

GLOSSOPHARYNGEAL NERVE

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I. GLOSSOPHARYNGEAL NERVE - branches

1. **Tympanic Nerve** - forms tympanic plexus, Visceral sensory (GVA) to middle ear, mastoid air sinus, auditory tube

2. **Lesser Petrosal Nerve** - Parasympathetic (visceral motor = GVE) (often a branch of tympanic plexus)

a. passes through middle ear into cranium, out again via foramen ovale, **joins V3 Auriculotemporal nerve**

b. contains - **parasympathetics to parotid gland (synapse in otic ganglion)**

3. Carotid branches - Visceral sensory to carotid sinus - baroreception (pressure); to carotid body - chemoreception

4. Nerve to stylopharyngeus muscle - Branchial motor (SVE) - only voluntary motor nerve in IX

5. Pharyngeal branches - Visceral sensory (GVA) to mucosa of pharynx

6. Tonsillar branches - Visceral sensory (GVA) to muscosa palatine tonsil

7. Lingual branches - contain taste fibers (SVA) of posterior 1/3 of tongue
- contain touch fibers (note: visceral sensory = GVA) of posterior 1/3 of tongue

II. PARASYMPATHETICS OF IX JOIN BRANCHES OF V

A. Parasympathetics – Visceral motor (GVE)

NERVE	PRE-GANGLIONIC FIBER IN	POST-GANGLIONIC FIBERS ARISE IN	JOINS	INNERVATES
IX	Lesser Petrosal n.	Otic ganglion	Auriculotemporal n. (V3)	Parotid gland