

Experience in Blood Banking: Advanced Course

Tuesday, April 2, 2019

8:00-8:30	Sign-in	
8:30	Welcome	
8:30-9:30	A Day in the IRL <ul style="list-style-type: none"> Describe the following esoteric procedures performed in the IRL, and list instances when they are used: adsorptions, freezing/deglycing rare units, platelet antibody testing, etc. Describe the process by which the IRL maintains antigen typed RBC inventory for unit requests. Discuss common methods employed for serologic workups for patients receiving anti-CD38 therapy. 	Shay Jones MLS(ASCP) ^{CM} BB ^{CM}
9:30-10:30	When Your Patient Needs REALLY Rare Blood** <ul style="list-style-type: none"> Describe laboratory methods used to identify an antibody to a high prevalence antigen and those to screen for rare compatible donors. Describe different ways to acquire rare units. List options for patients who require transfusion when no compatible blood is available. 	Kelly Winkhart BS, SBB(ASCP) ^{CM}
10:30-10:45	Break	
10:45-11:45	Complementary Use of Genomics and Serologic Testing** <ul style="list-style-type: none"> Articulate the usefulness of genomic testing in the identification of multiple RBC antibodies. Describe the role of RBC genomic testing in stem cell/bone marrow transplant cases. Recognize the serologic and transfusion challenges in patients with altered RBC antigen alleles. 	Aaron Gottschalk, PhD & Bernadette Graves MT(ASCP)SBB
11:45-12:15	Lunch	
12:15-13:15	Serologic Case Studies** <ul style="list-style-type: none"> Describe the workup of antibodies to Knops system antigens, including pattern of reactivity, strategies to rule out antibodies to common red cell antigens, and options for transfusion. Discuss the pattern of reactivity of anti-Fy3, which patients are at risk for becoming alloimmunized, strategies to rule out antibodies to common red cell antigens, and recommendations for transfusion. Discuss how the following laboratory methods are used in complex serologic workups: ficin-treatment of red cells, DTT-treatment of red cells, testing rare cells, etc. 	Lynsi Rahorst MHPE, MT(ASCP)SBB ^{CM}
13:15-14:15	Writing Good Policies and Procedures** <ul style="list-style-type: none"> Define and differentiate between policy, process and procedure. List the characteristics of a good policy and procedure. Discuss the benefits and importance of having a well written policy and procedure. 	Gina Folk MLS(ASCP) ^{CM} SBB ^{CM}
14:15-14:30	Break	
14:30-15:30	Emerging Trends** <ul style="list-style-type: none"> Describe the latest monoclonal antibody therapy to cause interference with blood compatibility testing and discuss methods for resolution. Describe the use of CRISPR-mediated gene editing and Induced Pluripotent Stem Cells to create customized red cell reagents. Describe Pathogen Inactivation technologies and discuss the impact on blood safety. 	Megan Dupont MLS(ASCP) ^{CM} SBB ^{CM}
Optional Quick Tour of CBC		
**New this year!!		

Experience in Blood Banking: Advanced Course

Wednesday, April 3, 2019

8:00-8:30	Sign-in	
8:30-9:30	Platelet Antibodies, Case by Case <ul style="list-style-type: none"> Discuss the platelet antibody tests and services provided by Community Blood Center to aid in the diagnosis and treatment of immune platelet refractoriness. Describe and interpret further testing that may aid in diagnosis of FNAIT, including HPA genotyping and HLA testing. Discuss how laboratory testing supports clinical observations in diagnosing a case of PTP. 	Lynsi Rahorst MHPE, MT(ASCP)SBB ^{CM}
9:30-10:15	Shifting into Reverse: Platelet Transfusion in Patients on Anti-Platelet Therapy** <ul style="list-style-type: none"> Discuss the mechanisms by which commonly used anti-platelet agents function. Discuss how long anti-platelet agents are effective. Describe the effectiveness and limitations of platelet transfusion in reversing the anti-platelet effect of these agents. 	Dr. Jed Gorlin, MD
10:15-10:30	Break	
10:30-11:00	Variant RHCE Alleles and Licensed Serologic Testing** <ul style="list-style-type: none"> Describe what a variant allele is and list serologic problems that can be caused by variant alleles. List three consequences of labeling a unit with a RHCE variant as antigen negative. Explain why different reagents and testing platforms can give discordant results. 	Julie Kirkegaard MT(ASCP)SBB
11:00-11:45	Transgender and MSM Donors: An Update <ul style="list-style-type: none"> Discuss overall strategies taken to ensure the safety of blood products. Review donor testing algorithms that differ for male and female donors, and describe the challenges associated with transgender donors. Explain the current deferral criteria for MSM, and discuss the rationale for the most recent changes to guidelines. 	Shay Jones MLS(ASCP) ^{CM} BB ^{CM}
11:45-12:45	Lunch – Ask the CBC Panel Take advantage of the opportunity to ask Community Blood Center's experts all your pending questions!	
12:45-13:30	Management of Blood: What We Can Learn from Jehovah's Witnesses** <ul style="list-style-type: none"> List risks associated with transfusion. Describe the role of Jehovah's Witnesses in advancing our understanding of patient blood management. Discuss transfusion guidelines. 	Dr. Jed Gorlin, MD
13:30-14:30	Serology and Molecular Testing to Resolve Complex Rh Cases** <ul style="list-style-type: none"> Discuss factors that contribute to the complexity of the Rh system. Describe how a combination of serologic and genomic testing can identify altered Rh antigen expression. Define "genotype matching," and describe its utilization for patients with complex serologic problems and variant Rh alleles. 	Sunitha Vege, MS
14:30-14:45	Break	
14:45-15:45	Apply What You've Learned <ul style="list-style-type: none"> Determine appropriate test methods used to resolve complex antibody workups. Interpret various test results to identify antibodies. Select appropriate units for transfusion. 	Carole Tomlinson MT(ASCP)SBB
**New this year!!		