

External Ventricular Drain (EVD) Safety Campaign Perioperative Quality and Safety Metrics

A) Preoperative assessment of patients with EVDs

Documentation of EVD-specific clinical information

Numerator: Percentage of patients with documentation of EVD setting, average CSF output, and an average ICP value

Denominator: All patients with indwelling EVDs who undergo preoperative assessment

Data source: Pre-anesthesia assessment notes

B) Intra-hospital transport

ICP monitoring during intra-hospital transport

Numerator: Percentage of patients with ICP monitoring during intra-hospital transport

Denominator: All patients with indwelling EVDs who undergo intra-hospital transport

Data source: Anesthesia records, electronic medical records

C) Intraoperative care of EVD

Intraoperative documentation of intracranial res

1. Intraoperative EVD output (q 15 min- q 1 hr.)
2. Intraoperative ICP values (q 15 min- q 1 hr.)
3. Documentation of adverse events
 - a. Disconnection of EVD system
 - b. Inadvertent injection in the EVD collecting system
 - c. Intracranial pressure elevation during intra-hospital transport

Numerator:

1. Number of patients with intraoperative EVD output documentation
2. Number of patients with intraoperative ICP documentation

Denominator: Number of patients with indwelling EVDs who have an anesthetic encounter

Data source: Electronic medical records, Anesthesia records

D) EVD-associated infection

Numerator: Cerebrospinal fluid (CSF) infection related to an EVD. Definition: positive CSF culture

Denominator: External ventricular drain days

Data source: Infection control / ICU QI

E) EVD-associated hemorrhagic complication

Numerator: Intracerebral hemorrhage associated with placement of EVDs.

Denominator: All patients with EVDs placed at your institution

Data source: Post-EVD-placement computerized tomography of the head.

Abbreviations:

ICP: Intracranial pressure, CSF: cerebrospinal fluid