

# Twenty-fourth Ask OBI Anything (AOA)

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# Objectives

- Welcome
- Transfusion Section Website
- Response to Questions – When should I give O- emergency release products?
- Education – ABO Discrepancy
- Blood Drives/System Inventory Status

# Website

- <https://ourbloodinstitute.org/hospital/>

# Ask OBI Anything – Response to Questions

## When should I give O-Negative emergency release products?

- Females of childbearing age with an unknown blood type
- If there is not an O- RBC available, the requesting physician can make the decision to give O+
  - OBI medical staff does not need to be consulted prior to this transfusion
  - Post transfusion RhIg may be necessary



**What about everyone else?**

# Ask OBI Anything – Response to Questions

**Everyone else should receive O-Positive emergency release RBCs.**

- Male patients of any age (except if they have a known history of anti-D antibody)
- Females greater than 50 years of age
- Females unable to bear children (i.e. s/p hysterectomy)
- As supply dictates under the direction of OBI medical staff

*\*Please refer to OBI-CL-SOP- 1436 for additional information on emergency release of uncrossmatched blood*



# Education- ABO Discrepancy

- ABO discrepancy: ABO group determination by forward and reverse typing do not match
- Potential Causes:
  - Forward typing: missing or unexpected antigens
  - Reverse typing: missing or unexpected antibodies
  - Mixed field
  - Technical errors

# Education- ABO Discrepancy Due to Forward Type

- Missing antigens
  - ABO subgroups
  - Transfusion or transplantation
  - Malignancy (hematologic and solid organ)
- Unexpected antigens
  - Out-of-group transfusion (should not happen)
  - Transplantation
  - Autoagglutinin or proteins coating RBCs
  - Acquired B:
    - Caused by intestinal bacteria in blood stream due to GI disease
    - Some reagents do not detect

# Education- ABO Discrepancy Due to Reverse Type

- Weak/ Missing antibodies
  - Extremes of age (neonates and elderly)
  - ABO subgroup
  - Immunodeficiency/ hypogammaglobulinemia
  - Transfusion or transplantation
- Unexpected antibodies
  - Cold reactive antibodies
  - ABO subgroup (anti-A1)
  - Transfusion or transplantation
  - Reagent-related antibodies
  - False positive from plasma expanders forming rouleaux

# Blood Drive/Blood Need

- Past Drives
  - Mangum Regional Hospital & Community – 16 donors with 1 first time donor!
- Upcoming Drives
  - Rural Wellness Anadarko – May 1<sup>st</sup>
  - Swisher County Community & Hospital – May 6<sup>th</sup>

**O NEGATIVE DONORS NEEDED!**



# Thank you

The End