Thirty-ninth
Ask OBI Anything (AOA)

József Bordás, MD & Emily Flippo, MLS(ASCP)SBB^{CM}

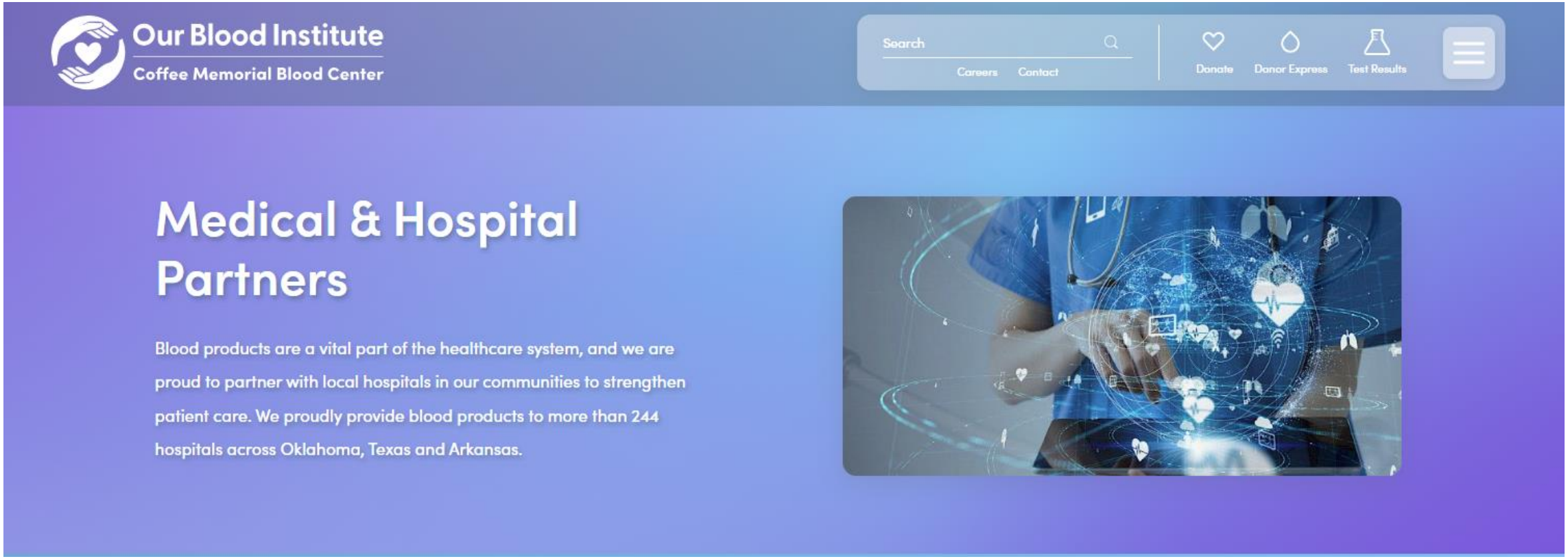
September 30th, 2026

Our Blood Institute

Objectives

- Welcome
- Transfusion Section Website
- Response to Questions – When are irradiated products indicated?
- Education – Transfusion-Related Acute Lung Injury (TRALI)
- Blood Drives/ System Inventory Status

Website



https://ourbloodinstitute.org/hospital/

Our Blood Institute

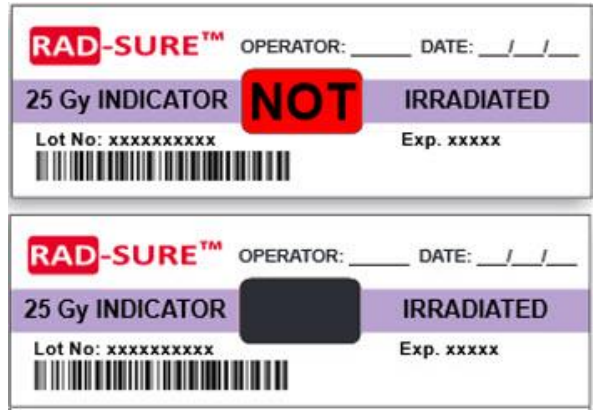
Ask OBI Anything – Response to Questions

Which patients should receive irradiated blood products?

Patients that are at risk for transfusion associated graft versus host disease (TA-GVHD)

This includes:

- Intrauterine transfusions
- Newborns (<4 months of age)
- Infants or children with congenital heart disease
- Hematology malignancies (leukemia) or solid tumors
- Congenital immunodeficiencies (SCID, DiGeorge syndrome, Wiskott-Aldrich syndrome, etc.)
- Patients with immunosuppression due to chemotherapy or radiation.
- Stem cell or bone marrow transplant recipients
- All granulocytes, crossmatched platelets, HLA matched components, or directed donations from blood relatives



See OBI-CL-Pol-1229 Irradiation Criteria for Transfusion Service Clients for more information.

Our Blood Institute

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:
  - Systemic: fever, chills, transient neutropenia or leukopenia
  - Pulmonary: respiratory distress, low blood oxygen saturation, non-cardiogenic pulmonary edema
  - Cardiovascular: low blood pressure

AABB. (2023). AABB Technical Manual, 21st Edition.

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

AABB. (2023). AABB Technical Manual, 21st Edition.

Our Blood Institute

Blood Drive/Blood Need

- **Past Drives**
  - Rural Wellness Anadarko – 17 donations!
  - Harper County Community Hospital – 5 donations & 1 first time donor!

- **Upcoming Drives**
  - Rural Wellness Fairfax – Today!
  - Oklahoma Center of Orthopaedic & Multi-Specialty Surgery – Oct 5th
  - Electra Memorial Hospital & Community – Oct 6th
  - Tulsa Spine & Specialty Hospital – Oct 7th
  - Pushmataha Hospital – Oct 9th

Our Blood Institute

Thank you

The End

Our Blood Institute