

[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 positive 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

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