Experience in Blood Banking

Education Resources | New York Blood Center Enterprises

Experience in Blood Banking 101 | Wednesdays July 31-August 28, 2024

July 31, 2024, 1-2:30 ET (12-1:30 CT)

1.5 Contact Hours

Introduction to Immunohematology

Hannah Wright, BA, Assistant and Interim Genomics Tech I, Immunohematology Reference Laboratory (IRL), NYBCe at Community Blood Center (CBC)
Taylor Maurer, MS, MLS(ASCP)^{CM}SBB^{CM}, Technologist II, IRL, NYBCe at CBC

Objectives

1. Compare and contrast common reagents and testing methodologies.
2. Describe common tests performed in the blood bank.
3. Explain the process of antibody identification.

Level of Instruction

Basic

Common Blood Group Systems

Kari Legates-Slody, MLS(ASCP)^{CM}, Technologist II, IRL, NYBCe at Blood Bank of Delmarva

Objectives

1. Discuss ISBT definition of blood group system and proper nomenclature for common blood group system antigens..
2. Describe characteristics of common blood group antigens and their corresponding antibodies.
3. Evaluate clinical significance of antibodies to common blood group antigens and apply to transfusion recommendation.

Level of Instruction

Basic

August 7, 2024, 1-2:30 ET (12-1:30 CT)

1.5 Contact Hours

Positive DATs and Eluates

Brad Pfaltzgraff, MS, MLS(ASCP)^{CM}, MB(ASCP)^{CM}, Supervisor, Genomics Laboratory, NYBCE at CBC

Objectives

1. Describe how to detect and identify antibodies bound to red cells.
2. List reasons a patient might have a positive direct antiglobulin test (DAT).
3. Discuss how the results of eluate testing can help to determine the cause of a positive DAT.

Level of Instruction

Basic

Case Studies

Louis Kohler, MLS(ASCP)^{CM}SBB^{CM}, Technologist II, IRL, NYBCe at CBC

Objectives

1. Recognize ABO discrepancies and list test methods used in resolution.
2. Discuss strategies involved in antibody identification.
3. Select appropriate units for transfusion.

Level of Instruction

Basic

August 14, 2024, 1-2:30 ET (12-1:30 CT)

1.5 Contact Hours

Hemolytic Disease of the Fetus/Newborn

Jami Chai, MLS(ASCP)^{CM}SBB^{CM}, Lead Technologist, IRL, NYBCe at New York Blood Center

Objectives

1. Define Hemolytic Disease of the Fetus/Newborn (HDFN).
2. Discuss the blood bank's role in investigation, management and treatment of HDFN.
3. Select appropriate units for transfusion of mom, fetus and neonate.

Level of Instruction

Basic

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Serologic Workups of Samples Containing Autoantibodies

Kelly Winkhart, SBB(ASCP)^{CM}, Lead Technologist, IRL, NYBCe at CBC

Objectives

1. Discuss reactivity patterns and serologic methods utilized in cases of autoantibodies.
2. Compare and contrast autoadsorption and alloadsorption.
3. Discuss options for selecting blood for transfusion in patients with autoantibodies.

Level of Instruction

Basic

August 21, 2024, 1-2:30 ET (12-1:30 CT)

1.5 Contact Hours

HLA in the Blood Bank

Taylor Maurer, MS, MLS(ASCP)^{CM}SBB^{CM}, Technologist II, IRL, NYBCe at CBC

Objectives

1. Define HLA and discuss how HLA antibodies may interfere with red cell antibody identification.
2. Discuss how HLA antibodies affect platelet refractoriness.
3. Describe transfusion reactions that are associated with the HLA system.

Level of Instruction

Basic

Platelet Antibodies

Lynsi Rahorst, MHPE, MLS(ASCP)SBB^{CM}, Manager, Education & Training, IRL/Genomics, NYBCe

Objectives

1. Discuss antigens that are expressed on platelets and the implications of corresponding antibodies.
2. Describe tests performed to detect and identify platelet antibodies.
3. Discuss applications of platelet antibody testing.

Level of Instruction

Basic

August 28, 2024, 1-2:30 ET (12-1:30 CT)

1.5 Contact Hours

Basic Genomics for the Blood Banker

Lynsi Rahorst, MHPE, MLS(ASCP)SBB^{CM}, Manager, Education & Training, IRL/Genomics, NYBCe

Objectives

1. Discuss how the analysis of blood group genes can predict the expression of red blood cell antigens.
2. Describe methods used in blood group genotyping.
3. List benefits and limitations of blood group genotyping.

Level of Instruction

Basic

Transfusion Service, IRL, and Genomics Cases

Megan Dupont, MLS(ASCP)^{CM}SBB^{CM}, Lead Technologist, IRL, NYBCe at CBC
Brad Pfaltzgraff, MS, MLS(ASCP)^{CM}, MB(ASCP)^{CM}, Supervisor, Genomics Laboratory, NYBCe at CBC

Objectives

1. Describe how genotype results may be used to predict red cell phenotype in the event of a strongly positive DAT.
2. Discuss strategies involved in the identification of an antibody to a high-prevalence antigen.
3. Describe scenarios when serology and genotype results may be used in combination to select the most appropriate units for transfusion for patients with *RH* variant alleles.

Level of Instruction

Basic

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