

*13th lecture*

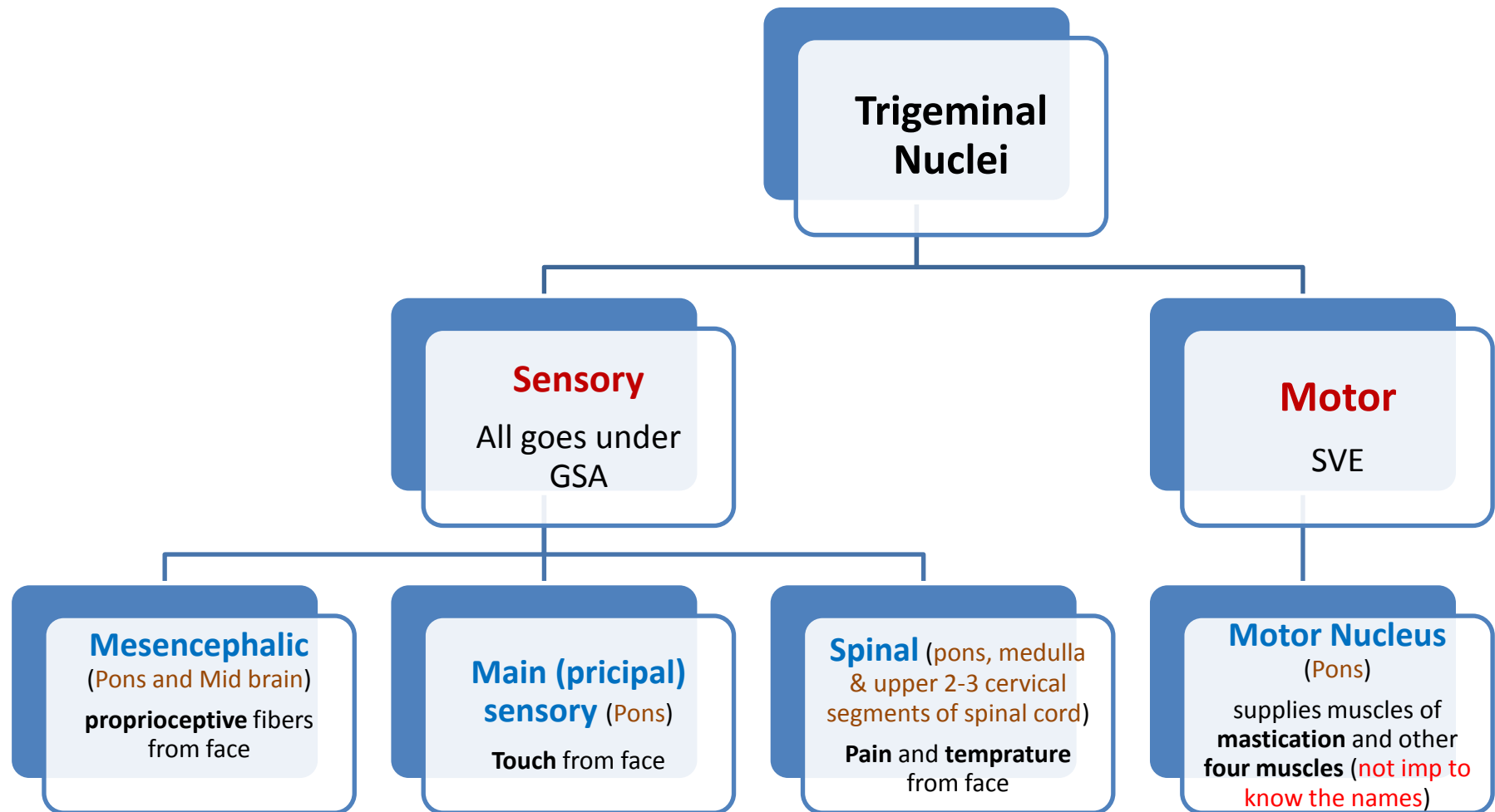
*The trigeminal V & facial VII nerves*

*We advise you to study the lecture  
first and best of luck*

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Divisions of V CN	Type		Subdivisions	Innervations
Ophthalmic	Sensory		Frontal	supplies skin of face & scalp
			Lacrimal	supplies skin of face & lacrimal gland
			Nasociliary	supplies skin of face, nasal cavity & eyeball
Maxillary	Sensory			Upper teeth, gums & maxillary air sinus: (posterior, middle & anterior superior alveolar nerves).
				Face: (zygomaticofacial & infraorbital nerves).
Mandibular	<u>Mixed</u>	S E N S O R Y	Lingual	General sensations from anterior 2/3 of tongue
			Inferior alveolar	Lower teeth, gums & face.
			Buccal	Face
			Auriculotemporal	auricle, temple, parotid gland & TMJ
		Motor		Four muscles for mastication and other four.

## Facial Nuclei



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graph TD; A[Facial Nuclei] --> B[Parasympathetic(GVE)]; A --> C[Sensory(SVA)]; A --> D[Motor(SVE)]; B --> E["parasympathetic secretory fibers to lacrimal, submandibular, sublingual, nasal & palatine glands"]; C --> F["carrying taste sensation from anterior 2/3 of the tongue"]; D --> G["supplying muscles developed from the 2nd pharyngeal arch."];
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The diagram is a hierarchical flowchart. At the top is a box labeled 'Facial Nuclei'. A horizontal line below it branches into three vertical lines, each leading to a box: 'Parasympathetic(GVE)', 'Sensory(SVA)', and 'Motor(SVE)'. Below each of these three boxes is another vertical line leading to a final box containing descriptive text. The boxes are light blue with dark blue borders and are arranged in a symmetrical, tree-like structure.

Parasympathetic(GVE)

parasympathetic secretory fibers to lacrimal, submandibular, sublingual, nasal & palatine glands

Sensory(SVA)

carrying taste sensation from anterior 2/3 of the tongue

Motor(SVE)

supplying muscles developed from the 2<sup>nd</sup> pharyngeal arch.

Divisions of VII CN By site	Branches	Innervation
Facial canal	Greater petrosal nerve	carries preganglionic parasympathetic fibers to lacrimal, nasal & palatine glands
	Chorda Tempani	carries: a) preganglionic parasympathetic fibers to submandibular & sublingual glands. b) taste fibers from anterior 2/3 of tongue
	Nerve to stapedius	
After Stylomastoid Foramen	Posterior auricular	to occipitofrontalis
	Muscular branches	to posterior belly of digastric & stylohyoid.
Inside parotid gland	To 5 terminal motorbranches : temporal, zygomatic, buccal, mandibular cervical.	

\*Good Luck\*