



The American Red Cross offers regular educational opportunities as a convenient way for healthcare providers to receive relevant blood banking and transfusion medicine information. The bi-monthly sessions, presented via WebEx webinars, are recorded and posted on our [SUCCESS[®]](#) website. To access this content, click on the Webinar Series link on the SUCCESS home page.

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CURRENT COURSE OFFERINGS

ADMINISTRATION OF BLOOD COMPONENTS

Blood Administration in the Hospital Setting: Adults *(presented 10/18/2018)*

- Identify the constituents of blood and the indication for use, including specialized component preparations.
- Review nursing and laboratory responsibilities to provide safe administration for blood components, including equipment used, patient preparation, and proper documentation.
- Discuss signs and symptoms of a transfusion reaction and describe initial patient management procedures to follow when a reaction is suspected.

Blood Administration in the Hospital Setting: Informed Consent *(presented 7/19/2018)*

- Recognize the regulatory and accreditation agencies that provide oversight for informed consent.
- Identify the elements of an informed consent required by regulatory and accreditation agencies.
- Determine if it is necessary to develop audits for the informed consent process.

Transfusion Management in Sickle Cell Patients *(presented 4/19/2018)*

- Discuss the history, pathophysiology, and common laboratory findings in a patient with sickle cell disease.
- Identify clinical presentations of sickle cell disease.
- Review considerations for Transfusion management in sickle cell patients.

ADVERSE REACTIONS TO TRANSFUSION

Adverse Reaction Case Studies: Boxed in OR Out of the Box *(presented 5/3/2018)*

- Identify signs and symptoms associated with both common and rare adverse events that may be related to transfusion.
- Assess information presented in the case studies and choose additional processes to aid in recognition of the adverse event.
- Integrate the information received from the evaluation to recognize the type of adverse event.

Adverse Reactions to Transfusion: Case Studies *(presented 11/2/2017)*

- Identify signs and symptoms associated with both common and rare adverse events that may be related to transfusion.
- Assess information presented in the case studies and choose additional processes to aid in recognition of the adverse event.
- Integrate the information received from the evaluation to recognize the type of adverse event.

Adverse Reactions to Transfusion: Descriptions and Risks *(presented 3/15/2018)*

- List the 5 types of adverse reactions to transfusion with the highest number of reported transfusion related fatalities.
- Recognize the difference between acute and delayed adverse reactions upon onset of symptoms.
- Identify signs and symptoms associated with both common and rare adverse events that may be related to transfusion.

Adverse Reactions to Transfusion: Laboratory Investigation Part 1 *(presented 5/4/2017)*

- Utilize the CDC biovigilance/hemovigilance module's standard terminology and definitions to manage adverse reactions to transfusion.
- Identify ways to manage a patient suspected of having an adverse reaction to transfusion and immediate steps the laboratory should perform when an adverse reaction to transfusion is suspected.
- List reporting requirements in the event of an adverse transfusion reaction.

ADVERSE REACTIONS TO TRANSFUSION (CONT'D)

Adverse Reactions to Transfusion: Laboratory Investigation Part 2 *(presented 5/18/2017)*

- Utilize the CDC biovigilance/hemovigilance module's standard terminology and definitions to manage adverse reactions to transfusion.
- Identify ways the laboratory can perform an extended investigation and the pathologist's involvement in this investigation.
- List reporting requirements in the event of an adverse transfusion reaction.

Adverse Reactions to Transfusion: Recognition and Management *(presented 10/19/2017)*

- Explain steps to prevent or limit the severity of adverse reactions to transfusion.
- Recognize the importance of patient safety goals for identification of patients, patient samples and blood products.
- Identify signs and symptoms associated with common and rare adverse events and summarize steps to take in the event of a suspected adverse reaction.

Adverse Reactions to Transfusion: TACO/TRALI *(presented 2/16/2017)*

- Review the historical perspective and background of TRALI and TACO including definition of both.
- Identify mechanisms of action, management, outcomes and prevention of both TRALI and TACO.

TACO and TRALI Revisited *(presented 11/15/2018)*

- Distinguish the features of TACO and TRALI.
- Describe the recent regulatory requirements, pertaining to TRALI, surrounding the collection of blood products.

Transfusion Reactions: A Horse and Two Zebras *(presented 5/17/2018)*

- Identify signs and symptoms associated with an adverse transfusion event.
- Assess information presented in the case studies and choose additional processes to aid in management of the adverse event.
- Identify steps all personnel take when involved in an adverse reaction investigation (focusing on laboratory, nursing, and physician).

ALL CASE STUDIES

2017 Case Studies from the Connecticut IRL *(presented 12/7/2017)*

- Examine an in-depth view of patient workups performed at a Reference Laboratory.
- Discuss various techniques used for antibody identification.
- Develop enhanced knowledge of complex immunohematologic problems.

Adventures in Perinatal and Pediatric Transfusion *(presented 1/5/2017)*

- Identify communication challenges in your own practice; improve verbal and written communication with clinicians.
- Select RBCs for intrauterine transfusion and prioritize certain characteristics.
- Interpret elutions and effectively communicate the interpretation to clinicians and state the indications for thermal amplitude testing.

Adverse Reaction Case Studies: Boxed in OR Out of the Box *(presented 5/3/2018)*

- Identify signs and symptoms associated with both common and rare adverse events that may be related to transfusion.
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- Integrate the information received from the evaluation to recognize the type of adverse event.

Adverse Reactions to Transfusion: Case Studies *(presented 11/2/2017)*

- Identify signs and symptoms associated with both common and rare adverse events that may be related to transfusion.
- Assess information presented in the case studies and choose additional processes to aid in recognition of the adverse event.
- Integrate the information received from the evaluation to recognize the type of adverse event.

Basic Blood Bank Serology Case Studies *(presented 7/5/2018)*

- Apply blood bank knowledge by utilizing case studies to illustrate problem-solving approaches.
- Apply problem-solving strategies learned during case study review.

Being Sherlock Holmes in the Blood Bank. A Serological Case Investigation *(presented 6/1/2017)*

- Give examples of different testing techniques used to resolve complex antibody identifications.
- Describe the purpose of a monocyte monolayer assay.
- Define high incidence antigen and give an example.

ALL CASE STUDIES (CONT'D)

Case Studies (presented 10/5/2017)

- Apply blood bank knowledge and utilize testing results to resolve patient work-ups.
- Recognize that hasty conclusions made during preliminary testing are not always consistent with final results.

Multiple Antibodies: A case study from the South Carolina IRL (presented 9/6/2018)

- Identify different testing techniques to resolve complex antibody identifications.
- Recognize the significance of molecular testing in resolving complex cases in the IRL.

Multiples, High Frequency, and a Cold: Oh My! (presented 3/2/2017)

- Verbalize the importance of a patient history and be able to correlate history with diagnosis.
- Differentiate the high frequency antigens in the Duffy Blood Group System.
- List three different techniques used when working with a cold reactive antibody.
- Discuss the role of molecular genotype testing in complex serological work.

What the heck is it? Case studies demonstrating passive antibodies and therapeutic agents. (presented 10/4/2018)

- Explain the common drugs used in the treatment of coagulation issues.
- Define the term 'passive antibodies'.
- List examples of passive antibodies and describe how they can be identified.

What's Your Type (ABO Discrepancy Case Studies) (presented 11/1/2018)

- Recognize ABO subgroups and the possible causes of an ABO discrepancy
- Understand transfusion recommendations for an ABO typing discrepancy

ANTIBODY DETECTION AND IDENTIFICATION

Warm Autoantibodies (presented 3/16/2017)

- Define warm autoantibody and the serologic characteristics observed in the presence of a warm autoantibody.
- Discuss serologic techniques used and testing performed in warm autoantibody investigation.
- Review case studies to apply techniques utilized.

BLOOD COMPONENTS AND TRANSFUSION THERAPY

Hemoglobin-Based Oxygen Carriers: An Update (presented 09/21/2017)

- Introduction to oxygen carriers (OCs):
 - History
 - Rationale for use and development
- Types, with a focus on hemoglobin-based oxygen carriers (HBOCs).
- Describe situations where HBOCs would work best.
- Unlicensed HBOCs currently available:
 - Clinical trials and cases
 - How to obtain expanded access

Review of Cold-Stored Platelet Physiology (presented 9/6/2018)

- Review platelet physiology and pathophysiology.
- Review cold-stored platelet in-vitro, in-vivo, and clinical data.
- Describe cold-stored platelets in Platelet Additive Solution (PAS).

Uncommon Requests for Specialized Non-Red Cell Products (presented 09/07/2017)

- Define what levels constitute the need for specialized non-red cell products.
- Define the consequences of IgA deficiency and Fetal/Neonatal Alloimmune Thrombocytopenia.
- Understand blood products used for either condition.

BLOOD GROUPS

The Kell Blood Group System (presented 3/1/2018)

- Differentiate the genetics and biochemistry of normal Kell, K0 and the McLeod phenotype.
- Describe the immunogenicity of the Kell system antibodies and the role they play in HDFN.
- Identify other antigens/phenotype that can suppress the expression of the Kell system antigens.

BLOOD UTILIZATION OR PBM

A Clinical Tool for Transfusion Therapy: The American Red Cross Compendium of Transfusion Practice Guidelines, 3rd Edition (presented 1/26/2017)

- Review contents of the 3rd edition of the ARC Compendium to develop familiarity with information relevant to transfusion practice.
- Identify and discuss new educational content of the Compendium.
- Discuss selected transfusion topics, based on recent publications and/or guidelines.

Inventory Management (presented 6/15/2017)

- Define inventory management.
- Recognize how to set and assess facility-specific inventory levels and how to calculate optimum inventory, including determination of minimum and maximum inventory levels.
- Understand shift in product demand; review (or write) a blood substitution policy for use in shortages, patient blood management, and quality review of inventory.

Massive Transfusion and the Role of Plasma Components: Thawed vs. Liquid Plasma (presented 8/16/2018)

- Discuss the definition and purpose of a massive transfusion protocol (MTP).
- Discuss damage control resuscitation and the role of plasma components.
- Describe plasma components and current evidence-based guidelines on plasma use.

COAGULATION FACTORS

Coagulation Disorders (presented 3/2/2017)

- Describe the clinical presentation and laboratory findings of primary and secondary coagulation disorders.
- Differentiate the pathophysiology and diagnostic approaches to coagulation disorders.
- Summarize updated guidelines on HIT.

Practical Coagulation for the Blood Banker (presented 10/4/2018)

- Outline the parts of general coagulation and describe a blood banker's role as a coagulation consultant.
- Summarize the common coagulation tests and explain thrombin's role in clot formation.
- Explain the common drugs used in the treatment of coagulation issues.

INFECTIOUS DISEASES

Bacteria, Babesia & (Other) Bugs: Recent regulatory Changes and an update on Select Infectious Agents (presented 9/20/2018)

- Discuss the spread of certain insect-borne, transfusion-transmitted infectious agents across the USA in 2018.
- Describe the regulatory guidances released in the past year for Babesia and Zika Virus, and what's being considered to lessen the risks of transfusion-transmitted sepsis from platelets.

Zika Virus (presented 2/16/2017)

- Describe the epidemiology, clinical presentations, diagnosis, and complications of Zika virus infection.
- Explain the risk Zika virus poses to the blood supply and the mitigation strategies being recommended by regulatory agencies.
- Discuss the result of investigational blood donor testing for Zika virus.

MOLECULAR BIOLOGY

Update on the Use of RHD Genotyping in Serologic Weak D (presented 10/05/2017)

- Describe how serologic weak D reactivity can be explained by genetic variation in the RHD gene.
- Recognize when RHD genotyping can be useful to resolve D typing discrepancies and to inform about risk of alloimmunization by transfusion or pregnancy.
- Review the approach used by a major medical center blood bank to identify samples for RHD genotyping and the result of such testing.

OBSTETRICS, PRENATAL, AND NEONATAL TRANSFUSION

The Blood Bank and Unexpected Obstetric Hemorrhages (presented 12/7/2017)

- Discuss the unique pathophysiology of obstetric hemorrhages via case study and literature.
- Discuss the role of fibrinogen and tranexamic acid in resuscitation.

Transfusion of Neonatal Patients (presented 2/15/2018)

- Review transfusion indications for the neonate.
- Describe appropriate product selection and modification for neonatal transfusions.
- Discuss the management of hemolytic disease of the fetus/newborn and neonatal alloimmune thrombocytopenia.

REGULATORY AND ACCREDITATION

It's an Assessment NOT an Inquisition *(presented 4/5/2018)*

- Recognize the significant changes to the 31st edition of the BBTS Standards.
- Understand ways to stay prepared for unannounced assessments.
- Understand common non-conformances and how they may be prevented.

Market Withdrawals and Lookback/Traceback *(presented 8/17/2017)*

- Review the types of blood component consignee notification letters; product under investigation, market withdrawals and recalls.
- Explain the purpose of the requests and the actions that should be taken by the consignee.
- Review the specific requirements for recipient tracing and notification for lookbacks/tracebacks.
- Discuss How to Manage Recalls, Withdrawals, and Lookbacks/Tracebacks in the Transfusion Service.

NEW!

Tissues: Regulation, Management and Monitoring *(presented 12/6/2018)*

- Define conditions when a CA state license or an FDA registration/license is required.
- Discuss the AATB, TJC standards and how are they applied to hospital laboratory or physician office settings.
- Identify several FDA human cells, tissue, and cellular and tissue-based product (HCT/P) categories of regulated tissue.

Transfusion Medicine Checklists and Challenges *(presented 4/6/2017)*

- Understand the most common 2016 checklist deficiencies cited for the laboratory General, All Common, and Transfusion Medicine checklists.
- Recognize current checklist challenge and ways to meet the various existing requirements.
- Familiarize self with the new 2016 checklist updates.

THERAPEUTIC APHERESIS

Hemolytic Anemias – Understanding the pathophysiology and differential diagnosis of these complex anemias *(presented 4/20/2017)*

- Describe the pathophysiology of intravascular vs. extravascular hemolysis.
- Identify key difference between Complement Mediated Hemolytic Uremic Syndrome (aHUS) and Thrombotic Thrombocytopenia Purpura (TTP).
- Recognize the updated 2016 ASFA guideline changes to the classification and recommendations for plasma exchange in thrombotic microangiopathies.

TRANSFUSION SERVICE TESTS & PROCEDURES

Basic Blood Bank Serology *(presented 6/21/2018)*

- Review requirements for pretransfusion testing.
- Recognize protocols used in red cell antibody identification, including reagents and testing platforms.
- Understand the basic theory of ABO, Rh, DAT, antibody screen and crossmatch testing.

HLA, Playing with Matches *(presented 12/21/2017)*

- Have a better understanding of less desirable matches.
- Understand when to order cross-matches platelets.
- Better understand the complexities of a highly allo-immunized patient.

Monoclonal Therapies and the Serological Impact on Blood Bank Testing *(presented 6/7/2018)*

- Understand what monoclonal therapies are.
- Recognize the effect of monoclonal therapy medications on serological testing.
- Utilize a case study to review serological investigation of a patient receiving monoclonal therapy medication.

Rh Immune Globulin (RhIG). One size does NOT fit all. *(presented 2/1/2018)*

- Review Rh prophylaxis and prevention of RhD immunization.
- Describe preparation and administration of Rh prophylaxis.
- Describe challenges of typing for RhD by serologic methods.
- Understand what is expected from each accrediting organization regarding recommendations, interpretations, and requirements.

NEW!

The Sickle Cell Crisis: Motivators and Barriers of African-American Donors *(presented 12/6/2018)*

- Define what is Sickle Cell Disease.
- Describe why the need for African-Americans to donate blood is important for treatment of patients with Sickle Cell Disease (SCD).
- Recognize barriers and motivations for blood donations by the African-American population.

Warm Autoantibodies (*presented 3/16/2017*)

- Define warm autoantibody and the serologic characteristics observed in the presence of a warm autoantibody.
- Discuss serologic techniques used and testing performed in warm autoantibody investigation.
- Review case studies to apply techniques utilized.

If you have any questions or comments on these postings, please contact our hospital education coordinator via email at hospitaleducationcoordinator@redcross.org.