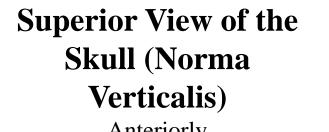




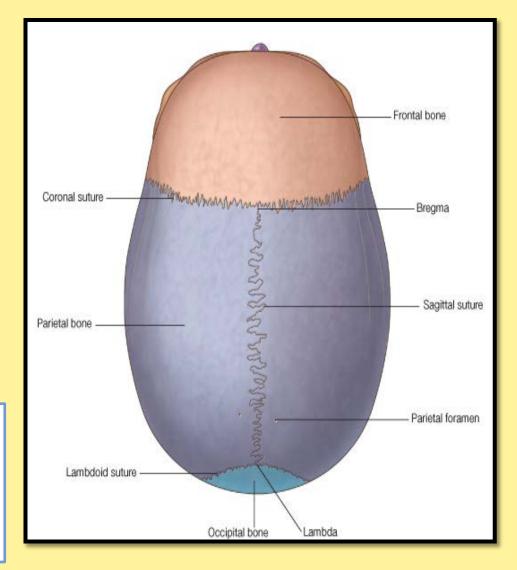
BY MOHAMED F. ABU ALIA IN DEDICATION TO RAKAN RADI



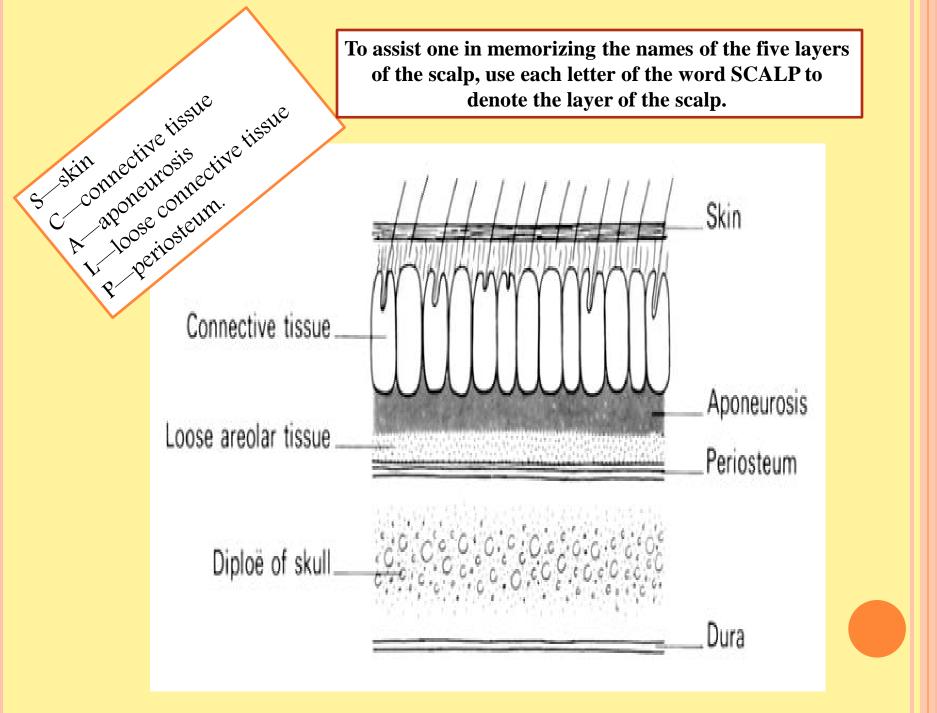
Anteriorly the frontal bone articulates with the two parietal bones

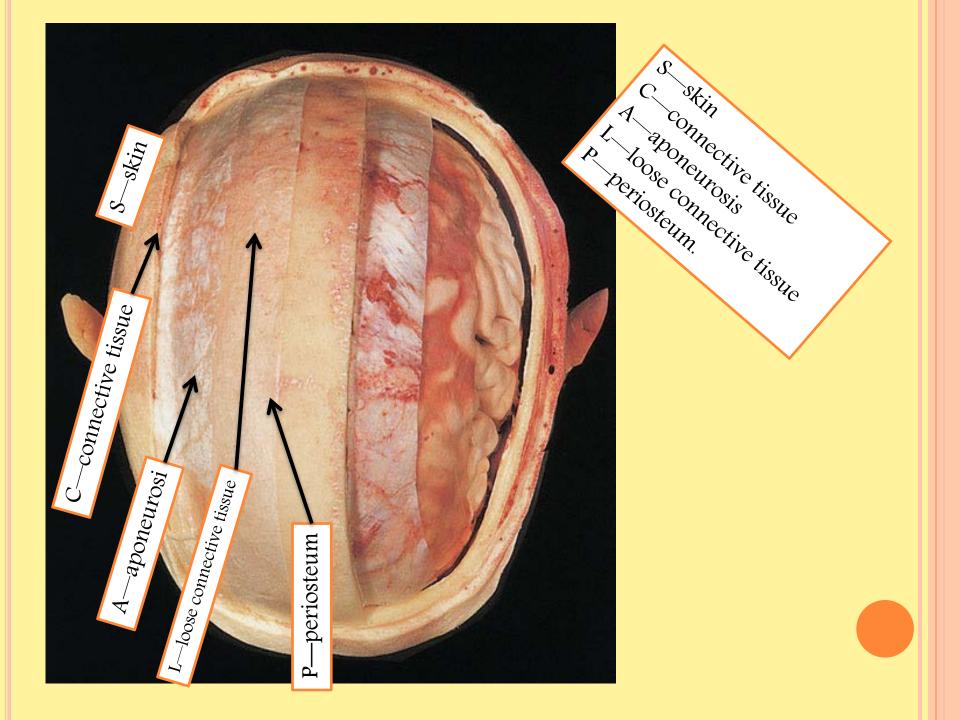
<u>AT THE</u> CORONAL SUTURE

The two parietal bones articulate in the midline **AT THE SAGITTAL SUTURE**



lambdoid sutures





The Scalp

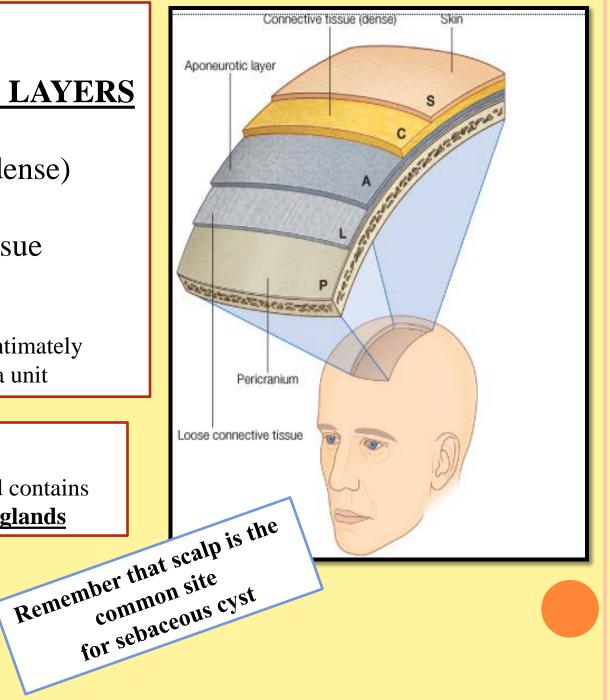
The scalp consists of <u>FIVE LAYERS</u> S-skin

C-connective tissue (dense) A-aponeurotic layer L-loose connective tissue P-pericranium

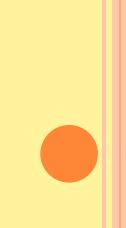
The first three of which are intimately bound together and move as a unit

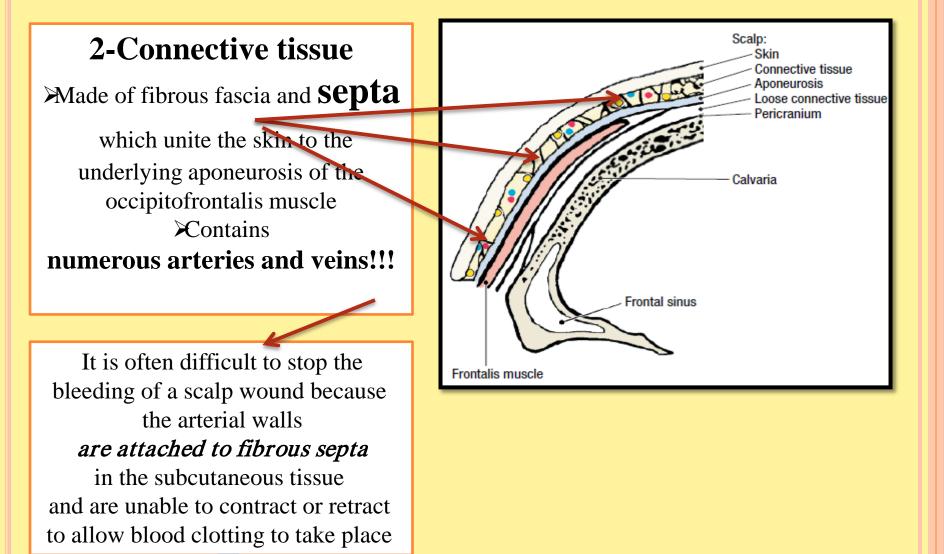
1-Skin

is thick contains hair and contains numerous <u>sebaceous glands</u>









Local pressure applied to the scalp is the only satisfactory method of stopping the bleeding

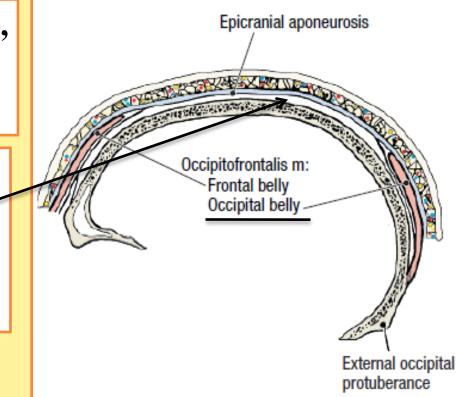
3-Aponeurosis (epicranial), is a thin, tendinous sheet that unites the

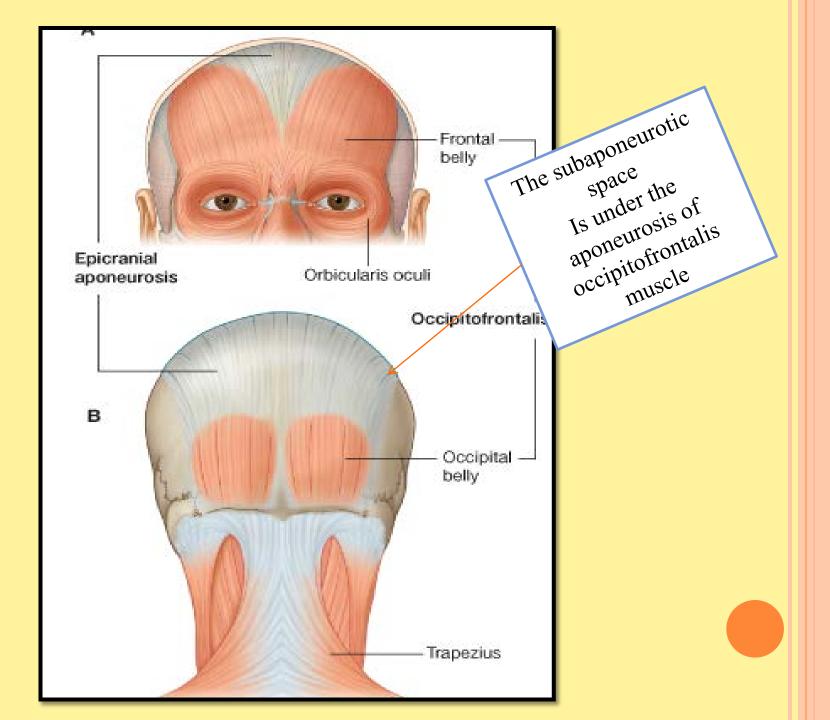
occipital and frontal bellies of the occipitofrontalis muscle

Epicranail aponeurosis The lateral margins of the aponeurosis are attached to the temporal fascia. The subaponeurotic space is the potential space beneath the epicranial aponeurosis.

It is limited in front and behind by the origins of the occipitofrontalis muscle, and it extends laterally as far as the attachment of the aponeurosis to the temporal fascia

The tension of the epicranial aponeurosis, produced by the tone of the occipitofrontalis muscles, is important in all deep wounds of the scalp. If the aponeurosis has been divided, the wound will gape open. For satisfactory healing to take place, the opening in the aponeurosis must be closed with sutures





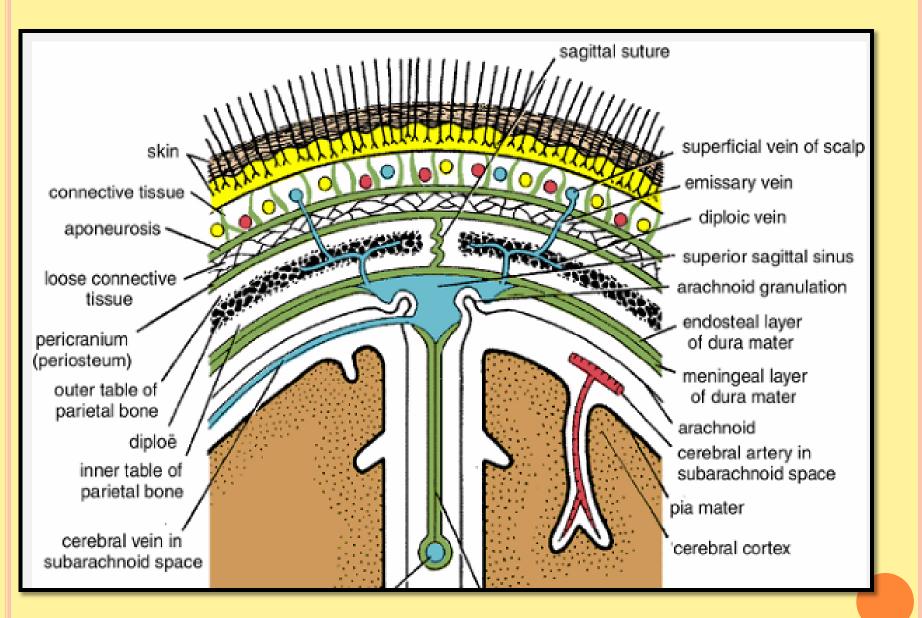
4-Loose areolar tissue

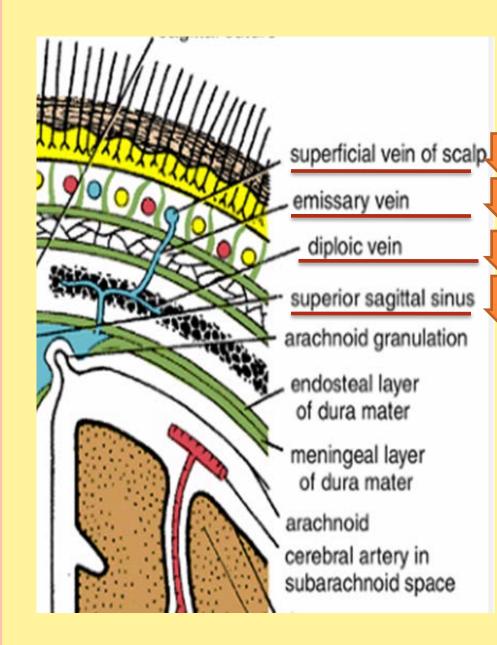


>Occupies the subaponeurotic space and <u>extends anteriorly to the eyelids</u> Therefore, any blood collection in this layer may extend to the root of the nose and the eyelids causing Black eye



Black eyesthink of head trauma





 \geq Made of loose areolar tissue which contains

important emissary veins.

The emissary veins are valveless and connect The superficial veins of the scalp with the diploic veins of the skull bones

Causing Osteomyelitis

Infected blood in the diploic veins may travel by the emissary veins farther into the venous sinuses and produce venous sinus thrombosis

5-Pericranium

is the periosteum covering the outer surface of the skull bones. The sutures between individual skull bones, the periosteum on the outer surface of the bones becomes continuous with the periosteum on the inner surface of the skull bones . THEREFORE if there is any fluid collection beneath the pericranium (Cephalhaematoma) it will take the shape of the related bone



A right parietal cephalhematoma was first noted on this 2-week-old girl 2 days after her birth. Caused by bleeding under the **outer periosteum of a newborn's skull bone, usually the parietal bone**, swelling becomes evident by day 2 or 3 after delivery. The swelling is confined to the involved bone and does not extend beyond the suture lines or the midline of the skull

Read only

Treatment with <u>needle aspiration is contraindicated</u> because of the possibility of introducing an infection

Muscles of the Scalp Occipitofrontalis

The origin Insertion nerve supply action The frontal bellies of the occipitofrontalis can raise the eyebrows in expressions of surprise or horror.

