



**EAST MULTICENTER STUDY
DATA COLLECTION TOOL**

Multicenter Study: _____

Enrolling Center: University of Maryland Shock Trauma Center
Enrolling Co-investigator: Laura Harmon, MD; Daniel Haase, MD; Deb Stein, MD

Admit date/time: _____ / _____

Demographics / Injury Variables:

Age: _____ Sex: _____

Mechanism of initial injury:

Penetrating: GSW/Stab/Other _____

ISS: _____ AIS Head: _____ AIS Face: _____

Motor GCS on admission: _____

Extent of Dural Penetration: Local/Extensive

Operative intervention: Craniotomy/Craniectomy/Other _____

Evidence of dural penetration: yes/no

Intracranial pressure monitor: yes/no

Type of Intracranial pressure monitor: intraventricular/non-intraventricular

Retained foreign body: yes/no

Trajectory through of naso/oropharynx: yes/no

Trajectory through facial sinuses: yes/no

Management Variables:

Prophylactic antibiotics started within 24h yes/no

1. Agent and duration _____
2. Agent and duration _____
3. Agent and duration _____

CNS infection: yes/no

Hospital day CNS infection was diagnosed:

Evidence of CNS infection: culture/imaging/clinical

Type of infection _____ (e.g. abscess, ventriculitis, etc.)

Treatment Antibiotics start date/time: _____

1. Agent and duration _____

2. Agent and duration _____

3. Agent and duration _____

Culture results: _____

Outcomes

Hospital LOS: _____

ICU LOS: _____

Mortality: _____

Disposition: _____



EAST MULTICENTER STUDY DATA DICTIONARY

Penetrating Brain Injury – Data Dictionary

Data Entry Points and appropriate definitions / clarifications:

Entry space	Definition / Instructions
<u>Standard Study Questions</u>	
Admit Date	Admission date of the patient enrolled
Admit Time	Admission time of the patient enrolled
Age	Age of patient enrolled
<u>Case Information</u>	
Sex	Sex of patient enrolled
Race	Race of patient enrolled
<u>Mechanism of initial Injury</u>	
Penetrating	Single choice for best description of penetrating mechanism. Options include: GSW (Gunshot wound) Stab (Stab Wound) Other
ISS	Numerical value for calculated ISS (ISS = Injury Severity Score)
AIS Head	Numerical Value for AIS body region = Head (AIS = Abbreviated Injury Score)
AIS Face	Numerical Value for AIS body region = Head (AIS = Abbreviated Injury Score)
Extent of Dural penetration	Extent of Dural penetration Local= local pneumocephaly or depression <1cm Extensive penetration= greater than 1 cm penetration
Motor GCS	Motor GCS on admission

Management Variables

Operative intervention	Craniotomy Craniectomy Other
Evidence of Dural penetration	Evidence of Dural penetration, either by operative documentation or imaging. On imaging, Dural penetration is noted by either obvious violation of the Dural or intradural pneumocephalus
Retained foreign body	yes/no Typically bullet fragment
Trajectory through the naso/oropharynx	Was the injury isolated to the brain or did it involve maxillofacial injuries
Trajectory through the facial sinus	Trajectory through the brain involving facial fractures but excluding the mouth/oropharynx
Intracranial pressure monitor	Type of ICP monitor Intraventricular monitor Extraventricular monitor
Antibiotics	Free entry for specific type of antibiotic initiated Generic or trade-name acceptable. If there is not space within the confines of the entry space to write all of the antibiotics utilized, use the study site email to notify the AAST PIs and we will collect this information
Duration of antibiotics	Length of antibiotics in days. Initiation of antibiotic day is day 0.
CNS infection	yes/no Presence or absence of brain infection
Hospital day CNS infection Was diagnosed	How many days after injury was the infection diagnosed
Evidence of infection	Culture Imaging Clinical
Culture results	Presence of culture results Type of bacteria
Prophylactic antibiotics	Antibiotic agent started within 24 hours of injury
Duration of antibiotics	Length of antibiotics in days. Initiation of antibiotic day is day 0.

Outcomes

Hospital LOS (days)

Free text entry for number of consecutive days patient hospitalized at initial admission (Day of admission = hospital day #1) LOS = Length of Stay

ICU LOS (days)

Free text entry of number of consecutive days patient required ICU admission (ICU = Intensive Care Unit, LOS = Length of Stay) - Day of admission = hospital day #1

Mortality

Drop down menu. Yes or No. Did patient expire? during initial hospitalization?

Disposition

Drop down menu. Where the patient was discharged to (Home, Rehab, SNF, Other)