1 FACIAL NERVE (VII). Nerve arising from the second pharyngeal arch. It emerges from the brain at the pontocerebellar angle between the pons and inferior olive and passes with the vestibulocochlear nerve to the petrous part of the temporal bone, which it exits via the stylomastoid foramen. It supplies the muscles of facial expression. A B C D

2 **Geniculum of facial nerve.** Genu of the facial nerve located just beneath the anterior wall of the petrous part of temporal bone where the facial nerve changes direction from anterolateral to posterolateral. A

3 **Nerve to stapedius.** Branch supplying the stapedius. A

4 **Posterior auricular nerve.** Branch given off below the stylomastoid foramen. It passes superiorly between the mastoid process and external acoustic meatus and supplies the posterior muscles of the ear and occipital belly of occipitofrontalis. B

5 *Occipital branch*. Branch supplying the occipital belly of occipitofrontalis. B

6 *Auricular branch*. Branch to the muscles of the auricle. B

7 **Digastric branch.** Branch supplying the posterior belly of digastric. A B

8 **Stylohyoid branch.** Branch supplying the stylohyoid that sometimes arises together with the lingual branch. A

9 **Communicating branch with glossopharyngeal nerve.** A

10 **Parotid plexus.** Facial nerve plexus in the connective-tissue space between the two portions of the parotid gland. B

11 **Temporal branches.** Branches ascending over the zygomatic arch to supply the muscles of facial expression above the palpebral fissure and ear. B

12 **Zygomatic branches.** Branches supplying the lateral portion of the orbicularis oculi and mimetic muscles between the lid and oral fissure. B

13 **Buccal branches.** Branches supplying the buccinator and mimetic muscles around the mouth. B

14 **[[Lingual branch]].** Inconstant sensory branch supplying the tongue.

15 **Marginal mandibular branch.** Branch traveling above the mandibular margin and supplying the muscles of facial expression below the oral fissure. B

16 **Cervical branch.** Motor branch supplying the platysma. It anastomoses with the transverse cervical nerve. B

17 **Intermediate nerve.** Nonmotor portion of the facial nerve. It emerges from the brainstem between the facial and vestibulocochlear nerves and conveys autonomic and taste fibers. After various anastomoses, it merges with the facial nerve in the petrous part of the temporal bone. D

18 **Geniculate ganglion.** Equivalent of a spinal ganglion located at the geniculum of the facial nerve in the petrous part of the temporal bone. It contains pseudounipolar ganglion cells that form the chorda tympani. A

19 **Chorda tympani; Parasympathetic root of submandibular ganglion.** Parasympathetic fibers of the chorda tympani that travel to the submandibular ganglion. C

20 **Greater petrosal nerve; Parasympathetic root of pterygopalatine ganglion.** Nerve leaving CN VII at the geniculate ganglion as a bundle of parasympathetic fibers. It reaches the anterior surface of the petrous pyramid, passes through the foramen lacerum, and travels with the deep petrosal nerve in the pterygoid canal to the pterygopalatine ganglion. A C

21 **Sympathetic root; Deep petrosal nerve.** Sympathetic fibers from the internal carotid plexus. They unite with the greater petrosal nerve to form the nerve of the pterygoid canal. C

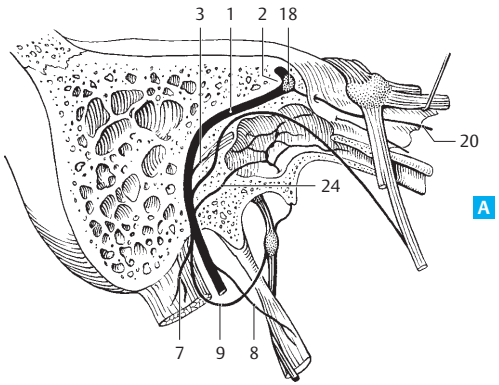
22 **Nerve of pterygoid canal.** Nerve lying in the pterygoid canal situated in the root of the pterygoid process. It contains parasympathetic and sympathetic fibers and passes to the pterygopalatine ganglion. C

23 **Sympathetic root of submandibular ganglion.** Sympathetic fibers from the internal carotid plexus. They pass to the submandibular ganglion via the facial artery and do not synapse. C

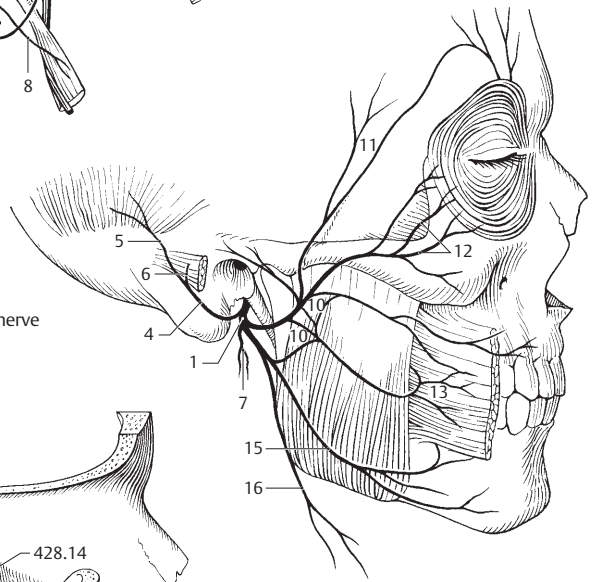
24 **Communicating branch with tympanic plexus.** A

25 **Communicating branch with vagus nerve.** Communicating branch located immediately beneath the stylomastoid foramen.

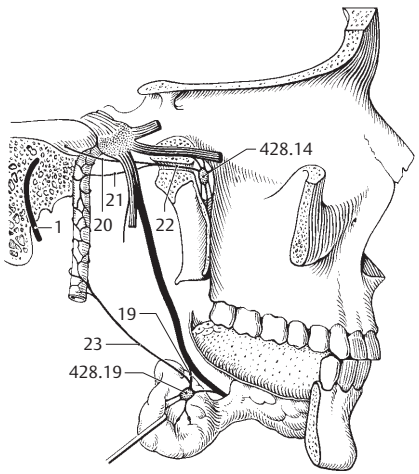




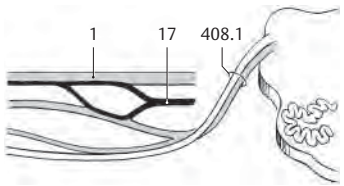

A Facial nerve in temporal bone




B Facial nerve




C Pterygopalatine and submandibular ganglia




D Facial and vestibulocochlear nerves