

□ Ventricular Catheter Placement - Complications

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Ventricular catheter misplacement.

□ 1. Mechanical Complications

- **Misplacement / Malposition**
 - Catheter tip outside the ventricle (e.g., into brain parenchyma or subarachnoid space).
 - Incorrect trajectory, e.g., not near the foramen of Monro.
- **Obstruction / Occlusion**
 - Caused by blood clots, choroid plexus, or debris.
- **Fracture or Disconnection** (especially in VP shunts).
- **Catheter Migration or Retraction**
- **Overdrainage**
 - Slit ventricle syndrome.
 - Subdural hematomas.

□ 2. Hemorrhagic Complications

- Intraparenchymal hemorrhage (along catheter tract).
- Intraventricular hemorrhage.
- Subarachnoid hemorrhage (SAH).
- Epidural or subdural hematomas (rare).

□ 3. Infectious Complications

- Meningitis.
- Ventriculitis.
- Shunt infection (common organisms: *Staphylococcus epidermidis*).

- Peritonitis (from infected distal catheter in VP shunts).

□ 4. CSF-Related Complications

- CSF leak at insertion site.
- Pseudomeningocele.
- Tension pneumocephalus (from air introduced during insertion).
- Persistent hydrocephalus (insufficient drainage).

□ 5. Neurological Complications

- Seizures (due to hemorrhage or cortical irritation).
- New focal neurological deficits (due to misplacement or edema).

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