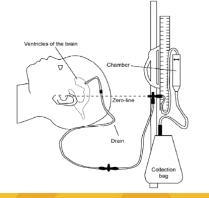
Intracranial Pressure (ICP) Monitoring

External Ventricular Device (EVD)

- Flexible catheter placed by neurosurgery.
- Provides intracranial pressure (ICP) values.
- Allows for drainage of CSF and intracranial blood.



Pathophysiology of increased ICP

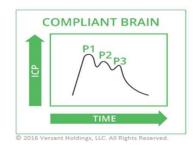
- Increase in brain tissue by space occupying masses
- Cerebral edema
- Increase in CSF volume
- Increase in blood volume
- Failure of compensatory mechanisms

Raumedic PTO Catheter

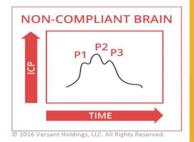
- Flexible catheter placed by neurosurgery.
- Provides intracranial pressure (ICP), brain tissue oxygenation, and brain tissue temperature values.
- CSF specimen collection and drainage can not be performed.



- ICP waveforms contain three peaks: P1, P2, and P3.
- · Each peak correlates with a cardiac cycle.
- · Each peak should decrease in height.



MAP - ICP = CPP



Signs & Symptoms of increased ICP

