

Fourth ventricle approaches

General information

- position, skin incision, craniectomy: as in Midline [suboccipital craniectomy](#) using the [Concorde position](#)

- the posterior arch of [C1](#) does not need to be removed unless the [tonsils](#) extend inferior to the [foramen magnum](#)

- options:

- [neuromonitoring](#): SSEP/MEP, BAER

- temporary pacemaker in case of bradycardia due to brainstem manipulation

- image guided navigation: if used, fiducials placed before pre-op imaging and kept in place until surgery usually helps with registration

- complications: ○ hydrocephalus: incidence as high as 30%; average is probably lower

- [cerebellar mutism](#): develops in up to 30%

- other complications: dysarthria: 30%, dysphagia: 33%

The two most common surgical routes to the [fourth ventricle](#) are:

[Transvermian approach](#) and [Telovelar approaches](#).

see [Tonsillouvular fissure approach](#).

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