



Analysis of the Variations in the Morphology, Topography of the Pterion, and Their Implications in Neurosurgery: An Osteometric Study

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Abstract

Objective Pterion is an “H” shaped formation of sutures located in the temporal fossa of the skull. It is an important anatomical landmark and a craniometric point. The thinness of the skull and its inner relation with the middle meningeal artery make this anatomical landmark clinically significant. Variations in the pterion are imperative, especially for neurosurgeons in order to have the most suitable craniometric point to be minimally invasive.

Materials and Methods One hundred pterions were studied to report the variations in the type and location of the pterion. Murphy’s classification was used to classify the pterion into four types on the basis of bone articulation-sphenoparietal, frontotemporal, stellate, and epipteric.

Results All four types of pterions were observed, sphenoparietal being the most common. No significant gender difference was observed in terms of type and laterality of various pterions. The mean distance between the center of pterion to the superolateral point of zygomaticotemporal (PZT) suture and the anterolateral point of the frontozygomatic (PFZ) suture were 3.91 ± 3.79 cm and 3.68 ± 3.79 mm, respectively. Correlation analysis showed a strong positive relation between PZT and PFZ sutures.

Conclusion Accurate data on the morphology and morphometry of bony anatomical points are crucial, while performing intracranial surgery using them as recognizable landmarks. The morphometric parameters may help in determining the soundness of the pterion as an identifiable landmark for performing interventions like burr hole and other neurosurgical procedures in this area.

Keywords

- cranial sutures
- craniotomy
- burr hole
- pterion
- middle meningeal artery

Introduction

Floor of the temporal fossa in the skull is formed by greater wing of sphenoid, frontal bone, parietal bone, and squamous

part of the temporal bone. Here, these four bones meet at an H-shaped junction of the sutures termed the pterion.^{1,2} Being covered superficially by scalp and the origin of the

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**Hermann Dietz, Charles Langmaid, E.
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Progress in Paediatric Neurosurgery Jesse Howard Muncie, John Louis Horsfall, Otto Olson, Pennsylvania State College. Agricultural Experiment Station, R. Bruce Dunlap, Samuel Irvin Bechdel, William Frear, William Henry Tomhave, 1922 Journal of Neurosurgery, 1987 Neurosurgery William Sharpe, Norman Sharpe, 1928

Global Advances in the Diagnosis, Management, and Treatment of Low Back Pain Eron Grant Manusov, Vincent P. Diego, Plamen Todorov Todorov, 2025-02-19 Low Back Pain LBP is characterized by discomfort or pain emanating from the lumbar sacral and coccyx regions This prevalent condition can profoundly impact individuals quality of life leading to functional limitations mental illness reduced productivity and increased healthcare costs Physical and psychosocial factors not only affect LBP but how

pain affects one's life LBP continues to be a major global cause of disability and is one of the most common reasons for visiting a doctor The years lived with a disability have increased highlighting the need for attention to the diagnosis management and treatment of LBP at various levels of healthcare In this Research Topic we aim to specifically explore a wide range of diagnostic approaches therapeutic interventions and strategies for effectively managing LBP symptoms This Research Topic will focus on the advances and recommendations on LBP and will serve as a forum to decrease morbidity mortality and the global disease burden

Neurological Surgery, 1996 *Annual Report* University of Iowa. Cancer Center, 1988 Brain Injury Medicine, 2nd Edition Nathan D. Zasler, MD, Douglas I. Katz, MD, Ross D. Zafonte, DO, 2012-08-27 This book is a clear and comprehensive guide to all aspects of the management of traumatic brain injury from early diagnosis and evaluation through the post acute period and rehabilitation An essential reference for physicians and other health care professionals who work with brain injured patients the book focuses on assessment and treatment of the wider variety of clinical problems these patients face and addresses many associated concerns such as epidemiology ethical issues legal issues and life care planning Written by over 190 acknowledged leaders the text covers the full spectrum of the practice of brain injury medicine including principles of neural recovery neuroimaging and neurodiagnostic testing prognosis and outcome acute care rehabilitation treatment of specific populations neurologic and other medical problems following injury cognitive and behavioral problems post traumatic pain disorders pharmacologic and alternative treatments and community reentry and productivity

Principles and Practice of Pediatric Neurosurgery A. Leland Albright, P. David Adelson, Ian F. Pollack, 2008 This book presents the latest management techniques for pediatric neurosurgical disorders frequently encountered in clinical practice In this edition chapters are organized into separate sections including cerebral disorders spinal disorders neoplasms trauma cerebrovascular disease functional disorders and infectious disorders Each chapter describes the diagnostic studies pathology and pathobiology indications for surgery treatment alternatives prognostic factors and outcomes Features of the second edition Commentaries at the end of each chapter provide insights from the senior editors Pearls identify critical steps in management More than 850 high quality images demonstrate disease pathology and surgical approaches and techniques Easy to read tables synthesize key clinical concepts New chapters cover ethical issues in pediatric neurosurgery pediatric neurosurgery in developing countries and in utero neurosurgery This comprehensive book is a must have reference for all neurosurgeons and specialists and residents in pediatric neurosurgery and pediatric neurology

Neurological Surgery Hermann Dietz, Charles Langmaid, E. Metzler, 1981 *Directory of Research and Scholarship at Stanford*, 1975 Yomans Neurological Surgery H. Richard Winn, 2004 The first of the four volumes introduces approaches to the patient radiology fundamentals perioperative evaluation and treatment and surgical exposures and positioning and it covers oncology The second volume covers vascular disease and malformations and epilepsy the third functional neurosurgery pain and pediatric issues and the fourth the peripheral nerve radiation therapy and

radiosurgery the spine and trauma Basic science in most cases is represented in its own chapter in each section so as to make the rest of the section chapters more clinical in focus **Operative Neurosurgical Techniques** ,1995 **Recent Progress in Neurological Surgery** Keiji Sano,Shōzō Ishii,David Le Vay,1974 **Archives of Surgery** ,1929 Jan issues 1923 29 and Dec issues 1929 30 are each in two sections section 2 containing the Transactions of the American Association for Thoracic Surgery 5th 13th 1922 30 *Stereotactic and Functional Neurosurgery* ,1997 *Drug Therapy in Neurology* Mervyn J. Eadie,1992 Considers the basic ideas underlying rational drug therapy in neurology eg pharmacokinetics and the action of drugs on the nervous system and the application of these concepts to disorders of nervous system functioning and certain categories of nervous system disease

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