

# Fourteenth Ask OBI Anything (AOA)

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# Objectives

- Welcome
- Updates to the Transfusion Section Website
- Response to Questions – Why can't I send a gel serum separator tube for blood bank testing?
- Education – Transfusion-Related Acute Lung Injury (TRALI)
- Blood Drives/System Inventory Status

# Website

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

# Ask OBI Anything – Response to Questions

## Why can't I send a gel serum separator tube for blood bank testing?

- Gel barrier can interfere with antibody detection
  - Gel can absorb, bind, or dilute certain antibodies
  - Can cause antibody to be below detectable levels and result in a false negative antibody screen
  - Not suitable specimen for automated testing
- Most of the time, this will not be cause for a rejection since we can perform the antibody screen on the accompanying EDTA tube, **but** if an antibody identification is necessary, we may not have enough sample to complete the necessary testing



# Education – Transfusion-Related Acute Lung Injury (TRALI)

- A form of Acute Respiratory Distress Syndrome (ARDS) that occurs within 6 hours of transfusion
  - Occurs with any blood product that contains plasma
  - Neutrophilic infiltrates and alveolar edema caused by:
    - Antibodies to WBCs (HLA or human neutrophil antigens)
    - Biological response modifiers
- Potential signs/symptoms:
  - Respiratory distress, low blood oxygen saturation, non-cardiogenic pulmonary edema
  - Low blood pressure
  - Fever & chills
  - Transient neutropenia or leukopenia

# Education – Transfusion-Related Acute Lung Injury (TRALI)

- Management:
  - Stop transfusion
  - Transfusion reaction workup
  - Respiratory support: oxygen supplementation, mechanical ventilation
  - Circulatory support: vasopressors
- OBI should be notified of suspected TRALI cases
- Prevention:
  - Exclusion of high-risk donors
    - Avoidance of female donors with history of pregnancy
    - Permanent deferral of donors linked to TRALI cases
  - Testing of donors for HLA or HNA antibodies

# Blood Drive/Blood Need

- Upcoming Drives
  - Tulsa Spine & Specialty Hospital – February 12th
  - Pushmataha Hospital – February 13th
  - Mangum Regional Hospital & Community – February 16th
  - Haskell Regional Hospital – February 17<sup>th</sup>

**GROUP O DONORS NEEDED!**

# Thank you

The End