

2023

Joint Spring Seminar

Virtual

April 20 - 21, 2023

8:00 - 9:00 AM **Session 1** 1 Contact Hour
Discipline: Hematology

Update in Red Blood Cell Membrane Disorders

- **Archana Agarwal, MD**
ARUP Laboratories, Salt Lake City, UT

Hemolytic anemias due to abnormalities of the erythrocyte membrane comprise an important group of inherited disorders. These include hereditary spherocytosis (HS), hereditary elliptocytosis (HE) and hereditary pyropoikilocytosis (HPP) and hereditary stomatocytosis. These disorders are characterized by clinical, laboratory, and genetic heterogeneity. HS is the most common inherited anemia in individuals of northern American descent affecting approximately 1 in 1000-2500 individuals depending on the diagnostic criteria. The clinical heterogeneity of these disorders range from in-utero transfusion to well compensated anemia. This presentation will address the different types of RBC membrane disorders, and its pathophysiology. Diagnostic techniques including utility of next generation sequencing (NGS) will also be discussed.

- ⇒ List different types of RBC membrane defects.
- ⇒ Demonstrate ability to order appropriate tests and to correlate results of laboratory testing with specific RBC membrane defects.
- ⇒ Describe the principles of different technologies used for the diagnosis of RBC membrane defects.
- ⇒ Discuss the utility of NGS in diagnosis of these disorders.

Sponsor: ARUP Laboratories



9:30 - 10:30 AM **Session 2** 1 Contact Hour
Discipline: Chemistry

Automation Bias and Automation Complacency in the Laboratory

- **Tracey Gardner, MLS(ASCP)^{CM}**
Providence-Swedish South Puget Sound
Olympia, WA

Laboratory values are vital for clinicians diagnosing and treating their patients. As pressure to produce reliable results as efficiently as possible has increased, the laboratory has become more dependent on automated processes and instrumentation. Add in the medical laboratory workforce shortage, and laboratorians have also become more reliant on automation. This session will discuss the distinct but linked concepts of automation bias (AB) and automation complacency (AC) as they relate to the role medical laboratory professionals play in patient safety.

- ⇒ Differentiate between AB and AC.
- ⇒ Discuss causes of AB and AC.
- ⇒ Recognize lab situations where AB and AC could affect patient care.
- ⇒ Propose interventions and prevention strategies.



**2023 JOINT SPRING SEMINAR
VIRTUAL MEETING
EDUCATIONAL SESSIONS | THURSDAY, APRIL 20, 2023**

11:00 AM - 12:00 PM Session 3 1 Contact Hour

Discipline: Microbiology

Antibiotic Resistance Lab Network West Regional Lab Testing Updates

- Emily Schneider, MPH

Washington State Department of Health
Shoreline, WA

Since 2016, the Washington State Public Health Lab (WA PHL) has served as the West Regional Lab for the Antibiotic Resistance Lab Network. As the West Regional Lab, WA PHL provides advanced testing on carbapenem resistant and carbapenemase producing organisms and the emerging fungal pathogen, *Candida auris* for Washington, Oregon, Alaska, California, Nevada, Hawaii, and Guam. This session will focus on testing through the AR Lab Network and highlight the importance of increased surveillance for these organisms.

- ⇒ Describe the goals and function of the AR Lab Network.
- ⇒ Discuss how clinical laboratories can interface and collaborate with the AR Lab Network.
- ⇒ Describe the importance of emerging resistance, specifically carbapenem resistant (carbapenemase production) and *Candida auris*.

Sponsor: Washington State Dept of Health

1:00 - 2:00 PM Session 4 1 Contact Hour

Discipline: Immunohematology

Rhogam Administration: A Review of Serologic D Typing and Impact of RhD Genotyping

- Grace Leu-Burke, MS, CLS, MT(ASCP)

University of Alaska Anchorage, Anchorage, AK

The ability to genotype RhD has the potential to change how we determine Rh negative status. The presentation will discuss current serologic testing for D, including weak D, and how genotyping can change the landscape when determining risk associated with development of anti-D.

- ⇒ Describe the importance of the relationship with Lab and Supply Chain.
- ⇒ List Best Practices with Vendor Management support from Supply Chain.
- ⇒ Outline how to build successful partnerships with key members of Supply Chain.

Replacing Supply Chain and Laboratory
Collaboration - Best Practices which has been
cancelled.

2:30 - 3:30 PM Session 5 1 Contact Hour

Discipline: General

YOU'RE That Somebody: Labvocracy in 2023

- Jim Flanigan, CAE

ASCLS, Reston, VA

As the 117th Congress came to a close, 2022 still had the potential to be the most consequential year for federal legislation and regulation of clinical laboratories since CLIA passed in 1988. This presentation will provide an overview of the political landscape in Washington, DC in the 118th Congress, along with updates on federal legislation to support the laboratory workforce, reimbursement for laboratory services, and a risk-based framework for regulating clinical laboratory testing. The presentation will also cover proposed and future anticipated proposals to change CLIA workforce regulations.

- ⇒ Apply information provided to take appropriate action as advocates on federal legislation and regulation.
- ⇒ Appraise colleagues of the current, federal political environment, and status of legislation on workforce, reimbursement and test regulation.
- ⇒ Evaluate arguments for and against key pieces of legislation and regulation to form professional opinions and positions.

Sponsor: ASCLS

Additional information about PAC is on the website: [ASCLS Gov't Affairs, PAC, and Legislative Day](#).

8:00 - 9:00 AM **Session 6** 1 Contact Hour
Discipline: General

Simulation - Can It Be Used In Clinical Laboratory Education To Help Address Workforce Shortages?

- **Patrick Tracy, MT (ASCP)**

Wenatchee Valley College, Wenatchee, WA

This session looks at the use of simulation in MLT/MLS programs. The use of simulation will be examined as to how it can be adapted in meeting medical laboratory staffing shortages. Strategies in building a stable workforce will also be discussed. The presenter deals almost exclusively with rural healthcare facilities and therefore the focus will lean in that direction.

- ⇒ Discuss why simulation has emerged in MLT/MLS education.
- ⇒ List challenges laboratories are facing in providing clinical training for MLT/MLS programs.
- ⇒ Give examples of simulation and how they can be used in MLT/MLS programs.
- ⇒ Discuss how simulation can help laboratories cope with workforce shortages.
- ⇒ Discuss how to employ steps that can be taken to ensure a more stable workforce.

9:30 - 10:30 AM **Session 7** 1 Contact Hour

Disability: The Need For Inclusion and Its Impact On The Workplace

- **Grace Leu-Burke, MS, CLS, MT(ASCP)**

University of Alaska Anchorage, Anchorage, wAK

Awareness of diversity in the workplace includes recognition of the disabled employee and their value in the workplace. This session will provide background on the definition of disability, the role the American with Disabilities Act played in adapted work environment, and discuss benefits of supporting the disabled worker in creating an inclusive atmosphere.

- ⇒ Define disability, including both visual and hidden, and discuss the difference between medical and federal social security definitions.
- ⇒ Discuss the American with Disabilities Act and its role in shaping law regarding equal access in the workplace.
- ⇒ Outline the opportunities and enhancement of the workplace when providing an inclusive work environment for the disabled.



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**2023 JOINT SPRING SEMINAR
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EDUCATIONAL SESSIONS | FRIDAY, APRIL 21, 2023**

11:00 AM - 12:00 PM **Session 8** 1 Contact Hour

Discipline: Hematology

Von Willebrand Factor: Friend or Foe?

- George A. Fritsma, MS, MLS

The Fritsma Factor, Your Interactive Hemostasis Resource, Trussville, AL

TMA, TTP, aHUS, STEC-HUS, MAHA, PLEX, TIC, ADAMTS13, VWF. What Does it All Mean?

The COVID pandemic gave us the term “thromboinflammation” and provided new insights into the relationship between endothelial cell dysfunction, inflammation, and hemostasis. Today’s talk attempts to sort this all out.

- ⇒ Diagram VWF production and the von Willebrand factor cleaving protease, ADAMTS13.
- ⇒ Diagram the mechanisms behind the thrombotic microangiopathies STEC-HUS and aHUS.
- ⇒ Illustrate how these disorders are implicated in arterial thrombosis, TTP, and SARS-CoV2 infection.
- ⇒ Identify and manage the emerging therapies eculizumab, caplacizumab, and ADAMTS13 concentrate.



Sponsor: Precision BioLogic Inc.

1:00 - 2:00 PM **Session 9** 1 Contact Hour

Discipline: Hematology

Leveraging the Power of Spectral Flow Profiling in the Clinical Setting

- Andrew Lister, D. Phil

Cytek Biosciences, Fremont, CA

In this session, Dr. Lister will provide review of Full Spectral Profiling (FSP), contrasted with conventional flow; review daily workflow with FSP and highlight standardization and data quality; review the negatives and positives of FSP; provide an introduction to autofluorescence extraction; and discuss how you can do more with less using FSP. We will look at testing panel design and show the advantages of using multiple lasers (1 laser—9 colors; 2 lasers—21 colors; 3 lasers—25 colors).

- ⇒ Discuss how spectral improves upon ‘conventional’ flow.
- ⇒ Discuss the simplifying potential for multi-tube panel consolidation.
- ⇒ Discuss how FSP can increase productivity & improve patient care.

Sponsor: Cytek BioSciences

2:30 - 3:30 PM **Session 10** 1 Contact Hour

Discipline: Microbiology

The Clinical Microbiology Laboratory of the Future

**- Rodney E. Rohde PhD, MS, SM(ASCP)^{cm},
SV^{cm}, MB^{cm}, FASCs, Global Fellow**

Texas State University, CLS Program San Marcos, TX

- Andrea Prinzi, PhD, MPH, SM(ASCP)
bioMerieux, Denver, CO

The medical laboratory, including the clinical microbiology area, has always been a critical component of both healthcare and public health. The COVID-19 pandemic, ongoing emerging and reemerging pathogens, and the growing global emergency of antimicrobial resistance has placed the microbiology laboratory at the center of medicine. This session will explore the lab of the future and how it might look for laboratories of all sizes, rural hospitals, moderate sized hospitals, large medical centers, and reference laboratories in the presence of technology changes, workforce shortages, and other hurdles.

- ⇒ Explain the status of the clinical microbiology laboratory, including the history and background.
- ⇒ Identify and list the ongoing challenges surrounding technology, workforce shortages, and medical laboratory education program clinical placements.
- ⇒ Correlate the lessons learned from the COVID-19 pandemic to the current needs and issues of the future clinical microbiology laboratory.
- ⇒ Describe the clinical microbiology laboratory of the future and how it might look and operate at all levels and sizes.

Registration Form

2023 Joint Spring Seminar
April 20 - 21, 2023
Virtual Meeting

Online registration and credit card payment is available at
www.asclswa.org
or
For mail registration send this form with a check payable to
Spring Seminar.

First Name _____ Last Name _____
Address _____
City/State/Zip _____
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Category	Fee	Total Fee
ASCLS/AMT Professional/Technical	\$40.00	\$
ASCLS #	AMT #	
Non-Member	\$60.00	\$
Student	\$10.00	\$
Total Fee		\$

Your fee covers two days of the Spring Seminar.

The live sessions will be recorded and available to registered attendees for 30 days after the meeting.

To Register by Mail:

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

2023 Joint Spring Seminar
Brenda Kochis
44 West 26th Avenue
Spokane, WA 99203-1818

If questions, contact Brenda Kochis:

Email preferred: BrenKoch@comcast.net

Phone (before 7 pm) 509-939-8445 (leave message).

To Register Online:

Go to <http://www.asclswa.org/SpringSeminar.html>. Click on "Online Registration" to go to the online form. Credit cards can be used to pay for registration.

Registration Deadline: **April 19, 2023**

This deadline is to allow us to provide the information for access to the Virtual Joint Spring Seminar.
Registration is still open after this date.