

# PLATELET OUTDATING

## Why do I care?



## Lots of stuff outdate?



## Platelets are an **Expensive Limited Resource!!**

### Cost

- What does the hospital pay the supplier for ONE bag of apheresis platelets?
- After storage, irradiation and manipulation, what does the hospital charge the patient?
- Total loss when a platelet product outdates?



### Donation

- How long does it take a volunteer donor to donate an apheresis platelet?

Platelets are NOT a pharmaceutical that can be manufactured. This is a limited resource that relies on people to take the time and donate.

### Shelf Life

- What is the shelf life of a platelet product?
- How long does it take to complete all the necessary testing?
- How long do we actually have to transfuse the platelets?

### How can you help?

- Transfuse before midnight. Why do we do this?
- Understand how and why manipulations (concentrate, wash, resuspend) effect the platelet outdate time
- Never "pre" spike a platelet product.



# TRANSFUSION REACTIONS

## Red Cells

- What is ideally in a bag of red cells?
  - Red Cells
  - Very small amount of plasma ~ 50cc
  - Anticoagulant
- What is ACTUALLY in a bag of red cells?
  - Red Cells, plasma, anticoagulant
  - WBC
  - Cytokines

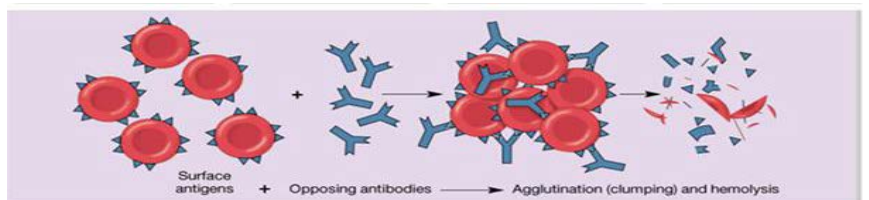
## Platelets

- What is ideally in a bag of platelets?
  - >200 cc of plasma
  - Platelets
  - Anticoagulant
- What is ACTUALLY in a bag of platelets?
  - Plasma, platelets
  - Anticoagulant
  - WBC
  - Cytokines

- What could also be in either a platelet or red cells?

## Febrile & Allergic Reactions

- Why do patients have febrile reactions?
  - Cytokines
  - Bacterial contamination
  - Patient antibody reacting to the donor's antigens on the white cells, platelets and red cells.
- Why do patients have allergic reactions to blood products?
  - Antibody to foreign plasma protein



**Any reaction to Red Cell  
STOP!**



**If a platelet has a mild allergic  
reaction to platelets with just  
a few hives/itching, you may  
be able to stop, medicate and  
proceed with caution.**

