IMPACT THROMBOELASOMETRY: POINT OF CARE VISCOELASTIC TESTING

DIAGNOSTICS
Blood-based, point-of-care diagnostic test for detection of trauma-induced coagulopathy.

TECHNOLOGY TYPE
Medical Device
Instrumentation
Coagulopathy
Thromboelasometry
Clotting
Hemorrhage
Viscoelasticity

STAGE OF DEVELOPMENT
- Proof of concept established.
- Product design needed.

TECHNOLOGY SUMMARY
Trauma remains the leading cause of death for individuals under 40, with hemorrhaging contributing to 40 percent of those deaths. Trauma-induced coagulopathy (TIC), a condition that impairs blood’s ability to clot, occurs in almost half of serious combat casualties. Identification of TIC may direct hemostatic resuscitation and foster production of clots in injured patients. Current diagnostics rely on time-consuming tests performed in hospital laboratories, but a point-of-injury test for TIC could allow rapid treatment that controls hemorrhaging, while avoiding potential over-treatment. ITEM is a novel test that determines viscoelastic behavior of blood to detect coagulopathy. Proof of concept experiments were indicative of coagulopathy.

FEATURES AND BENEFITS
- Increases speed of diagnosis.
- Lowers cost of testing.
- Simplifies workflow and analysis.
- Holds potential use in military and emergency settings.

RECENT PUBLICATIONS

INVENTOR PROFILE
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