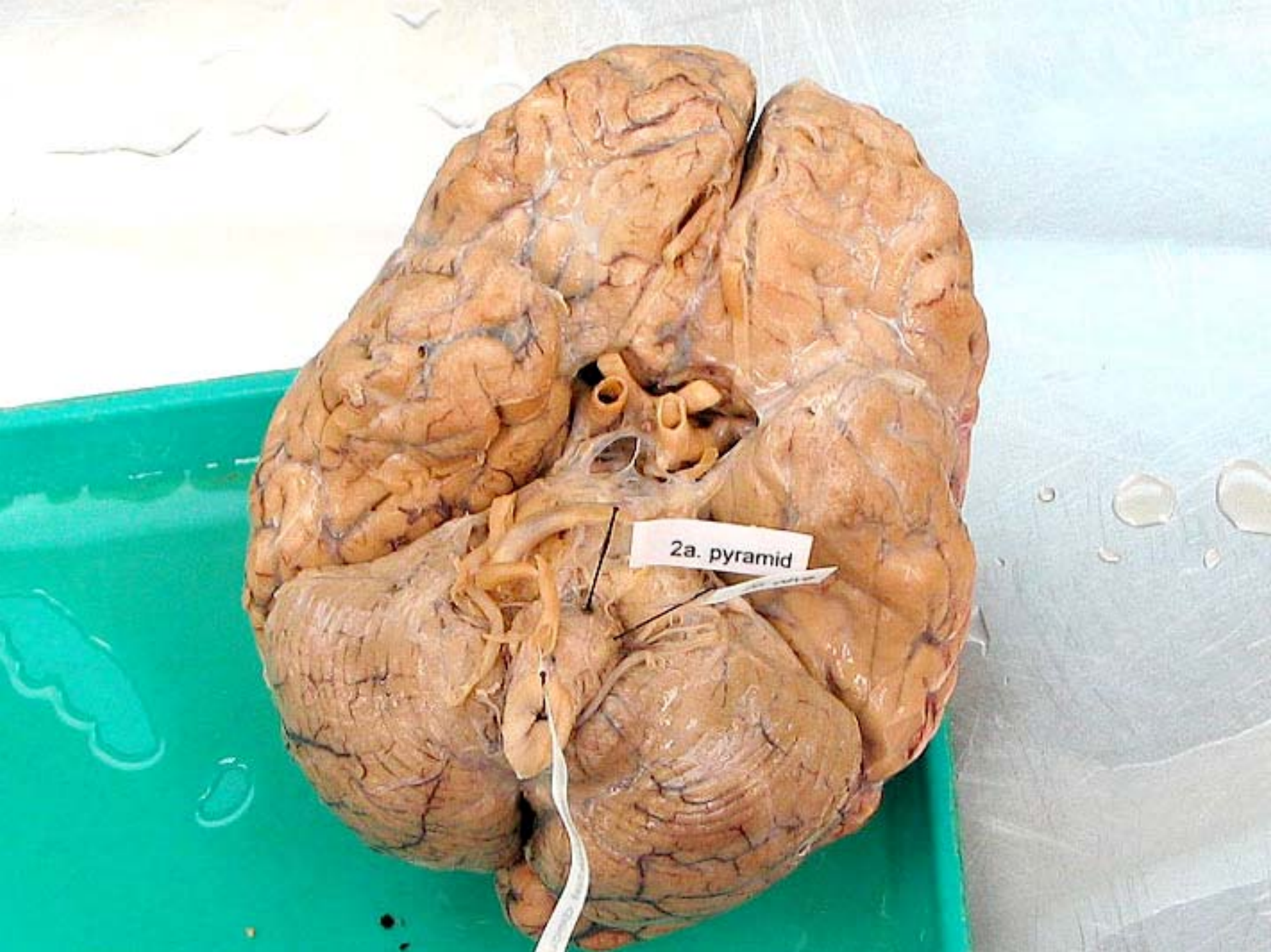
MICHIGAN STATE UNIVERSITY

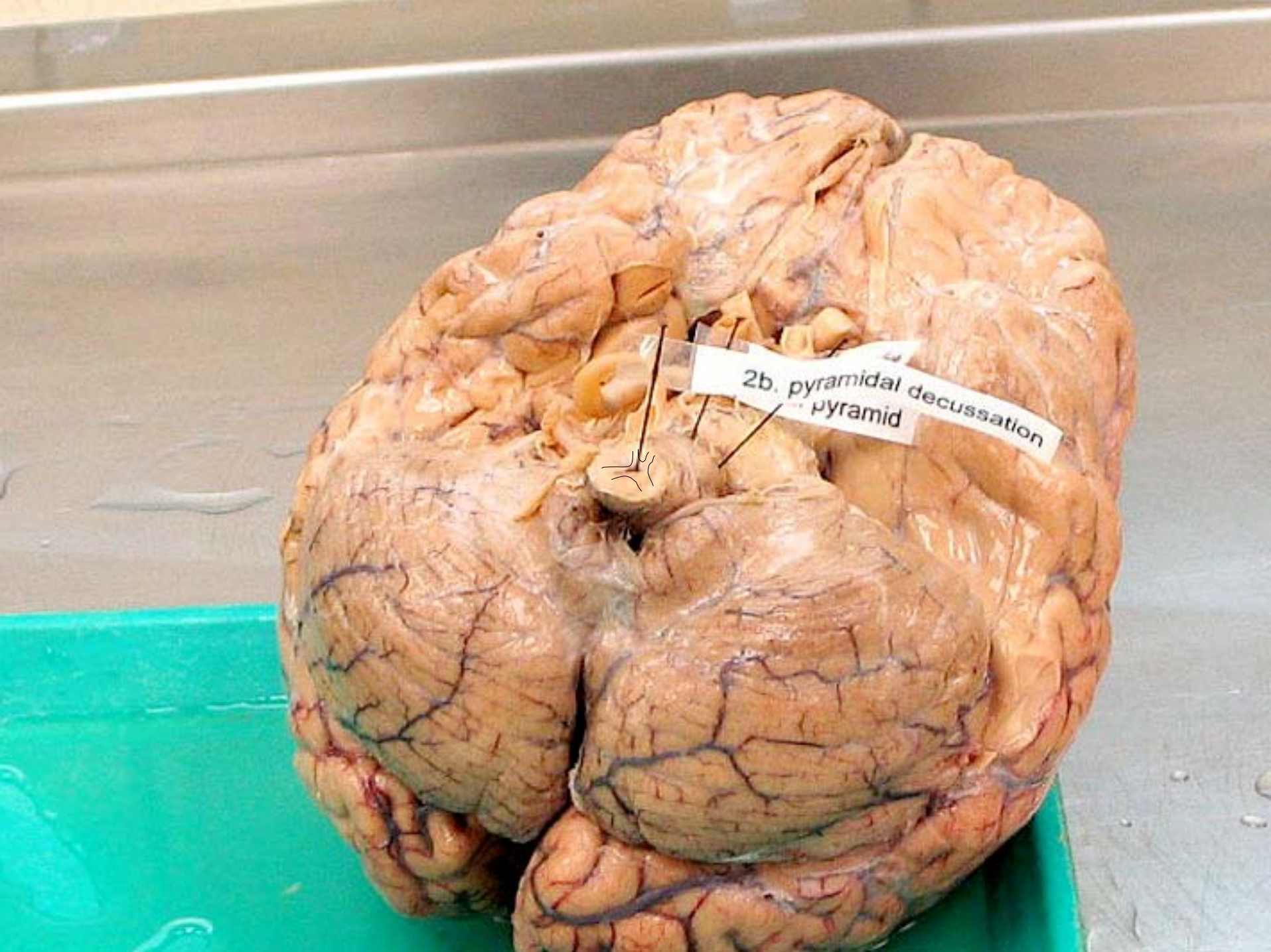
NOP-ANTR-RAD 552

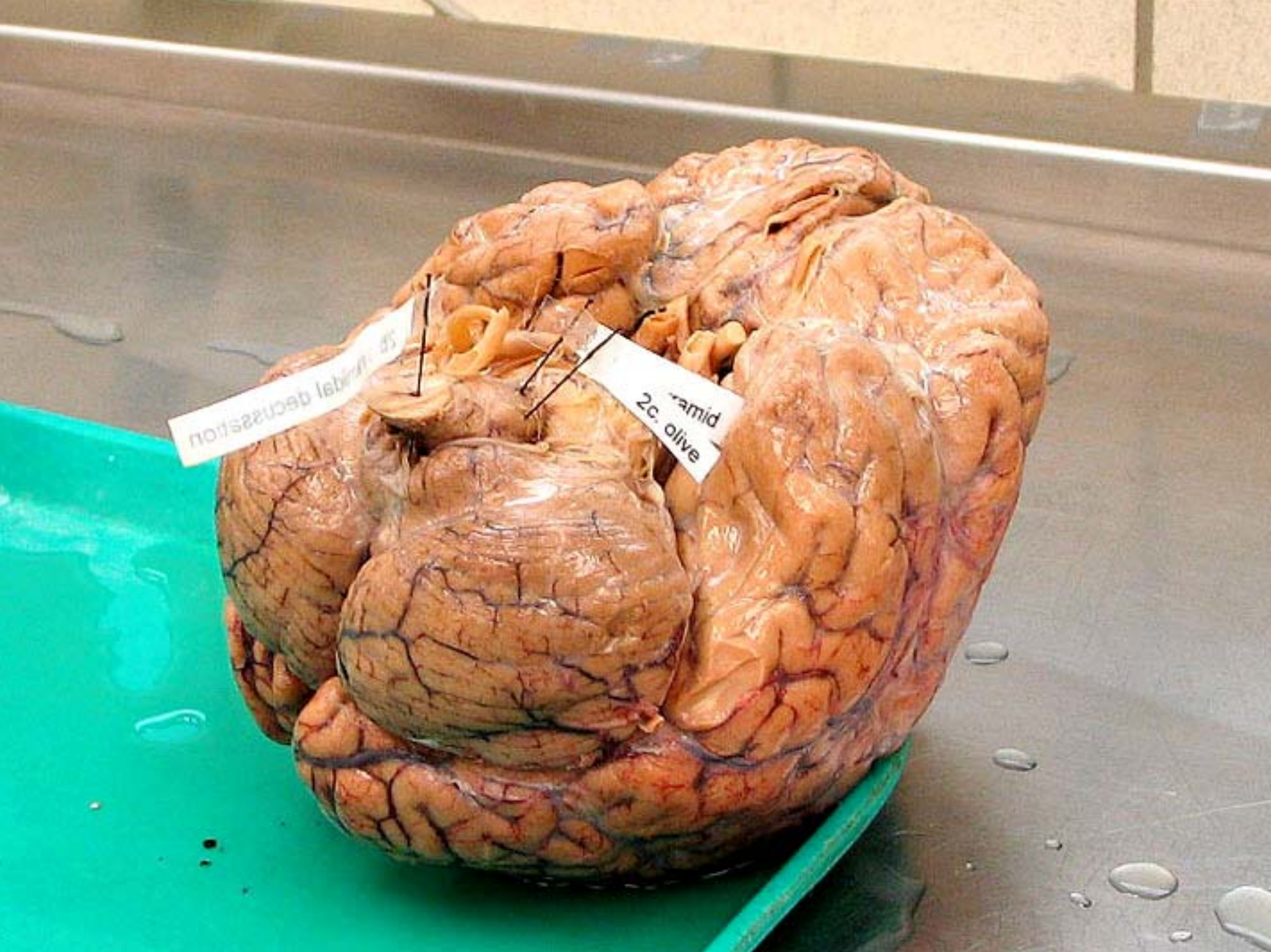
Medical Neuroscience – Spring 2004

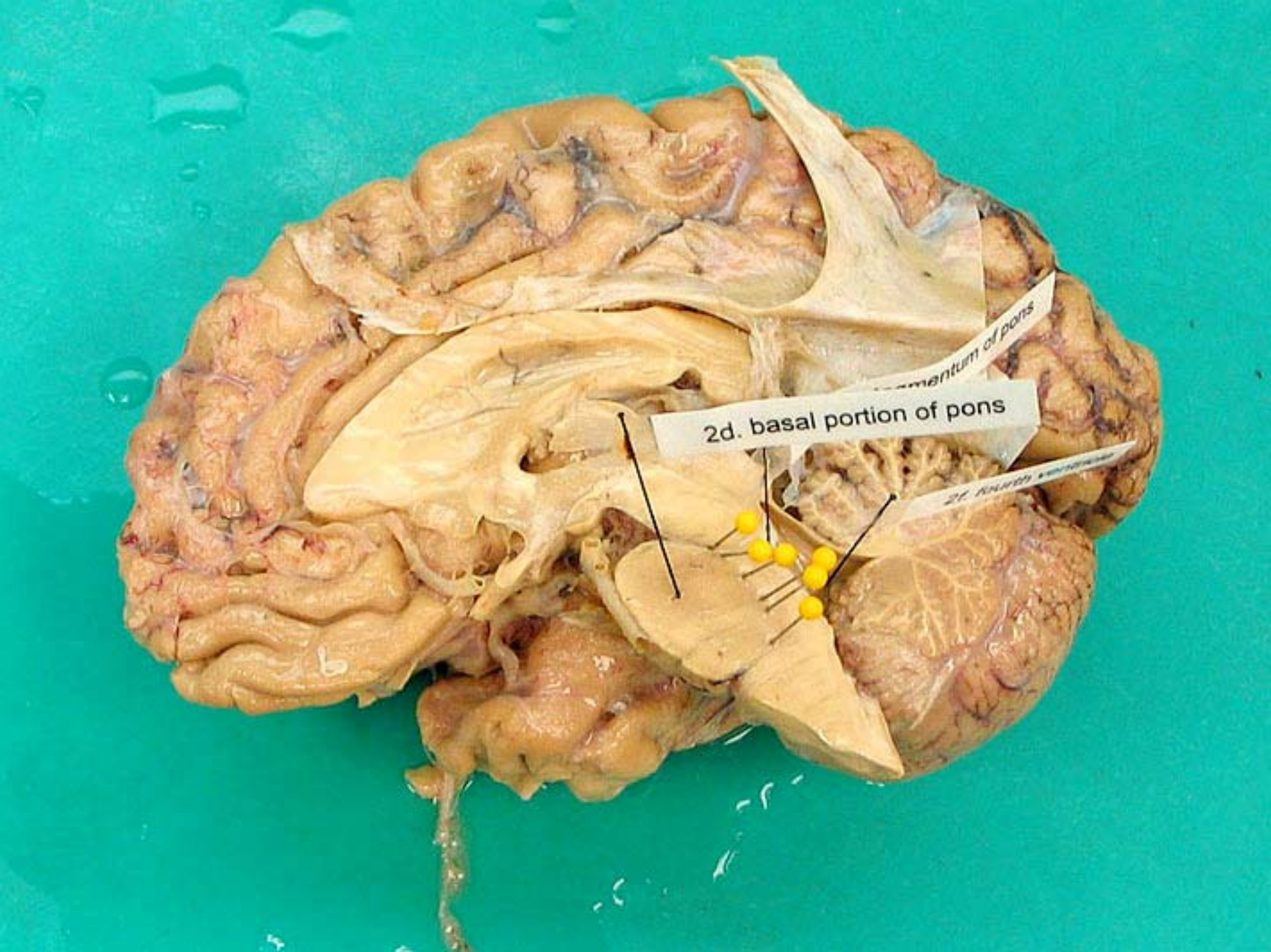
Laboratory Objectives

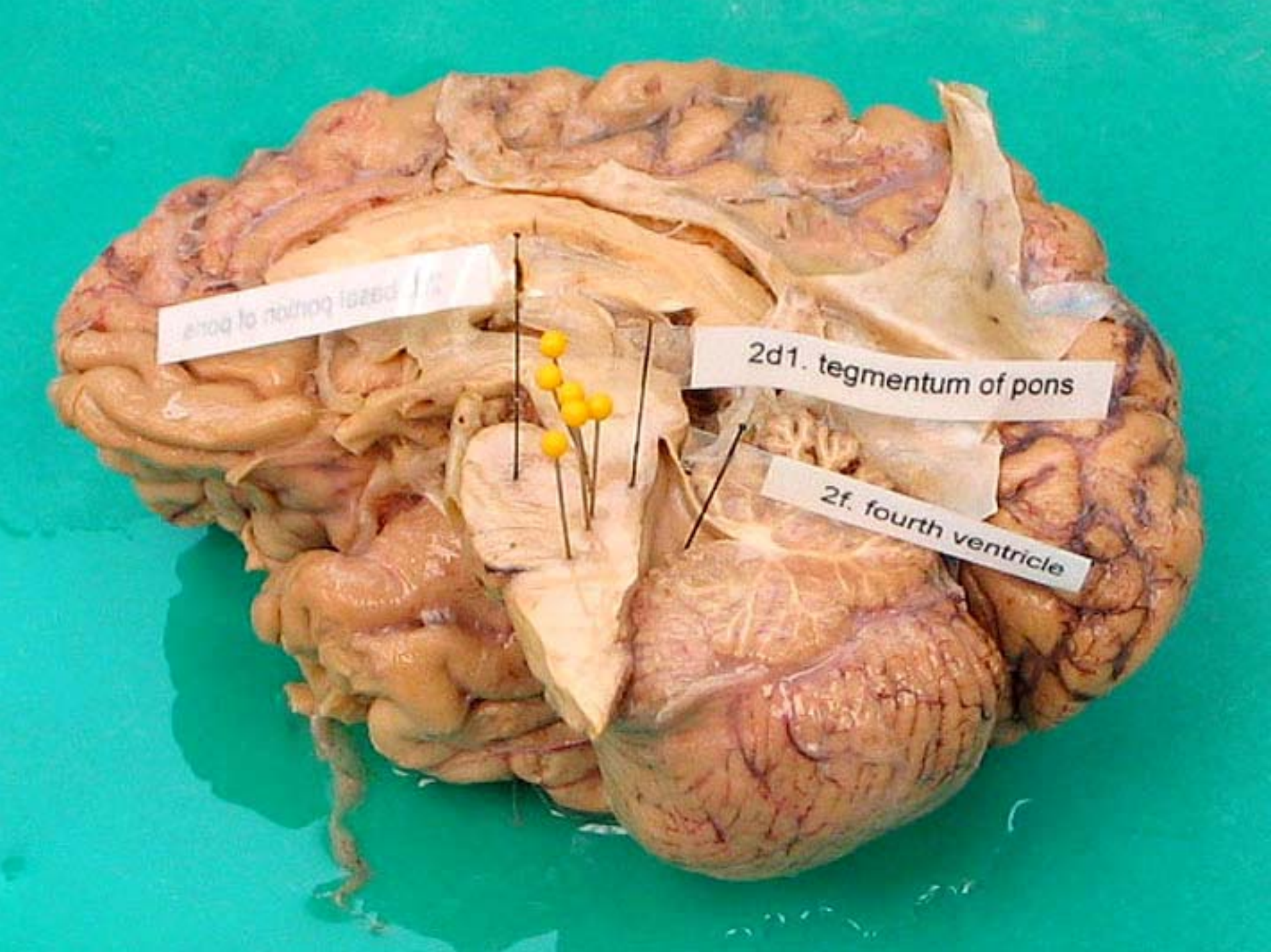
Brainstem and Cerebral Circulation

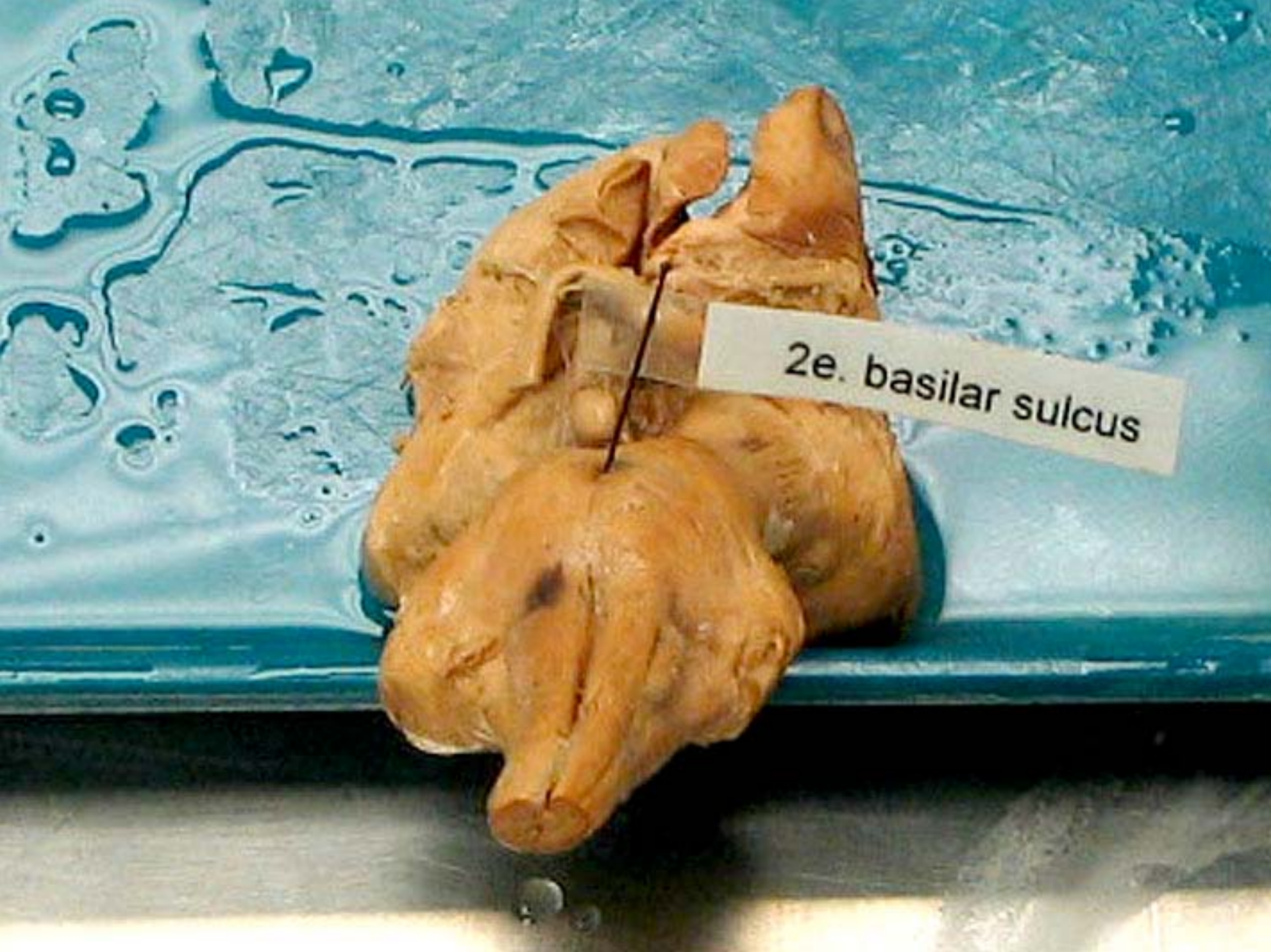

2a. pyramid

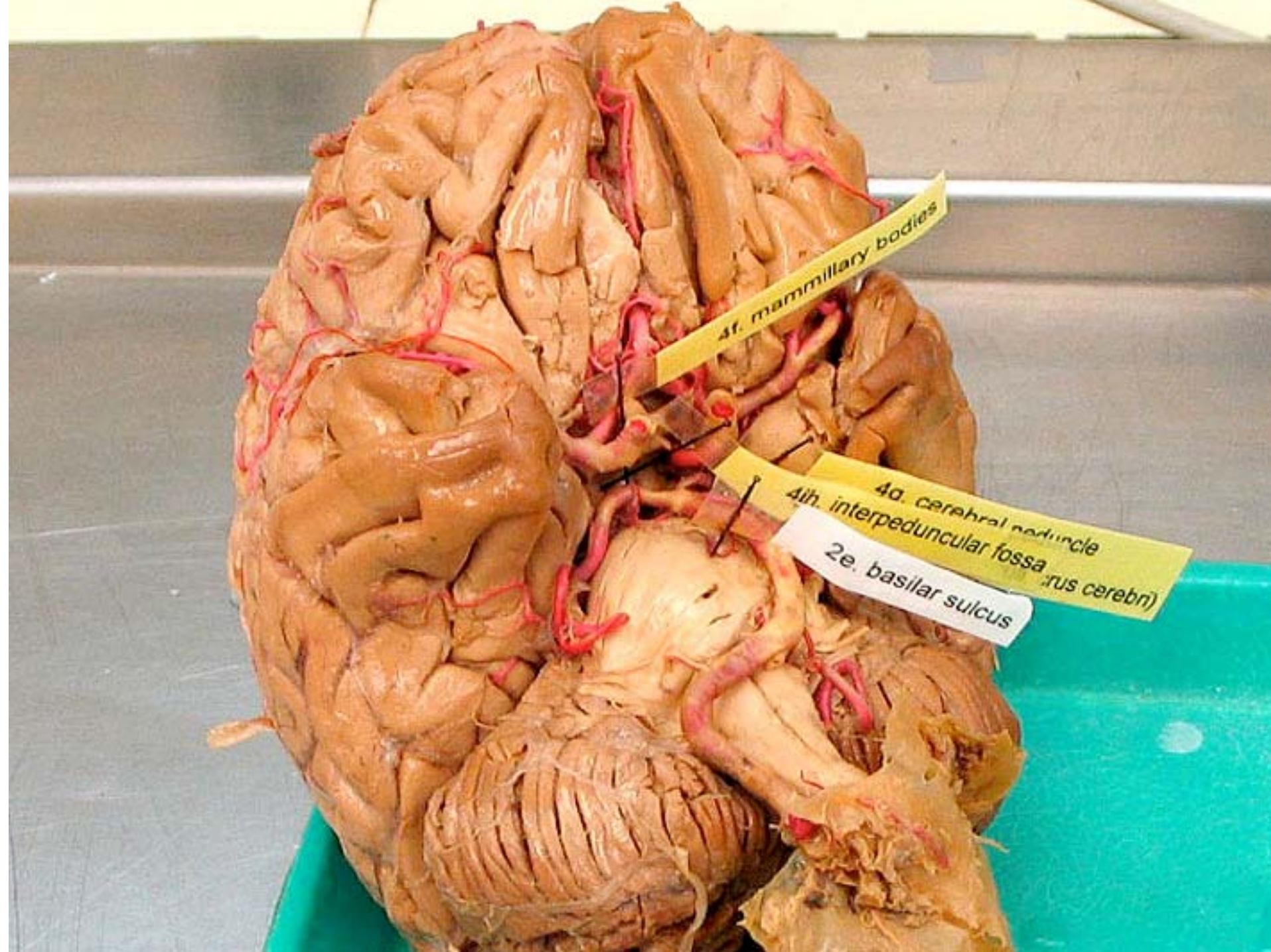

2b. pyramidal decussation
pyramid

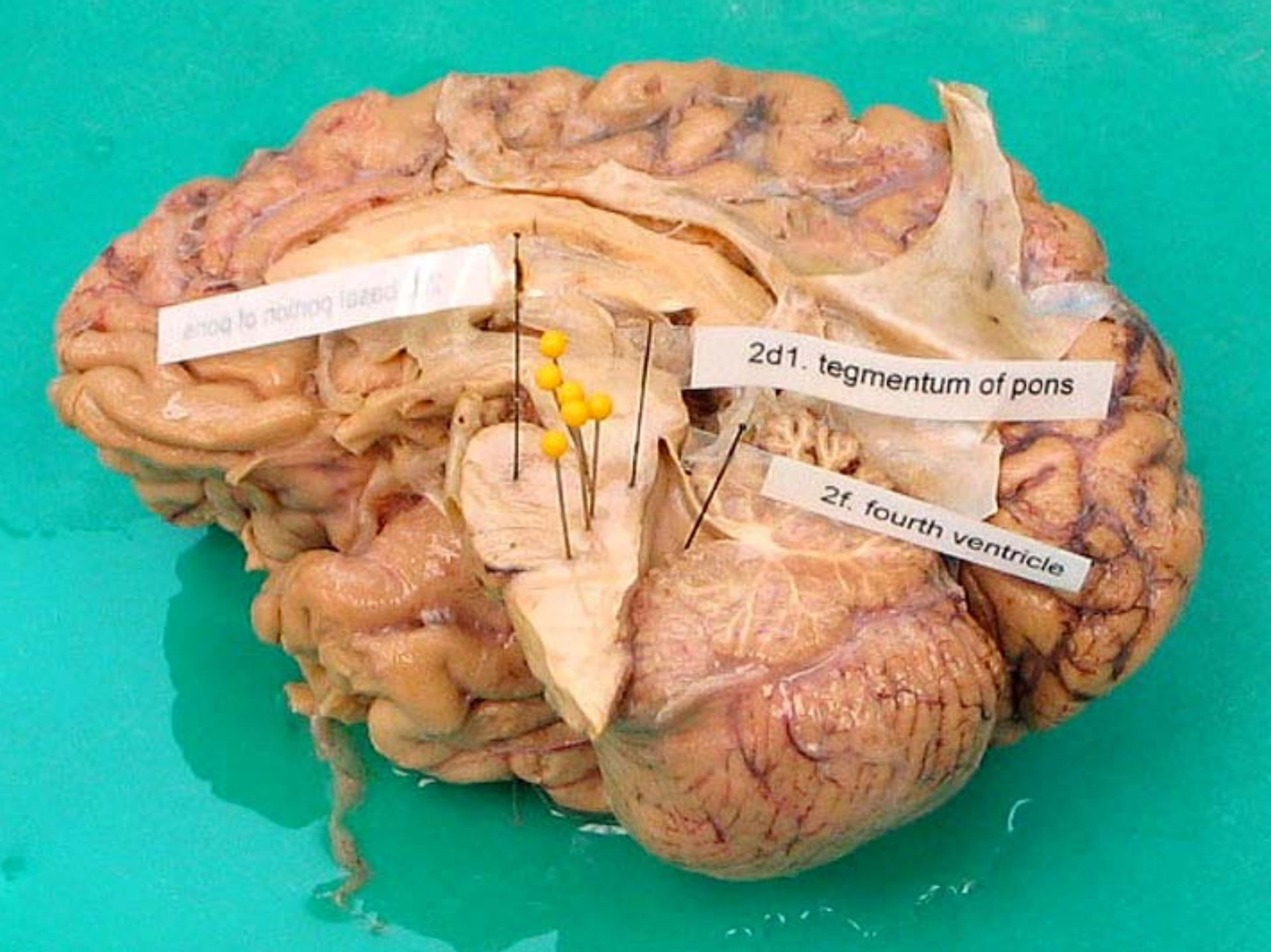

2c. olive


2d. basal portion of pons

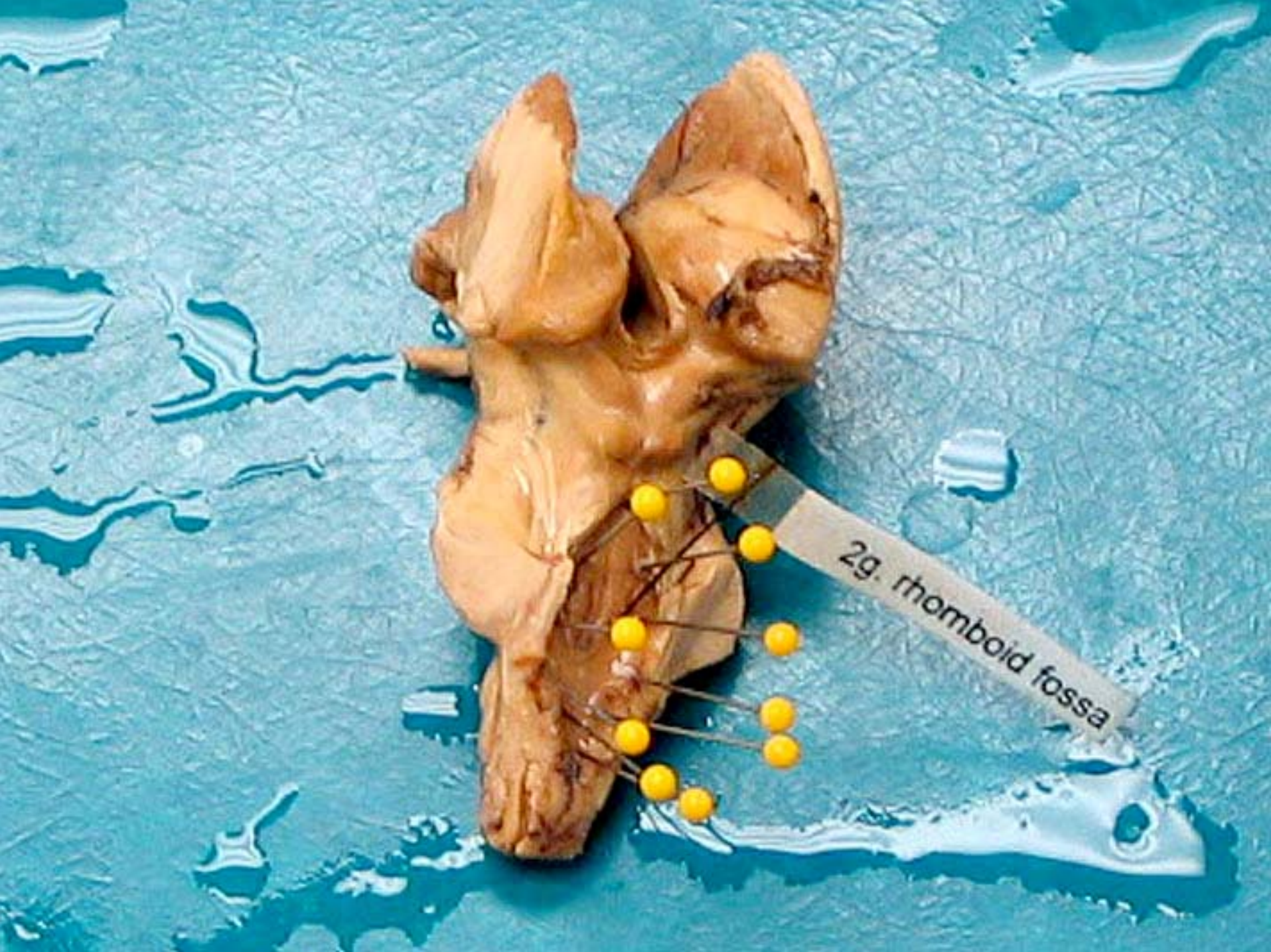

2d1. tegmentum of pons
2f. fourth ventricle

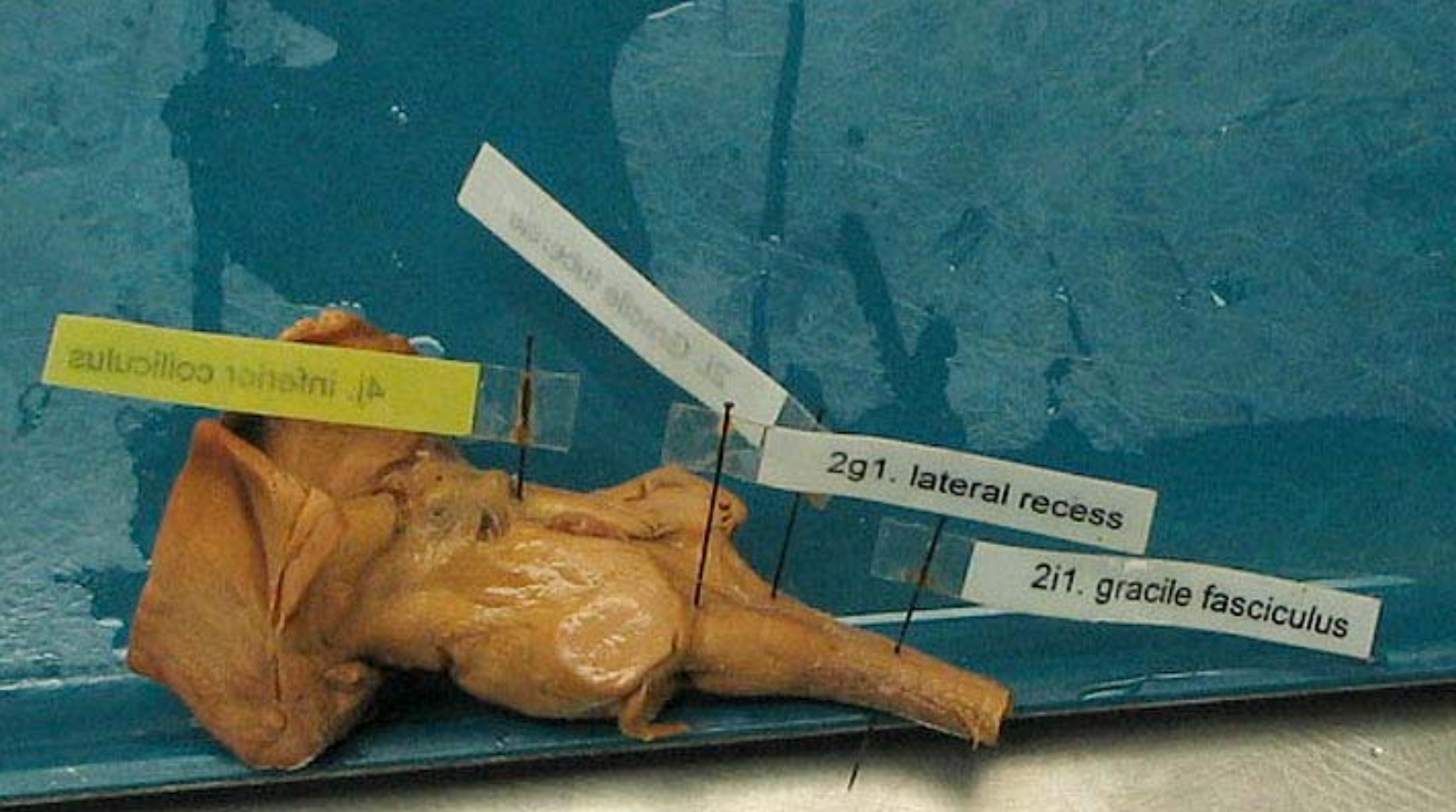

2e. basilar sulcus

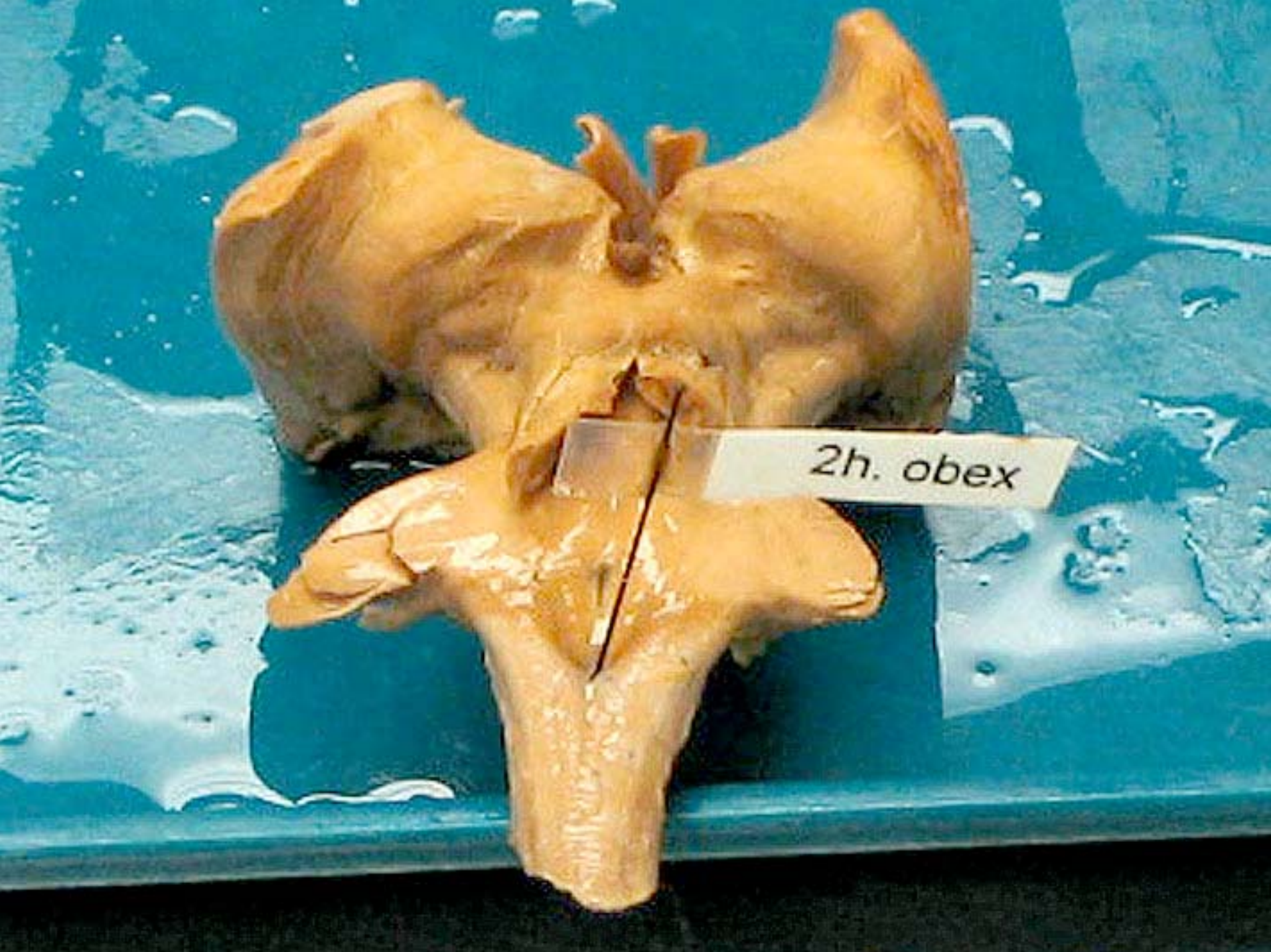

4f. mammillary bodies
4d. cerebral peduncle
4ih. interpeduncular fossa
2e. basilar sulcus

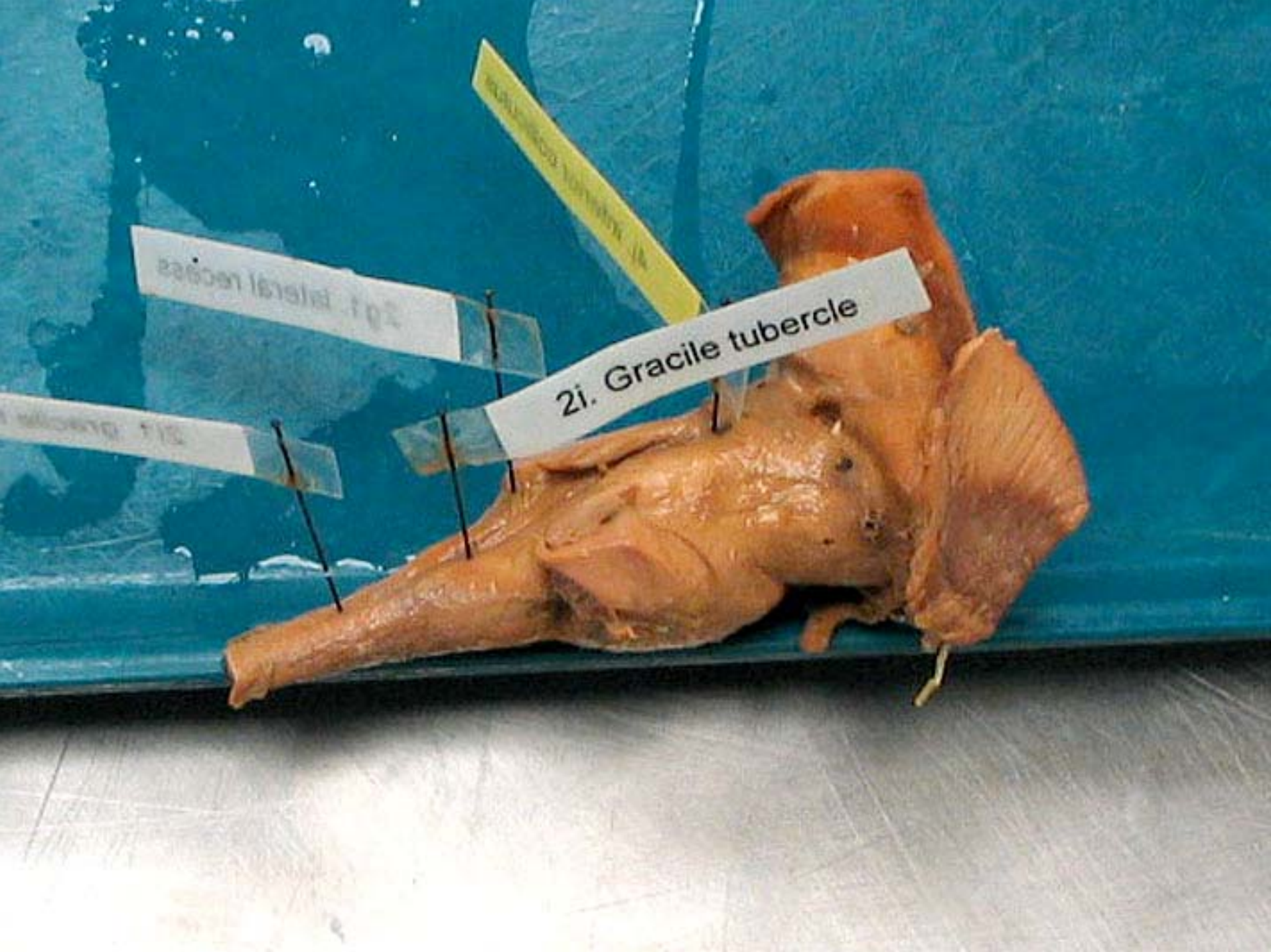

2d1. tegmentum of pons
2f. fourth ventricle

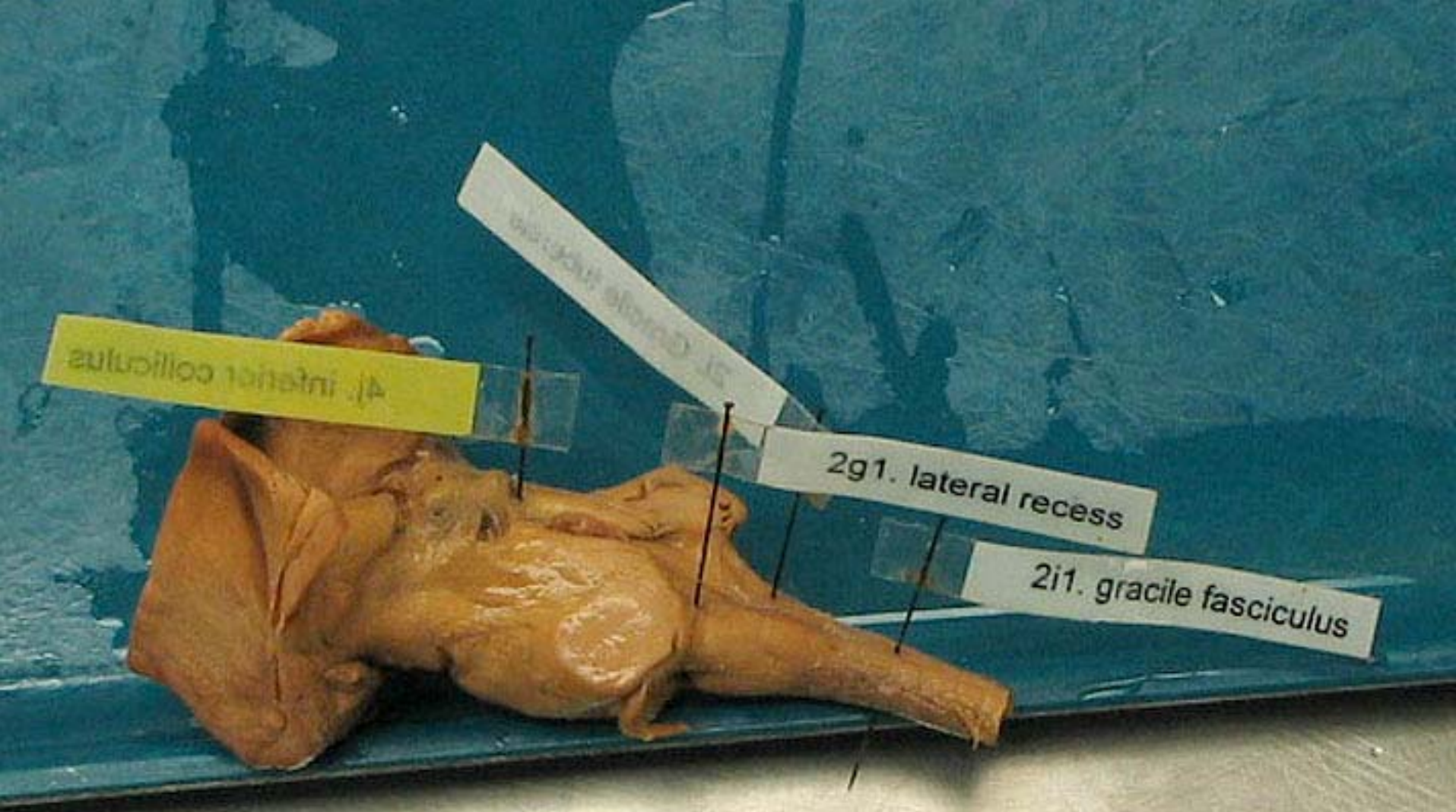

2f1. choroid plexus

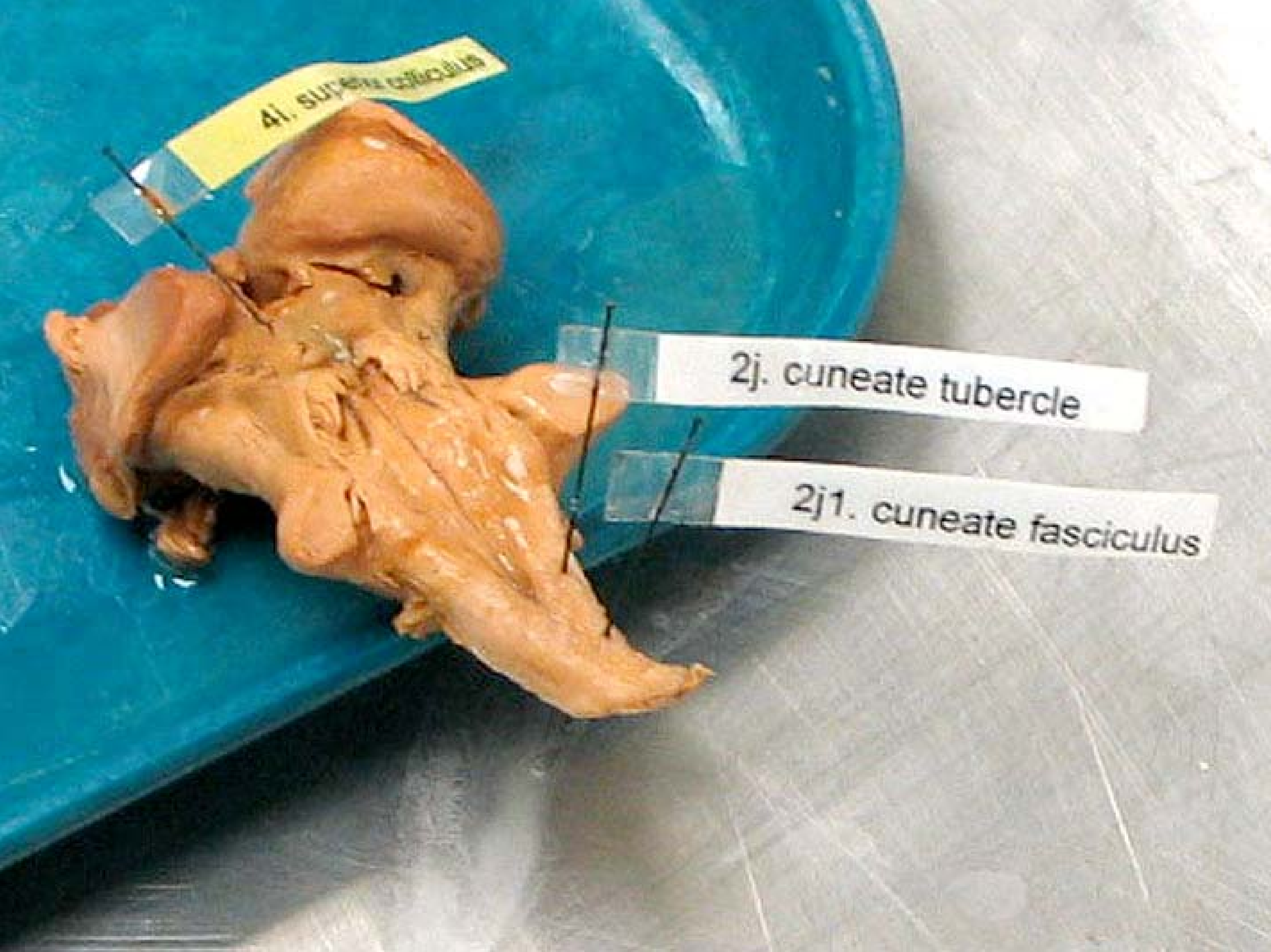

2g. rhomboid fossa

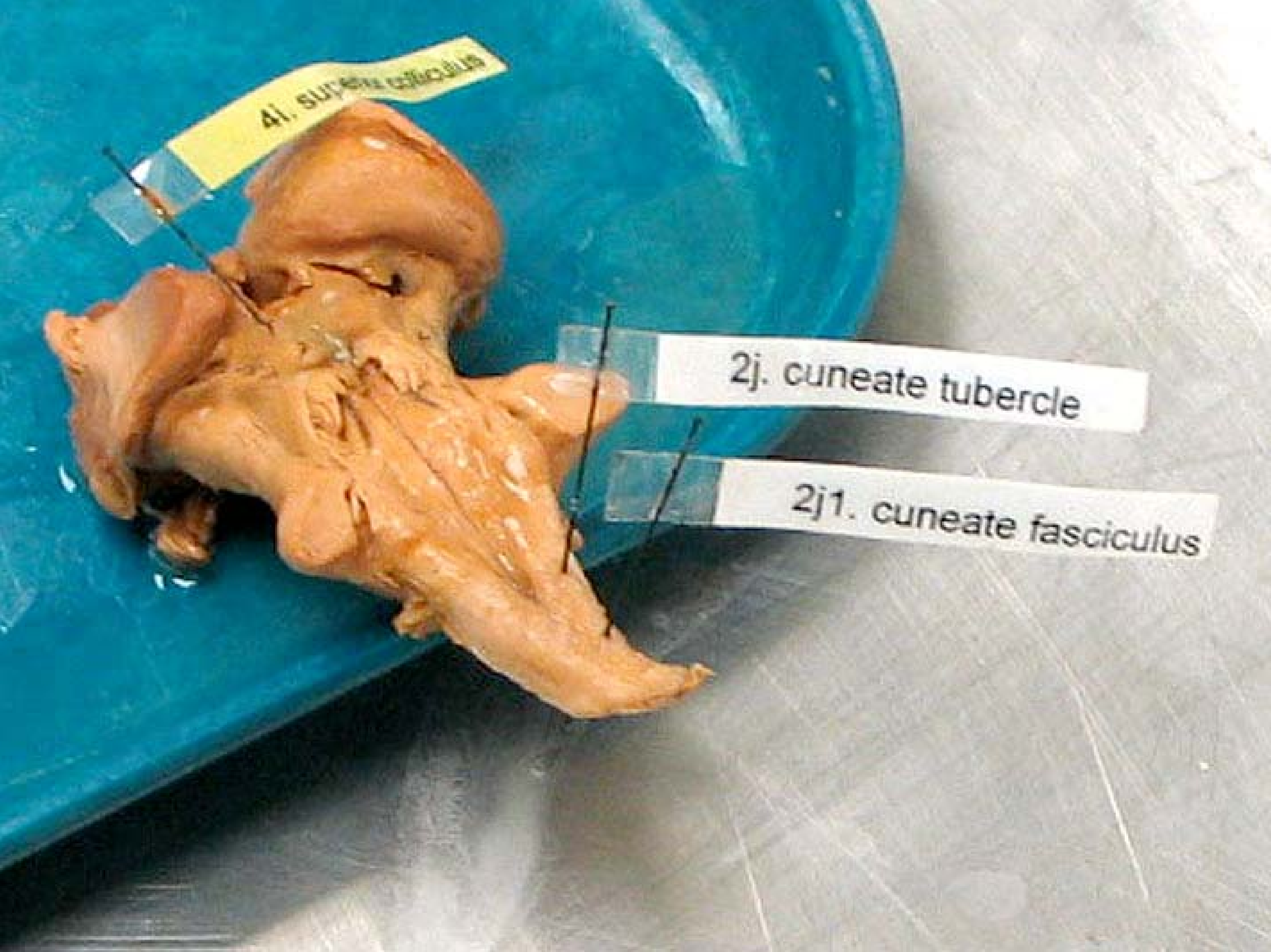

4i. inferior colliculus
2g1. lateral recess
2i1. gracile fasciculus

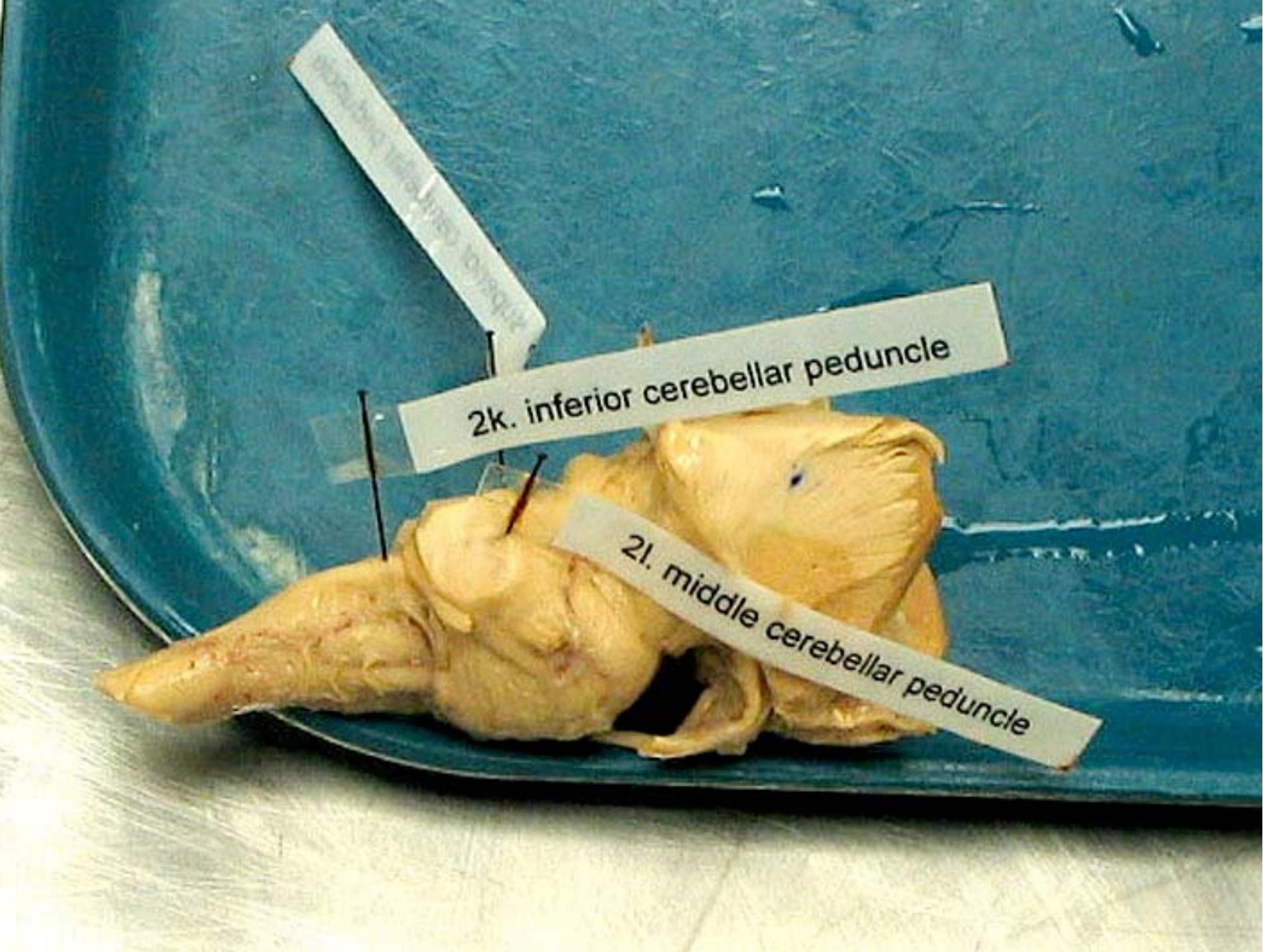

2h. obex

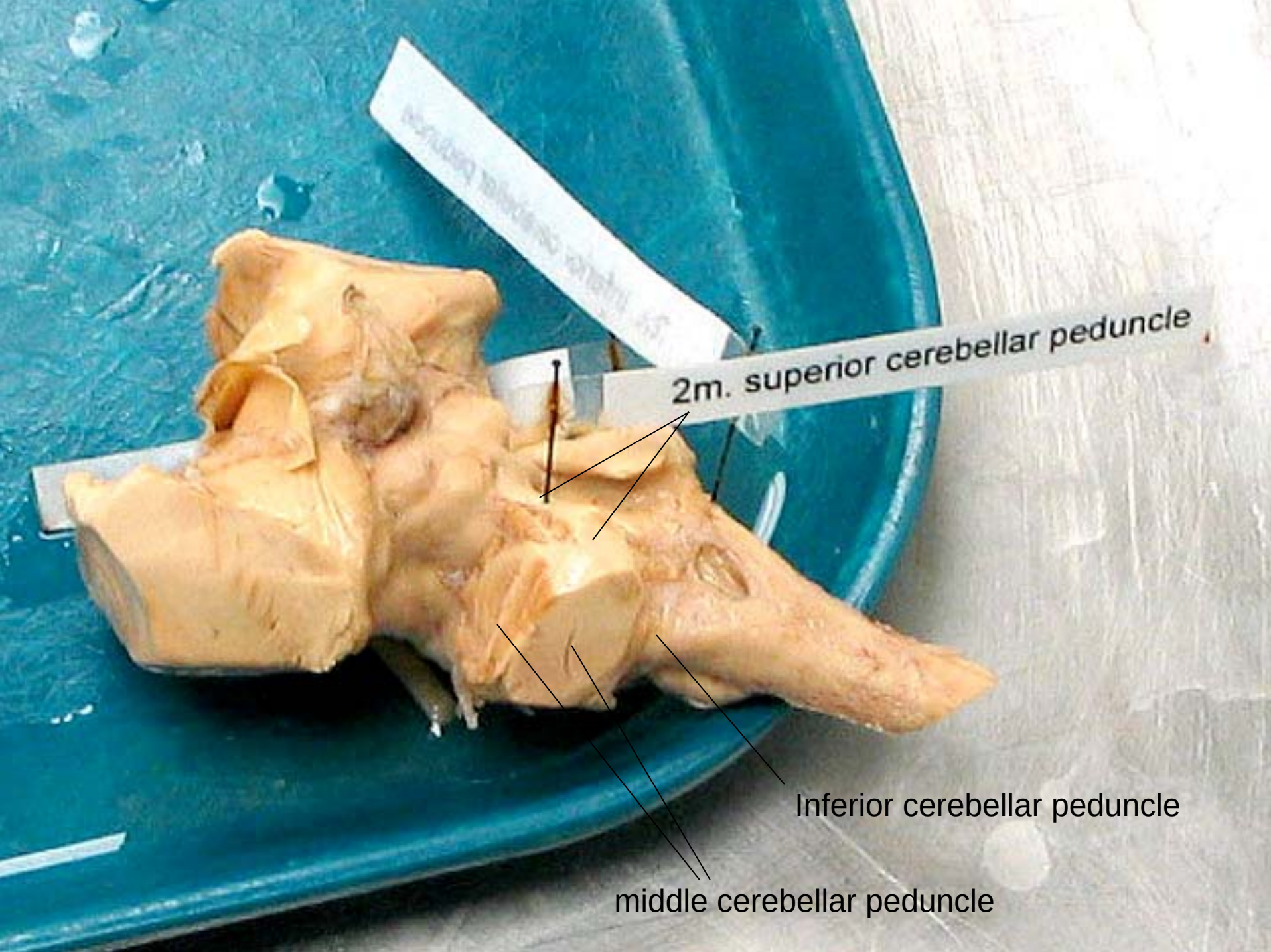

2i. Gracile tubercle

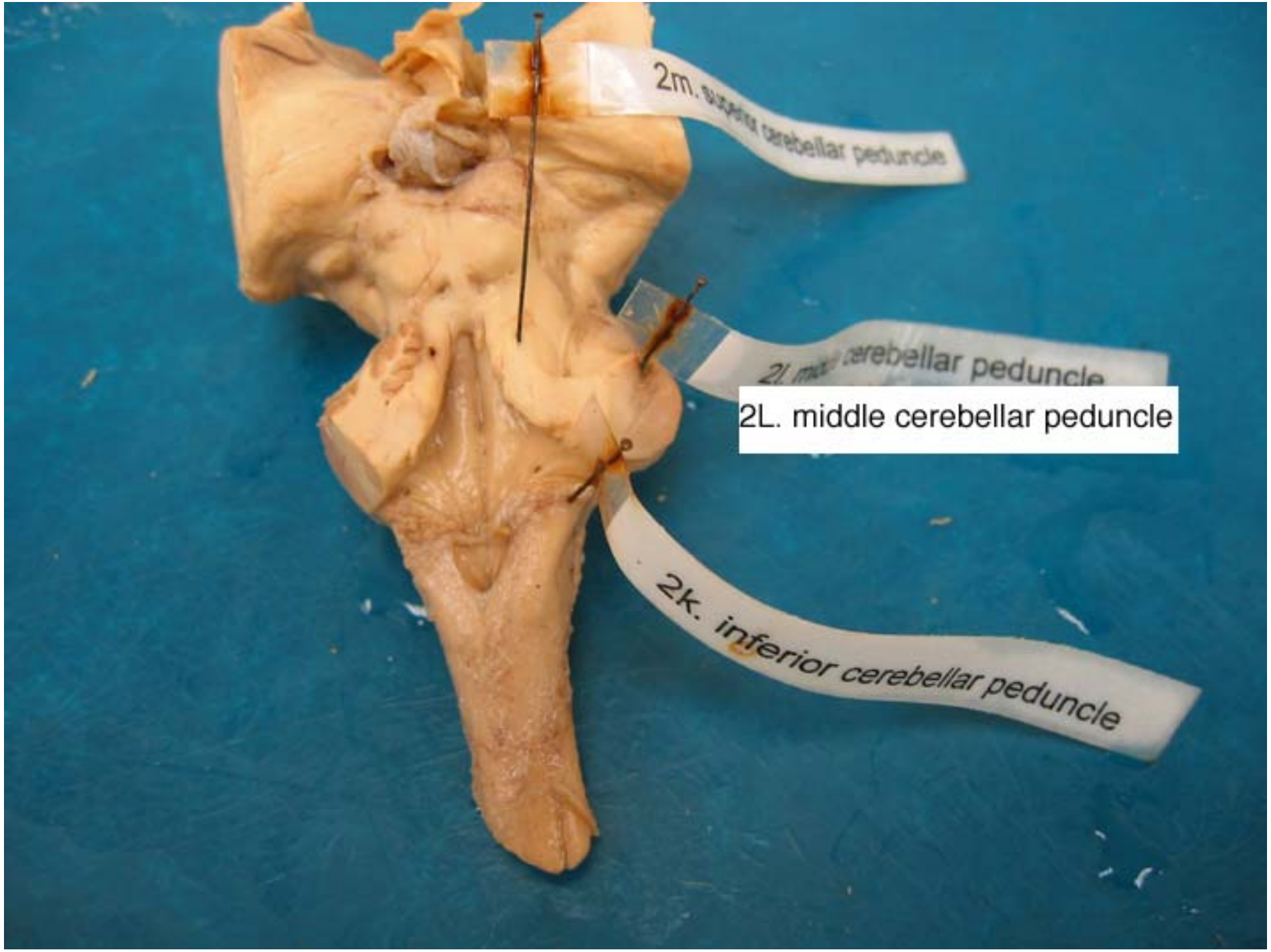

4i. inferior colliculus
2g1. lateral recess
2i1. gracile fasciculus


2j. cuneate tubercle
2j1. cuneate fasciculus

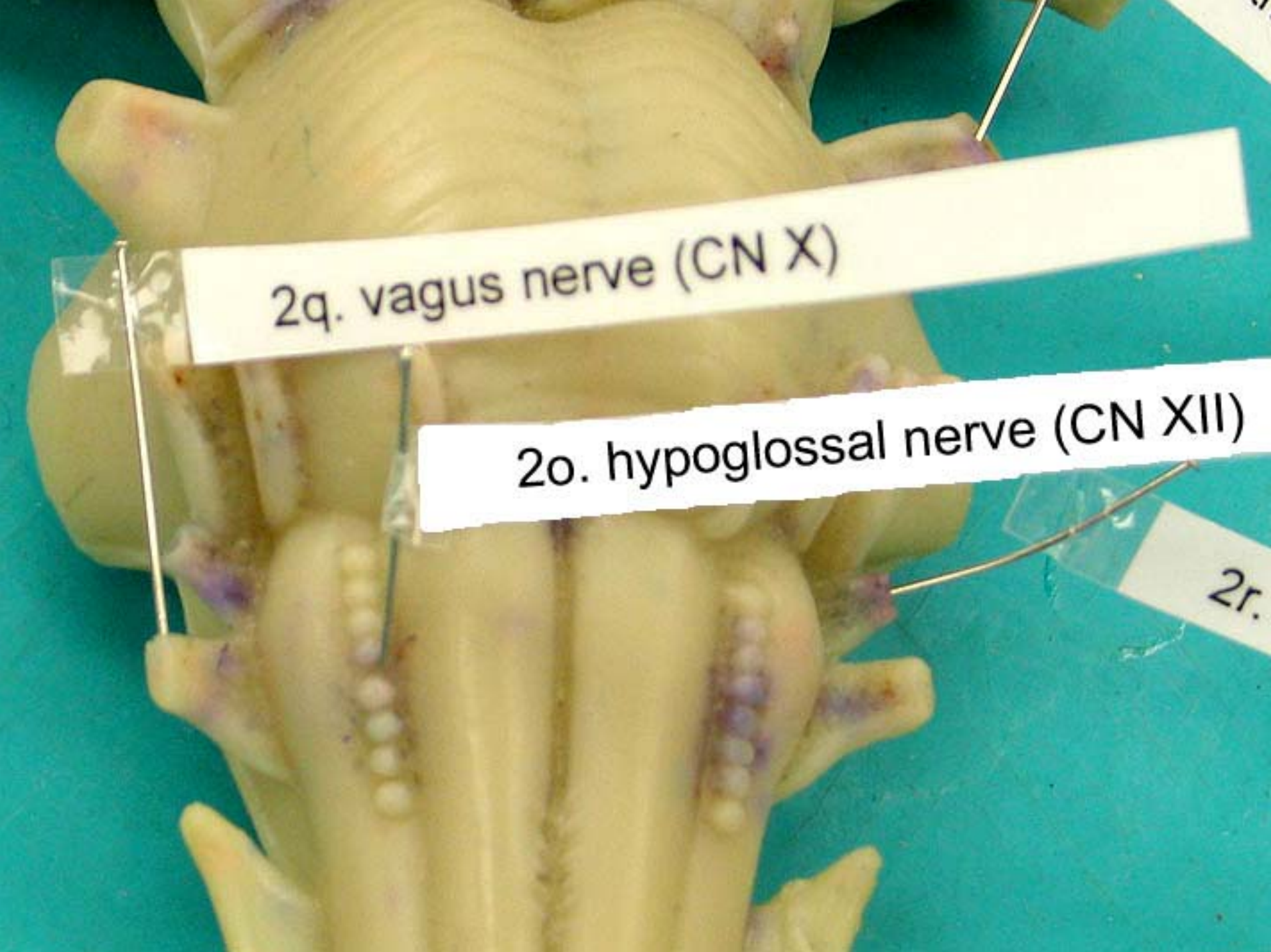

4l. superior colliculus
2j. cuneate tubercle
2j1. cuneate fasciculus


2k. inferior cerebellar peduncle
2l. middle cerebellar peduncle

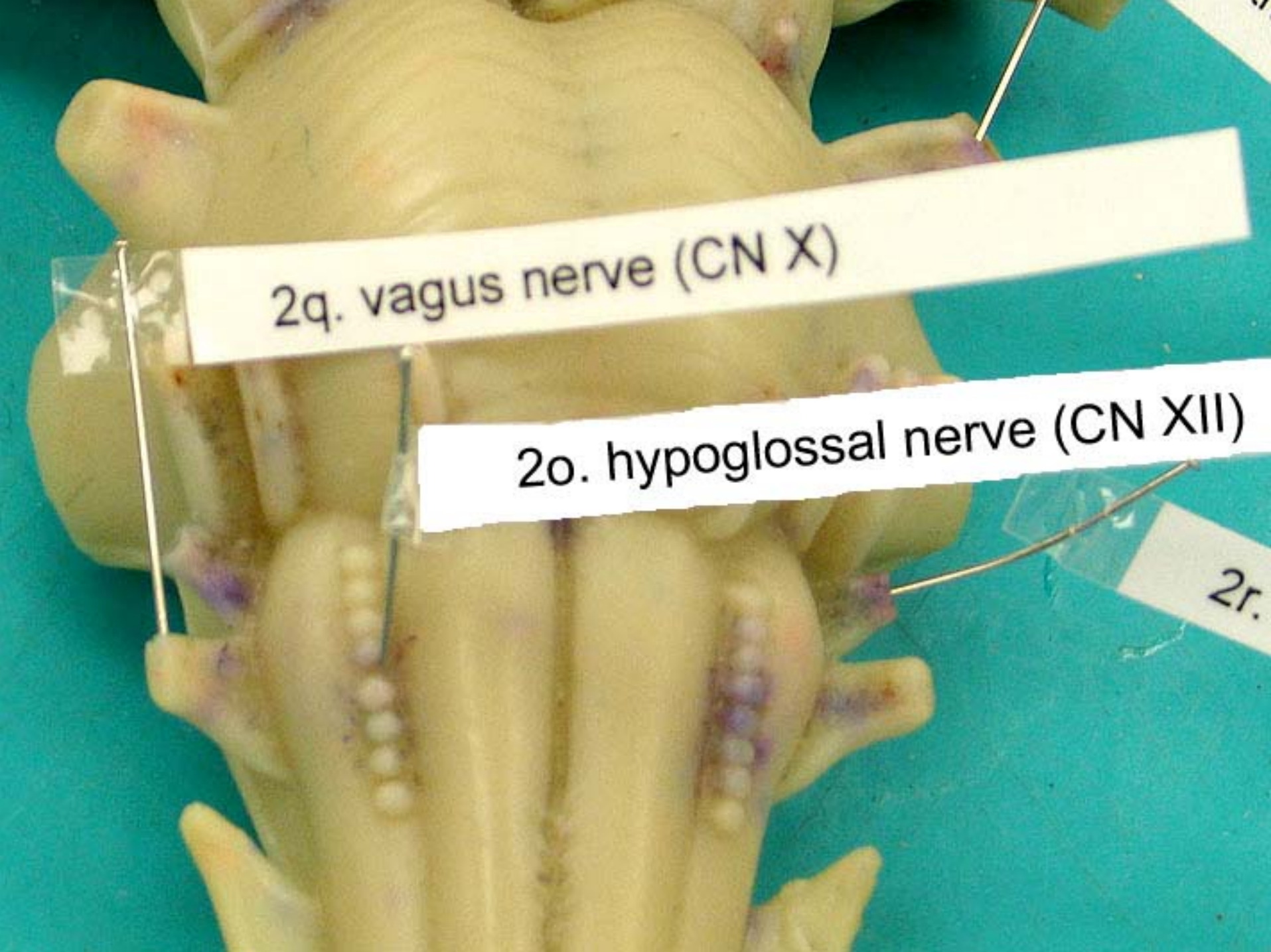

2m. superior cerebellar peduncle
Inferior cerebellar peduncle
middle cerebellar peduncle

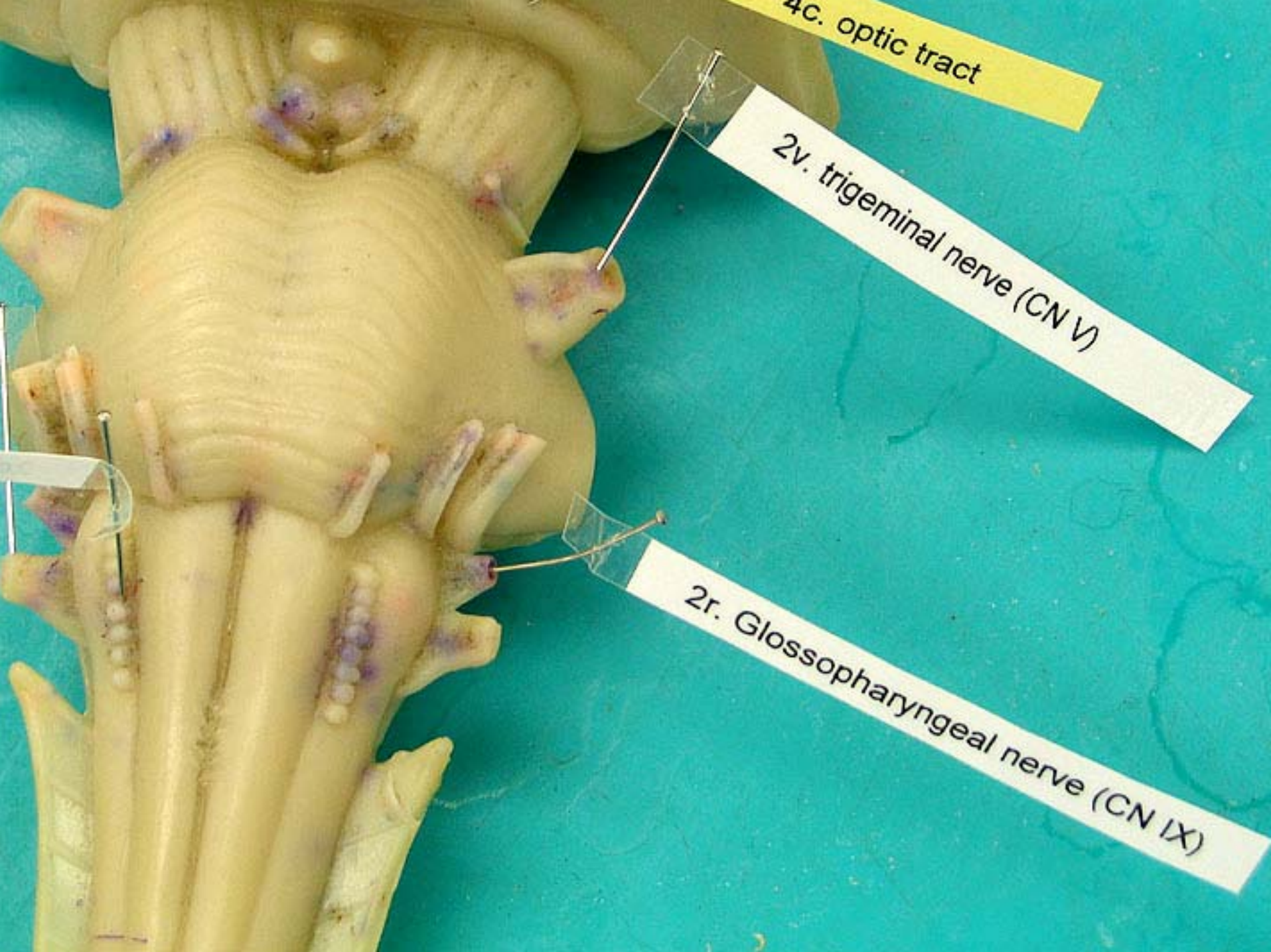

2m. superior cerebellar peduncle
2L. middle cerebellar peduncle
2k. inferior cerebellar peduncle

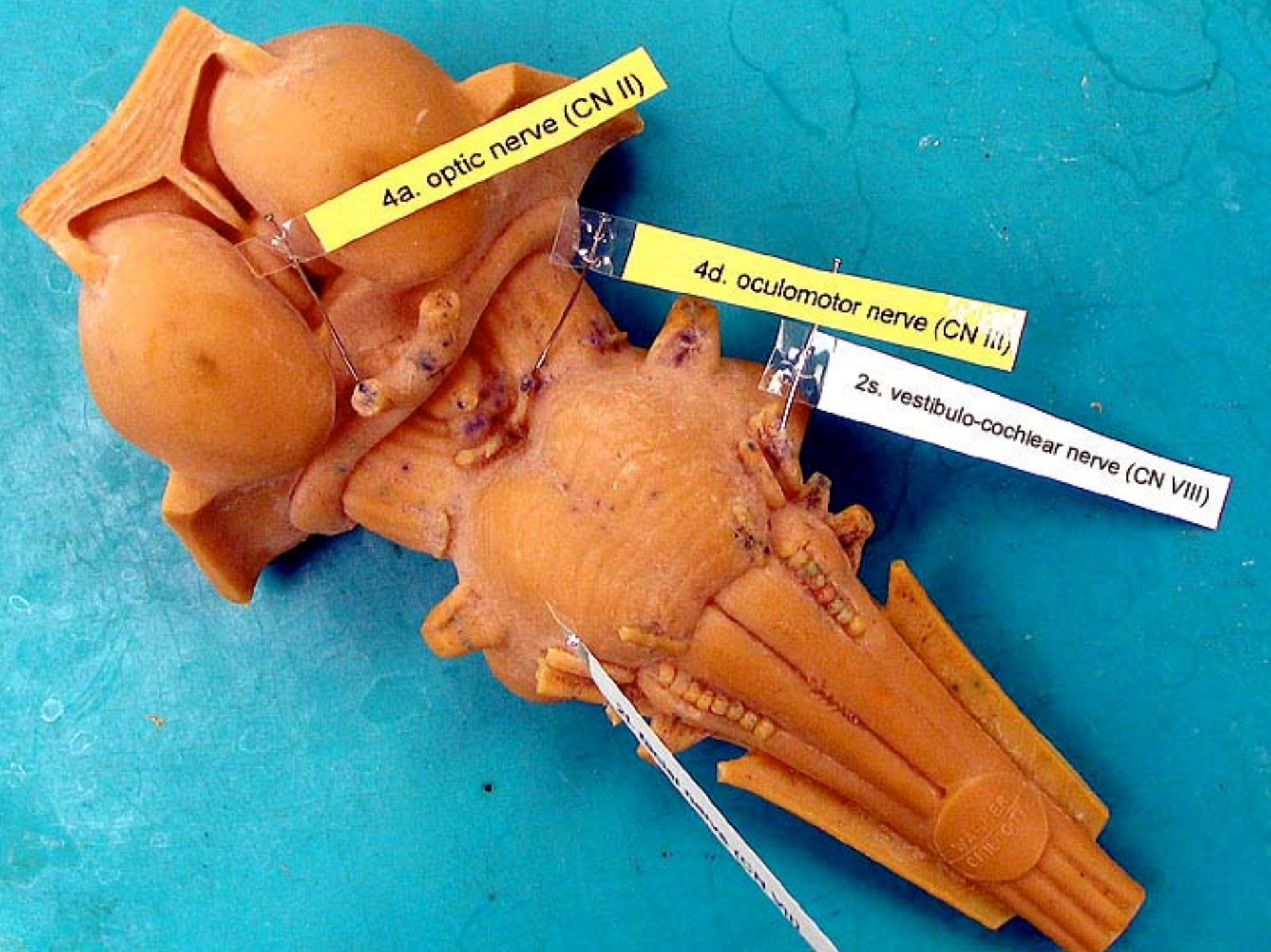

2n. superior medullary velum


2q. vagus nerve (CN X)
2o. hypoglossal nerve (CN XII)
2r.


4e. trochlear nerve (CN IV)
2u. abducens nerve (CN VI)
2p. accessory nerve (CN XI)


2q. vagus nerve (CN X)
2o. hypoglossal nerve (CN XII)
2r.

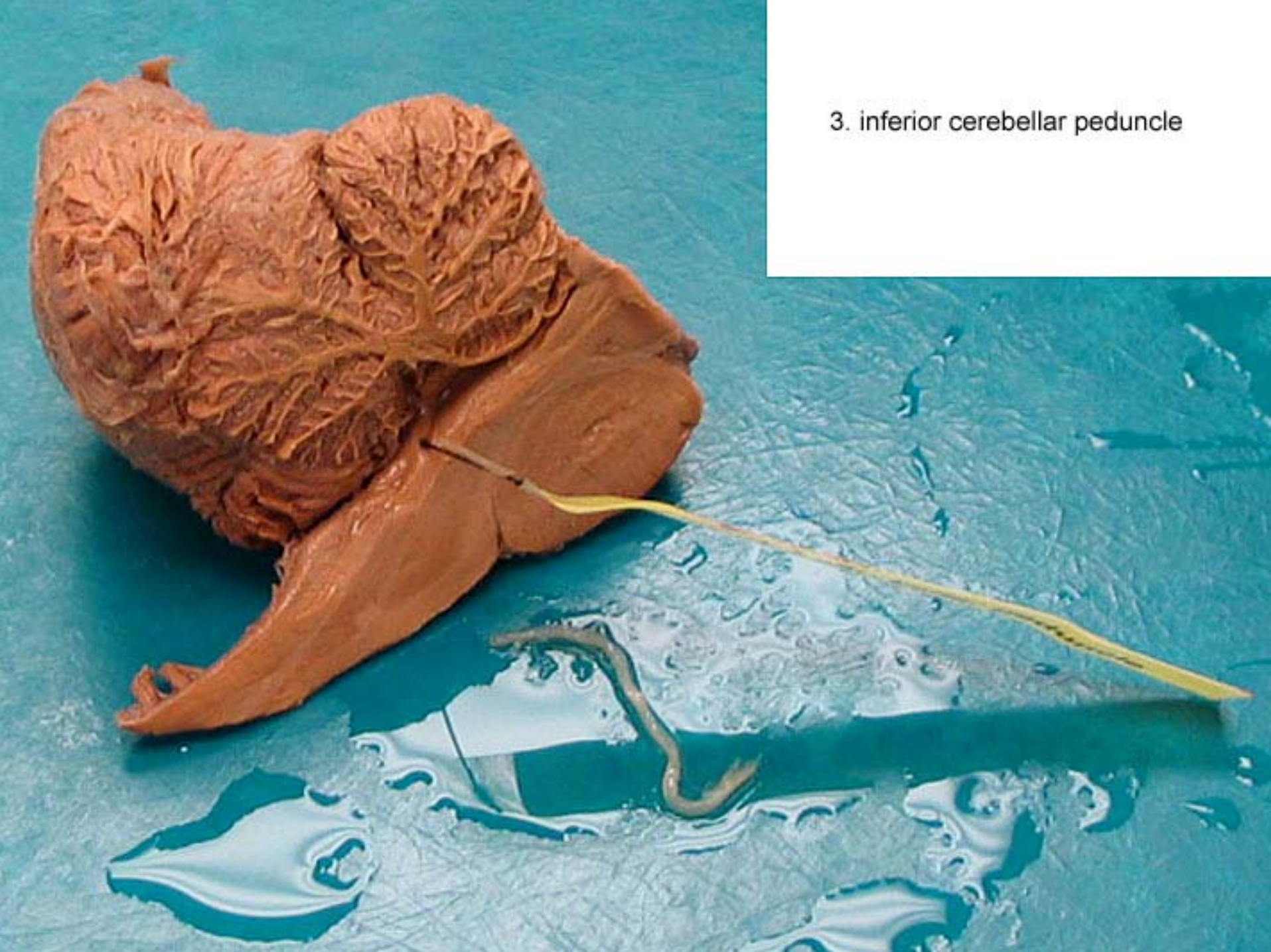

4c. optic tract
2v. trigeminal nerve (CN V)
2r. Glossopharyngeal nerve (CN IX)


4a. optic nerve (CN II)
4d. oculomotor nerve (CN III)
2s. vestibulo-cochlear nerve (CN VIII)

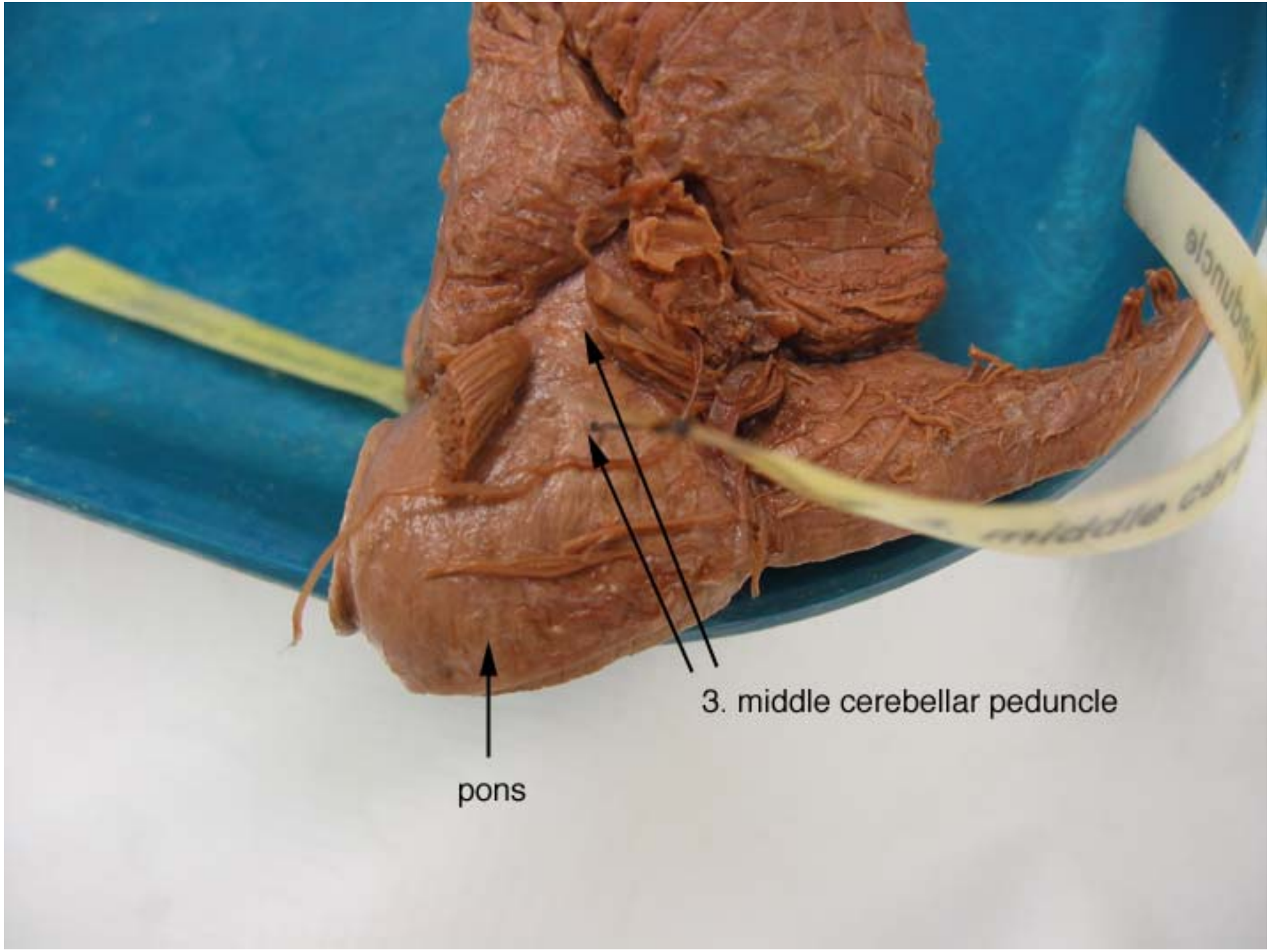
4a. optic nerve (CN II)
2t. facial nerve (CN VII)
2s. vestibulo-cochlear nerve (

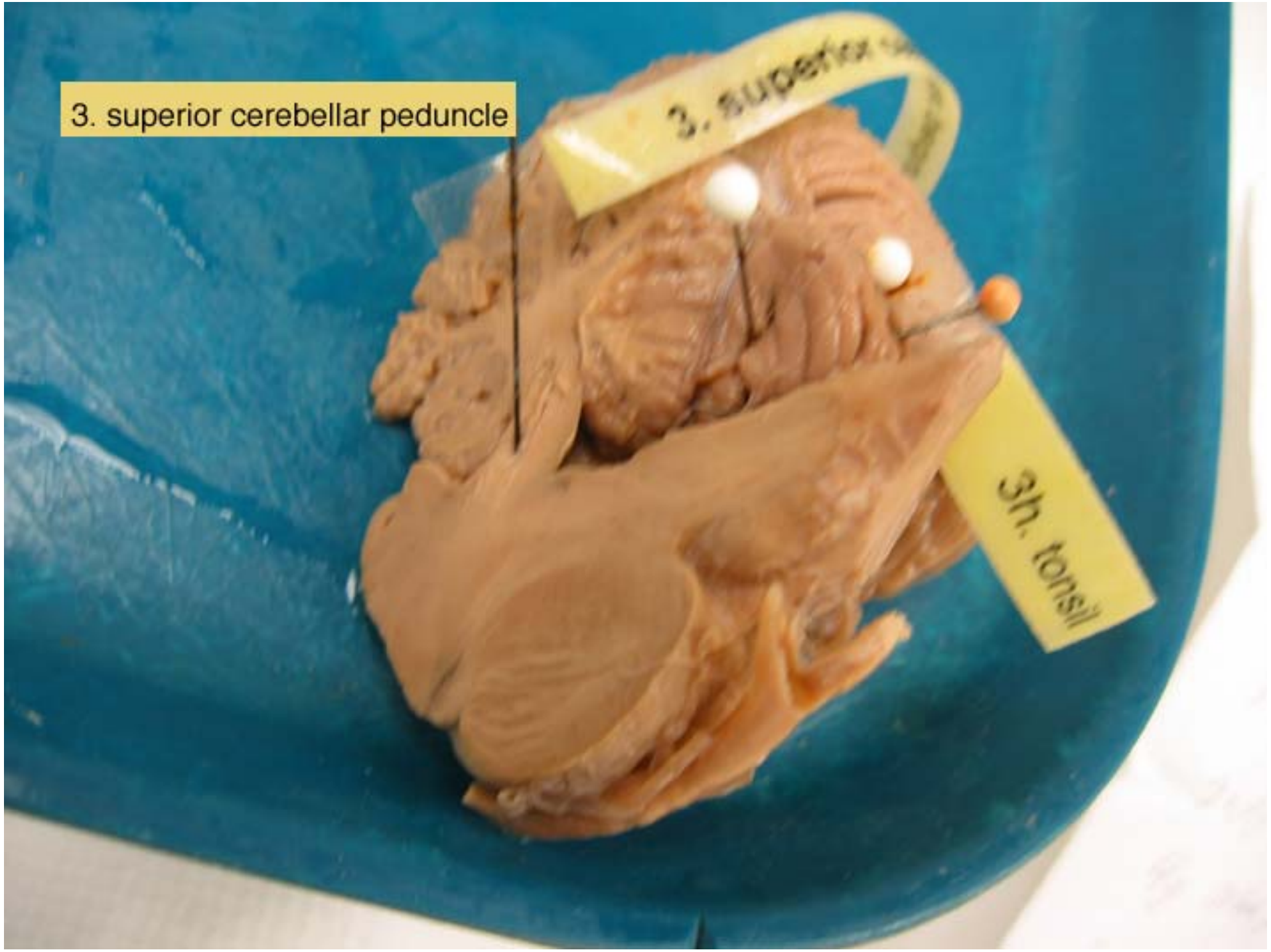

4e. trochlear nerve (CN IV)
2u. abducens nerve (CN VI)
2p. accessory nerve (CN XI)

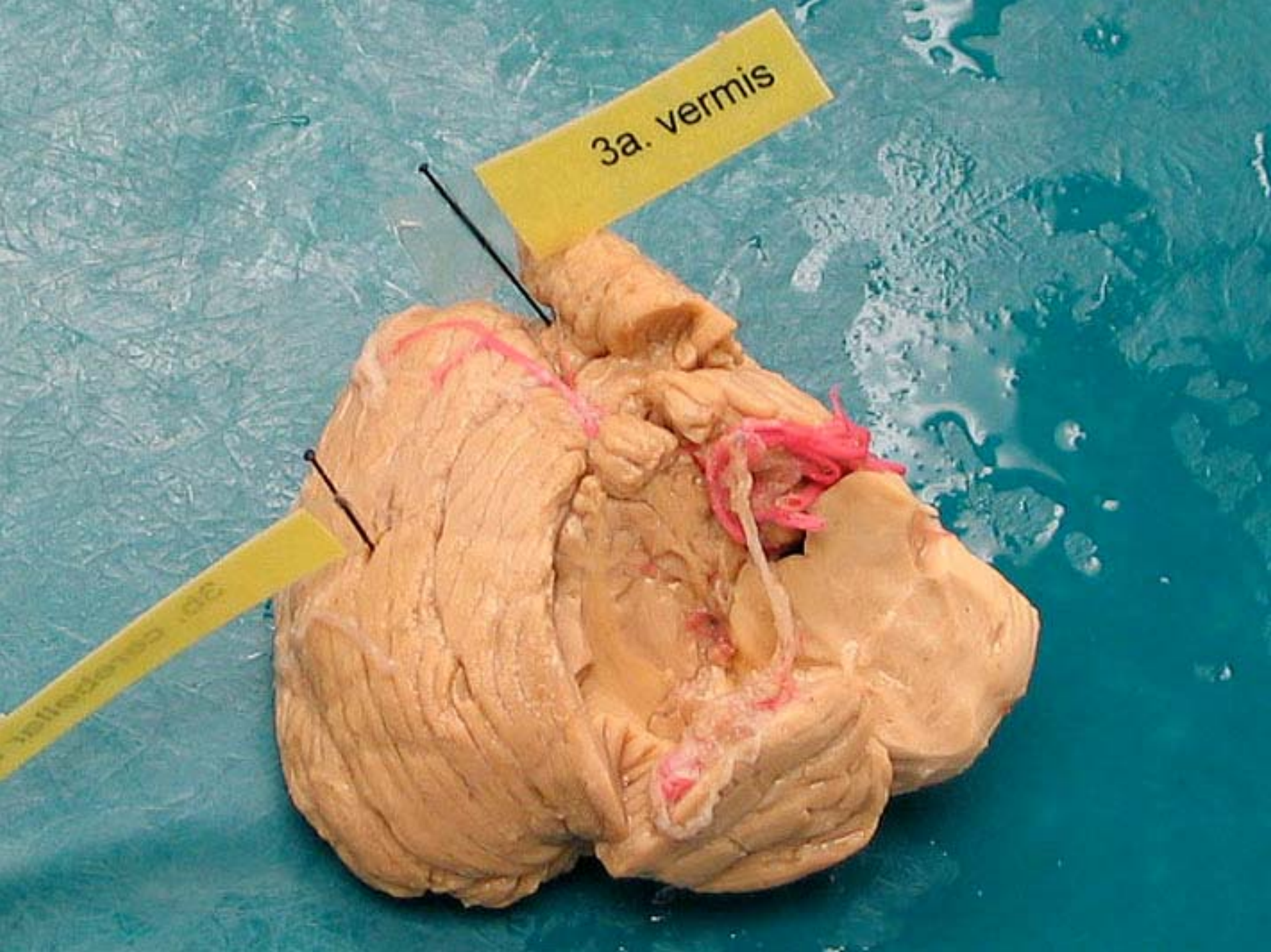

4c. optic tract
2v. trigeminal nerve (CN V)

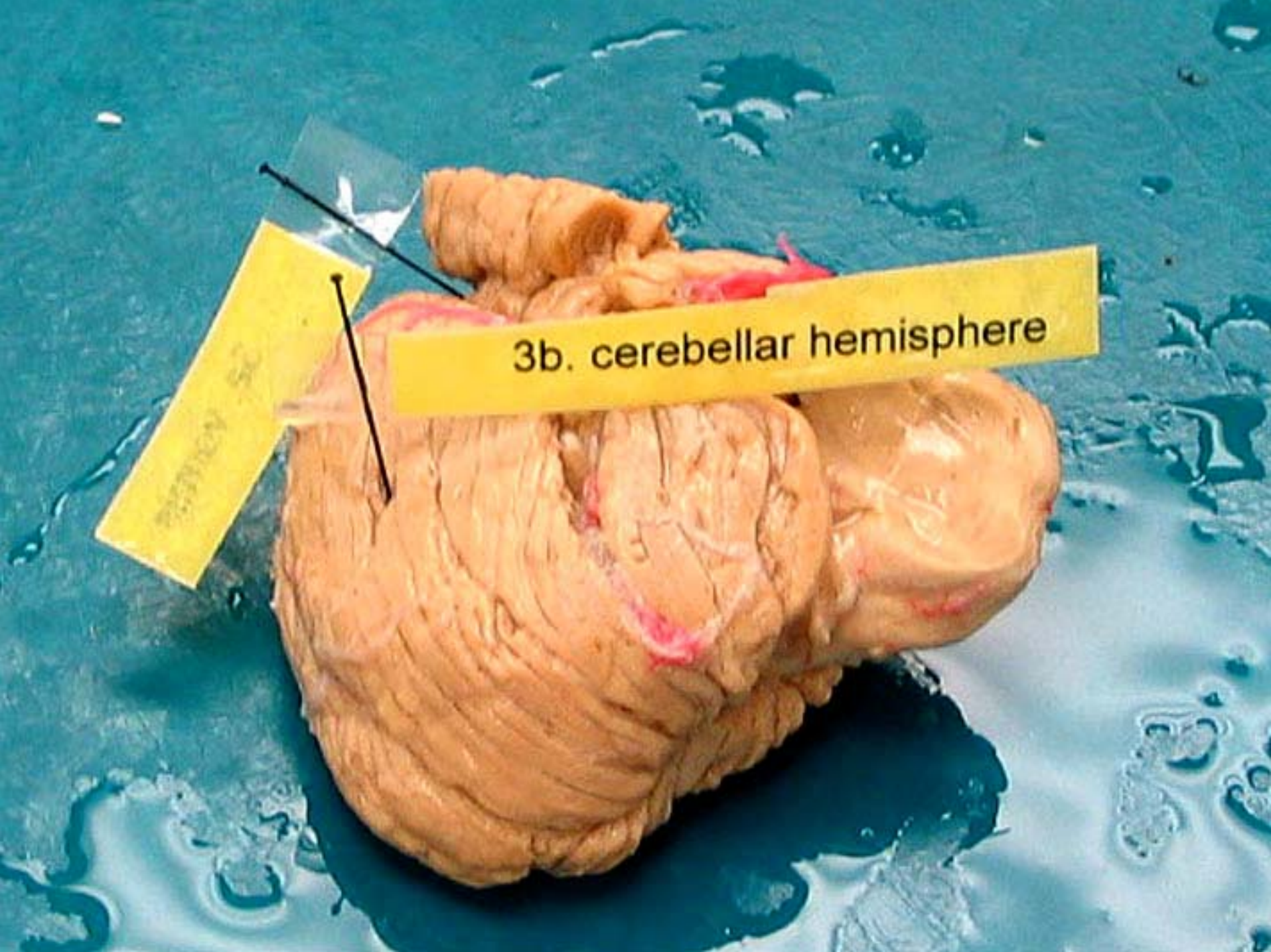


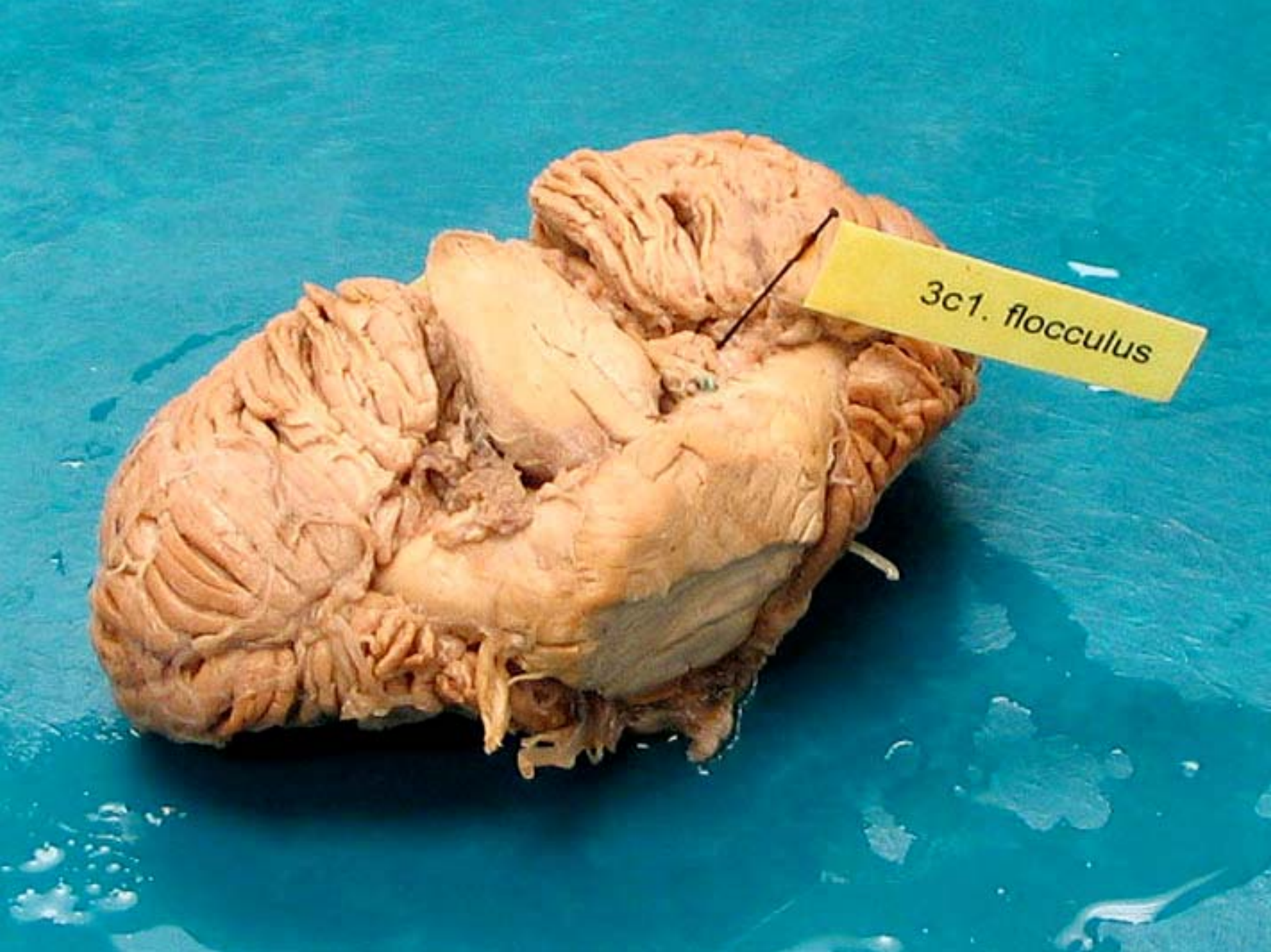
3. inferior cerebellar peduncle


3. middle cerebellar peduncle
pons

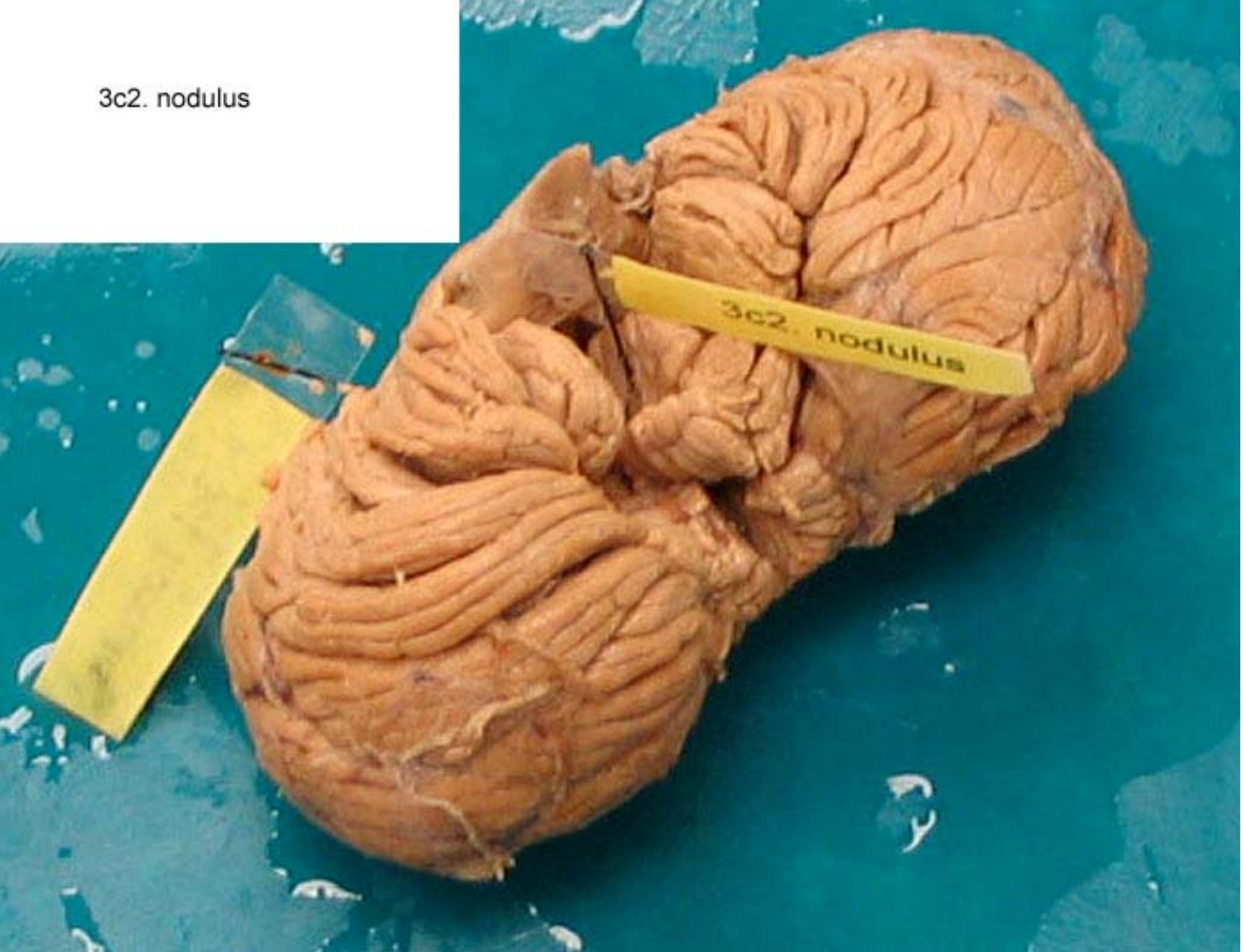

3. superior cerebellar peduncle
3. superior
3h. tonsil


3a. vermis

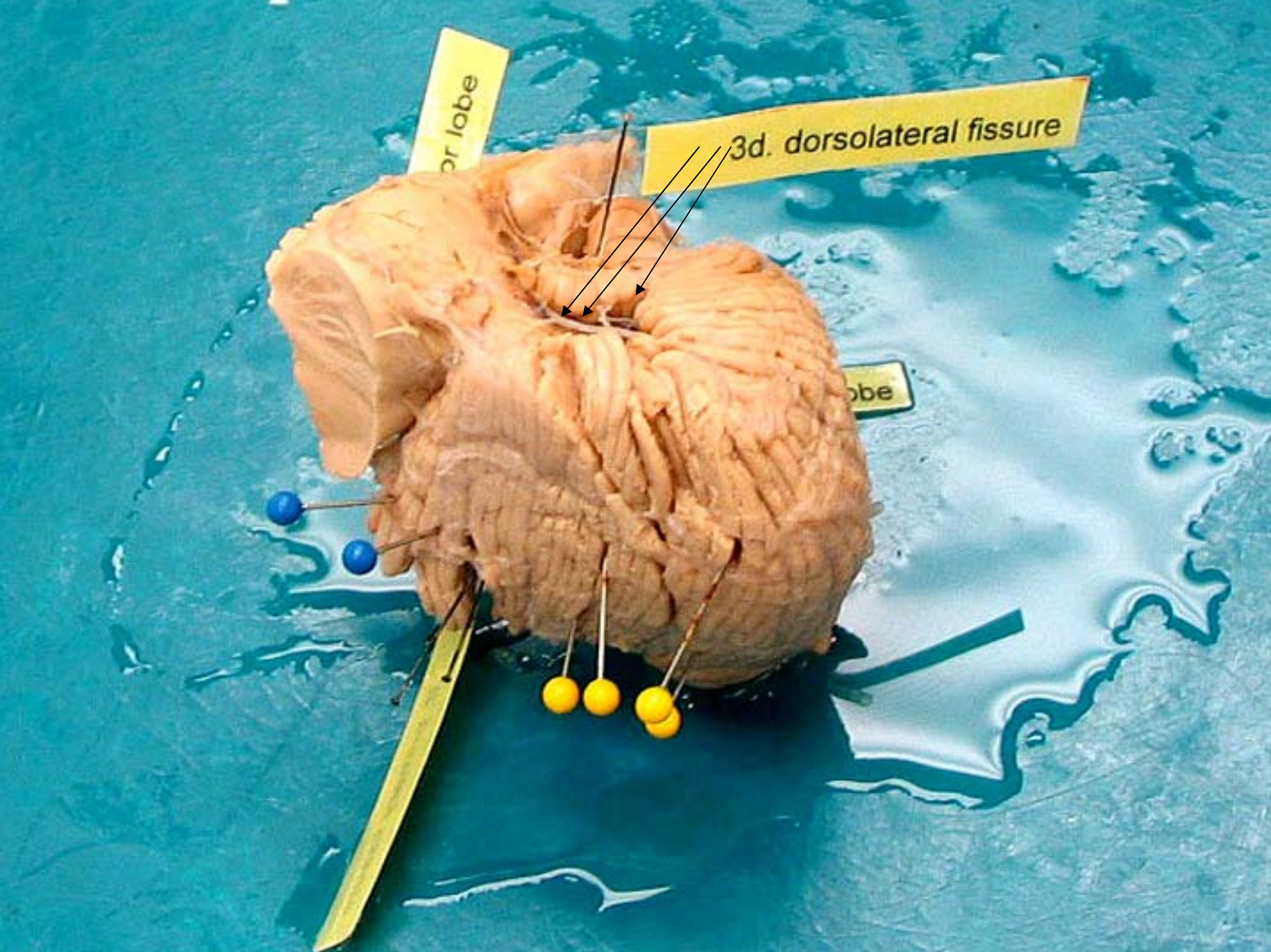

3b. cerebellar hemisphere


3c1. flocculus

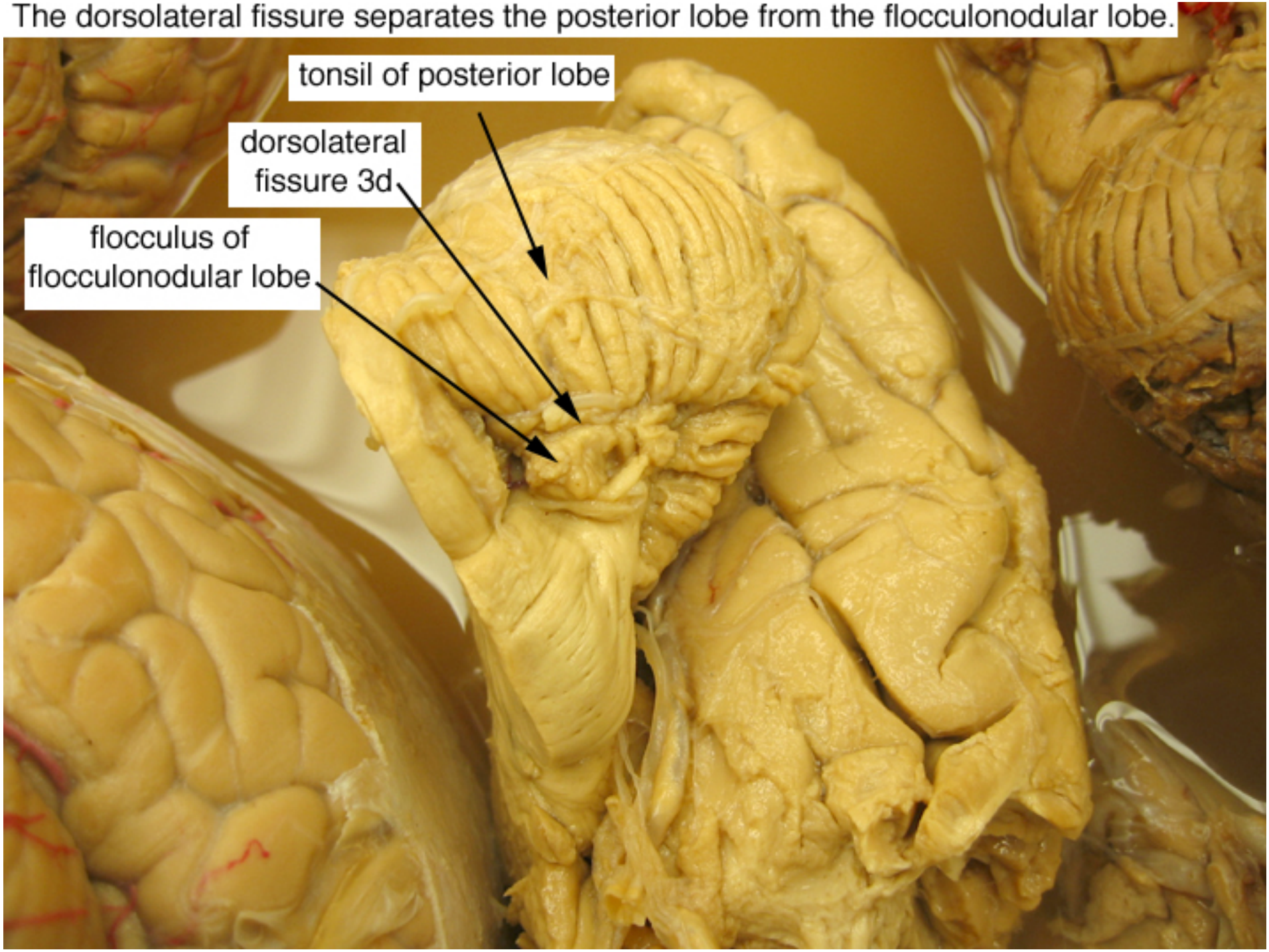
3c2. nodulus



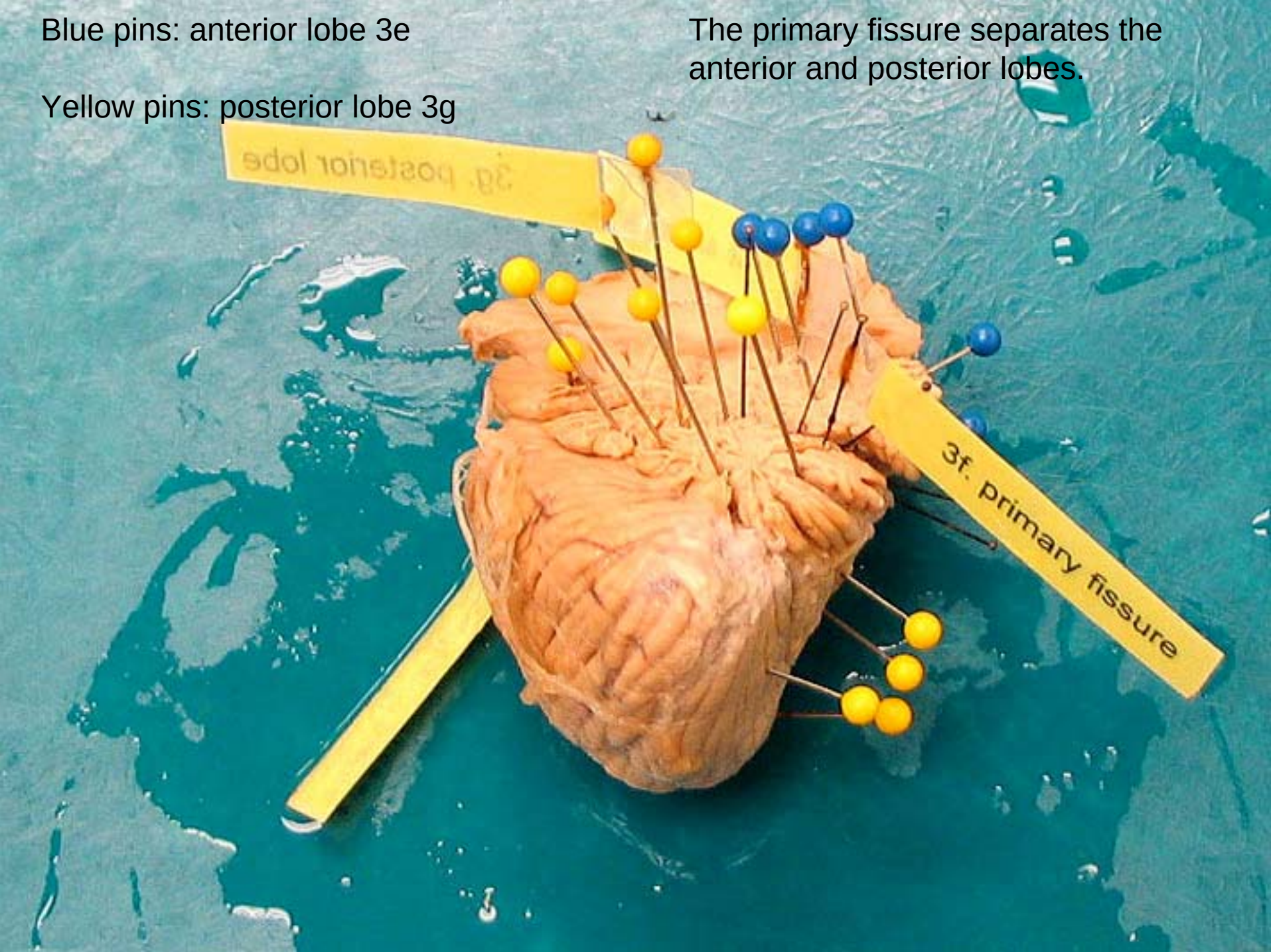

3c2, nodules

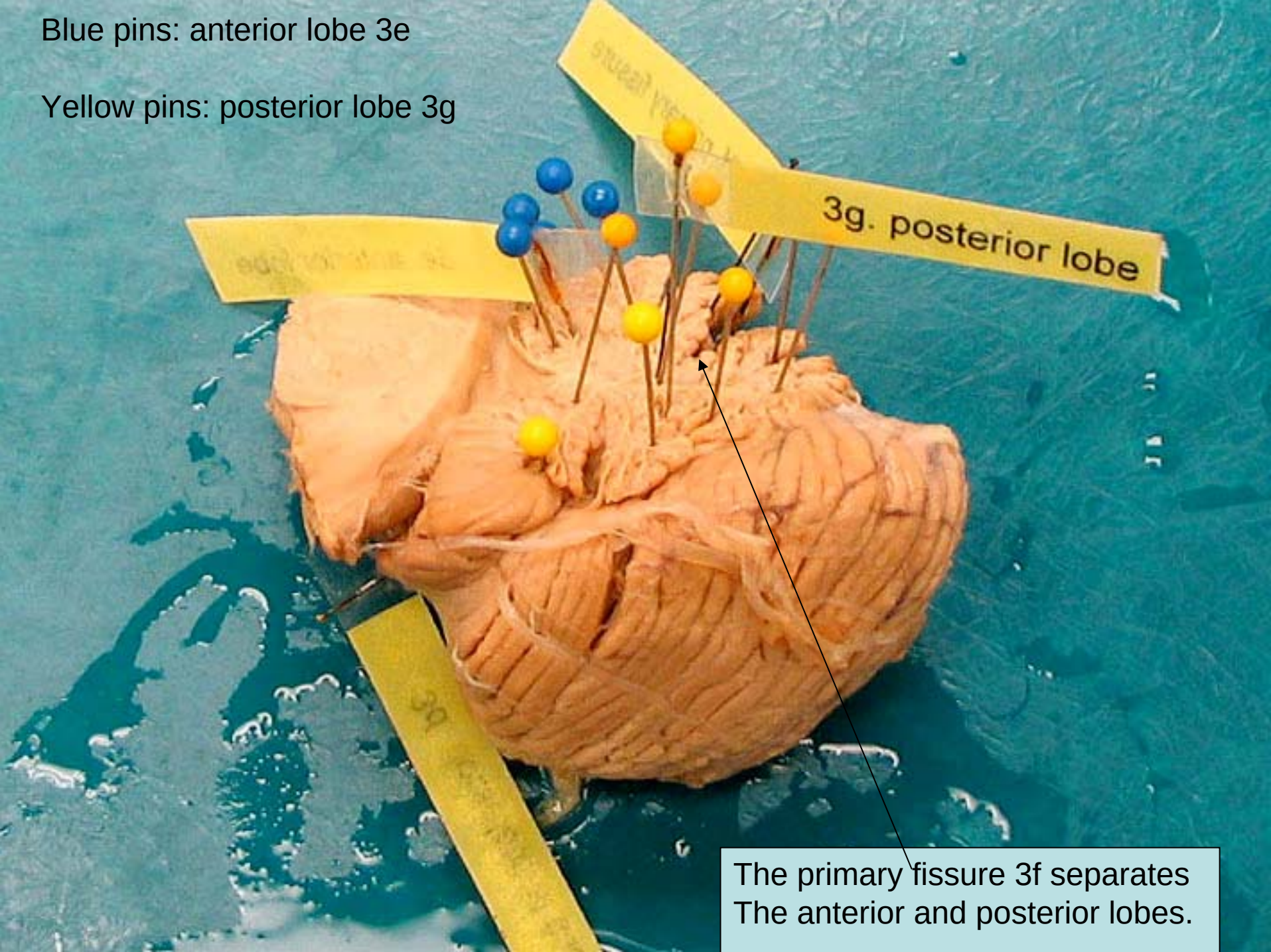

3d. dorsolateral fissure

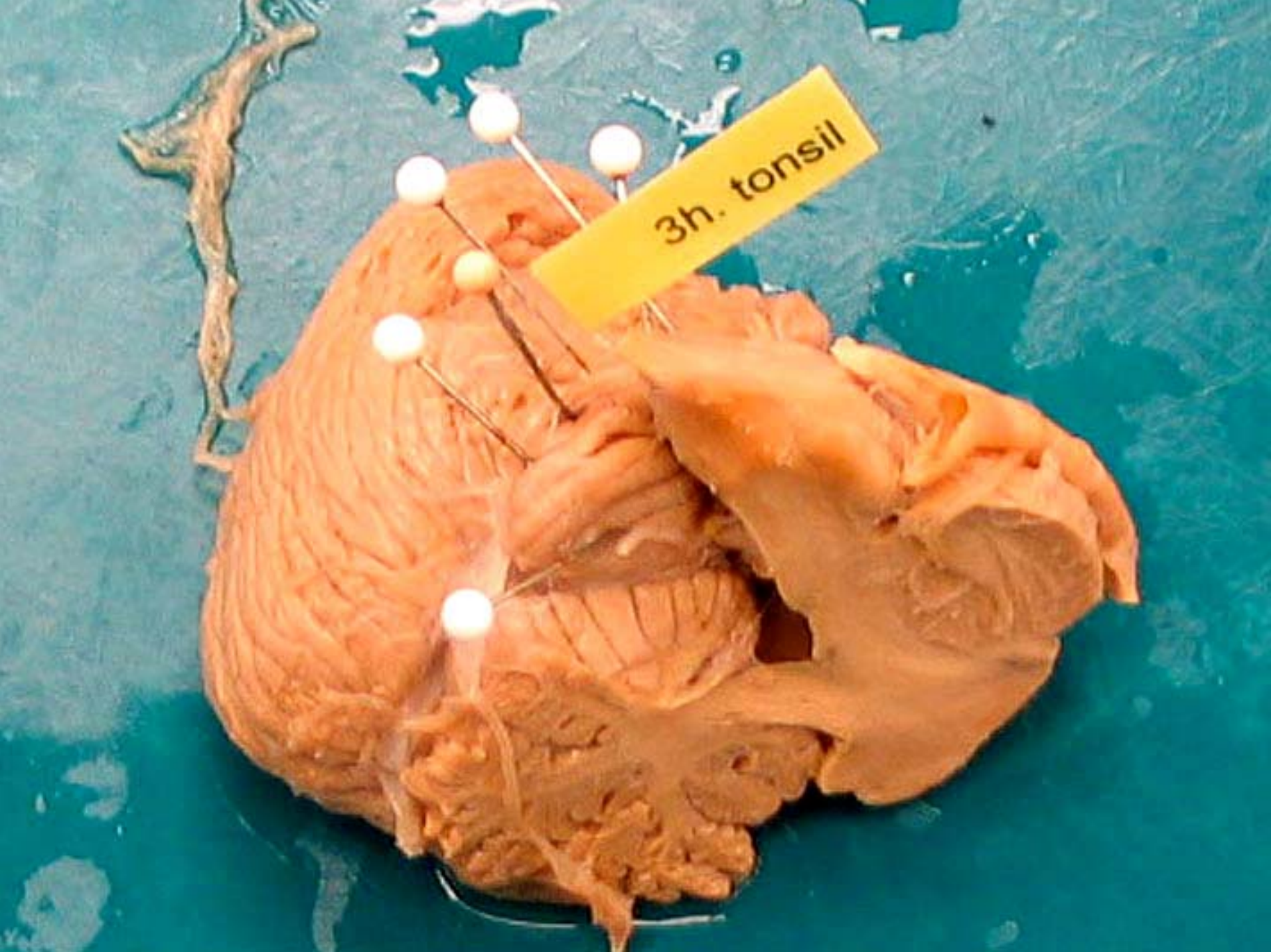
The dorsolateral fissure separates the posterior lobe from the flocculonodular lobe.



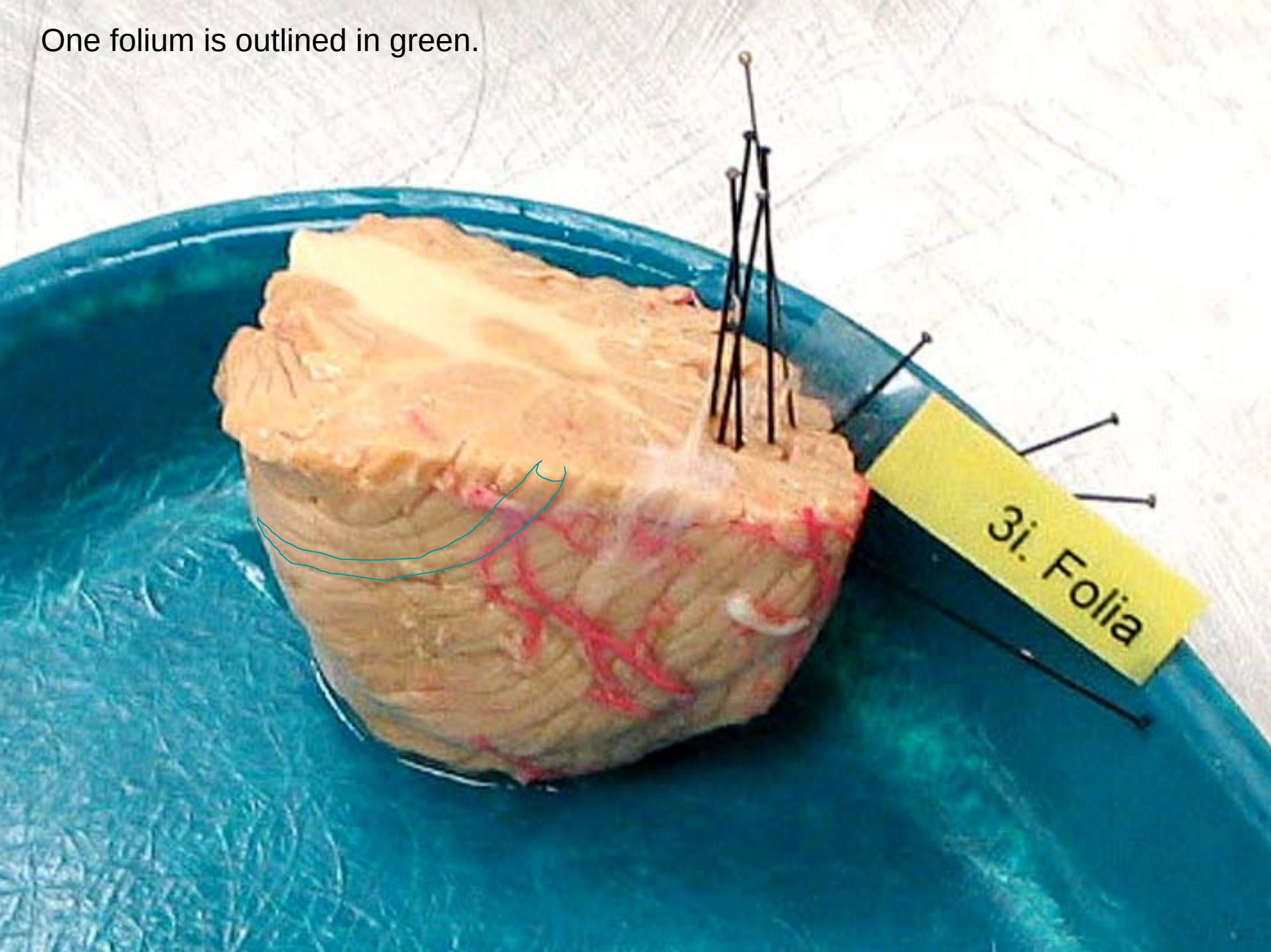
- 3e. anterior lobe

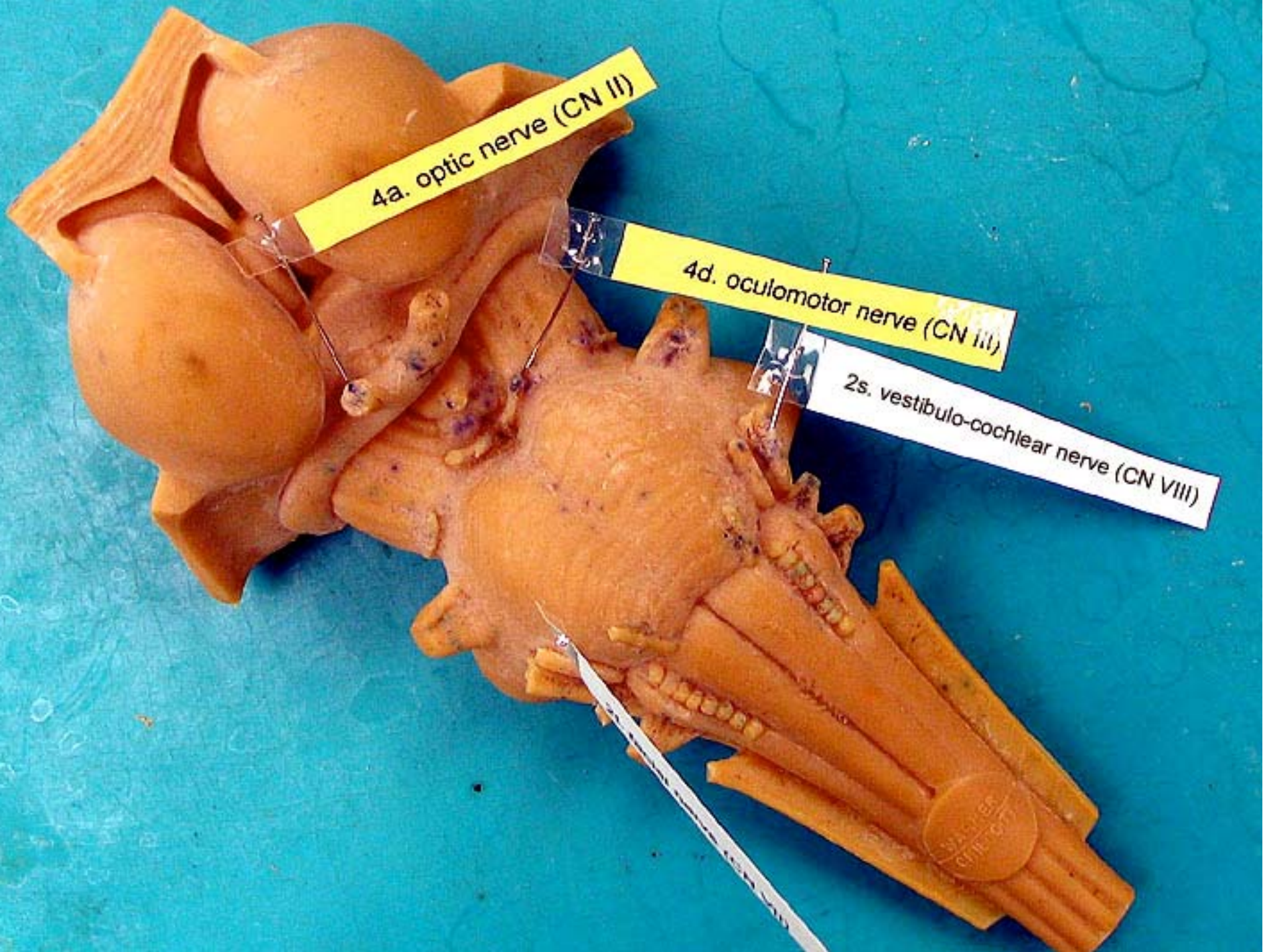

Blue pins: anterior lobe 3e
Yellow pins: posterior lobe 3g
The primary fissure separates the anterior and posterior lobes.
3g. posterior lobe
3f. primary fissure

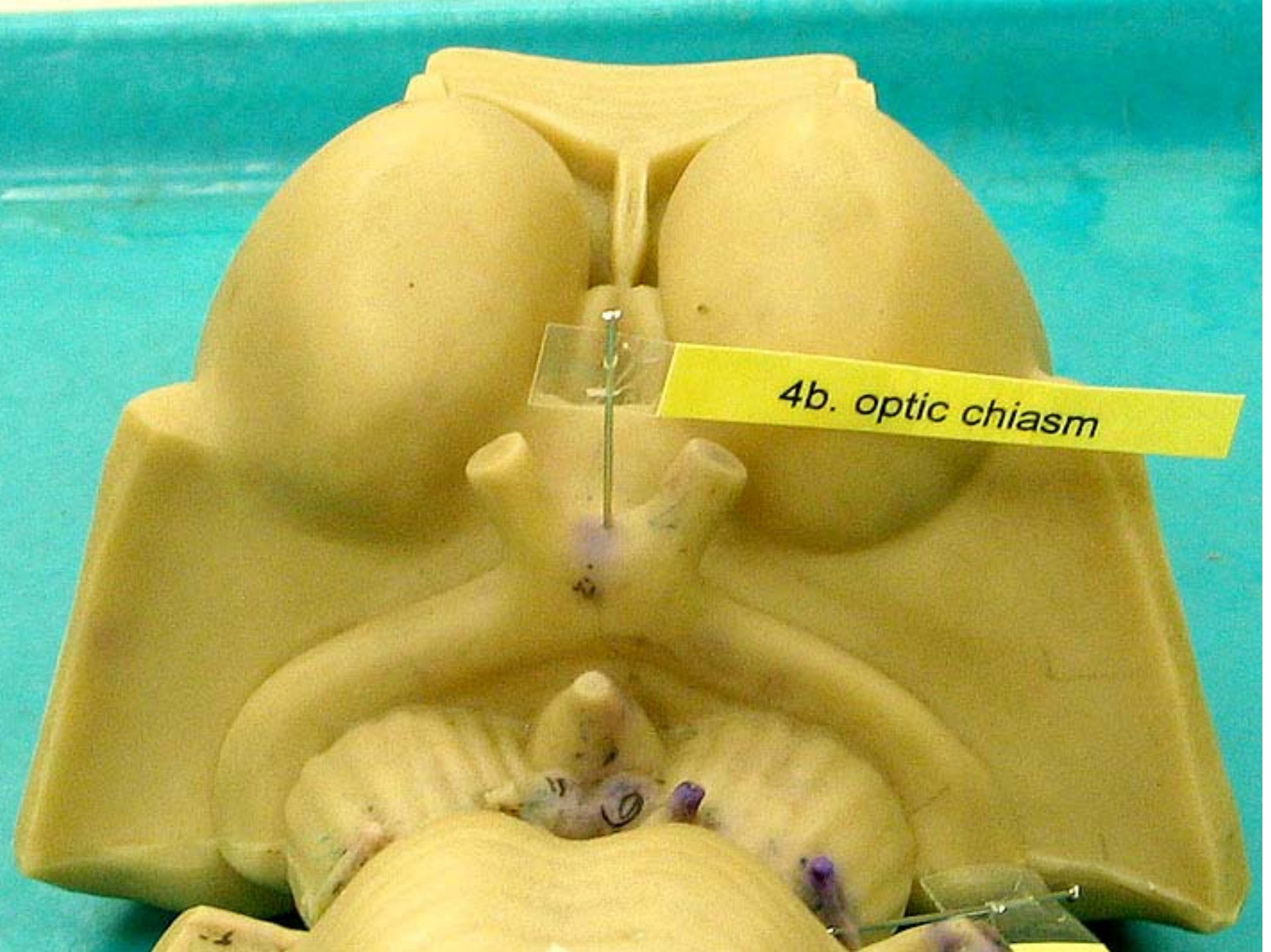

Blue pins: anterior lobe 3e
Yellow pins: posterior lobe 3g
3g. posterior lobe
The primary fissure 3f separates
The anterior and posterior lobes.


3h. tonsil

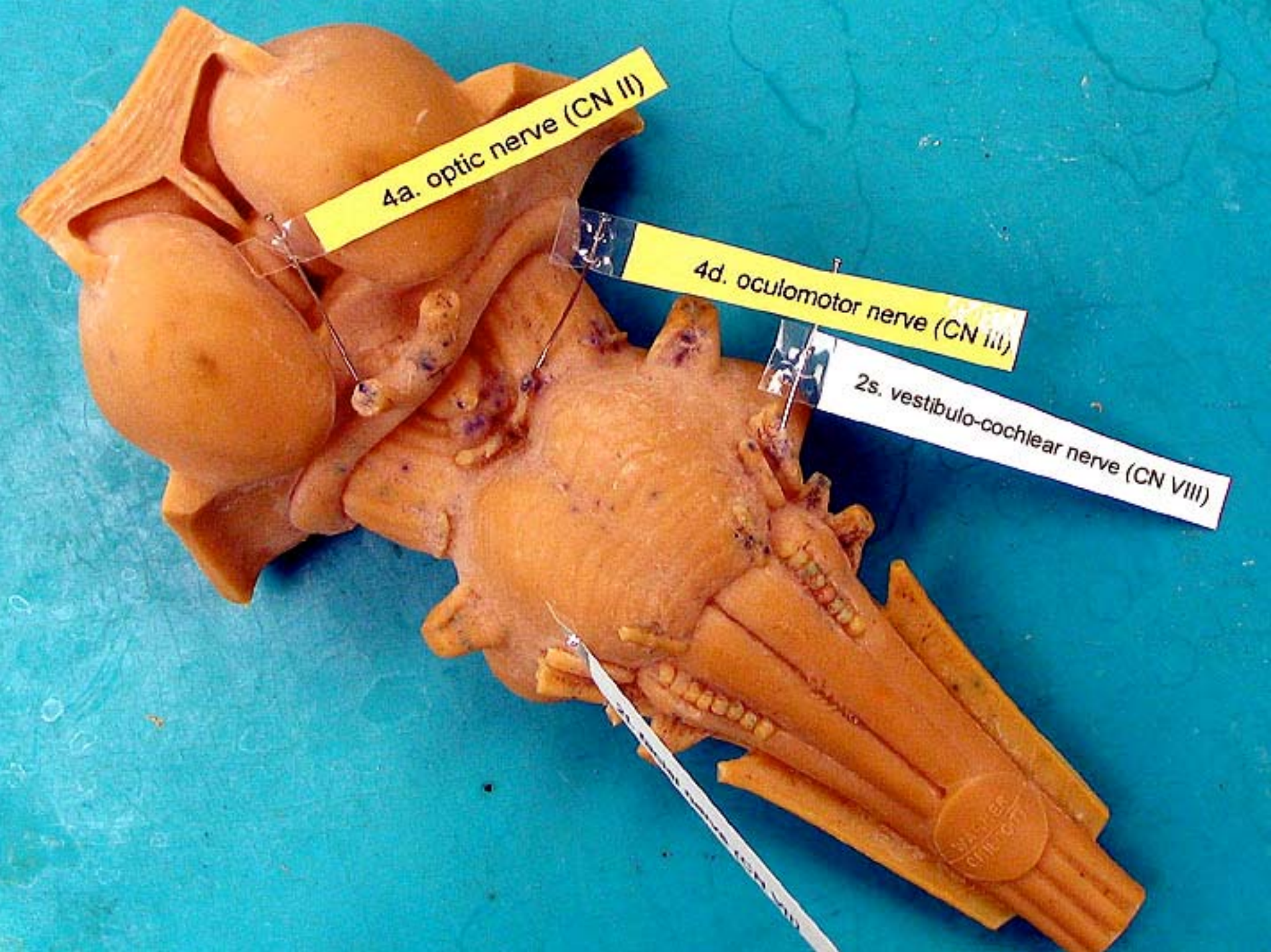
One folium is outlined in green.



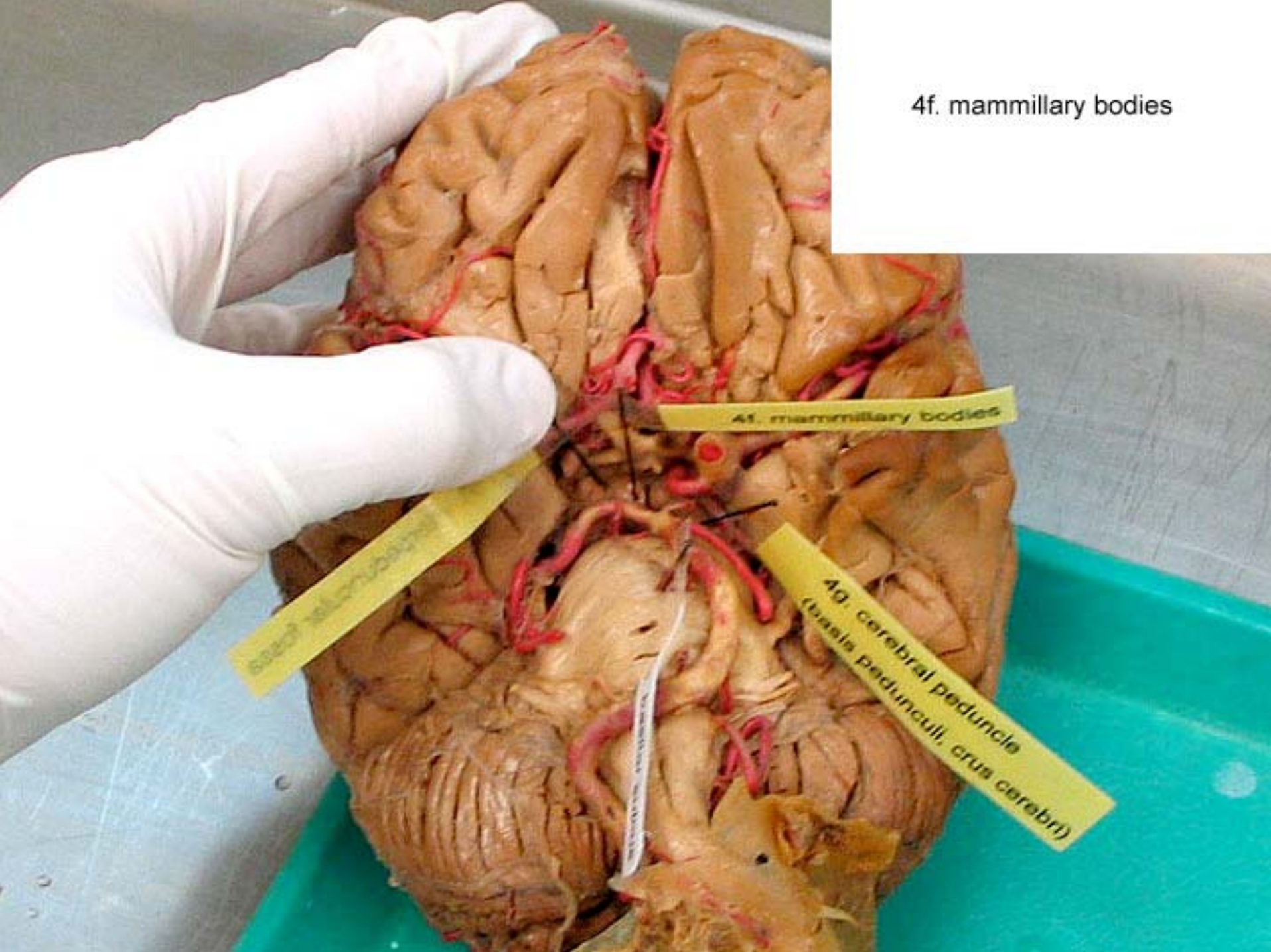

4a. optic nerve (CN II)
4d. oculomotor nerve (CN III)
2s. vestibulo-cochlear nerve (CN VIII)

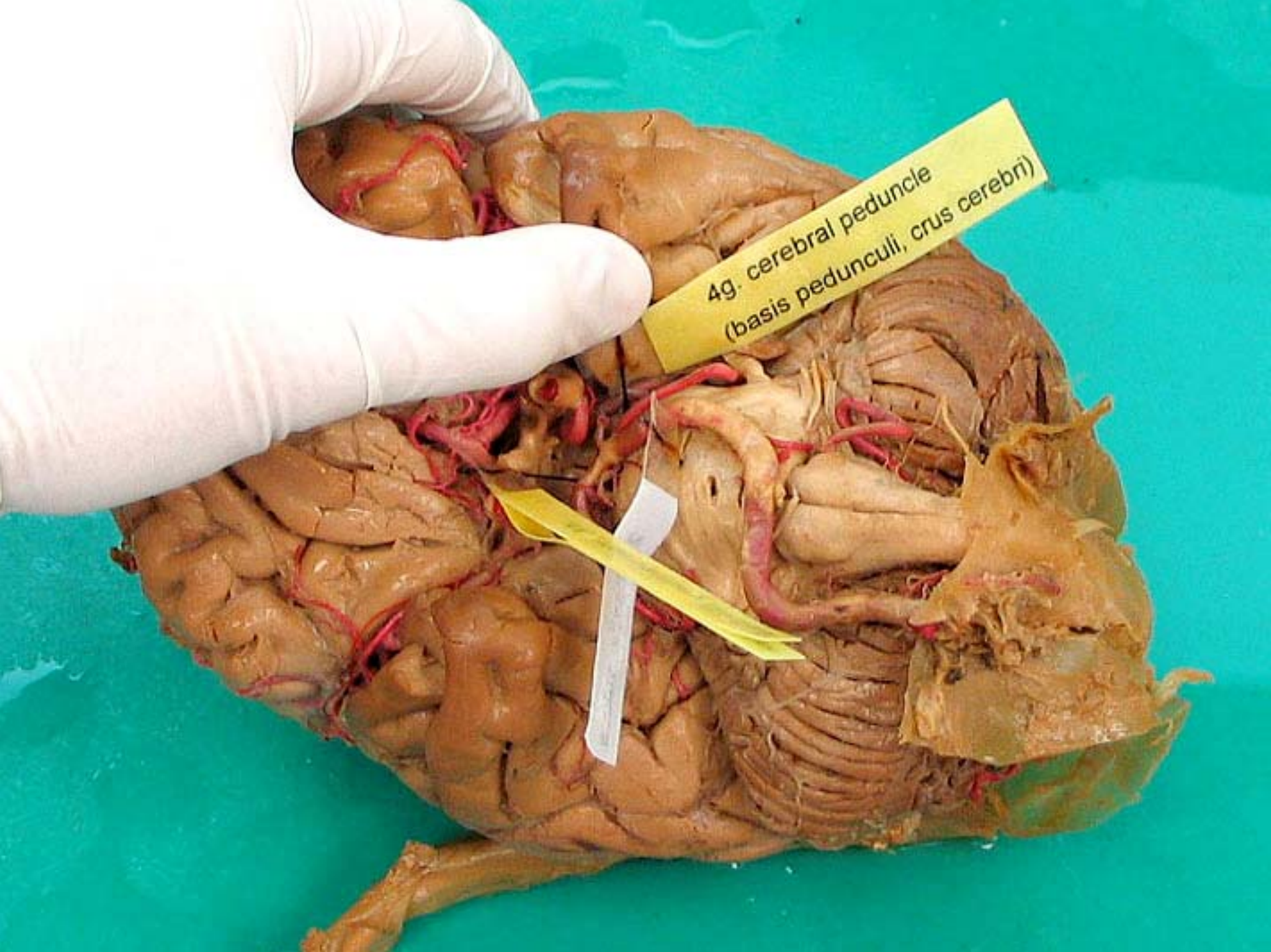

4b. optic chiasm

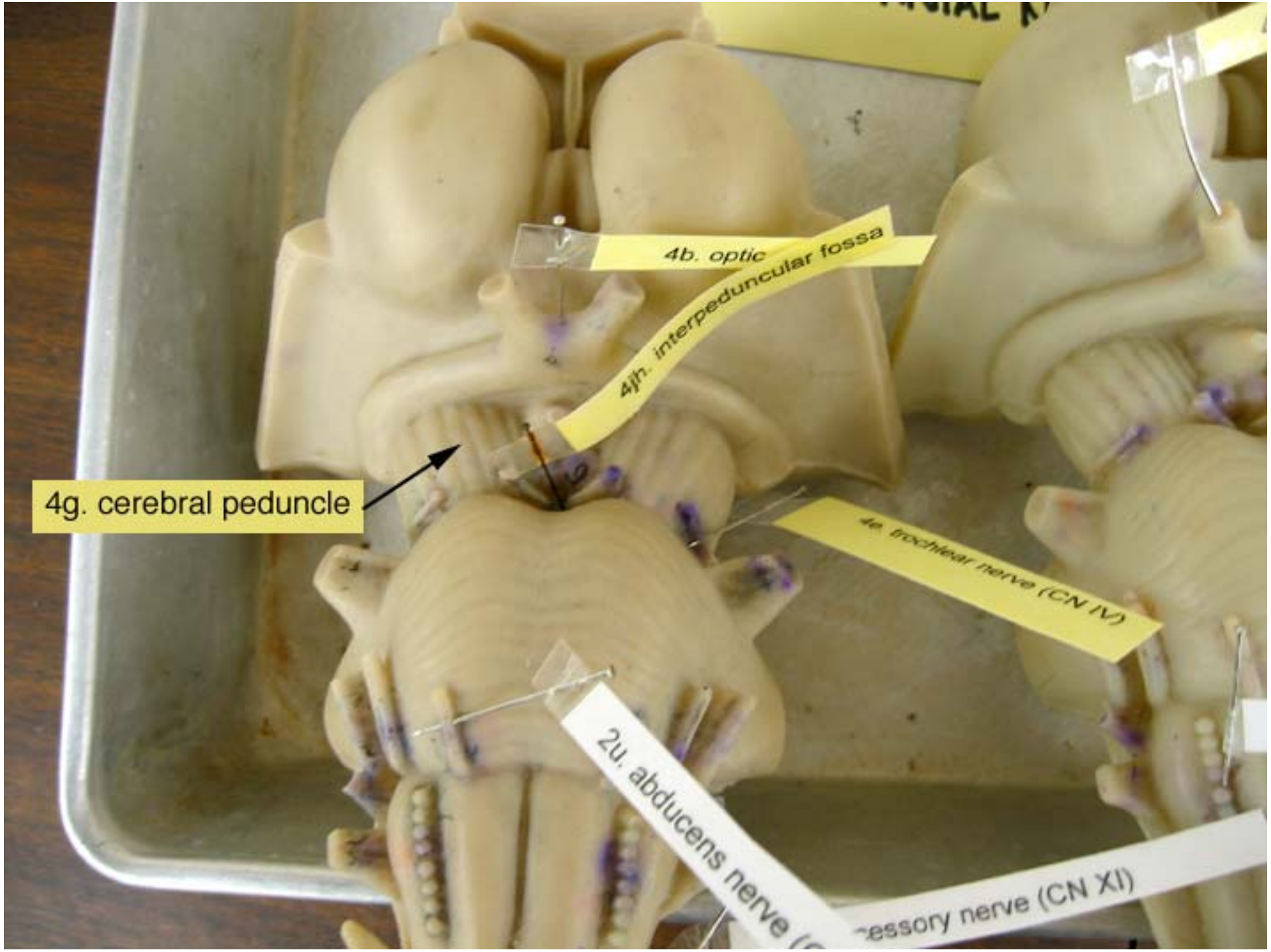

4c. optic tract
2v. trigeminal nerve (CN V)

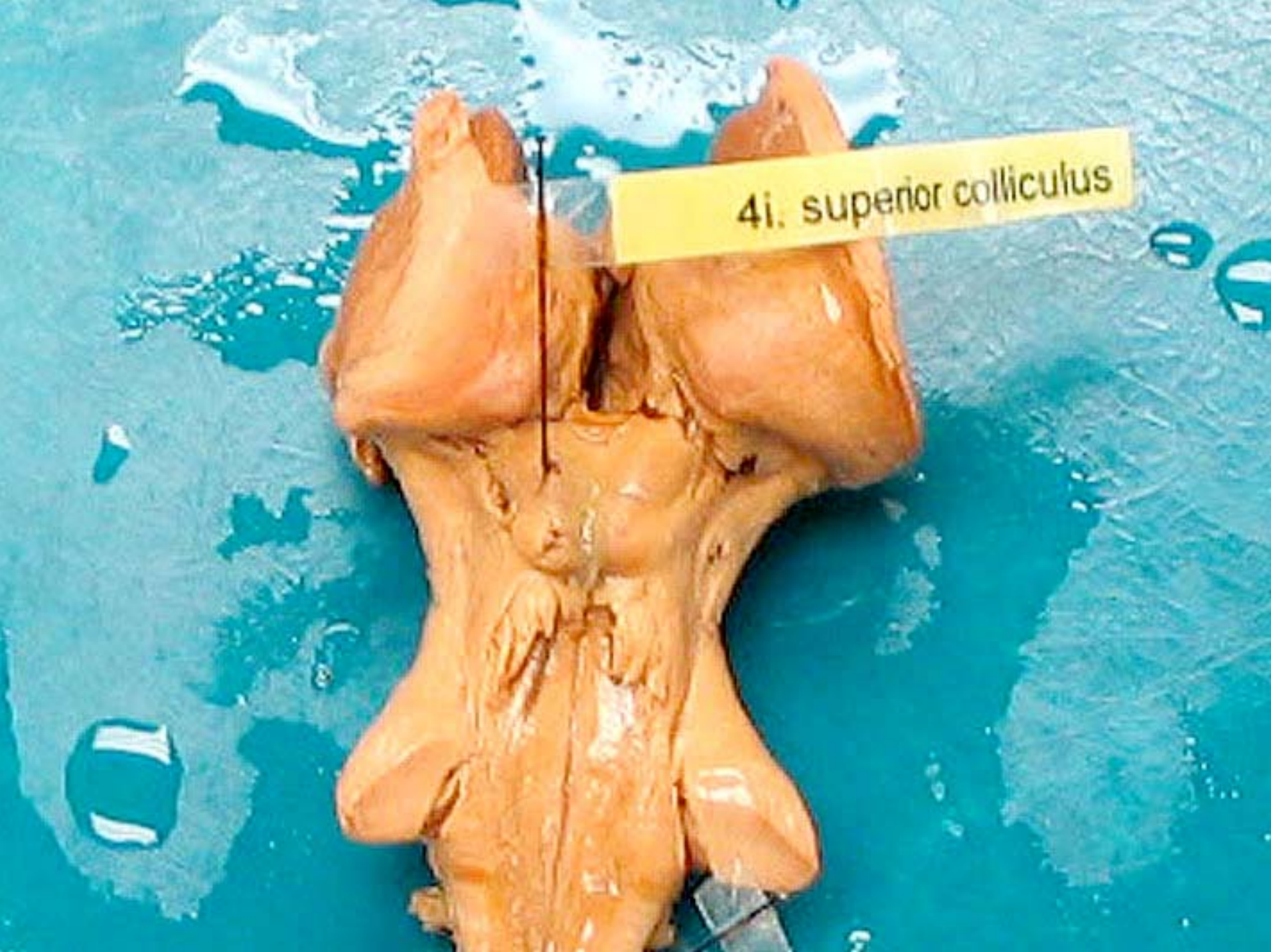

4a. optic nerve (CN II)
4d. oculomotor nerve (CN III)
2s. vestibulo-cochlear nerve (CN VIII)

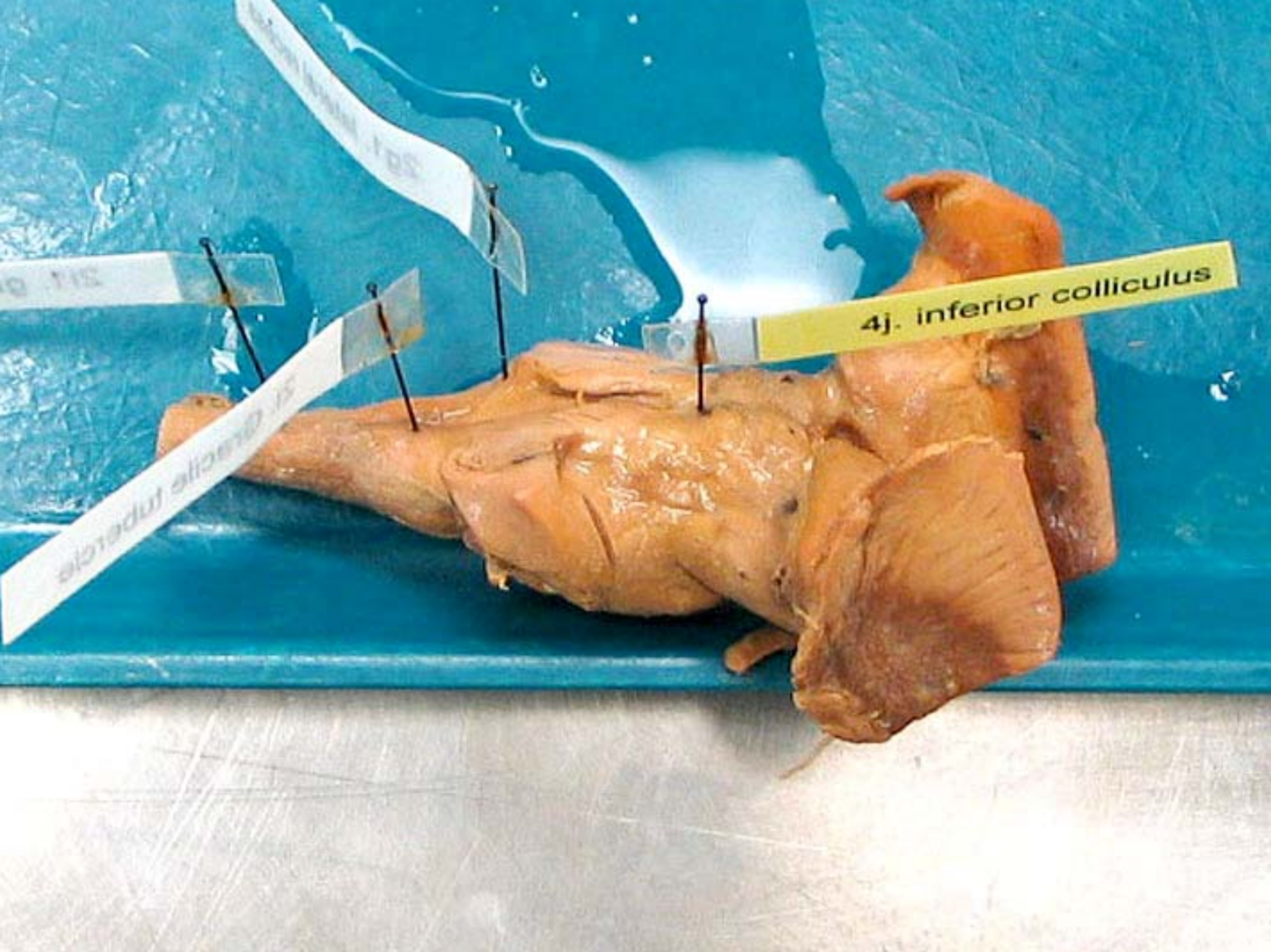

4e. trochlear nerve (CN IV)
2u. abducens nerve (CN VI)
2p. accessory nerve (CN XI)

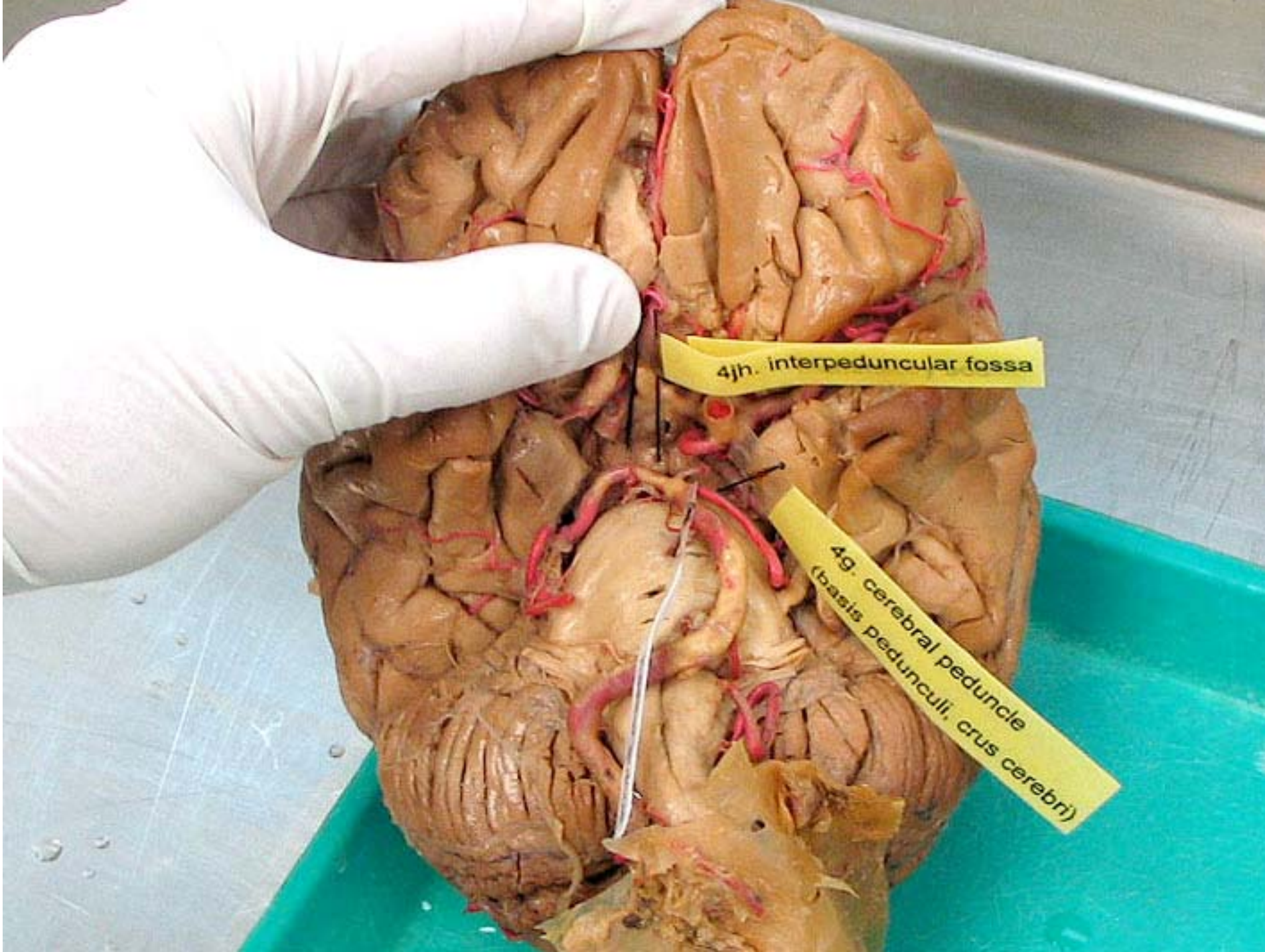

4f. mammillary bodies
4f. mammillary bodies
4g. cerebral peduncle
(basis pedunculi, crus cerebri)

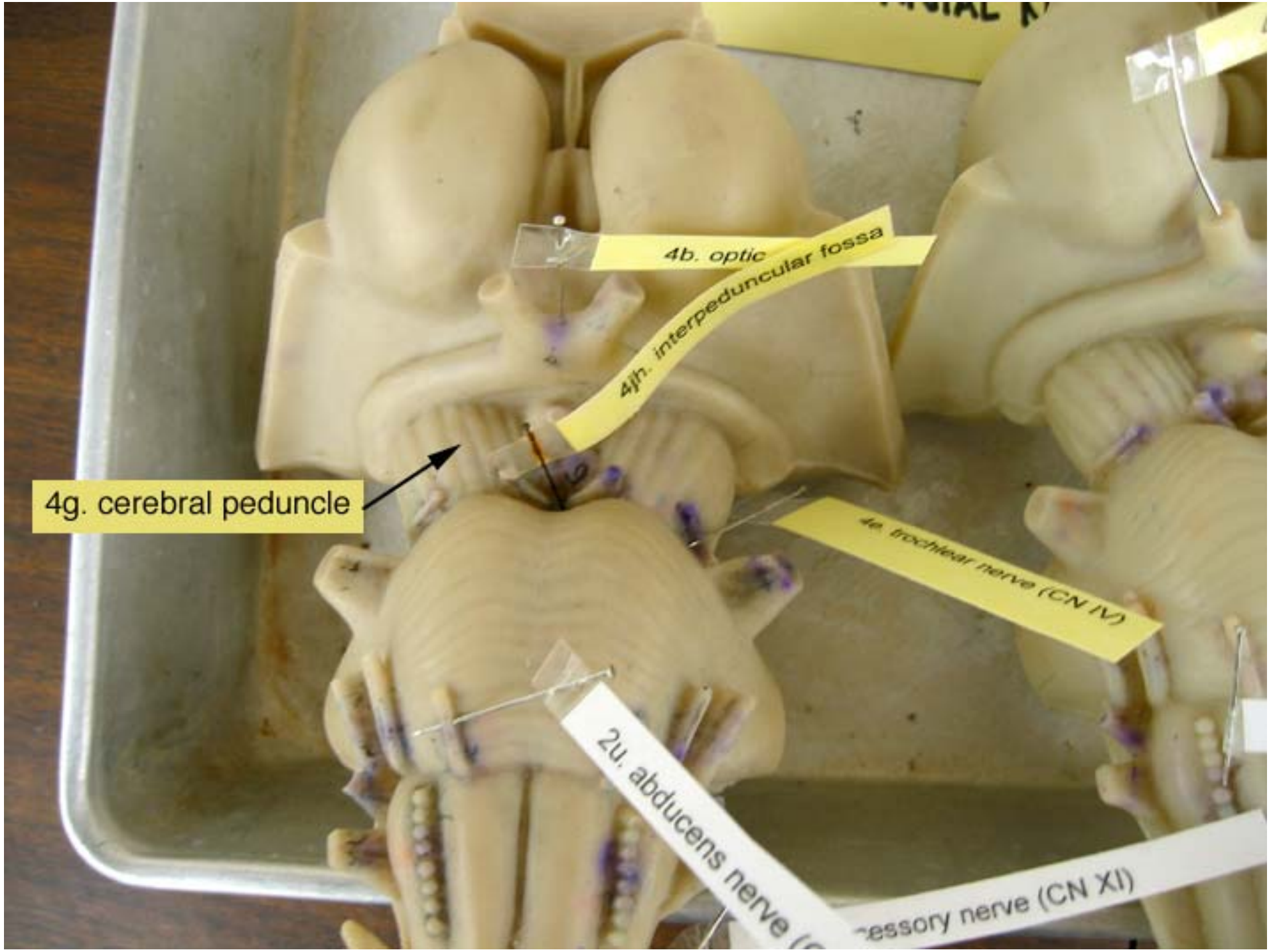

4g. cerebral peduncle
(basis pedunculi, crus cerebri)

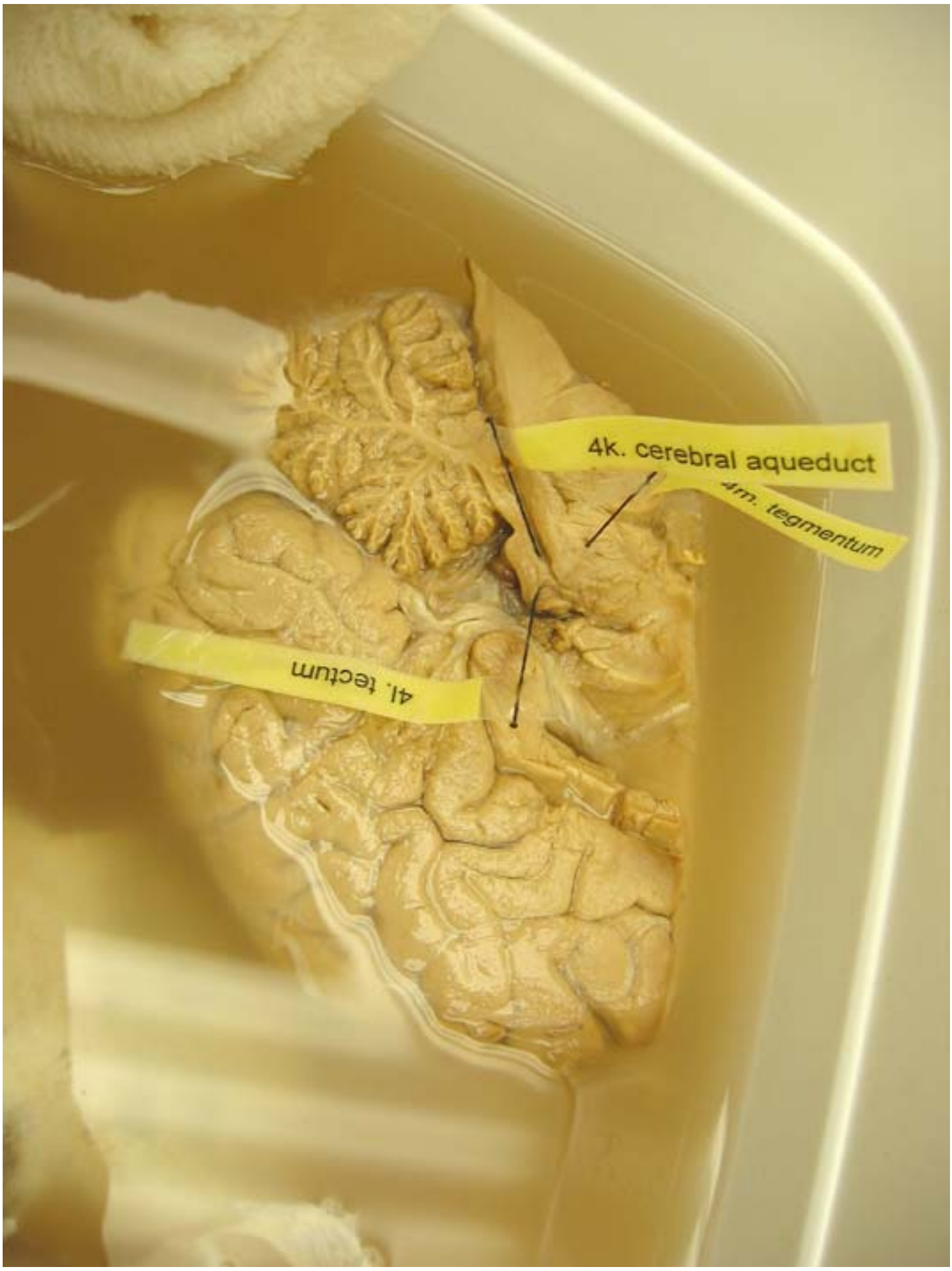

4b. optic
4jh. interpeduncular fossa
4g. cerebral peduncle
4e. trochlear nerve (CN IV)
2u. abducens nerve
essory nerve (CN XI)

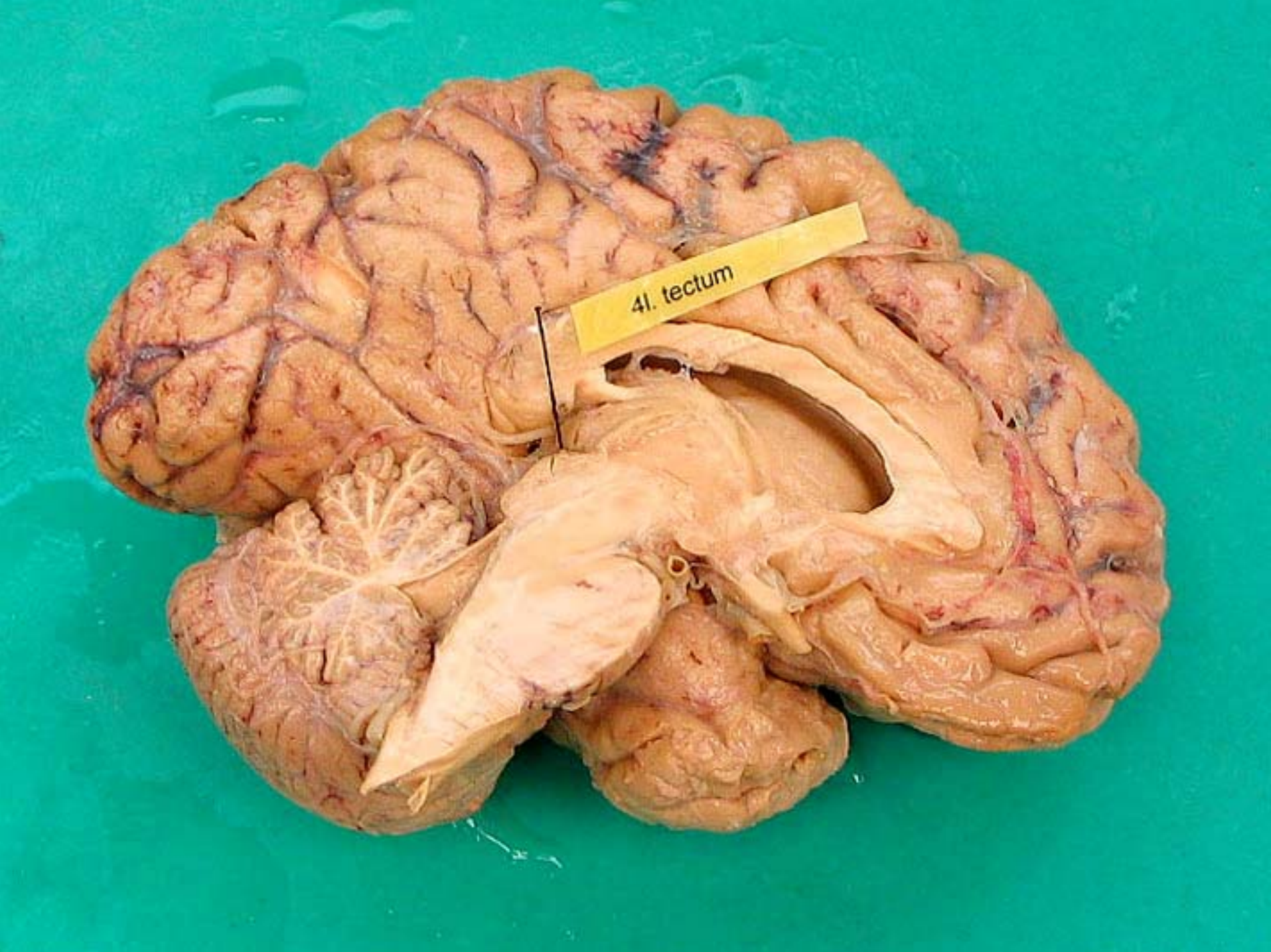

4i. superior colliculus

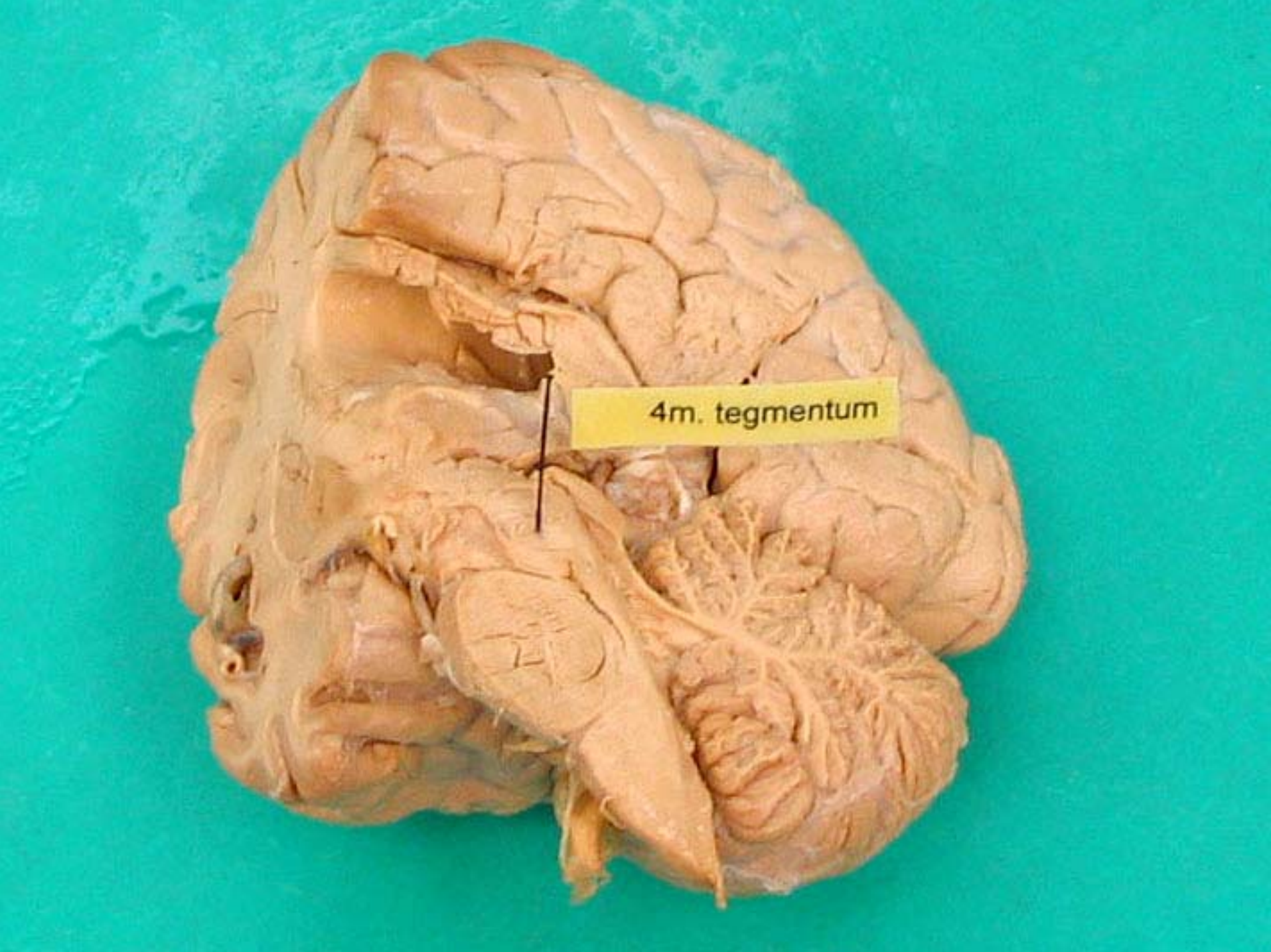

4j. inferior colliculus

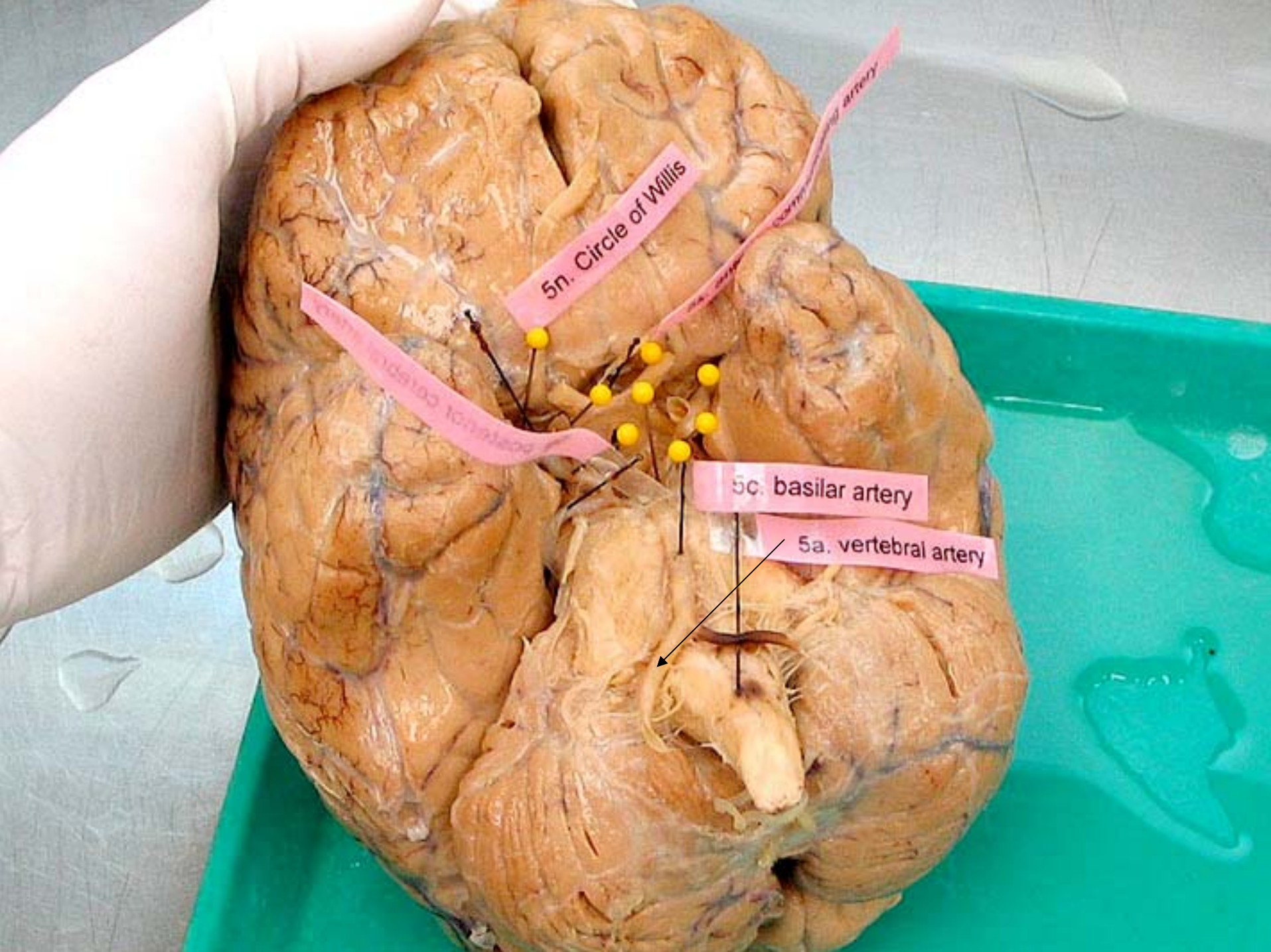

4jh. interpeduncular fossa
4g. cerebral peduncle
(basis pedunculi, crus cerebri)

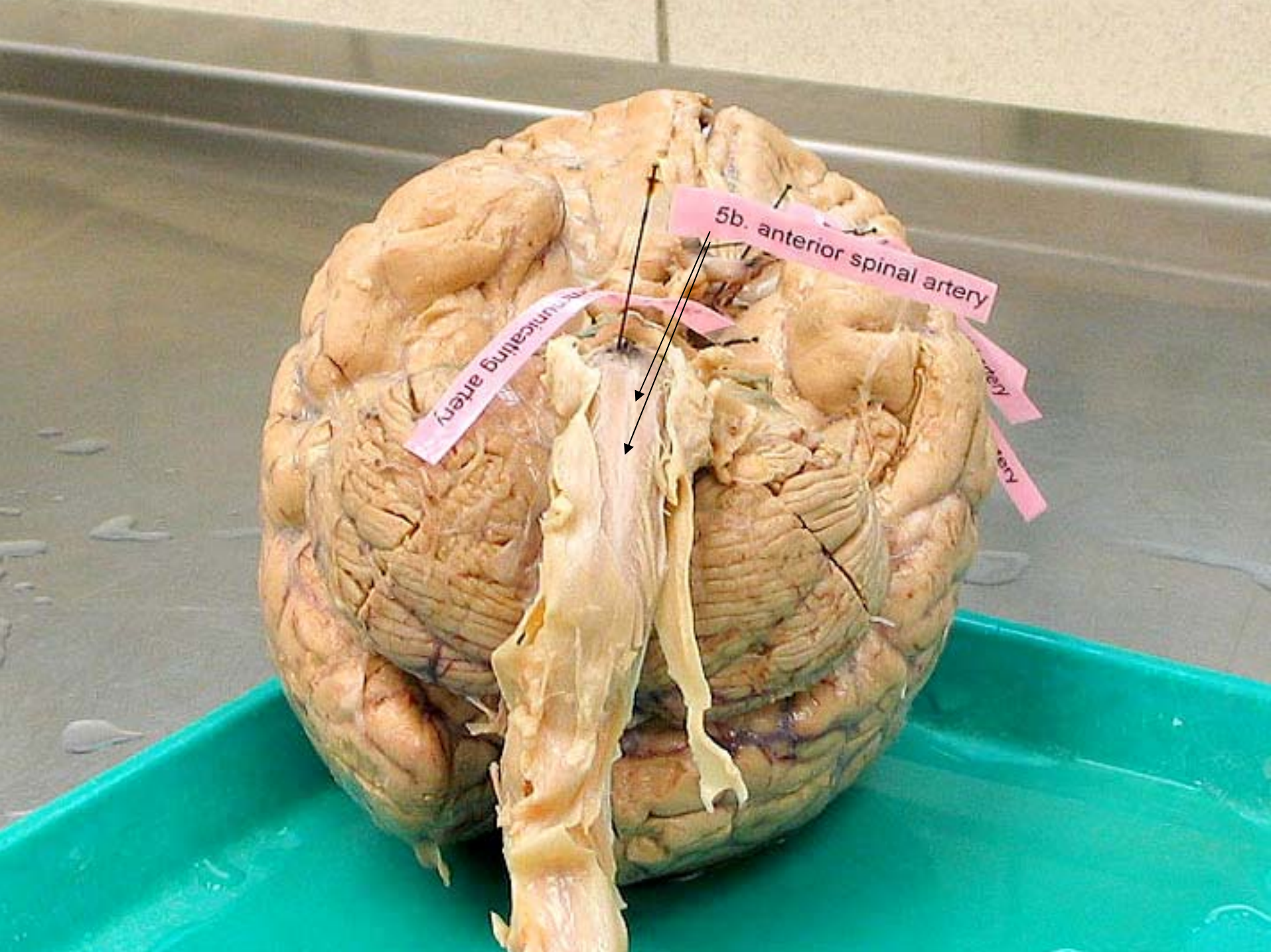

4b. optic
4jh. interpeduncular fossa
4g. cerebral peduncle
4e. trochlear nerve (CN IV)
2u. abducens nerve
essory nerve (CN XI)

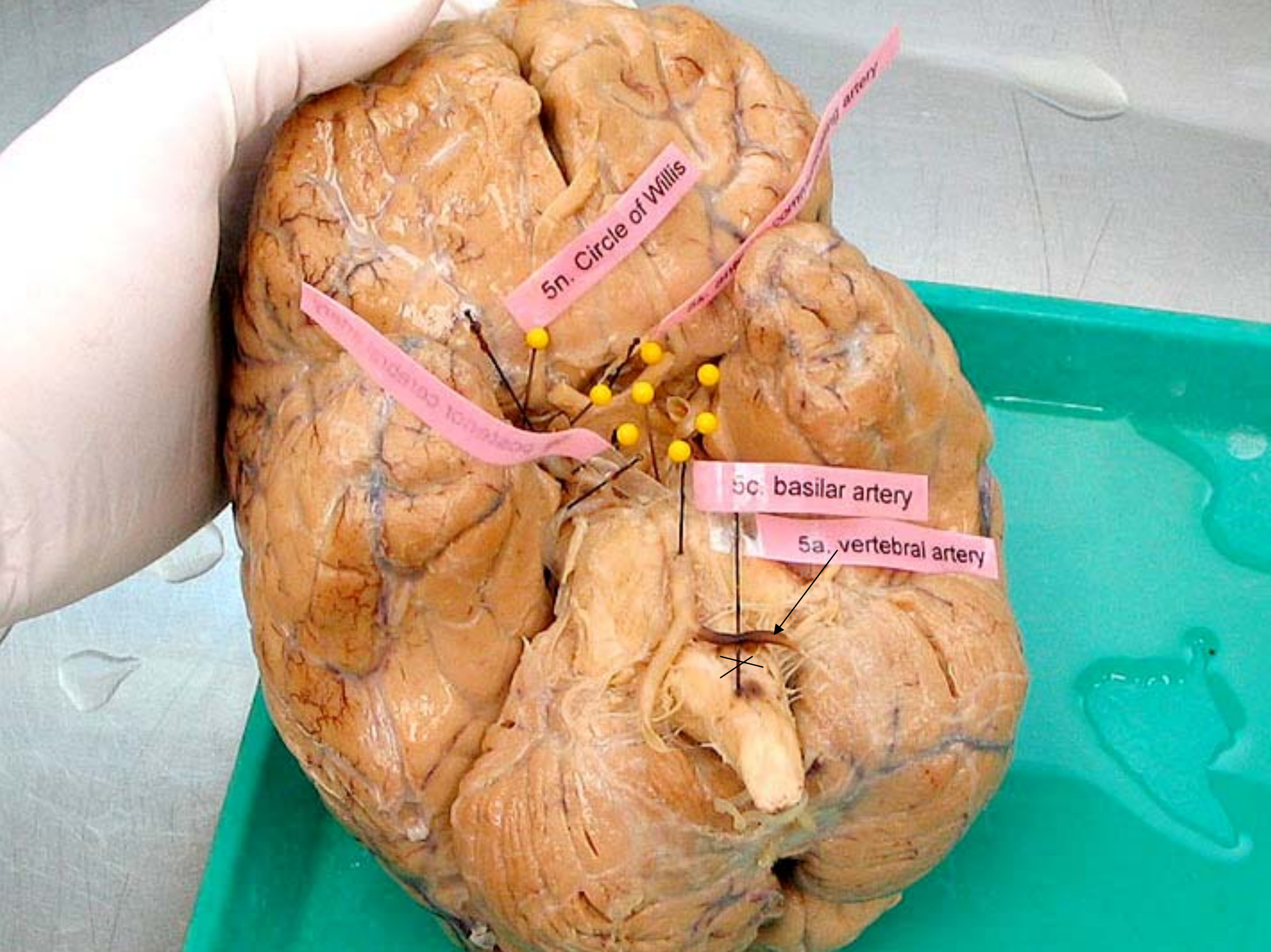

4k. cerebral aqueduct
4m. tegmentum
4l. tectum


4l. tectum

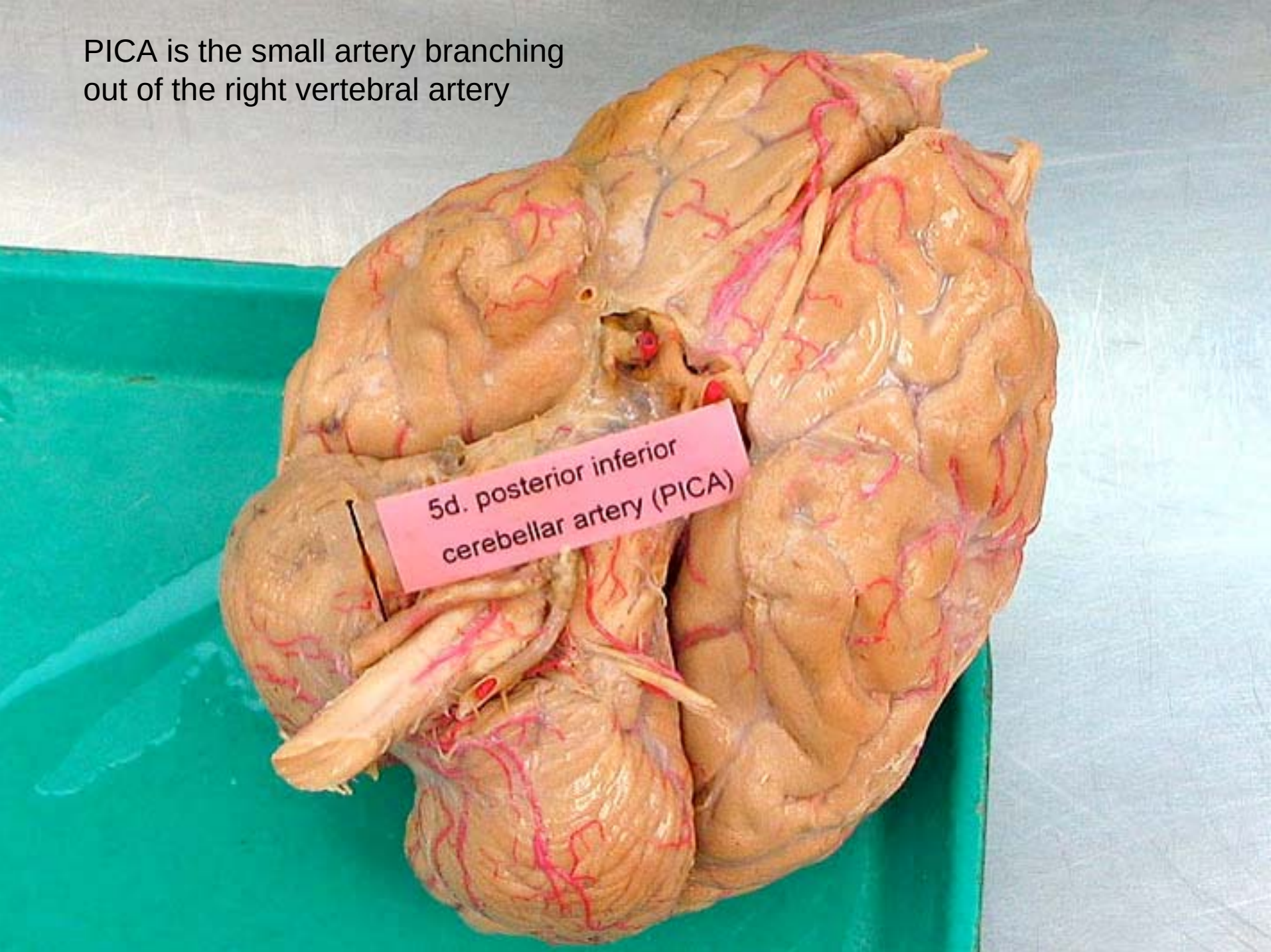

4m. tegmentum

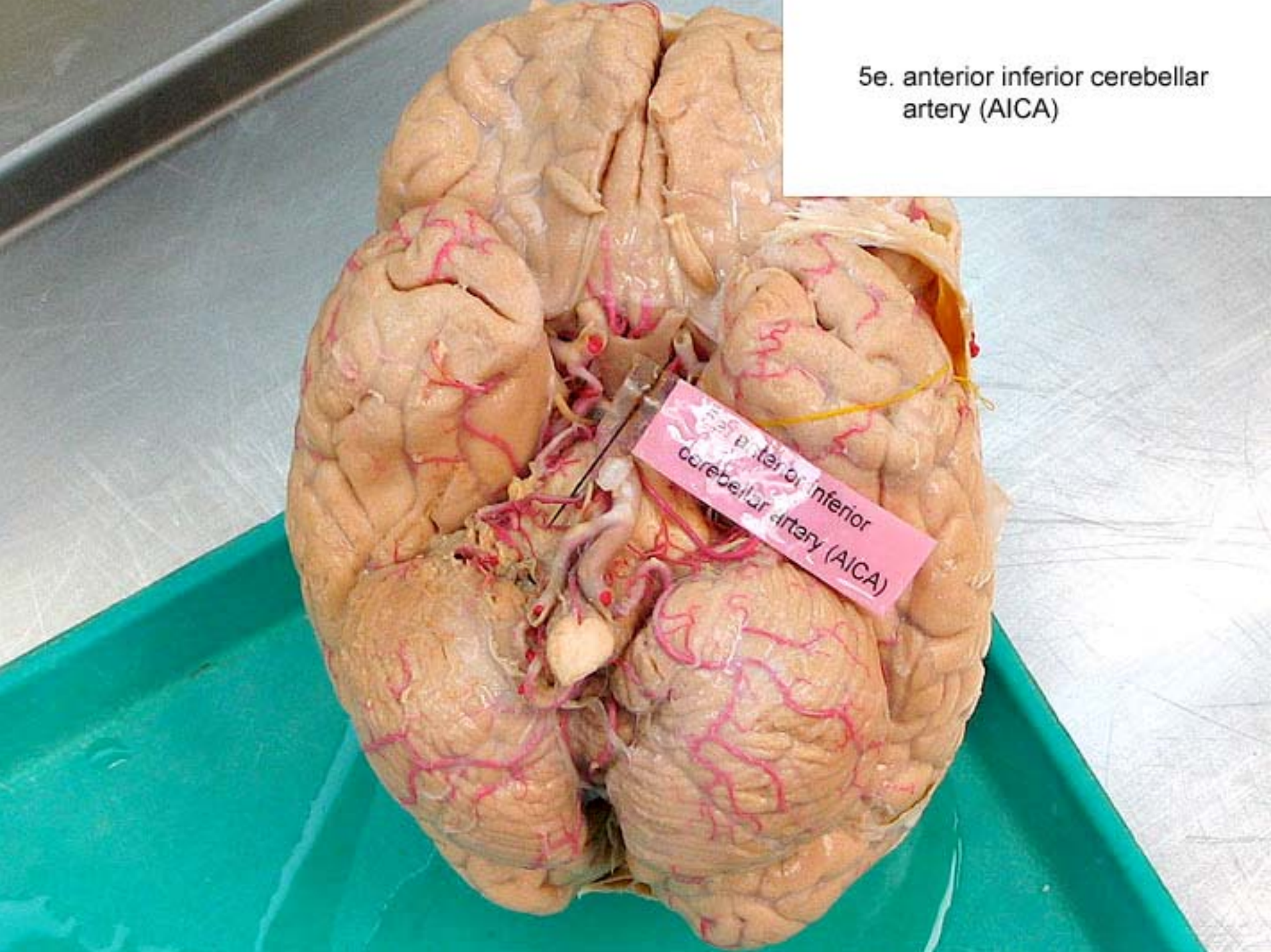

5n. Circle of Willis
5c. basilar artery
5a. vertebral artery


5b. anterior spinal artery

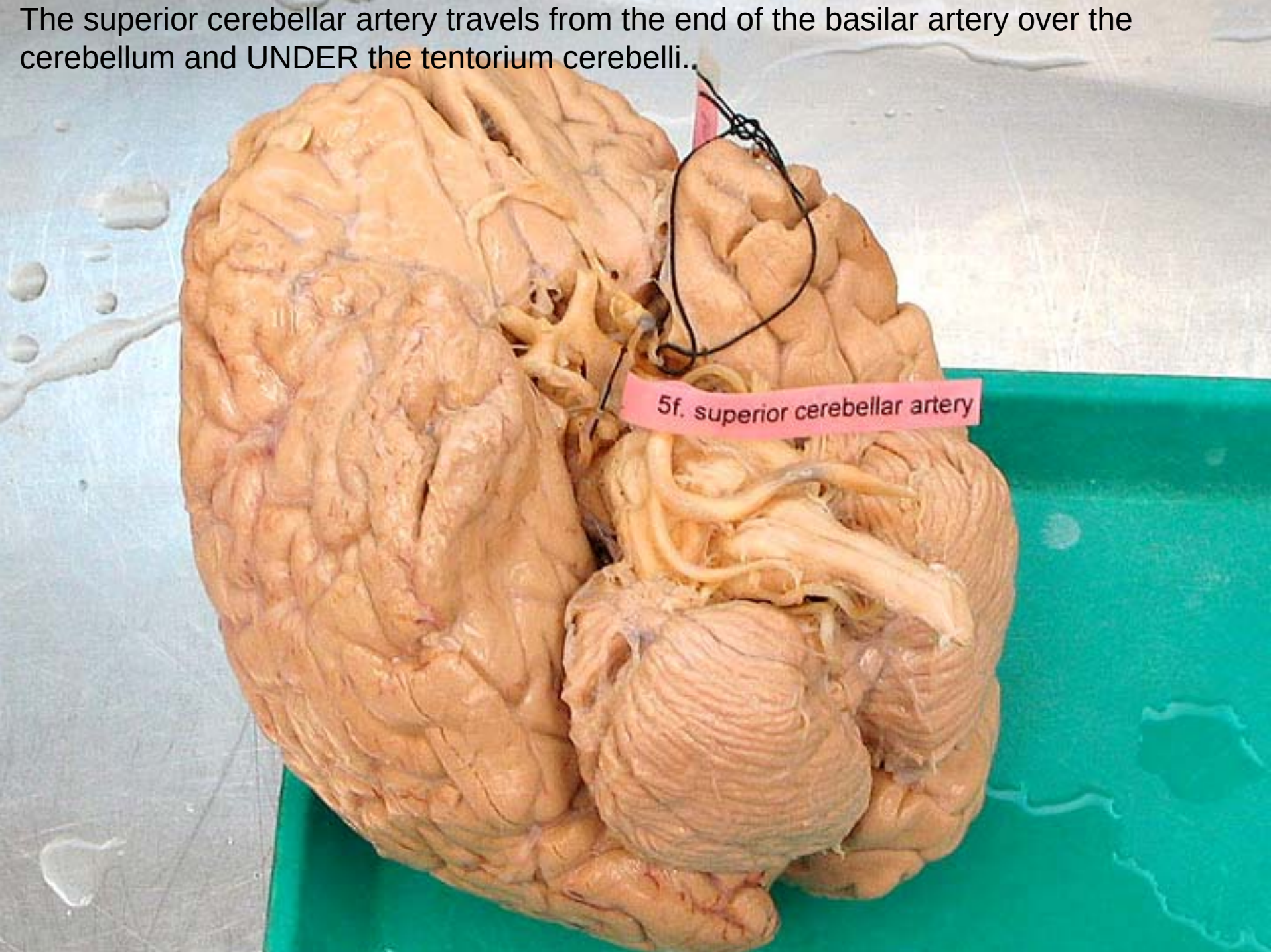

5n. Circle of Willis
5c. basilar artery
5a. vertebral artery

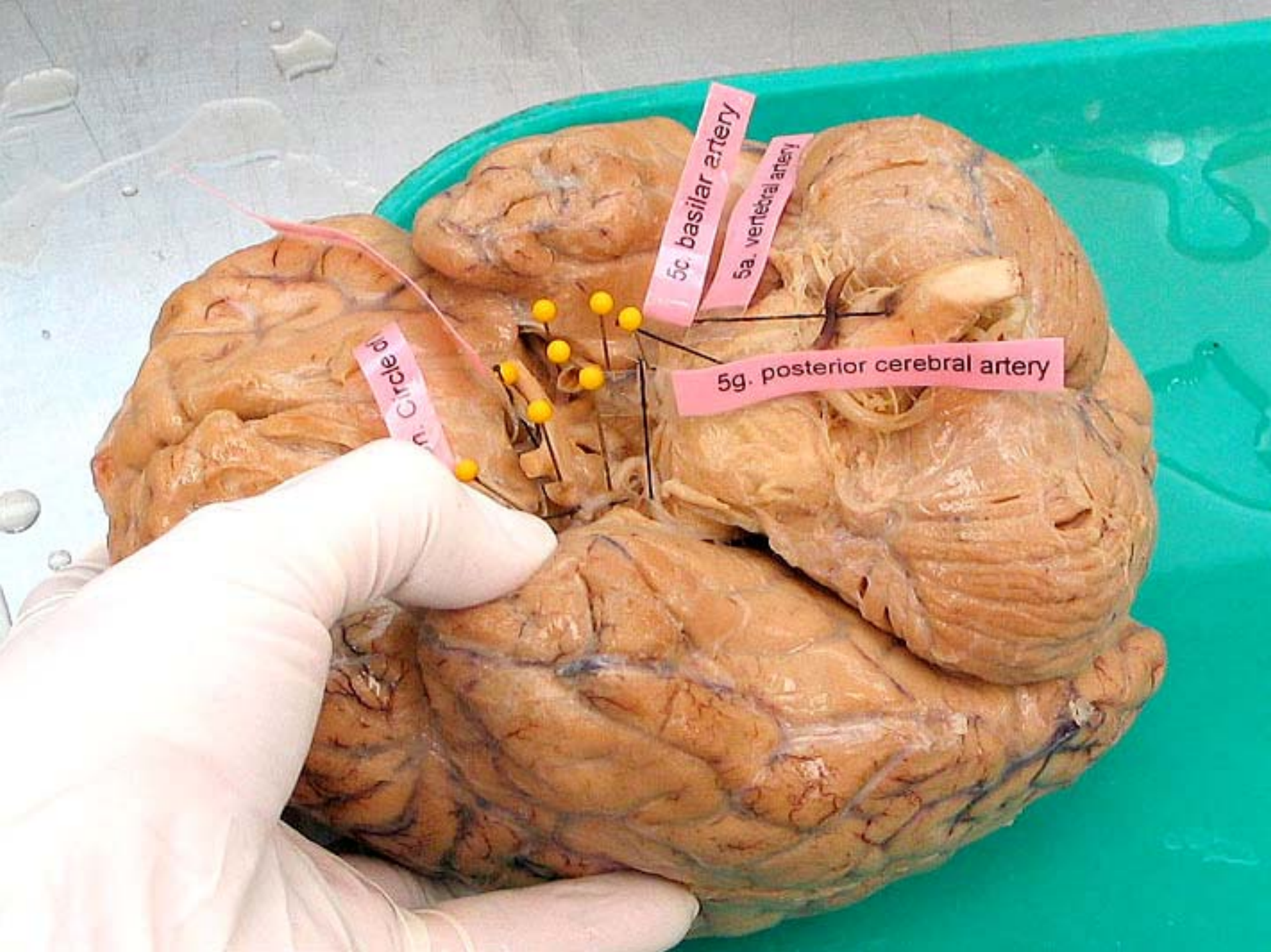

5n. Circle of Wil
5c. basilar artery

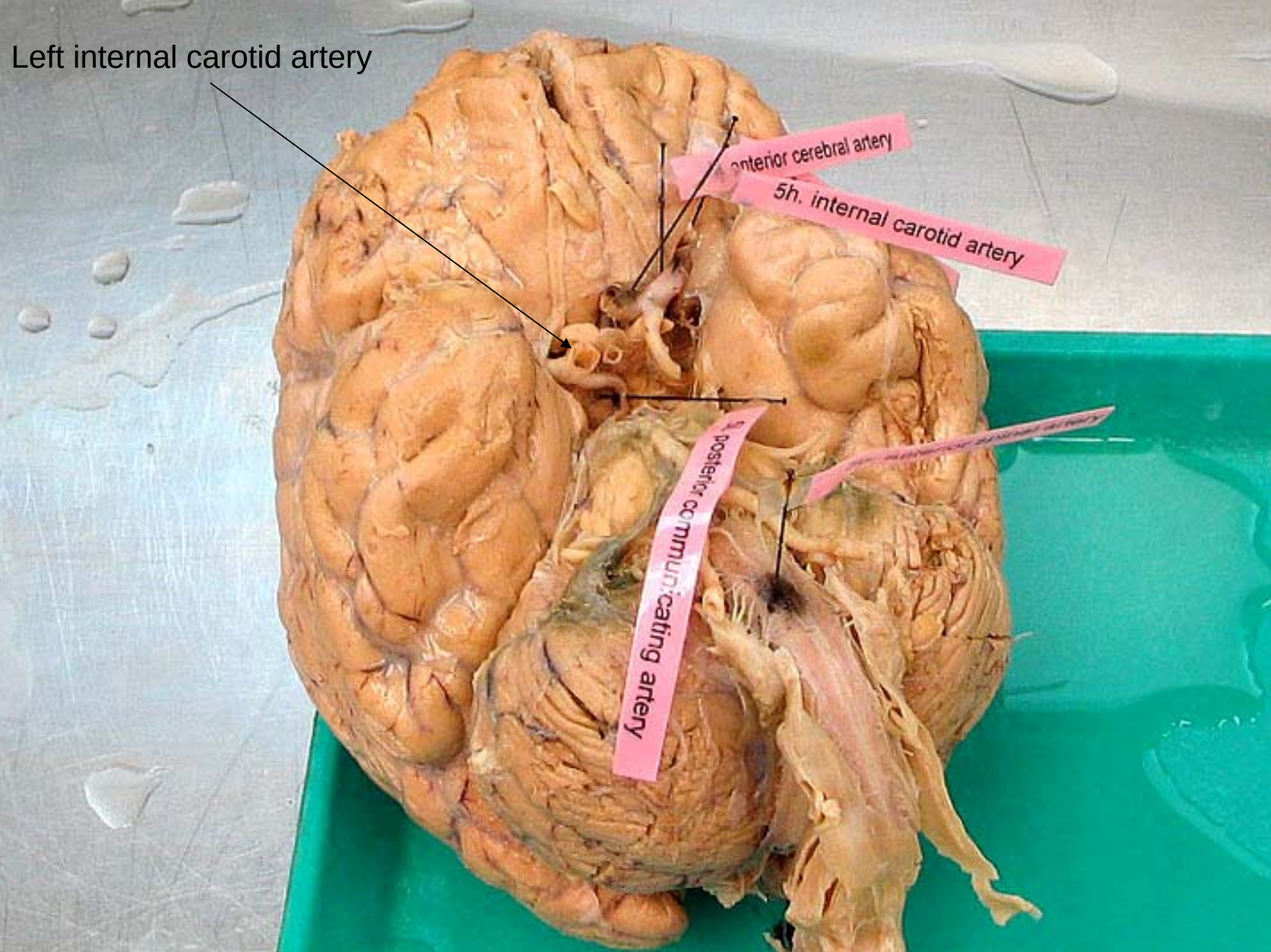

PICA is the small artery branching
out of the right vertebral artery
5d. posterior inferior
cerebellar artery (PICA)

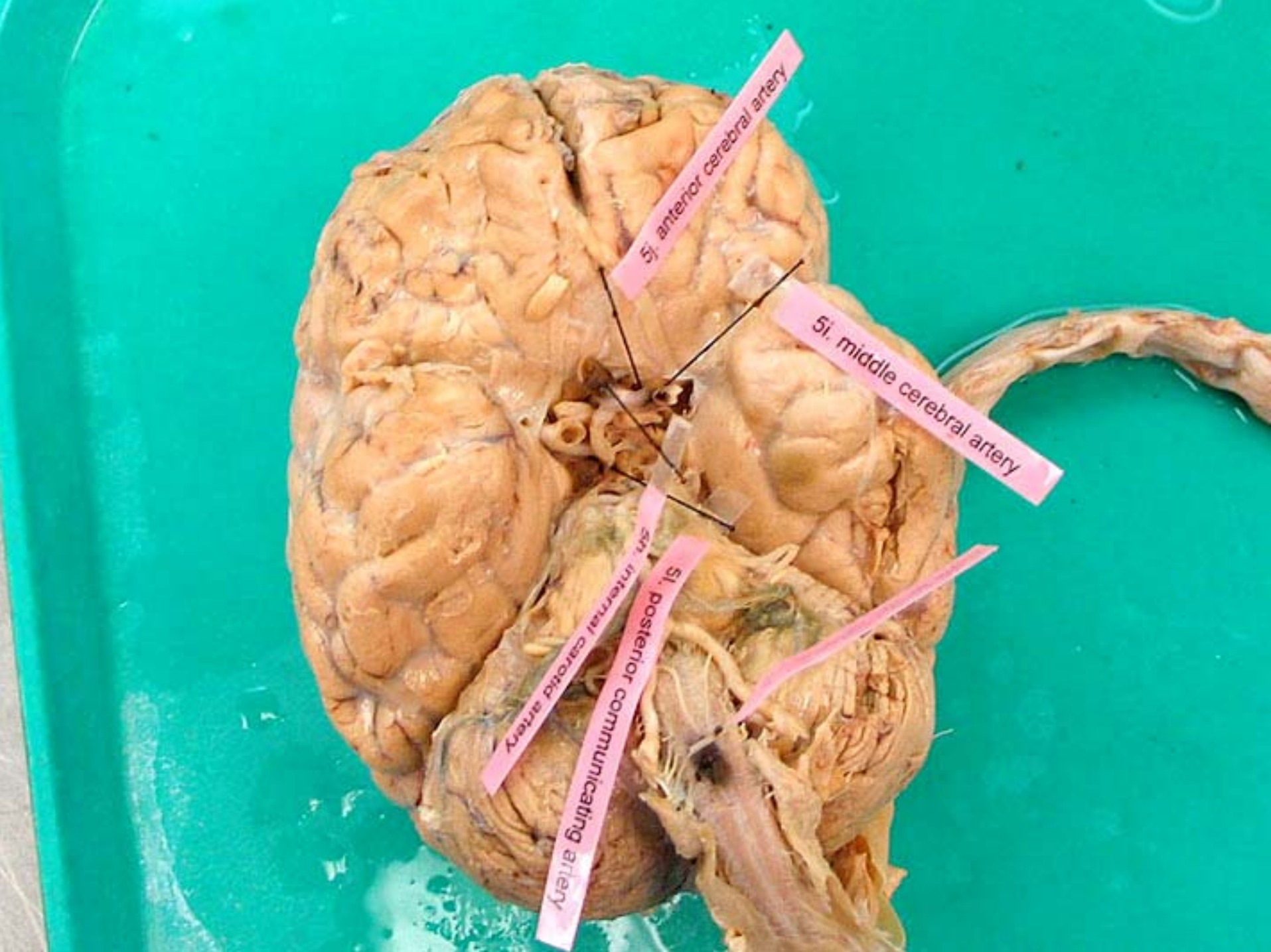

5e. anterior inferior cerebellar artery (AICA)

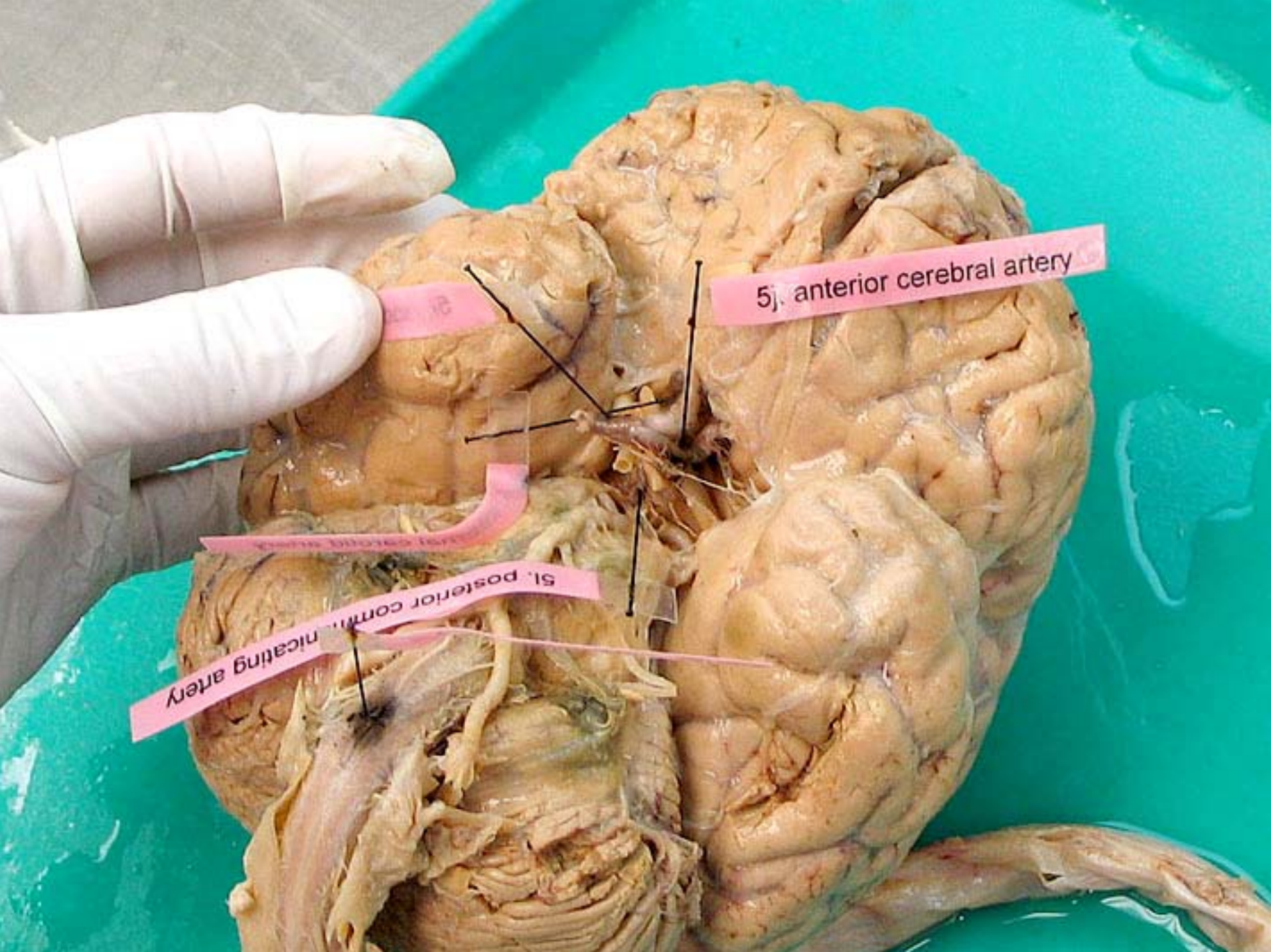
The superior cerebellar artery travels from the end of the basilar artery over the cerebellum and UNDER the tentorium cerebelli.

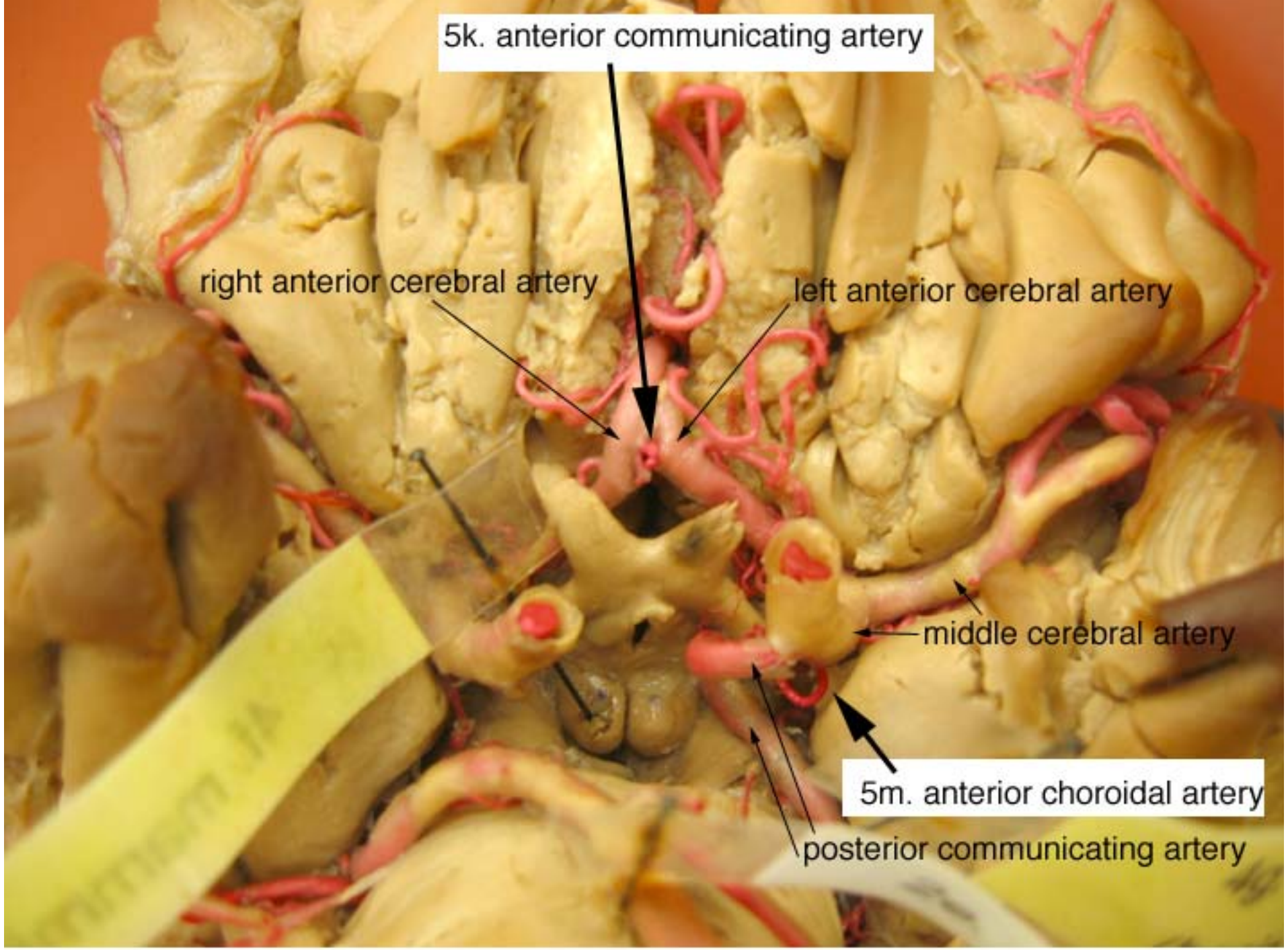


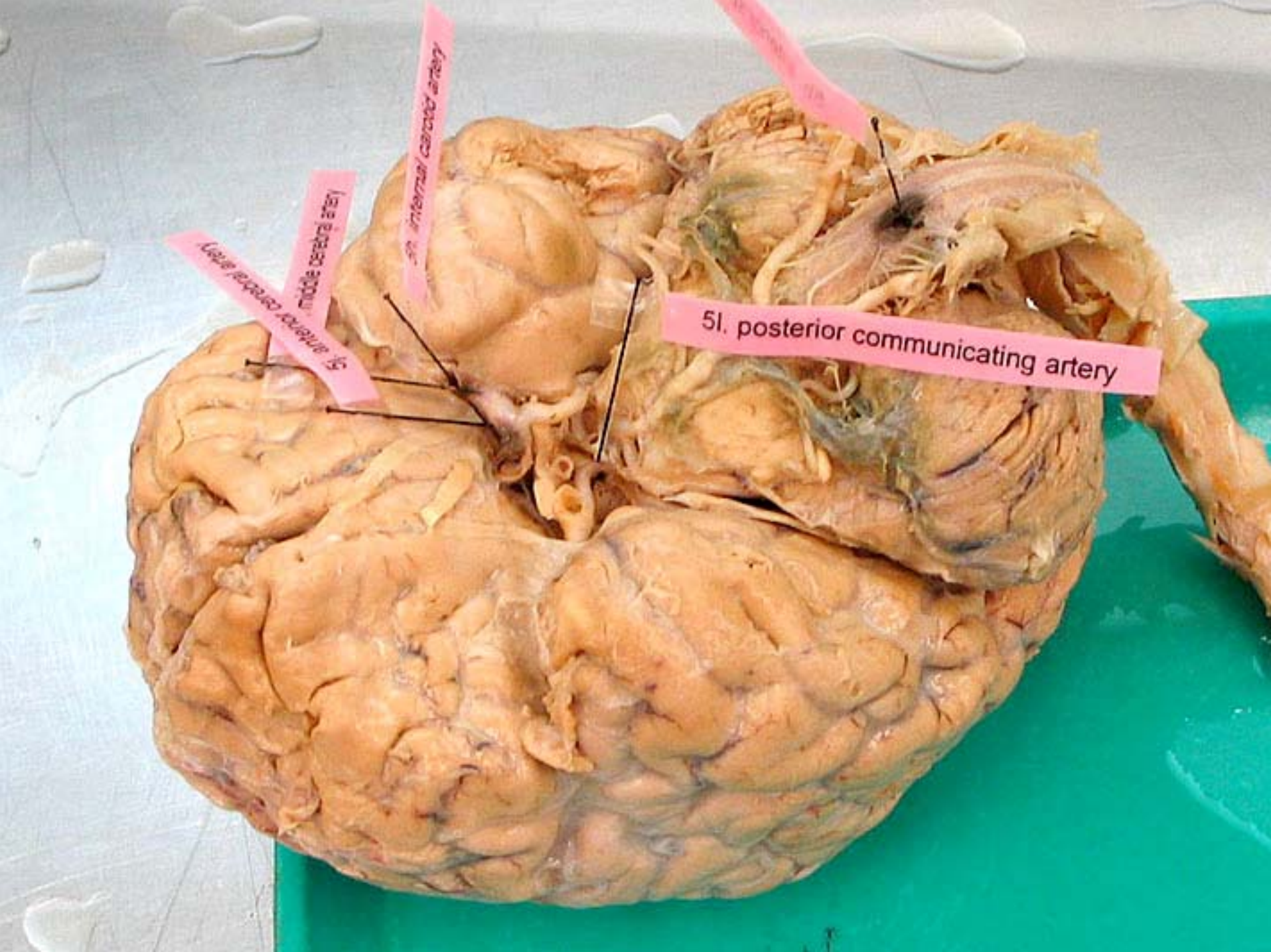

5c. basilar artery
5a. vertebral artery
5g. posterior cerebral artery

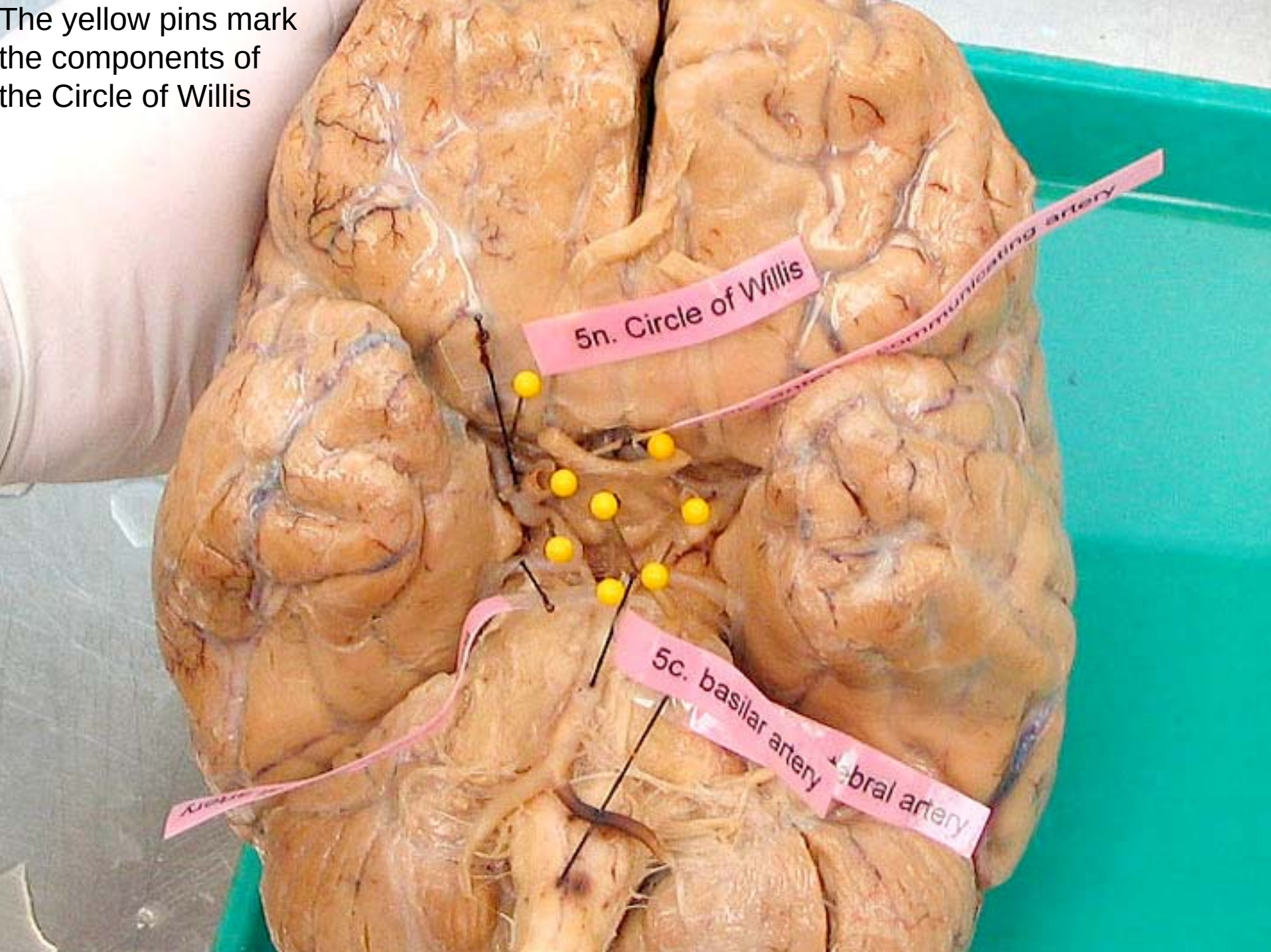

Left internal carotid artery
anterior cerebral artery
5h. internal carotid artery
posterior communicating artery


5i. anterior cerebral artery
5i. middle cerebral artery
5i. internal carotid artery
5i. posterior communicating artery


5j. anterior cerebral artery


5k. anterior communicating artery
right anterior cerebral artery
left anterior cerebral artery
middle cerebral artery
5m. anterior choroidal artery
posterior communicating artery


5l. posterior communicating artery


The yellow pins mark
the components of
the Circle of Willis
5n. Circle of Willis
5c. basilar artery