIDS. While there are newer therapies that improve quality and duration of life, it is still imperative to implement HIV screening to detect cases as early as possible both to put them on the appropriate therapy and limit exposure to other people.

The Pros and Cons of Rapid Infectious Disease Testing

Many tests are available that can give diagnostic information in minutes which can aid in directing therapy. Using the appropriate antibiotic or antiviral can help reduce complications such as *C. difficile* and antibiotic resistant microorganisms as well as other issues associated with the human microbiome.

Sponsor: Abbott Rapid Diagnostics

15

Method Validation / Verification / Training and Competency Assessment - Learning From Each Other!

– *Steve LaCroix MS CBSP, Washington Public Health Laboratories*

Let's review various aspects of method validation and verification while touching base on training and competency assessment - but primarily learning from each other!! We will cover some basic method validation and verification strategies giving you the Public Health Laboratories experience. What is required and what meets your needs? This will be interactive and we invite your participation. We will cover training and competency assessment since that is always an ongoing process that is key to quality testing.

Sponsor: Washington State DOH Public Health Laboratories

16

Beta-Hydroxybutyrate Testing in the Diabetic Patient

– Tina J Batsch, MT(ASCP), Newport Hospital and Health Services

One of the major consequences of diabetes is the development of hyperglycemia with ketoacidosis and diabetic coma. This session will take an in depth look at the physiology and biochemistry of the insulin dependent diabetic. Management of the disease will be discussed including proper insulin regulation, diet, and exercise. The role of laboratory beta-hydroxybutyrate testing during the ketoacidosis state will be presented.

Sponsor: Newport Hospital and Health Services / North Puget Sound Society for CLS

17

Case Studies In Red Cell Disorders and Coagulation

– Daniel E. Sabath, MD, PhD, University of Washington

This session consists of a series of case vignettes selected to highlight important aspects of the laboratory diagnosis of benign hematological disorders. Half of the time will be spent discussing cases of hemoglobinopathies and thalassemias. The other half will be spent discussing interesting coagulation cases.

18

Laboratory Support for ECMO (Extracorporeal Membrane Oxygenation)

– Wayne L. Chandler, MD, Seattle Children's Hospital
– Quincy Lam, MT(ASCP), Seattle Children's Hospital

Extracorporeal membrane oxygenation (ECMO) is used to support the heart and lungs of patients with cardiopulmonary disease. This session will describe the use of ECMO in the pediatric setting, how laboratory medicine is used to support ECMO, and new clinical laboratory research on the causes of bleeding and clotting associated with ECMO.

19

Antibiotic Resistance: The Case for Diagnostics to Help Direct Therapy

– Norman Moore, PhD, Abbott Rapid Diagnostics

One of the greatest global threats is the rising tide of antibiotic resistant bacteria. Yet even with this crisis, many doctors prescribe antibiotics based on symptoms rather than rely on diagnostics that could better define what antibiotic – or even if one is needed at all. Indiscriminate use of antibiotics may lead to other consequences, such as treating for pneumonia can lead to *C. difficile*.

Enteric Disease in the US

There are an estimated 211-275 million cases of diarrhea per year in the US with 1.8 million hospitalizations and 3100 deaths. This lecture will discuss the diseases and diagnostic options. Focus will be on new *C. difficile* guidelines.

Sponsor: Abbott Rapid Diagnostics

Attention! Last Chance to Visit the Exhibits!

Exhibits are open from 11:45 AM to 1:30 PM

20

Injecting Culture: How to Create a Thriving Work Environment

– Zachary Speron, MS, Pima Medical Institute

How do we create culture? Culture may fall into an abstract category, but is one of the first things you feel when walking into any company. Individuals all contribute and shape the culture of our organizations, but as leaders, we must sculpt the culture we want through coaching, inspiration, and modeling the passion for what we do. In this session, we will discuss strategies for creating a patient-centered culture of support, ownership, and excellence. Doing this is no easy feat, but we will explore practical tactics and action plans that allow you to work smarter not harder and create an impact in your organization as efficiently as possible. We will change the biggest areas of opportunity where injecting positive culture will allow your organization to Thrive.

21

Global Warming and Clinical Mycobacterial and Fungal Infections

– Xuan Qin, PhD, D(ABMM), Seattle Children's Hospital

This session will present clinical case incidents and case characteristics associated with non-TB mycobacterial and fungal infections. We will explore the possibility of global warming and increased frequency of forest fires contributing to the increased risks of environmental exposure.

Sponsor: Seattle Children's Hospital

22

You Are What You Eat. Good Nutrition for Everyone

– Katy Wilkens, MS, RD, Northwest Kidney Centers

What is healthy eating? What are good and bad foods? 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: Interpreting Lab Values in Renal Failure

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.

Please note that a more comprehensive description is available in the online program book. Check it out at www.asclswa.org/NWMLS.html

23

Creating Leaders Out of Entry Level Employees

— Michael Juretech, MT (ASCP), MBA, ARUP Laboratories

A detailed outline of how to manage entry level employees with a focus on teaching leadership skills through the development of highly effective teams. This discussion will focus on the "basics" of employee management with clear justifications for why these techniques work. The course will offer "advanced" techniques for dealing with difficult or problematic personalities and situations.

Sponsor: ARUP Laboratories

24

Pediatric Hematopathology Cases

— Min Xu, MD, PhD, Seattle Children's Hospital

In this session we will first conduct an overview of pediatric lymphoblastic leukemia. Then we will discuss germline GATA2 mutation associated disorders. Finally, we will examine bone marrow findings in pediatric autoimmune disorders.

25

Phlebotomy and Beyond - Career Advancement in Laboratory Medicine: Phlebotomy - CLA - MLT - MLS

— Sue Seegers, B.S. MT, Shoreline Community College

Career opportunities will be discussed for phlebotomists seeking to advance their education and employment in the laboratory medicine field. Educational requirements will be reviewed to continue in lab medicine from phlebotomist to Clinical Lab Assistant to Medical Lab Technician and Medical Lab Scientist. Job responsibilities and certification will be explained.

Advanced Phlebotomy Techniques

— Erika Ferreri, MAED, BSBM, AAPT, AAPI, Edmonds Community College

This session goes over advanced phlebotomy techniques used with challenging patient populations. There will be hands-on activities, demonstrations, and an open discussion forum to share best practices.

26

Practical Applications of Quality Control

— Michael Toyoshima, BSMT(ASCP)SC, CLS, Bio-Rad Labs

This lecture presents a practical overview of basic concepts in quality control. It provides an examination of some creative applications of QC in the lab. The lecture also addresses some of the more common quality control problems that laboratory professionals face on a daily basis. We will discuss Reagent crossovers and how to deal with changes in QC and/or patient values. Seminar participants will be able to describe and properly use Westgard Rules. The presentation will also focus on interpretation of QC reports, using CVR (Coefficient of Variation Ratio) and SDI (Standard Deviation Index) to pinpoint areas of increased random or systematic error. This seminar is recommended for any individual that deals with Quality Control in the laboratory.

Sponsor: Bio-Rad Laboratories

27

Antimicrobial Susceptibility Testing Challenges and Diagnostic Stewardship

— Punam Verma, PhD, D(ABMM), MT(ASCP), Virginia Mason Medical Center
 — Tracie Rose, MT(ASCP)SM, Virginia Mason Medical Center

This informative session will focus on emerging resistance mechanisms, their detection, and clinical implications. This session will also include a review of the latest CLSI AST/reporting recommendations and concepts of diagnostic stewardship.

28

Cytologic Evaluation of Body Fluids

— Annette Sabath, MD, Kaiser Permanente

The speaker will present a basic review of major principles of laboratory body fluids evaluation, including physiology of various body fluids formation and diseases association, with emphasis on Cytological evaluation with proper collection, fixation, and preparation requirements; review of normal and abnormal cell components of body fluids, with expanded cytomorphological rules and patterns to tell benign from malignant cells and their mimickers.

29

Are You Current with Your GP41 CLSI Phlebotomy Standards?

— Erika Ferreri, MAED, BSBM, CPT, CPI, Edmonds Community College

The speaker will present the new CLSI Phlebotomy Standards and how they are different from the former CLSI Phlebotomy Standards. The speaker will reserve the last 1.5 hours as an interactive Q&A session with phlebotomy equipment.

30

What's New With CLSI Documents

— Luann Ochs, MS, Clinical & Laboratory Standards Institute

This session includes several parts. First we will discuss new and revised CLSI Documents with a general overview of recently published new or revised CLSI documents, including what changes have been made. Next we will look at EP06, Verification of Linearity Simplified which covers how to do linearity verification using simplified methods that are described in the new EP06 documents. Next is QMS20, Cost of Quality which covers how to determine the cost of poor quality within the laboratory.

Sponsor: Clinical & Laboratory Standards Institute

Note: This session was also offered on Wednesday as Session 6.

Registration General Information

To Register by Mail:

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

NWMLS to:

2019 Northwest Medical Laboratory Symposium

Brenda Kochis

44 West 26th Avenue

Spokane, WA 99203-1818

If questions, contact Brenda Kochis:

Email preferred: BrenKoch@comcast.net

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

- » **Registration mail postmark by date: September 23, 2019.** This assures that your form will be delivered in time for us to provide you with the information to access the handouts. Registration is still available after this date, just allow for mail time.

To Register Online:

Go to www.asclswa.org and click on the **NWMLS** 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 by October 1, 2019 to receive lunch if eligible.

- **Lunch** is provided for those that register for two sessions (morning and afternoon) on the same day.
- **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. credits.
- **Hotel reservations: ONLINE.** Visit the NWMLS website for more detailed information about online hotel reservations. Go to www.asclswa.org/NWMLS.html. There is a direct link for reservations at the group rate.
PHONE: If you are having trouble receiving the group rate using the online hotel reservation, call the hotel directly at 425-775-7600. Ask for the “Northwest Medical Laboratory Group Rate” to get the seminar rates.
GROUP RATE DEADLINE. Reserve your room by September 24, 2019. If booking after this date, the rates will revert to the standard hotel rates.
- **No “NWMLS 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/NWMLS.html.

Hotel and Convention Center

Detailed information including driving directions may be found online at www.asclswa.org/NWMLS.html

All Sessions and Exhibits will be held at the Lynnwood Convention Center, located at 3711 196th Street SW, Lynnwood, WA.

The hotel is the **Best Western Alderwood Hotel**, located at 19332 36th Ave W, Lynnwood, WA. It is within walking distance of the Convention Center. Rates for NWMLS attendees are \$75.99 for a single and \$79.99 for a double, plus state and local tax. When calling the hotel at 425-775-7600, please request the NWMLS group rate to obtain the correct rate. Rates are held until **September 24, 2019**, after which room rates are at the discretion of the hotel.

A direct link to reservations are available at the hotel link on the website, www.asclswa.org/NWMLS.html

Registration Form

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*Online registration and credit card payment is available at www.asclswa.org/NWMLS.html or
For mail registration send this form with a check.*

First Name _____ Last Name _____

Address _____

City/State/Zip _____

Phone _____

Institution _____

City/State _____

Email Address _____

Are you willing to serve as a moderator? Yes No

Circle the sessions you will be attending.

Wednesday Oct 9	AM	1	2	3	4
	PM	5	6	7	8
Thursday, Oct 10	AM	9	10	11	
	PM	12	13	14	15
Friday, Oct 11	AM	16	17	18	19
	PM	20	21	22	
Saturday, Oct 12	AM	23	24	25	26
	PM	27	28	29	30

Category	# Sessions	Fee/session	Total Fee
ASCLS/AMT Professional/Technical		\$55.00	\$
ASCLS # _____ AMT # _____			
Special Member		\$70.00	\$
___AABB ___AACC ___ASC ___ASCT ___CLMA ___ASM ___ASH ___ASCP Member number _____			
Non-Member		\$85.00	\$
Phlebotomist		\$35.00	\$
Student		\$25.00	\$
Total Fee			\$

Mail with check to
2019 NWMLS
Brenda Kochis
44 West 26th Avenue
Spokane, WA 99203-1818

Full payment in U.S. Dollars must accompany each mailed registration. Make check payable to **NWMLS**.
Mail by September 23 to assure timely arrival

OR

Online registration with credit card payment is available at
www.asclswa.org, click on NWMLS

Northwest Medical Laboratory Symposium

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The full program description, objectives and additional
information can be found in the online book at
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* 30 CE sessions * Exhibit Hall * Registration Form * Hotel Information