

Review Article





Post dural punct: Headache

Proceeding

PDPH can occur both in spinal and epidural due to CSF leakage.

Pathio Physiology of PDPH

i. CSF leakage.

PDPH occurs when CSF leakage > CSF Production

ii. Cerebrovasodilation.

Body attempts to maintain homepstasis within cranium.

- iii. CSF lead to compensatory Cerebrovasodilation and headache.
- iv. Menigeal Irritation.
- v. Pnemocephalus.

Accidental intrathecal injection of air during epidural may cause relatively sudden onset of headache.

Risk factors of PDPH

A. Patient factors:

- a. Gender_females at higher risk.
- b. Age_younger pts at higher risk.

B. Needle characteristics:

- Size larger needle size increases loss of CSF and incidence of PDPH.
- b. Shape sharp cutting-edge beveled needle has increased
- c. Incidence of PDPH when compared with pencil-point needles.

Control risk factors of PDPH

C. Procedure factors:

- a. Needle should be inserted "parallel" to dural fibers. Usually, dural fibers run longitudinally.
- Paramedian versus midline approach: paramedian may have decreased incidence of PDPH ("flap" rather than a "tin-lid" opening).
- Mulitiple punctures increase risk of PDPH because of increased loss of CSF.

Clinical assessment of PDPH

- a. Occipto frontal headache.
- b. Aggravate sitting position.
- c. Patient comfortable supine position.
- d. PDPH usually appears 1 to 2 days after dural puncture and lasts (if untreated) for upto 7 days in most cases.
- e. Other associated symptoms (not reliable).

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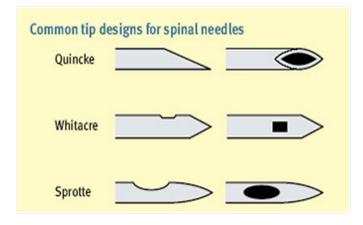
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- f. Photphobia, nausea, vomiting, auditory disturbances.
- g. Cranial nerve involvement (diplopia).

Treatment of PDPH

- 1. Conservative
- a. Analgesic + Rehydration and caffine (i/v or oral)
- b. Soft diet.
- c. Caffenie provides transient relief via vasoconstriction.
- 2. Invasive.
- a. Epidural blood patch (gold standard).
- b. Success rate is 70% to 90%.
- c. Two operators required.
- d. One takes 15-20 ml of blood from patient.

Other injects this blood in epidural space at same level or one level below after starile technique.^{1–3}



Conflicts of interest

There is no conflict of interest.





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References

- 1. Johns Hopkins Anesthesiology Book.
- 2. MorganText Book.
- 3. Aitkenheads Text Book.