

# **EXCELLENCE IN PREHOSPITAL INJURY CARE IN MONTANA (EPIC-MT)**

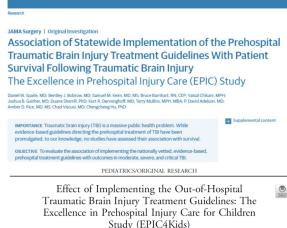
## for Traumatic Brain Injury

## **Traumatic Brain Injury in Montana:**

- Each year, over 300 Montanans die from TBI and another 800 are hospitalized.
- Nationally, TBI leads to 2.2 million emergency department visits, 280,000 hospitalizations, and 52,000 deaths.
- Montana has an elevated injury and death rate from TBI compared to the nation.

#### What is EPIC-MT?

- EPIC is an evidence-based treatment protocol and quality improvement initiative for treatment of patients with TBI.
- Demonstrated that EMS care can dramatically improve survival.
- In adults, implementation of the EPIC Guidelines was independently associated with a **doubling** of the adjusted odds of survival in severe TBI and a tripling in survival with severe, intubated TBI.
- In pediatric patients, use of EPIC was associated with a **five-fold** increase in adjusted odds of survival in severe TBI (whether or not intubated) and a **seven-fold** increase in survival for patients receiving positive pressure ventilation.



Study (EPIC4Kids)

shua B. Gaither, MD<sup>+</sup>: Daniel W. Spaite, MD; Bentley J. Bobrow, MD; Samuel M. Keim, MD, MS; Bruce J. Barnhart, MSN, CEP; Vatsal Chikani, MPH; Duane Shernil, PhD; Kurt R. Denninghoft, MD; Terry Mullins, MPH, MBA; P. David Adelson, MD; Ambre D. Rice, MD, MS; Crud Viscusi, MD; Chengcheng Hu, PhD; \*Corresponding Author, E-mail: igaith

Study objective: We evaluate the effect of implementing the out-of-hospital pediatric traumatic brain injury guidelines on outcomes in children with major traumatic brain injury.

Methods: The Collection in Periodoxial Injury Care for Children study is the preplanned secondary analysis of the Excell Perhospital Injury Care study, a multisystem, intention-to-treat study using a before-after controlled design. This subanal included children juminger than 18 years who were transported to Level trauma centre by participating out-of-to-postial between January 1, 2007, and June 30, 2015, throughout Atroons. The primary and secondary outcomes were survival to discharge or admission for children with major traumatic brain injury and in 3 subgroups, defined a grin of a stone with most severe, and critical traumatic brain injury. Outcomes in the preimplementation and postimplementation cohorts were co-

#### Want to Connect with an EPIC-MT Trainer in Your Area?

Visit https://www.cognitoforms.com/DPHHS1/EPICMTTrainingConnection

## Want to learn more about EPIC-MT Agency Certification?

Visit https://www.cognitoforms.com/DPHHS1/EPICMTAgencyCertification

#### **Contact your EPIC-MT Coordinators:**

**Kristin Costa** kristin.costa@mt.gov 406.444.1310

### Nicole Steeneken

nicole.steeneken@mt.gov 406.444.2480

