Trauma and Acute Care Surgery Research Program

Emily Murdoch, BSRT, RRT; Leigh Pack, BSN, RN; Morgan Krause, MSN-Ed, RN, PCCN



Trauma Research

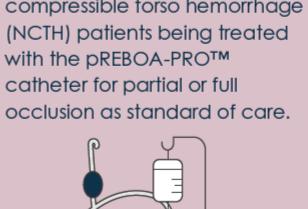
Clinical Trials:



Partial REBOA Outcomes Multicenter ProspecTive (PROMPT) STUDY SUMMARY

WHAT?

A multi-center prospective observational study of noncompressible torso hemorrhage (NCTH) patients being treated

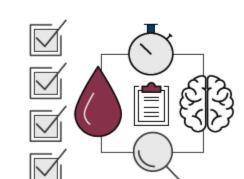


enable clinicians to perform partial REBOA in the emergent treatment of bleeding trauma

2. Does partial REBOA provide clinical benefits ischemia, extended safe occlusion time, improved hemodynamics during transition to and from occlusion, and reduced blood product use?

2. Ischemic markers

- Tolerance to reperfusion 4. Blood product use
- In patients receiving complete REBOA versus partial REBOA



WHY?

The DoD is funding a clinical study on partial REBOA using pREBOA-PRO™ to assess its impact on treating patients with NCTH, one of the leading causes of preventable mortality.

INVESTIGATORS:

David Baer, PhD

CSO for Prytime Medical

Total Study 340

Site Investigator William Vassy, MD FACS Director of Trauma and Acute Care Surgery | Trauma Medical Director Principal Investigator



TRAUMA AND PCC STUDY

PI: Dr. Timothy Stevens

Kcentra® (or 4-factor prothrombin complex concentrate) is a Food and Drug Administration (FDA) approved product that contains clotting factors. It is currently used to reverse the effects of medications given to "thin" the blood in patients, when such patients experience bleeding and/or require surgery.

There is evidence that Kcentra® may be beneficial (reduce the chance of dying) in injured patients who are not on blood-thinning medication. The TAP trial is a research trial to see whether Kcentra reduces the chances of injured people dying from their injuries.

The TAP trial is a

esearch trial to se

WHO Patients who have been injured, and who are deemed to require a bloo transfusion. We know that such patients are at high risk of dying.

Department.

whether Kcentra reduces the chances f people dying from WHERE The study will take place right here in our community, in their injuries patients cared for in our Emergency because of blood

HOW The treatment (Kcentra® or placebo) will be given as an IV (into a vein) infusion, which lasts about 10-15 minutes. The treatment will be given in addition to all usual care.

WHAT happens afterwards? There are no other research treatments once the infusion has been completed. We will record patient information and carefully monitor them for any complications.

TAP is one of the largest trauma trials ever conducted. It will involve up to 8,000 patients, across 140 hospitals (around 100 of them in the United States, the remainder in a small number of other countries).

loss.

Published Studies

Jesse E. MBA, BSN, RN, TCRN

Developing a Trauma Intermediate Care Unit

(In the second of the second o

Unfamiliar Territory

🕟 Lee, Donna B. MSN, RN, CEN, TCRN

Formation of Biologic Plug and Patch Mesh for Use in Perforated Femoral Hernia

Navigating Trauma Patients and Families Through

Changing the Playing Field: A Prehospital Blood Product Pilot Project in Rural North Georgia

Stevens, Timothy J. MD; Dee, Donna B. MSN, RN, CEN, TCRN

Nathan Creel, MD 🖾, Jesse Gibson, MBA, BSN, RN, Kyle Gibson, MSN, APRN, AGACNP-BC, Lissa Shirley, MSA, MT(ASCP)SBB, and Charles Richart, MD

Postintensive Care Syndrome: Feasibly Bridging

Utility of an Emergency Department Observation Unit in Providing Care for Patients With Blunt Thoracic Trauma

Shehzad Muhamed ¹, Matthew Vassy ², Jason Konzelmann ¹, Jesse Gibson ², Leigh Pack ²

Improving the Safety of Laparoscopic Cholecystectomy with Indocyanine Green Dye Using Critical View of

Michael P. Stolz, MD ⊠, Edward N. Foxhall, MD, [...], and Molly M. McNamee, MD (+2) View all authors and affiliations



Incarcerated Amyand Hernia Associated With Acute Appendicitis and Incidental Finding of Serrated Adenoma

Molly M. McNamee, MD D M, Michael P. Stolz, MD, [...], and Cecil Brown, MD (+1) View all authors and affiliations

Evaluating the Effect of a Dosing and Titration Protocol on Dexmedetomidine-Induced Hypotension in Trauma Patients

(D) Kurtz, Peyton M. PharmD; VanLandingham, Jason PharmD, BCPS; Cormican, Michael MD; Gibson, Michael P. Stolz, MD 🖂, James G. Chambers, MD, FACS, and Kamran Mahalati, MD, FACS View all authors and affiliations

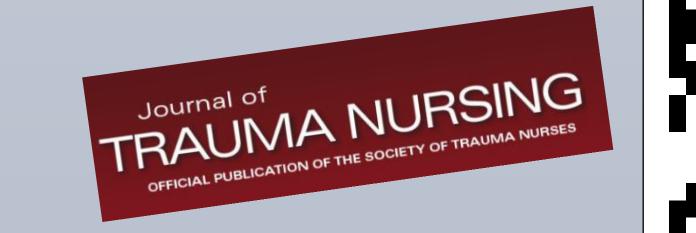
> Collaborative Approach to Organ Donation in a Level II Trauma Center 🖼

Kim Kottemann, MBA; Morgan A. Krause, MSN-Ed, RN, PCCN; Leigh Pack, BSN, RN

Endoscopic Sleeve Gastroplasty Leading to Gastric Ischemia and Perforation

Kyle MSN, APRN, AGACNP-BC; Roebuck, Leslie PharmD

Michael P. Stolz ⊠, Brian H. Gibson, and William M. Vassy View all authors and affiliations







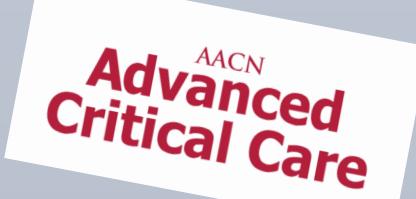
The American Surgeon™

Streamlining care in two neurosurgical practices

Gibson, Kyle MSN, APRN, AGACNP-BC, TCRN; Whitson, Daniel MD; Filson, John D. MS, PA-C; Grunch,

in a rural trauma center

Betsy MD, FAANS, FACS; Pack, Leigh BSN, RN



Cureus

Acute Care Surgery Research

Current Multicenter Registry being conducted at NGMC Gainesville:

Registry of Myriad Utilization in Soft Tissue **Reconstruction Procedures**

PI: Dr. Matthew Vassy

Sub-PI: Dr. Michael Cormican

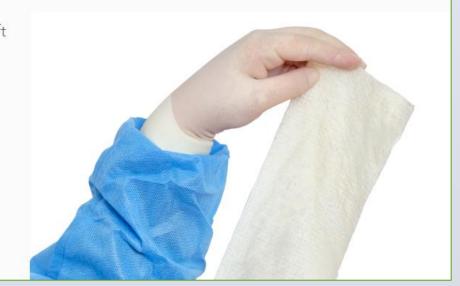
This registry involves patients undergoing plastic and reconstructive surgery procedures that involve the use of Matrix or

Overview

Morcells.

Myriad Matrix[™] is an engineered extracellular matrix (ECM) for soft tissue repair, reinforcement and complex wounds. Myriad Matrix[™] has been specifically designed to help maximize tissue repair while providing versatility and adaptability across a wide range of surgical applications.

Myriad Matrix[™] is designed to be easily customizable for a wide range of anatomical sites and surgical needs and can be used in both implantation and dermal repair.



Overview

Myriad Morcells[™] is a morcellized (powdered) format of Myriad Matrix[™] for soft tissue repair and complex wounds.

Myriad Morcells[™] delivers a bolus of biologically important extracellular matrix (ECM) proteins that help kick start healing.

- The morcellized format of Myriad Morcells[™] increases the
- AROA ECM™ surface area to maximize delivery • Myriad Morcells™ easily conforms to optimize contact with

irregular wound beds

Myriad Morcells[™] can also be conveniently hydrated in the



Clinical Trial Coming to NGMC Gainesville, Surgical Trauma Intensive Care Unit, Fall 2023: Randomized Study of the pdSTIM System in Failure to Wean Mechanically Ventilated Patients (ReInvigorate Study)

PI: Dr. Bradley Kuhn

Sub-PI: Dr. Michael Cormican

What is the pdSTIM[™] System?

The pdSTIM SystemTM is intended to provide temporary stimulation to facilitate weaning from mechanical ventilation in patients who have been on mechanical ventilation for 96 hours or more and who are at risk of having difficulty in weaning.



Therapy Set-up and Implementation Place \rightarrow Configure \rightarrow Monitor

odSTIM Leads are designed to enable minimally invasive placement at a patient's bedside in an ICU setting. The leads, which are placed trancutaneously in the neck region via ultrasound guidance, represent the world's smallest multielectrode lead (3 Fr) and fit through a needle enabling "through the needle" nsertion. The pdSTIM Leads do not require placement via the vasculature nor near/within any organs. Since lead placement is not in the vasculature nor near/within any organs, there is a reduced risk of placement related complications and infections. The placement location also prevents interference with other lines

Once the leads are placed and attached to the console, phrenic nerve stimulation is coordinated via the proprietary RespiSync[™] algorithm and direct measurement of Work of Breathing (WOB) to produce physiologic diaphragmatic movement. The pdSTIM System is agnostic to the type or mode of ventilator.

