Correspondence

phase.3 But, whether it is safe or has a beneficial role during predissection phase, is not clear. This patient belonged to a good SAH grade and theoretical concerns of hyperventilation have been clearly defined.4 Yet, to achieve relaxed brain, we resorted to hyperventilation as a quick maneuver to facilitate surgical exposure. However, prompt aneurysm obliteration together with maintenance of normotension during the procedure resulted in good outcome of the patient.

In conclusion, we reiterate the theoretical teaching that during aneurysm surgery, hyperventilation should not be instituted acutely in good-grade patients to decrease ICP, especially before dural opening. If intracranial pressure is to be decreased then utmost care should be taken to suddenly increase the TMP gradient.

Conflict of Interest
None declared.

References

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injection; even then, there was no drainage of CSF. Several hours later, CSF started to drain with the patient in the sitting position.

Interestingly, it is possible for the needle to be correctly positioned within the thecal sac, yet have no egress of CSF. Ramachandran et al and Das et al reported successful spinal anesthesia, where a “give” was felt but no CSF was seen, even upon aspiration. When lumbar punctures are performed under fluoroscopy, as is standard practice for neuroradiologists, visual confirmation of the needle location is possible. If the needle is correctly positioned but there is no CSF flow, contrast is injected to confirm intrathecal placement; this is called “dry spinal tap.” In cases where access is not successful even with fluoroscopy, CT guidance may be required.

The most common reason for a dry spinal tap is dehydration. Other reasons include severe spinal stenosis or narrowing of the thecal sac, which can occur in lipomatosis or arachnoiditis. Dry spinal tap has been described in a patient with iliopsoas abscess expanding into the epidural spaces.

At the time of the procedure, patient hydration with IV fluids, a Valsalva maneuver, reverse Trendelenburg (head elevated) positioning or sitting position may help fill the distal thecal sac.

To date, there is lack of anesthesiology literature on this important issue. It is essential for anesthesiologists to realize that failure to access CSF may not be due to bad technique and needle misplacement, but instead due to a dry spinal tap. Prompt realization, hydration, and fluoroscopy-assisted placement may prevent multiple attempts, which can lead to patient complications.

Conflict of Interest
None declared.

References
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