Recent advances in the treatment of Hydrocephalus

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Surgical Options

- External Ventriculostomy (temporary)
- Infection
- IVH
Surgical Options: Ventriculo-peritoneal Shunt
Surgical Options

- Endoscopic Third Ventriculostomy
Third Ventriculostomy

History

- Craniotomy
  - Dandy 1922
  - 1945
Third Venticulostomy History

- **Endoscopic**
  - Mixter 1923 (Died after few wks)
  - Vries 1978 (5 cases, no mortality)
  - Jones et al. 1992 (54 cases, no mortality)
ETV
Indications

- Aqueduct Stenosis
- Intractable shunt infections
- Slit ventricle syndrome
ETV
Indications (controversial)

- Myelomeningocele
- Tumors (posterior fossa)
- Previous infections
Technique
Endoscopic Third Ventriculostomy
Aqueduct Stenosis
Arachnoid & Ventricular Cysts
Posterior fossa Tumor
Complications

- Hypothalamus
  (SIADH, DI, fever, obesity)

- CN
  (3&6)

- Vascular
  (BA, False An, CVA)

- OVERALL LOW M&M
Multi-cystic Hydrocephalus