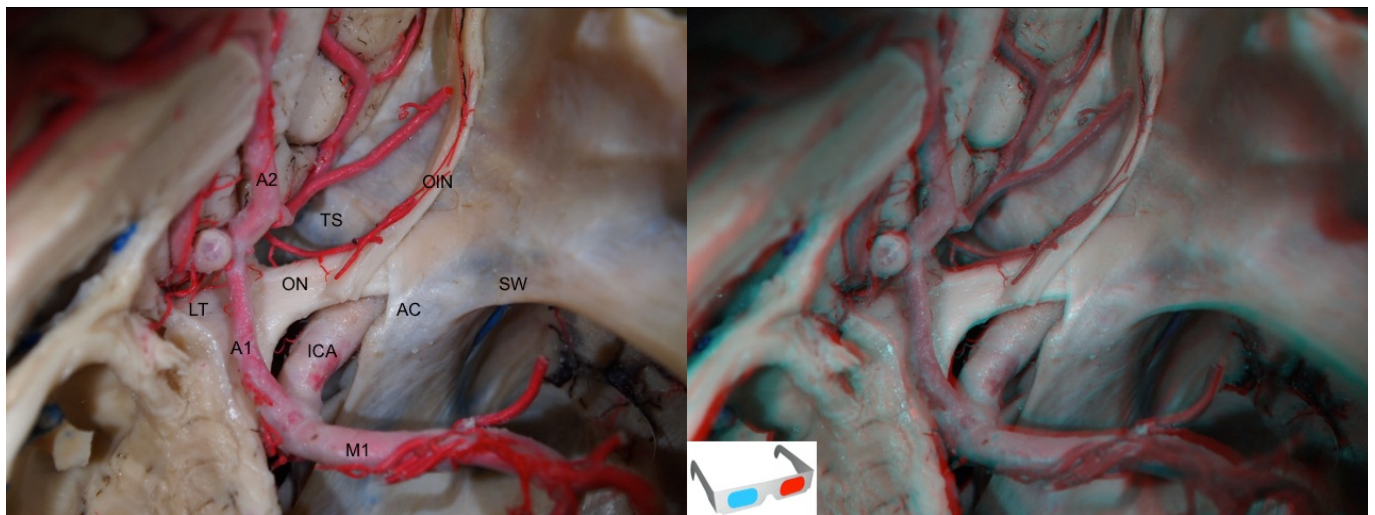


Olfactory nerve

The **olfactory nerve** (Latin: Nervus olfactorius), known as the first **cranial nerve**, or simply CN I, carries the sensory information for the sense of **smell**. Derived from the embryonic nasal placode, the olfactory nerve is capable of **regeneration**. The olfactory nerve is sensory in nature and originates on the **olfactory mucosa** in the anterosuperior **nasal cavity**.

From the olfactory mucosa, the nerve travels down the olfactory tract until it reaches the olfactory bulb, where the fascicles of the olfactory nerve pass through foramina on the **cribriform plate**, which resides on the roof of the nasal cavity. These fascicles are not visible on a cadaver brain because they are severed upon removal.

The sacrifice of the olfactory nerves is often required during a **transbasal approach** or **subfrontal approach**.



AC: **anterior clinoid process**; ICA: **internal carotid artery**; LT: **lamina terminalis**; ON: **optic nerve**; OIN: **olfactory nerve**; SW: **sphenoid wing**; TS: **tuberculum sellae**; A1: A1 segment of the **Anterior Cerebral Artery**; A2: A2 segment of the **Anterior Cerebral Artery**; M1: M1 segment of the **Middle Cerebral Artery**.

The **pterional approach** for **anterior communicating artery aneurysm surgery**, has the following advantage:

The **subarachnoid space** is widely opened and the **brain hemorrhage** can be removed as much as possible in the acute stages of **SAH**; damage of the **olfactory nerve** is minimized and bilateral parent arteries of the proximal side can be secured in an early stage of the procedure.

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