

CLINICAL PATHOLOGY CONTENT SPECIFICATIONS BLOOD BANKING/TRANSFUSION MEDICINE

- I. Component Collection, including complications**
- II. Serologic and Infectious Disease Testing of Donor Units**
Tests routinely performed
- III. Preparation, Storage, and Release of Blood Components and Derivatives**
Storage lesions of components
- IV. Compatibility Testing of Red Cells and Components**
Accurate patient identification
Use of automated equipment for pre-transfusion testing
Serologic confirmation of donor blood ABO/Rh
Pre-transfusion testing of patient blood
Selection of compatible blood and components for transfusion
Crossmatch
Special considerations for neonates
Selection of compatible blood and components in special circumstances
Urgent requirements for blood and components
- V. Indications for Use and Administration of Components and Derivatives, (including RBCs, platelets, plasma, factor concentrates)**
Leukocyte-reduction benefits
Indications for irradiated components
Indications for blood warmers
Indications for filters
Compatible fluids
- VI. Special Transfusion Situations**
ADAMTS-13 and TTP
Criteria for administration of Rh immune globulin
Massive transfusion
Neonatal alloimmune thrombocytopenia purpura
- VII. Therapeutic Apheresis and Phlebotomy**
Established indications
American Society for Apheresis Guidelines

VIII. Diagnosis and Management of Non-Infectious Complications of Transfusion

TRALI—etiology, clinical signs and symptoms

TACO

Allergic transfusion reactions

Basic evaluation and differential diagnosis of fever, hypotension, dyspnea and/or other signs and symptoms during a blood component transfusion

When to stop a transfusion and when it is safe to continue

IX. Transfusion Transmitted Infectious Disease

Limiting and detecting bacterial contamination in platelets

Current risks in the United States of transmission of:

HIV, HBV, and HCV

Other infectious complications of transfusion (e.g. West Nile Virus, Chagas disease, HTLV, CMV, bacteria)

X. Management

Updates to AABB Standards

Updates to FDA Guidance and Regulations

Transfusion committee composition and responsibilities

References

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