Morning Session

8:10-9:15am

Introduction to Molecular Immunohematology
Speaker: Katrina Billingsley, MT(ASCP)SBB
Red blood cell genotyping has been in practice for over a decade, but do we really understand what it’s all about? This session will review basic genetics and the biochemistry of DNA. It will also discuss blood bank genotyping options and how the test results are applied in clinical practice.

9:15-10:15am

IRL Interesting Cases
Speaker: OBI IRL Staff
* Taking the High Road
An OB patient presents with an antibody reacting with all cells tested. A workup is performed in the reference laboratory using different enhancements, enzymes, and other special techniques to determine the identity of the antibody.

* Anti-CD47: The next wave in monoclonal antibody therapies
Now that daratumumab (DARA/Darzalex) has become a highly utilized treatment option for multiple myeloma and is being trialed for other forms of leukemia and lymphoma, interference due to monoclonal antibodies has become almost commonplace. The use of monoclonal antibodies therapies will only increase, and we have to look forward to the next complication posed to pretransfusion testing. Anti-CD47 (Hu5F9-G4) is a monoclonal IgG4 antibody currently in clinical trials for hematologic and solid malignancies. Because the CD47 glycoprotein is present on all cells, anti-CD47 causes interference in pretransfusion testing, in multiple phases, including ABO typing.

* Warm Autoantibody or High Frequency Antibody?
Possible Anti-U workup with positive IgG DAT and panreactive eluate. All panel cells reacting weak positive with neat serum and FeG enhancement, except for our U negative panel cell which was negative.

10:25-11:25am

Low Titer O Whole Blood
Speaker(s): Tuan Le, Barbara Ledford
The presentation will discuss the background on the reemergence of the use of whole blood for trauma and exsanguination. My portion of the presentation will include the Oklahoma Blood Institute’s process of selecting appropriate products to be used for a whole blood product, the determining the low titer status, and the designation of the low titer status to an appropriate Group O whole blood unit.

11:25-12:25pm

Whole Blood: Beyond Trauma
Speaker: Stephanie Bates, M.D.
This session will review how whole blood has been used in the past, the evidence for its continued use in massively bleeding patients, and the considerations to be made for each different patient population.

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Questions? Email: education@scabb.org or Call: 866-649-6550
Improved Platelet Stewardship by Rapid Bacterial Testing at a Blood Center

Speaker: Mike Stevenson

This presentation will discuss how the Oklahoma Blood Institute implemented a rapid bacterial detection test to add a sixth day to the shelf life of platelethpheresis products. Notable aspects of this initiative, including overall improved stewardship of donor’s gifts, number of platelethpheresis units qualified for a sixth day, rapid bacterial detection test results, blood center operational effects, net product hospital usage, and reduction in expensive wastage of apheresis platelet units will be discussed.

Organ and Tissue Donation and Transplantation; Current and Future Trends

Speaker(s): Clint Hostetler

Presentation will provide an overview of the tissue donation and recovery process as well as of the organ recovery process. Following this there will be information aimed at emerging technology and trends in organ and tissue donation and transplantation.

Platelet Rich Plasma:
Going Beyond What We Know

Speaker: Daisy Annette, MLS(ASCP)

Platelet products manufactured from whole blood donations are being prepared for physician directed use. Literature reports suggest that Platelet Rich Plasma Lysate (PRP-L) have been used to promote wound healing in the eye, mouth and skin.

Assessment Process Plus!

Speaker: Pandora Crawford, MPH, MT(ASCP)

This presentation will provide guidelines for the basic elements required to properly prepare for an external assessment. This will include the pre-assessment work required to prepare the facilitator as well as key participants. It will also cover external assessment etiquette and post assessment guidelines.

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