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Original Article

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THE STUDY OF CRANIOFACIAL CORRESPONDENCE OF THE EYE REGION STRUCTURES ON ANATOMICAL MATERIAL. METHODOLOGICAL ASPECTS

The unique characteristics of the human facial eye area are determined by the specific relationships between the bone orbit morphology and surrounding soft tissues, creating the distinctiveness of each individual face. Understanding of the relationship between the eyelids structure and the position of the eyeball ensures accurate reconstruction of a face based on the cranial characteristics. The paper presents a protocol for studying craniofacial relationships on anatomical material. It includes dissection, photo-recording and measurements on anatomical specimens and their images. The position of the pupil center in relation to the bone orbit was determined on full-face and profile specimens. The attachment sites of the canthal ligaments and their position in relation to the inner and outer corners of the eye were recorded. Detailed measurements of the bone and soft tissue structures of the eye region were taken. The author also proposes a method for determining the area of the opening of the palpebral fissure relative to the area of the orbital base. The ratio of the palpebral fissure area to the area of the orbital base was about 50%. In our case the pupil center was positioned superiorly towards the upper edge of the orbit. The results were compared with similar studies on different material.

Keywords: anthropological reconstruction of the appearance, morphology of the ocular region, orbit, anatomical specimen

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