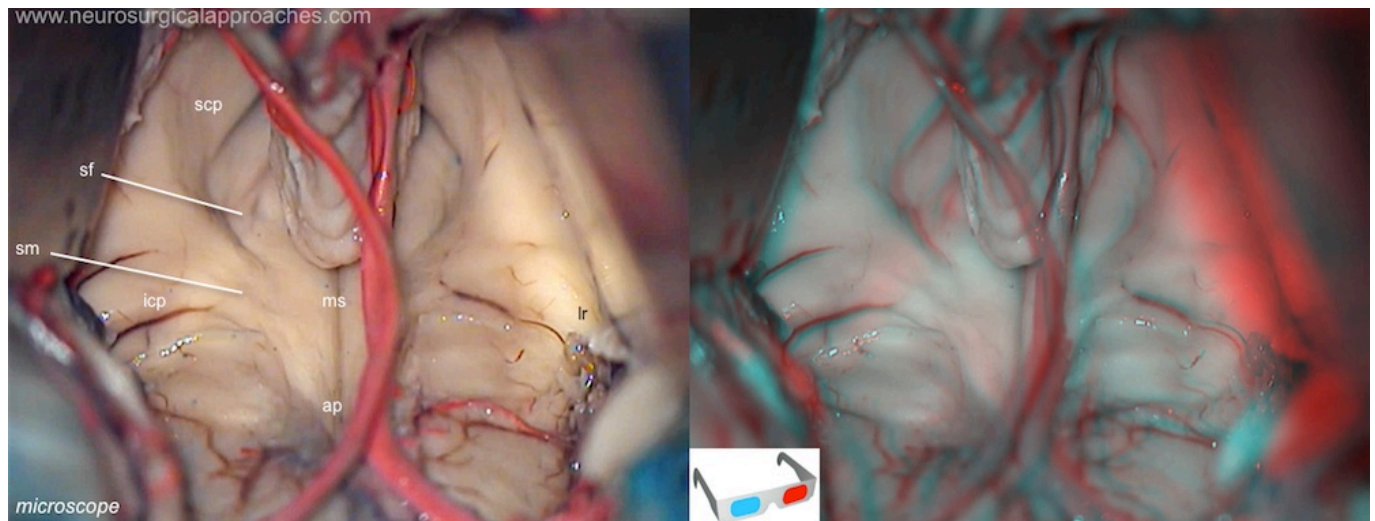


Area postrema

The **area postrema** is a narrow strip of neural tissue located between the **vagal triangle** and the margin of the **rhomboid fossa**. It lacks the blood-brain barrier and has been shown in dogs to function as a trigger zone for vomiting. The facial colliculus, lying rostral to the hypoglossal and vagal triangles, is produced by fibres of the facial motor nucleus looping over the abducens nucleus.



Ap: **area postrema**; icp: **inferior cerebellar peduncle**; lr: **lateral recess**; ms: **median sulcus**; scp: **superior cerebellar peduncle**; sf: **superior fovea**; sm: **Medullary striae of fourth ventricle**.

The human area postrema (AP) is a circumventricular organ that has only been described in cadaveric specimens and animals. Because of its position in the **calamus scriptorius** and the absence of surface markers on the floor of the fourth ventricle, the AP cannot be clearly localized during surgical procedures.

Signals detected by taste receptors, peripheral osmo-sodium, volume receptors, and arterial/cardiopulmonary baroreceptors reach the **nucleus of the solitary tract** (NTS) by the VIIth, IXth, and Xth cranial nerves. The other main brain entry of the information related to fluid and cardiovascular balance are the **lamina terminalis** (LT) and one of the sensory circumventricular organs (CVOs), the **area postrema** (AP).

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