

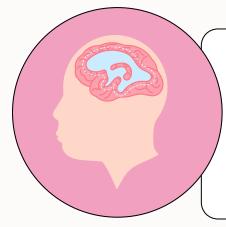
Ventriculo-Peritoneal Shunt (VPS)

Patient Packet



CEREBROSPINAL FLUID (CSF)



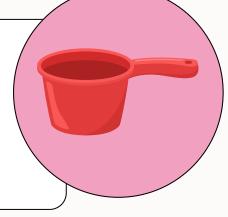


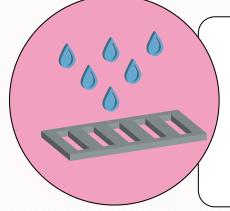
01. WHAT IS IT

A clear liquid that surround the brain and spinal cord. It cushions the brain, protects it from injury, and helps move nutrients and waste in and out.

02. HOW MUCH DO WE HAVE

You produce about 15-20 mL (1 Tablespoon) every hour. Over a whole day, that's about 500 mL (or 2 cups). However, at any one time, there's only about 150 mL (or 1/2 cup) around the brain and spinal cord.



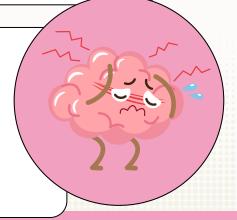


03. WHERE DOES THE EXTRA GO?

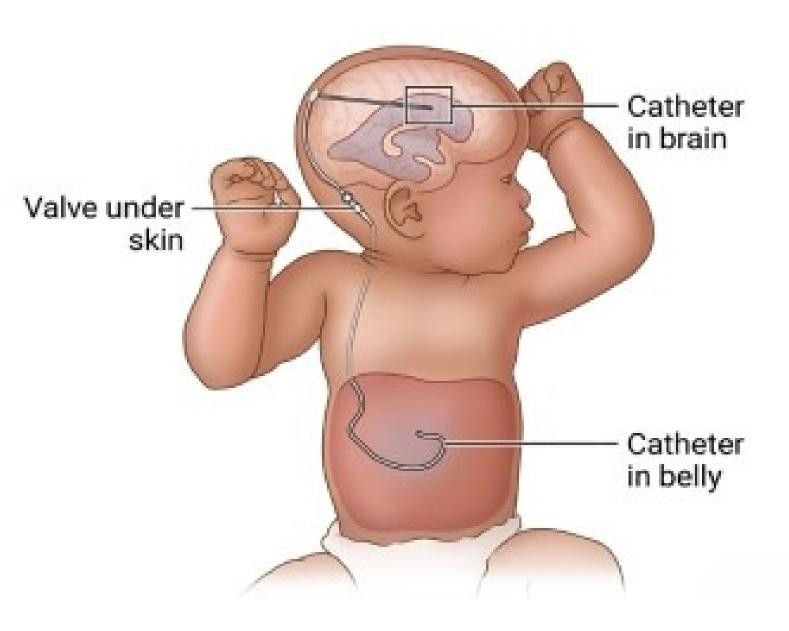
Since your body only needs a set amount, the "extra" drains away through the brain's natural gutters (*arachnoid granulations*), which carry the fluid back into the bloodstream to keep everything in balance.

04. WHY IS THIS IMPORANT

If too much CSF builds up or doesn't drain well, it can put pressure on the brain. This might show up as headaches, vomiting, sleepiness, irritability, a bulging soft spot, or a quickly growing head size. This would need treatment.



Ventriculopertitoneal Shunt (VPS)



Surgery: VPS Insertion

Goals of Surgery

- Relieve fluid buildup and pressure in brain
- This is done by moving extra fluid to another part of the body, where it can be safely absorbed.

2 Risks of Surgery

- Infection (give antibiotics before surgery), bleeding, headache, brain fluid leak, damage to brain, injury to bowels
- Long-term: the VPS may need to be replaced over time, especially in children as they grow

3 Alternatives

- ETV effectiveness depends on your child's anatomy and why there's fluid buildup (ETV Success Score).
- Observe only if no signs of pressure

Right after Surgery

- Sitting with the head up to help the incision heal
- Pain medications: IV Tylenol, IV Toradol,
- Antibiotics: 24 hours
- Check labs



5 Hospital Recovery

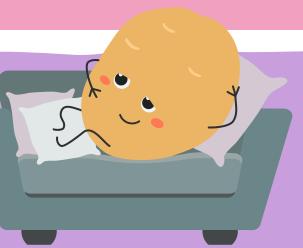
 Once your child is taking all their medicine by mouth, eating/drinking, peeing, and moving ok, your child can go home



Incison Care

- Ok to shower 2 days after surgery. Wash daily
- No bathing or soaking incision in tub for 4 weeks after surgery
- Incision will fall off on it's own in 3-4 weeks
- No need to cover the incision

Recovery & Follow-Up



ACTIVITY RESTRICTIONS

- Week 0-2: Couch potato
- Week 0-4: Light activity
- 1-3 months: Regular activity (keeping two feet on the ground avoid jumping)
- At 3-months: Clear for all activities

HOME CARE

Will see in clinic for incision check at 2 weeks.

Can return to school or daycare after this

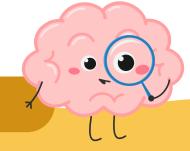
appointment.

FOLLOW-UP

- 2-week: incision check
- 6-weeks
- 3 months
- Annual check-up



LONG-TERM CARE



- Return to sports: After 3 months, ok to return to non-contact sports
 - At 6 months, ok to return to contact sports
- Annual eye exams to rule out pressure build up in the optic nerve (papilledema) that could indicate increased pressure in the brain
- Most children will live normal, active lives once fully healed.