

[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.

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Laboratory manual in blood banking Carmelita C. Cardona, 2011 **Manual of Veterinary Transfusion Medicine and Blood Banking** Kenichiro Yagi, Marie Holowaychuk, 2016-08-03

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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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Table of Contents Blood Bank Lab Manual

1. Understanding the eBook Blood Bank Lab Manual
 - The Rise of Digital Reading Blood Bank Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Blood Bank Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Blood Bank Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Blood Bank Lab Manual
 - Personalized Recommendations
 - Blood Bank Lab Manual User Reviews and Ratings
 - Blood Bank Lab Manual and Bestseller Lists
5. Accessing Blood Bank Lab Manual Free and Paid eBooks
 - Blood Bank Lab Manual Public Domain eBooks
 - Blood Bank Lab Manual eBook Subscription Services

- Blood Bank Lab Manual Budget-Friendly Options
- 6. Navigating Blood Bank Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Blood Bank Lab Manual Compatibility with Devices
 - Blood Bank Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Blood Bank Lab Manual
 - Highlighting and Note-Taking Blood Bank Lab Manual
 - Interactive Elements Blood Bank Lab Manual
- 8. Staying Engaged with Blood Bank Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Blood Bank Lab Manual
- 9. Balancing eBooks and Physical Books Blood Bank Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Blood Bank Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Blood Bank Lab Manual
 - Setting Reading Goals Blood Bank Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Blood Bank Lab Manual
 - Fact-Checking eBook Content of Blood Bank Lab Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

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- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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