

Intracranial hypertension diagnosis

An MRI or CT scan of the head can usually determine the cause of increased [intracranial pressure](#) and confirm the diagnosis.

Intracranial pressure may be measured during a [spinal tap](#) ([lumbar puncture](#)). It can also be measured directly by using a device that is drilled through the skull or a tube (catheter) that is inserted into a hollow area in the brain called the ventricle.

The diagnosis of [raised intracranial pressure](#) (ICP) is important in many critically ill patients. The optic nerve sheath is contiguous with the subarachnoid space; thus, an increase in ICP results in a corresponding increase in the [optic nerve sheath diameter](#).

Ocular sonography shows good diagnostic test accuracy for detecting raised ICP compared to CT: specifically, high sensitivity for ruling out raised ICP in a low-risk group and high specificity for ruling in raised ICP in a high-risk group. This noninvasive point-of-care method could lead to rapid interventions for raised ICP, assist centers without CT, and monitor patients during transport or as part of a protocol to reduce CT use ¹⁾.

Intracranial pressure monitoring

see [Intracranial pressure monitoring](#).

Noninvasive intracranial pressure monitoring

see [Noninvasive intracranial pressure monitoring](#).

see [Optic nerve sheath diameter ultrasonography](#).

¹⁾

Ohle R, McIsaac SM, Woo MY, Perry JJ. Sonography of the Optic Nerve Sheath Diameter for Detection of Raised Intracranial Pressure Compared to Computed Tomography: A Systematic Review and Meta-analysis. J Ultrasound Med. 2015 Jul;34(7):1285-94. doi: 10.7863/ultra.34.7.1285. Review. PubMed PMID: 26112632.

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