Revolutionizing Internal Hemorrhage Diagnostic Care

Our Mission

We are developing a fast, accessible, and accurate hemorrhagic diagnostic tool designed to minimize this loss of life.

The most common cause for heavy internal or external bleeding, also known as hemorrhaging, is trauma.

Internal hemorrhage is an invisible injury that cannot be easily diagnosed.

If the soldier is internally hemorrhaging, they will be evacuated to the nearest hospital for immediate surgical treatment.

Our Device

Using just a small blood sample from the ear, our device uses lateral flow assay (LFA) technology to detect a hemorrhage specific biomarker. The presence of a test line indicates a positive hemorrhage result, similar to pregnancy tests.

- Sensitive
  Detects hemorrhage before 15% blood loss
- Quick
  Diagnoses hemorrhage within 15 minutes
- Portable
  Durable and less than 1.8Kg; long shelf life
- Easy to Use
  No medical training to operate and interpret

Department of Biomedical Engineering, Johns Hopkins University | Cassandra Parent, Richard Eng, Amanda Ruci, Anmol Hayat, Anvith Krishnan, Fei Yang Huang, Ellie Zhang, Eric Simon, Nicholas Durr

Sheba Tel Hashomer City of Health | Ariel Furer