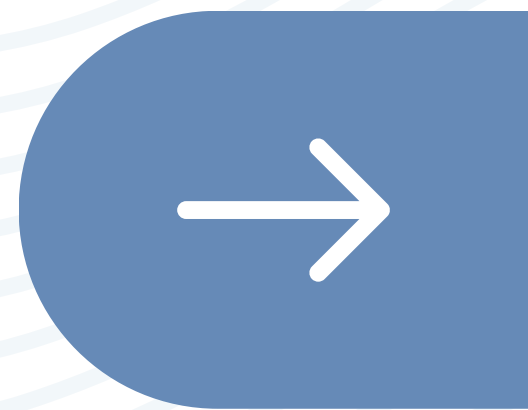


# #DIBS BY NEXTILLO

DAILY INFORMATION BULLETIN SERVICE

**FACIAL NERVE**





# #DIBSBYNEXTILLO

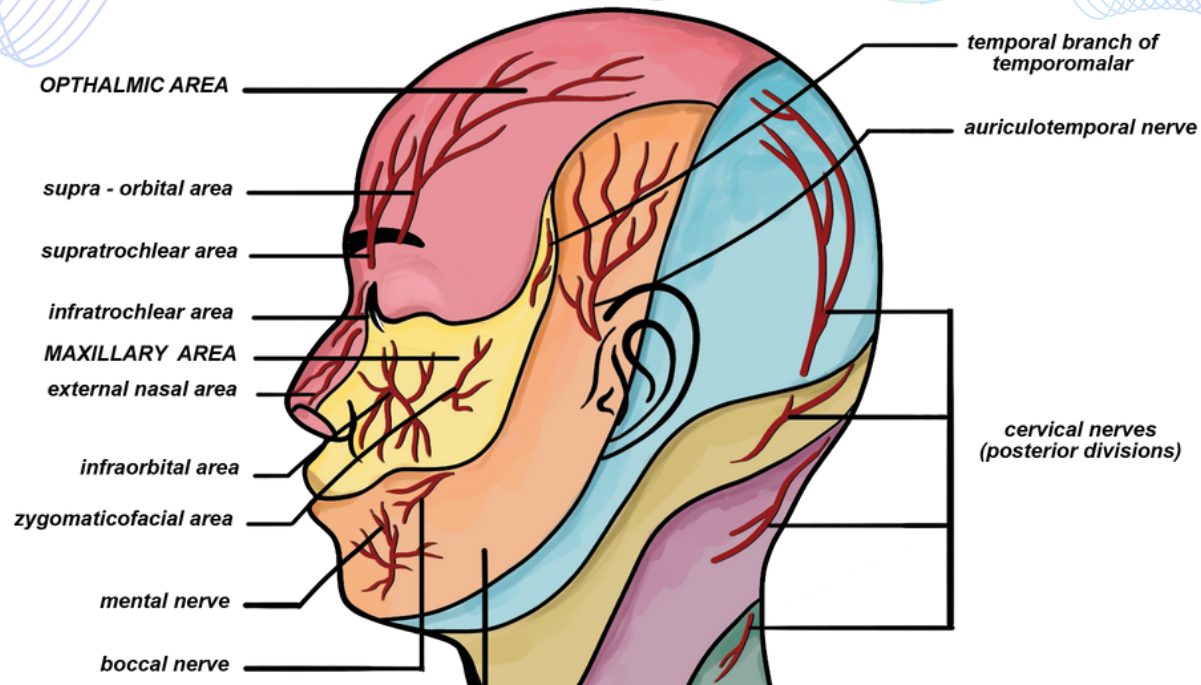
DAILY INFORMATION BULLETIN SERVICE

## FACIAL NERVE

*The facial nerve has five main branches, although the anatomy can vary somewhat between individuals.*

*The branches are, from top to bottom: frontal (or temporal), zygomatic, buccal, marginal mandibular, and cervical. Each of these branches provides input to a group of muscles of facial expression.*

# IMAGE DESCRIPTION



- A detailed anatomical illustration depicting the facial nerve's detailed pathway.
- Facial Nerve's Role: Controls facial muscles and senses around external ear.
- Chorda Tympani: Transmits taste, travels through middle ear to tongue.
- Parasympathetic Supply: Innervates glands, including salivary and lacrimal glands.
- Intricate Pathway: Originates in pons, exits via stylomastoid foramen.
- Clinical Significance: Lesions can lead to facial paralysis and taste loss.



# INTERNAL AUDITORY CANAL (IAC) SEGMENTS

## ***Fundus (Lateral End):***

***Marks the beginning of the IAC, situated laterally.***

## ***Labyrinthine Segment:***

***Only intra-temporal segment not within the bony labyrinth.***

## ***Tympanic/Horizontal Segment:***

***Shortest and narrowest, within the middle ear's medial wall.***

## ***Mastoid/Vertical Segment:***

***Extends into the mastoid, running along the posterior middle ear wall.***

## ***Stylomastoid Foramen:***

***Marks the end of the IAC, leading to the facial nerve exit.***



# GENU AND FALLOPIAN CANAL COURSE

## **1st Genu:**

**Marks the first sharp turn within the IAC.**

## **2nd Genu:**

**Represents the second turn within the canal.**

## **Geniculate Ganglion:**

**Located at the 1st genu, houses the sensory cell bodies of the facial nerve.**

## **Fallopian Canal:**

**Housing the facial nerve, it extends from the geniculate ganglion to the stylomastoid foramen.**

## **Length Variation:**

**Segments range in length, with the labyrinthine being notably short.**





# MEATAL AND PORUS REGIONS

## ***Meatal Segment:***

***Encompasses the internal acoustic meatus and extends to the porus acousticus.***

## ***Porus Acousticus:***

***Marks the exit point from the IAC to the cerebellopontine angle.***

## ***Acoustic Meatus:***

***Represents the canal leading to the inner ear.***

## ***Medial Middle Ear Run:***

***The tympanic segment runs medially within the middle ear.***

## ***Posterior Middle Ear Run:***

***The mastoid segment traverses the posterior middle ear wall.***



# FACIAL NERVE

## **Question:**

***Which part of the facial nerve gives rise to the chordae tympani, responsible for taste transmission and glandular regulation?***

- a.) *Temporal branch*
- b.) *Buccal branch*
- c.) *Vertical segment (4th part)*
- d.) *Cervical branch*

***Correct Answer: c.) Vertical segment (4th part)***