

Evaluation of the Diagnostic and Therapeutic Value of Tissue Ultrafiltration in Patients at Risk of Acute Compartment Syndrome (ACS)

NCT05889559

Status	RECRUITING
Phase	Not Applicable
Sponsor	Major Extremity Trauma Research Consortium
Enrollment	60 participants

Key Eligibility Criteria

Inclusion (5)

- Eligible patients must meet all of the following criteria and be enrolled during one of two possible times: within 14 hours of injury, or prior to undergoing surgical intervention (internal or external fixation on the injured limb) within 48 hours of admission. Eligible patients will be:
 - Between the ages of 18 and 60 years
 - Have sustained a high-energy upper leg injury such as open or closed proximal tibial shaft fracture with displacement, comminution, or segmental pattern; proximal fibula fracture; bicondylar tibial plateau fracture; Schatzker IV medial knee fracture-dislocation; proximal leg injury due to shotgun, rifle, or other projectile, or severe crushing injury.
 - Patient can be enrolled in the study and study procedures initiated within 14 hours of injury,* or be enrolled prior to undergoing urgent surgical intervention on the injured limb (defined as internal or external fixation) within 48 hours of admission.
 - Patient (or authorized legal representative) willing to sign informed consent.

Exclusion (9)

- An individual who meets any of the following criteria will be excluded from participation in this study:
 - Patients not willing to participate
 - Patients with non-traumatic cases of acute compartment syndrome (e.g. severe exertion, snakebite, high-pressure injection injury)
 - Patients diagnosed with ACS or impending ACS such that immediate fasciotomy is recommended
 - Soft tissue wounds, including lacerations or abrasions, that are in a location that will interfere with safe insertion of indwelling pressure or TUF catheters (anterior - anterolateral aspect of the leg)
- ... and 4 more (see full listing online)

Locations (4 total)

University of Maryland School of Medicine R Adams Cowley Shock Trauma Center, Baltimore, Maryland, United States
Hennepin Healthcare Research Institute, Minneapolis, Minnesota, United States
Atrium Health Musculoskeletal Institute, Charlotte, North Carolina, United States
... and 1 more locations