In collaboration with:
Kenya National Blood Transfusion Service; Moi University; Uganda Blood Transfusion Service; Integrated Community Based Initiatives; PRONTO International

Advisory Council: Regional Society for Blood Transfusion Kenya; University of Nairobi; Kenya Medical Research Institute

Project Leaders:
Linda Barnes
LindaB@BloodworksNW.org

Dr. Meghan Delaney
MeghanD@BloodworksNW.org

Sierra Petrosky
SPetrosky@BloodworksNW.org

Bloodpak.org
1. **Innovative, all-in-one delivery model for blood transfusion to manage life threatening bleeding and anemia**

   Low resource regions often have no access to blood transfusions.

   Transfusions needed for:
   - Obstetrical hemorrhage (world’s leading cause of maternal mortality worldwide)
   - Pediatric malarial anemia
   - Traffic accidents, other trauma, displaced populations

2. **Immediate impact**

   Saves lives now lost due to hemorrhaging
   - Innovative management of life threatening bleeding in low resource settings in Kenya and Uganda — in partnership with national blood services, local partners, community stakeholders
   - Pilot will provide meaningful information to “scale up” with potential global impact for people living in low resource settings

3. **All-in-one delivery model for blood transfusion**

4. **Just-in-time solution for transfusion**

   “Walking blood bank”
   Unique, model-changing approach to transfusion proven in remote military settings

   Self-contained backpack includes:
   - Point-of-care testing for blood type and infectious disease
   - Smartphone app for clinical guide
   - Alert system notifies blood bank
   - Comprehensive supplies to collect, administer blood
   - Aligns with national and other medical guidelines
   - Safe, rapid onsite blood collection = faster therapy
   - Integrates with rural clinical practices, empowers local caregivers
   - Eliminates cold chain requirements

   **At scale: global impact on healthcare in low resource regions**

5. **Sustainable results**

   Brings safe transfusion to remote rural clinics without blood stores; meets emergency transfusion needs locally

   - Reduces social, familial, economic impacts of maternal death
   - Educates, builds skills for transfusion in rural clinics
   - Scalable: can be applied to other low resource settings, multiple situations where people at risk of hemorrhagic death (malarial anemia, trauma, populations displaced by unrest or natural tragedies)
   - Fosters innovation in supply chain management

6. **Bloodpak.org**

   An innovation by Bloodworks Northwest