

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.¹¹

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

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Forensic Anthropology Angi M. Christensen, Nicholas V. Passalacqua, Eric J. Bartelink, 2013-12-30 Forensic Anthropology Current Methods and Practice winner of a 2015 Textbook Excellence Award Texty from The Text and Academic Authors Association approaches forensic anthropology through an innovative style using current practices and real case studies drawn from the varied experiences backgrounds and practices of working forensic anthropologists This text guides the reader through all aspects of human remains recovery and forensic anthropological analysis presenting principles at a level that is appropriate for those new to the field while at the same time incorporating evolutionary biomechanical and other theoretical foundations for the features and phenomena encountered in forensic anthropological casework Attention is focused primarily on the most recent and scientifically valid applications commonly employed by working forensic anthropologists Readers will therefore learn about innovative techniques in the discipline and aspiring practitioners will be prepared by understanding the necessary background needed to work in the field today Instructors and students will find Forensic Anthropology Current Methods and Practice comprehensive practical and relevant to the modern discipline of forensic anthropology Winner of a 2015 Most Promising New Textbook Award from the Text and Academic Authors Association Focuses on modern methods recent advances in research and technology and current challenges in the science of forensic anthropology Addresses issues of international relevance such as the role of forensic anthropology in mass disaster response and human rights investigations Includes chapter summaries topic-oriented case studies keywords and reflective questions to increase active student learning

Forensic Histopathology Reinhard B. Dettmeyer, 2018-05-18 This second edition which combines the features of an atlas and a textbook presents findings in forensic histology immunohistochemistry and cytology based on microscopic investigations using different stainings and different antibodies Questions of quality when working in the field of forensic histology are included as well as scientific perspectives for further research The principal aim is to provide practitioners with detailed information and guidance on how microscopy can help to clarify the cause of sudden and unexpected death Therefore additional and particularly rare histopathological findings are presented Many of the topics will be of interest not only to forensic pathologists but also to general pathologists whether practitioners or researchers Examples include the pathology of drug abuse wound age determination adverse drug reactions histopathology of the sudden infant death syndrome and age determination of myocardial infarction Both typical and unusual findings are demonstrated with the aid of numerous high quality color illustrations and other key literature in forensic histology and immunohistochemistry is highlighted for each topic

Ostéopathie orofaciale et temporomandibulaire Nicette Sergueef, 2021-01-26 Cet ouvrage propose une approche du concept cranosacral permettant d'clairer le lecteur sur l'impact que peut avoir une dysfonction pr sente au niveau de la sph re orofaciale et temporomandibulaire sur des domaines ou champs aussi vari s que l'axe vert bral la respiration l'occlusion dentaire la posture et plus largement sur les diff rents syst

mes du corps Illustré de plus de 250 dessins photographies et schémas ce livre fait le point sur les différentes phases de la croissance le développement des fonctions orofaciales et leur impact décisif sur celui de la face sa structure et son équilibre les dysfonctions de la naissance l'âge adulte l'articulation temporomandibulaire les approches orthodontiques et ostéopathiques la place de la collaboration interprofessionnelle et l'articulation des différentes thérapies Ce livre exhaustif permet au praticien d'établir le lien entre les différents composants de la sphère orale le crâne et le reste du corps Garantissant une maîtrise de l'anatomie il participe ainsi à la compréhension des troubles du développement qui doivent être envisagés et pris en charge aussi précocement que possible Il accompagnera dans leur pratique ostéopathes kinésithérapeutes dentistes orthodontistes et orthophonistes dans l'approche de l'appareil manducateur l'articulation temporomandibulaire et les traitements orthodontiques

Forensic Medicine Reinhard B. Dettmeyer, Marcel A. Verhoff, Harald F. Schütz, 2013-10-09

This book presents the latest developments in the field of forensic pathology forensic medicine including important advances in forensic histopathology forensic radiology medical malpractice understanding of child abuse and forensic toxicology Various forms of trauma are addressed in individual chapters and among the other topics covered are traffic medicine forensic alcohol toxicology forensic DNA analysis forensic osteology and international regulations The book includes a wealth of color illustrations and numerous tables presenting key facts The authors are leading experts in general pathology forensic radiology and forensic toxicology Forensic Pathology Forensic Medicine Fundamentals and Perspectives will be of interest not only to specialist pathologists and those working in forensic medicine but also to coroners forensic physicians students lawyers attorneys and policemen

Forensic Science Abstracts ,1989

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Indian Anthropologist ,1992 **Shafer'S Textbook Of Oral Pathology (6Th Edition)** R. Rajendran, 2009 *Journal of Danish Archaeology* ,1999 *Human Osteology* Tim D. White, Michael T. Black, Pieter A. Folkens, 2011-01-21 A classic in its field Human Osteology has been used by students and professionals through nearly two decades Now revised and updated for a third edition the book continues to build on its foundation of detailed photographs and practical real world application of science New information expanded coverage of existing chapters and additional supportive photographs keep this book current and valuable for both classroom and field work Osteologists archaeologists anatomists forensic scientists and paleontologists will all find practical information on accurately identifying recovering and analyzing and reporting on human skeletal remains and on making correct deductions from those remains From the world renowned and bestselling team of osteologist Tim D White Michael T Black and photographer Pieter A Folkens Includes hundreds of exceptional photographs in exquisite detail showing the maximum amount of anatomical information Features updated and expanded coverage including forensic damage to bone and updated case study examples Presents life sized images of skeletal parts for ease of study and reference Biological Anthropology of the Human Skeleton Mary Anne Katzenberg, Shelley Rae Saunders, 2008-04-07 The biology of prehistoric and early people is studied through analysis of hard tissue This text provides comprehensive

information on a variety of advanced methods of skeletal analysis employing developments made in the 1990s **Blood Red Roses** Veronica Fiorato, Anthea Boylston, Christopher Knüsel, 2007 Blood Red Roses describes a project involving weapons experts from the Royal Armouries anthropologists archaeologists and a geophysicist who excavated and analysed 37 combatants brutally killed at the Battle of Towton in AD 1461 An additional chapter has been added as well as additional colour illustrations *Fieldiana* ,2001 *Asian Perspectives* ,2002 Journal of Periodontology ,1976 *American Journal of Veterinary Research* ,2002 Vols for 1956 include selected papers from the proceedings of the American Veterinary Medical Association Biological Anthropology of the Human Skeleton M. Anne Katzenberg, Shelley R. Saunders, 2000-04-27 Fascinating changes have occurred in the analysis of human skeletal and dental remains over the past few years *The American Journal of Roentgenology and Radium Therapy* ,1945 **Scripta Geologica** ,1995 **Essentials of Plastic, Maxillofacial, and Reconstructive Surgery** Nicholas G. Georgiade, 1987

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