

## Unit 15:

# Face and scalp

## Chapter 7 (Head)

### GENERAL OBJECTIVES:

- general considerations of the organization of layers in face and scalp
- muscles of facial expression and their
- irrigation and innervations of scalp and face

### SPECIFIC OBJECTIVES:

#### **1. Layers**

##### a. Scalp

- organization: S.C.A.L.P. as an acronym for layers
- note: layers in which neurovascular structures course  
The lack of deep fascia  
The muscular part of the aponeurotic layer

##### b. Face

- similar organization to scalp, with no deep fascia
- in face a muscular layer replaces aponeurotic layer of scalp

#### **2. Muscles of scalp and face**

- derived embryologically from mesenchyme of '2<sup>nd</sup> pharyngeal arch'
- 'muscles of facial expression'
- sphincters and dilators

#### **3. Nerve supply to SCALP and face**

##### a. Motor (branchial/special visceral efferent) CN VII

- Note: entry and exit foraminae in petrous temporal bone (use skull bones)  
Extracranial course through the parotid gland and formation of 'pes anserinus'  
Branches and distribution

##### b. Sensory (three branches)

##### CN V

- Note: V1: supraorbital, supratrochlear, infratrochlear, external nasal, lacrimal  
V2: zygomaticotemporal, zygomaticofacial, infraorbital  
V3: auriculotemporal, buccal, mental

Cutaneous branches from ventral and dorsal rami of cervical spinal nerves

#### **4. Vascular supply to SCALP and face**

##### a. Arterial

- 4 branches of external carotid (occipital, posterior auricular, superficial temporal, facial)
- 2 branches of internal carotid (supraorbital and supratrochlear)
- area of overlap

##### b. Venous

- communications between veins of orbit and superficial veins of face

##### c. Lymphatic drainage of scalp and face