

[TRANS] FINALS

ACTIVITY 12: ANTIBODY SCREENING AND IDENTIFICATION

ANTIBODY SCREENING

- Antibody screening detects for the presence of **unexpected, clinically significant antibodies**.
- clinically significant unexpected antibody**
 - antibodies that are reactive at 37°C or in the **antihuman globulin test**
 - Warm-reactive, such as IgG
 - Note: clinically significant IgM are ABO abs detected prior, by merely looking at the results in ABO typing.
 - known to have caused a **transfusion reaction** or unacceptably short survival of transfused RBCs.
- These antibodies are called **"unexpected"** because only **0.3% to 2.0%** of the general population have a **positiv antibody screen**. Often result of red cell stimulation (transfusion, pregnancy).
 - Most are immune type abs since they are produced after RC sensitization

ANTIBODY SCREENING INDICATIONS

- Patient's needing transfusion (Pretransfusion testing)**
 - To ensure optimal survival of transfused red cells in recipients.
 - Ab screening is part of pre-transfusion compatibility testing
- Pregnant women**
 - Especially those at high risk of developing HDFN
- Cases of transfusion reaction**
 - As part of transfusion reaction investigatory process
- Blood and plasma donors**

SCREENING CELLS

- Type O screening cells are used since they do not have A ag and B ag that can cause false-positive result in Ab screening.
- The screening cells are available in 3 forms:
 - Pooled cells**- a single vial of no more than 2 donors pooled together in one vial.
 - Duet cells**- 2 vials each with different donors
 - Trio cells**- 3 vials representing 3 different donors



PRINCIPLE

- Antibody screen is done using the patient's serum/plasma (unknown) and antibody screen cells (known) to detect unexpected antibodies that are capable of destroying transfused red cells *in vivo*.

ANTIBODY



ANTIGEN



PROCEDURE

- Specimen:** Px Serum or plasma
- Reagent:** O red cells with known antigen typing, determined and characterized by the manufacturer of the reagent. Reagents are known as **"screening cells"**
- Why Group O cells** → So that Anti-A and Anti-B will not interfere in the detection of antibodies to other blood group systems.
- Commercially available screening cells each come with an **anigram**, which has different antigens present on the screening cells that are predetermined to identify the type of antibody present in the recipient's serum.



OTHER METHODS

- Gel method
- Solid phase adherence method

GEL METHOD

- Add 50 uL of antibody screen cells to the microtube
- Add 25 uL of serum or plasma
- Incubate the card for 15 mins at 37°C
- Centrifuge and interpret.
- Note: AHG reagent can be preapplied

Blood Bank Lab Manual

American Association of Blood Banks

A red circular graphic with a gradient, appearing as a stylized drop or a partial circle, located to the right of the American Association of Blood Banks text.

Blood Bank Lab Manual:

Laboratory manual in blood banking Carmelita C. Cardona, 2011 **Immunohematology** Sheryl Whitlock, 1996-01 This thorough hands on resource provides detailed instructions for all of the basic procedures used in the blood bank including manual cell washing typing screening and cross matching 150 illus

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Textbook of Blood Banking and Transfusion Medicine Sally V. Rudmann, 2005-02-18 This comprehensive book on transfusion practices and immunohematology offers concise thorough guidelines on the best ways to screen donors store blood components ensure safety anticipate the potentially adverse affects of blood transfusion and more It begins with the basics of genetics and immunology and then progresses to the technical aspects of blood banking and transfusion Chapters are divided into sections on Basic Science Review Blood Group Serology Donation Preparation and Storage Pretransfusion Testing Transfusion Therapy Clinical Considerations and Safety Quality Assurance and Data Management Developed specifically for medical technologists blood bank specialists and residents the new edition conforms to the most current standards of the American Association of Blood Banks AABB Expert Opinion essays written by well known frequently published experts discuss interesting topics of research or new advances in the field Important terms are defined in the margins of the pages on which they appear enabling readers to easily check the meaning of an unfamiliar term where it appears in context Margin notes highlight important concepts and points remind readers of previously discussed topics offer an alternative perspective or refer readers to other sources for further information Material conforms to the most recent AABB standards for the most accurate up to date information on immunohematology Advanced concepts beyond what is required for entry level practice are set apart from the rest of the text so readers can easily differentiate between basic and advanced information A new chapter on Hematopoietic Stem Cells and Cellular Therapy chapter 19 provides cutting edge coverage of cellular therapy and its relevance to blood banking New

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