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 2/4/2016)*
- Recognize the importance of meeting patient safety goals in regard to identification of patients, patient samples, and blood components.
- Describe both nursing and laboratory responsibilities in the safe administration of blood components.
- Identify the appropriate equipment to use for both routine and emergent transfusion scenarios.

**Blood Administration: Informed Consent** *(presented 1/7/2016)*
- 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.

**Massive Transfusion: A Protocol for Bleeding and Non-Bleeding Patients** *(presented 5/5/2016)*
- Discuss basics of massive transfusions.
- Discuss “empiric” versus “tailored” approach to massive transfusions.
- Discuss massive transfusion protocols that cover bleeding and non-bleeding patients.

**Preoperative Anemia** *(presented 1/28/2016)*
- Describe the incidence of preoperative anemia.
- Identify populations at risk for preoperative anemia.
- Become familiar with pathophysiology of anemia of chronic disease, the evaluation of a patient for anemia preoperatively, and treatment options for preoperative anemia.

**Transfusion Management in Sickle Cell Patients** *(presented 8/4/2016)*
- 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.

**Transfusion Support of the Sickle Cell Disease Patient** *(presented 8/18/2016)*
- Evaluate data supporting the value of providing phenotypically matched red cells, including the antigen frequencies of commonly requested antigen negative red cell components.
- Indicate strategies for providing antigen negative blood for sickle cell patients.

**Visual Inspection of Blood Products** *(presented 7/21/2016)*
- Identify steps in performing visual inspection of all blood products.
- Recognize causes of bacterial contamination in blood products, including a review of the AABB bulletin concerning investigation of possible bacterial contamination of platelets.
- Identify common characteristics of a septic transfusion reaction.
ADVERSE REACTIONS TO TRANSFUSION

Adverse Reactions to Transfusion: Descriptions and Risks (presented 7/7/2016)
- 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: Investigation (Part 1) (presented 4/2/2015)
- 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: Investigation (Part 2) (presented 5/7/2015)
- 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 pathologists involvement in this investigation.
- List reporting requirements in the event of an adverse transfusion reaction.

ALL CASE STUDIES

Case Studies (presented 6/16/2016)
- 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.

ANTIBODY DETECTION AND IDENTIFICATION

Antibody Detection and Identification (presented 5/21/2015)
- Identify pre-analytical considerations for antibody identification.
- Describe possible testing options to determine antibody specificity (given the results of an antibody panel).
- List limitations of performing a red blood cell phenotype and suggest solutions to overcome those limitations.

Clinical Management of the Serological Interference by DARA (presented 3/3/2016)
- Explain the clinical benefits of DARA in treating multiple myeloma patients.
- Explain how DARA interferes with pretransfusion testing.
- Identify and apply various mitigation techniques used to remove the interference of DARA in pretransfusion testing.

Importance of Drug History when Attempting a Serologic Workup (presented 3/3/2016)
- Recognize drugs that are most likely to influence serologic testing.
- Characterize the mechanism of Daratumumab (DARA) interference and know the appropriate testing alternatives that can be performed or ordered when patients are on the drug.
- Summarize a drug history that can aid in testing and interpretation of results.

BLOOD COMPONENTS

Blood Components and Transfusion Therapy (presented 5/19/2016)
- Discuss the testing procedures involved in donor processing, including anticoagulant solution and infectious disease testing performed.
- Identify blood components, their main function, and indications for transfusion for: red blood cells, platelets, plasma, cryoprecipitate, and granulocytes.
- Classify ‘specialized’ components that may be requested or required for transfusion.
INFECTIOUS DISEASES

Hemorrhagic Fevers and Other Emerging Infectious Threats (presented 3/5/2015)
- Define and characterize the hemorrhagic diseases and other infectious agents currently affecting transfusion medicine.
- Describe the currently accepted testing and transfusion strategies for afflicted patients.
- Identify the potential infectious threats on the horizon that have potential to impact transfusion medicine.

Zika Update (presented 3/3/2016)
- Zika virus – what is it?
- Characteristics
  - Description
  - Vectors
  - Transmission
  - Spread
  - Symptoms
  - Prevention
- Protection of the blood supply
- Future

MOLECULAR BIOLOGY

Transfusion Medicine in the Era of Personalized Genomic Medicine (presented 4/7/2016)
- Understand how genetic variation can determine quantitative and qualitative antigen expression.
- Understand how molecular methods can be used to predict antigen expression.
- Know when molecular immunohematology testing can improve transfusion medicine practice and more personalized patient care.

TRANSFUSION SERVICE TESTS & PROCEDURES

Prenatal Testing and Requirements (presented 12/17/2015)
- Discuss the importance of initial prenatal serological testing and follow-up testing, if indicated.
- Differentiate clinically significant and clinically insignificant antibodies in prenatal patients.
- Describe detection and monitoring techniques for clinically significant antibodies in prenatal patients.

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