

# Nineteenth Ask OBI Anything (AOA)

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# Objectives

- Welcome
- Transfusion Section Website
- Response to Questions – When are hemoglobin S negative products indicated?
- Education – Post-Transfusion Purpura
- Blood Drives/System Inventory Status

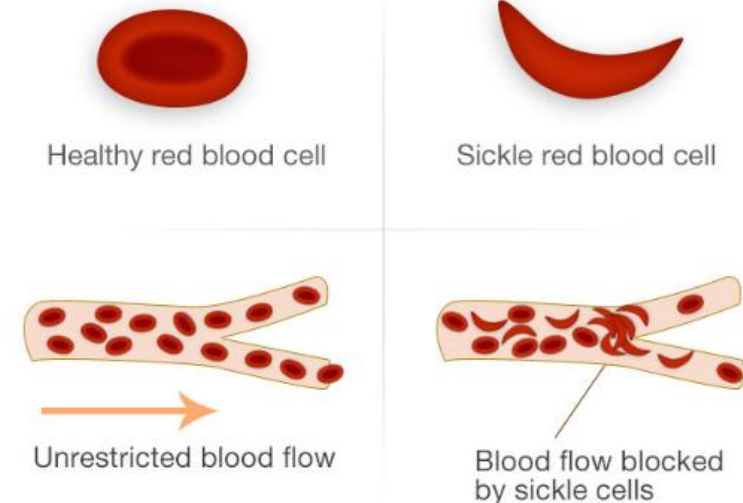
# Website

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

# Ask OBI Anything – Response to Questions

## When are hemoglobin S negative products indicated?

- Hemoglobin S is a variant hemoglobin that can cause red cells to become deformed or “sickled” and block circulation when exposed to reduced oxygen concentration in the blood stream
- These patient populations should not receive red blood cells containing hemoglobin S:
  - Patients with sickle cell disease
  - Intrauterine transfusions
  - Exchange transfusions



<https://thalassaemia.org.cy/haemoglobin-disorders/sickle-cell-disease/>

See OBI-CL-SOP-1032 Policies for Providing Transfusion Support in Special Circumstances for more information.

# Education – Post-Transfusion Purpura

- Severely low platelet count caused by anamnestic platelet alloantibody production
  - Rare
  - Anti-HPA-1a antibodies identified in majority of cases
  - Destruction of both transfused and recipient's antigen-negative platelets
- Risk factors:
  - Most commonly associated with RBC or whole blood transfusion
  - Most common in women who have been pregnant multiple times

# Education – Post-Transfusion Purpura

- Potential signs/symptoms:
  - Usually develop 1-2 weeks after transfusion
  - Low platelet counts
  - Wet purpura: bleeding of mucous membranes, gastrointestinal tract, urinary tract
  - Intracranial hemorrhage with potential death
- Management:
  - Immune modulation: steroids, IVIG
  - Plasma exchange or whole blood exchange
  - Transfusion of antigen-negative platelets
- Prevention:
  - Pre-storage leukocyte reduction
  - Transfuse components from antigen-matched donors if prior history

# Blood Drive/Blood Need

- Past Drives
  - Rural Wellness Fairfax – 11 donors, and 1 was a first-time donor!
  - OCOM – 8 donors, and 1 was a first-time donor!
  - Prague Regional Memorial Hospital – 9 donors, and 2 were first-time donors!
  - Bethany Children's Health Center – 17 donors, and 1 was a first-time donor!
- Upcoming Drives
  - Seiling Community – March 31<sup>st</sup>

**0 NEGATIVE DONORS NEEDED!**



# Thank you

The End