

Original article:

Age estimation from cranial sutures – a Postmortem study

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Abstract:

Age estimation is an integral part of the biological profile employed by forensic anthropologists in order to assist in achieving an identification of an unknown deceased individual. Its estimation is of paramount importance and requires special attention in cases where bodies are found in decomposed, mutilated state or only fragmentary remains are discovered. After 25 years of age, other scientific methods like tooth microscopy, Gustafson's method (applicable to dead persons only), study of union of parts of sternum, tipping of joints and closure of cranial sutures are considered for age estimation of the individual. The oldest and most controversial age indicator is cranial suture closure. Cranial sutures generally fuse with increasing age, although there is considerable variability in closure rates and patterns.¹

The present study has been done on post-mortem cases referred to Government hospital, Mumbai which is a tertiary referral centre. It becomes difficult to determine age in middle and older age groups and as Very few studies have been conducted on cranial suture closure of Mumbai region subjects we decided to do study on suture closure by actually viewing the stage of closure of suture of autopsy dead body, to see the actual fusion and its correlation with age and to compare with the documented present studies. Present study reveal that Ectocranial obliteration of the various segments of the three main sutures of the skull is so inconclusive that neither does it help in estimating the age of the deceased nor does it provide any supportive evidence in determining the age of skeletal remain. Age was determined on the basis of endocranial suture fusion. It was found that almost Complete closure of Sagittal suture occurs at the age of 61 to 65 yrs, almost Complete closure of coronal suture occurs at the age of 56 to 60 yrs, almost Complete closure of lambdoid suture occurs at the age of 66 to 70 yrs and almost Complete closure of Temporoparietal suture occurs at the age of 66 to 70 yrs.

Keywords: Suture, Sagittal, Coronal, lambdoid, Temporoparietal

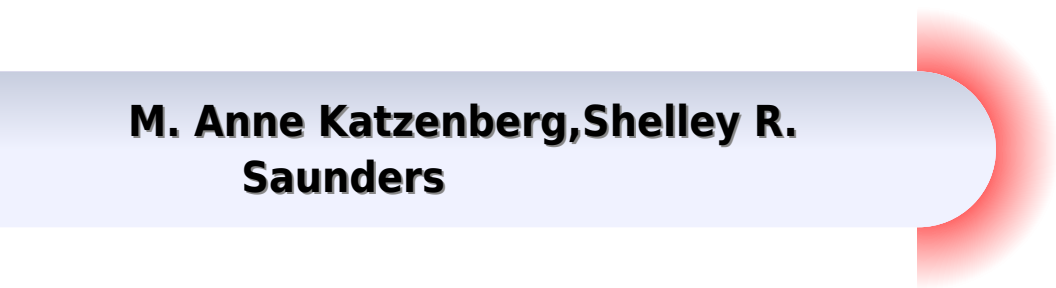
Introduction:

Identification is recognition of an individual by means of various physical features and biological parameters, which are unique to each individual. Question of identification arises in everyday medicolegal practice both in civil cases like marriage, inheritance, insurance and disputed sex etc, and in criminal cases like assault, murder, rape

etc. and even in new born cases when babies get interchanged.¹ Age estimation is an integral part of the biological profile employed by forensic anthropologists in order to assist in achieving an identification of an unknown deceased individual. Its estimation is of paramount importance and requires special attention in cases where bodies are found in decomposed, mutilated state or only

Age Estimation From Cranial Sutures A Postmortem Study

**M. Anne Katzenberg, Shelley R.
Saunders**



Age Estimation From Cranial Sutures A Postmortem Study:

Reviewing **Age Estimation From Cranial Sutures A Postmortem Study**: Unlocking the Spellbinding Force of Linguistics

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