

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

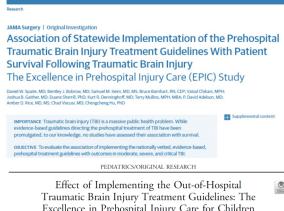
## for Traumatic Brain Injury

## 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.



Excellence in Prehospital Injury Care for Children Study (EPIC4Kids)



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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 Excellence in Perhopital Injury Care for Children study is the preplanned secondary analysis of the Ex-Perhospital Injury Care study, a multisystem, intention-to-treat study using a before-after controlled design. This sub-included children younger than 18 years who were transported to Level I trauma centers by participant out-of-hospital between January 1, 2007, and June 30, 2015, throughout Arizona. The primary and secondary outcomes were survival discharge or admission for children with major traumate brain injury and in 3 subgroups, defined a prior a shotoe with severe, and critical traumatic brain injury, Outcomes in the preimplementation and postimplementation cohorts were with blooties coveragion. Authoritor for site futures and conformation.

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