LECTURE / CONCEPCION

### [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
  - artibodies that are reactive at 37°C or in the antihuman globulin test
    - Warm-reactive, such as IgO
    - 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 cetts- 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.

#### ANTIBOOY





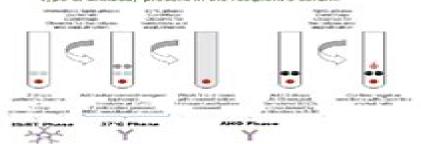


ANTIGEN

(Known)

#### PROCEDURE

- Speciment 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 antigram, which has different antigens present on the screening cells that are predetermined to identify the type of antibody present in the recibient'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: AHO reapent can be preapplied

# **Blood Bank Lab Manual**

**M Lipman** 



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