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)$^{CM}$,** Lead Technologist, 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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