



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

Navita Aggarwal<sup>1</sup> Noopinder Kaur<sup>2</sup> Apurba Patra<sup>1</sup>  Monika Gupta<sup>2</sup>

<sup>1</sup>Department of Anatomy, All India Institute of Medical Sciences, Bathinda, Punjab, India

<sup>2</sup>Department of Anatomy, Adesh Institute of Medical Sciences and Research, Bathinda, Punjab, India

Address for correspondence: Apurba Patra, MD, DNB, Assistant Professor, Department of Anatomy, All India Institute of Medical Sciences, Bathinda, Punjab 151001, India (e-mail: apurba.cnmc03@gmail.com).

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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  $3.91 \pm 3.79$  cm and  $3.68 \pm 3.79$  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.<sup>1,2</sup> Being covered superficially by scalp and the origin of the

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# Objective Study Of Neurosurgery

**Tobias Bleicker**



## **Objective Study Of Neurosurgery:**

**Neurological Surgery of Trauma** United States. Army Medical Service, Leonard Dudley Heaton, 1965      **Training and Education in Neurosurgery: Strategies and Challenges for the Next Ten Years, volume II** Cesare Zoia, Daniele Bongetta, 2025-01-17 Given the success of the first volume of the Research Topic Training and Education in Neurosurgery Strategies and Challenges for the Next Ten Years and the rapidly evolving subject area we are pleased to announce the launch of a second volume of this topic The phenomenal progression of technology has led to an age of powerful devices always connected through social media as well as advanced simulation and augmented reality tools Training and education have often struggled to keep up with these technological improvements Nevertheless neurosurgical trainees have been recently exposed to new tools during their training such as anatomy 3D printed models or augmented reality apps Pandemic limitations have also boosted the exploitation of online education resources in conjunction with the rising role of social media in both publishing and case discussion      *The Grants Register 2023* Palgrave Macmillan, 2022-09-28 The Grants Register 2023 is the most authoritative and comprehensive guide available of postgraduate and professional funding worldwide It contains international coverage of grants in almost 60 countries both English and non English speaking information on subject areas level of study eligibility and value of awards and information on over 6 000 awards provided by over 1 300 awarding bodies Awarding bodies are arranged alphabetically with a full list of awards to allow for comprehensive reading The Register contains full contact details including telephone fax email and websites as well as details of application procedures and closing dates It is updated annually to ensure accurate information      [The Grants Register 2024](#) Palgrave Macmillan, 2023-09-23 The Grants Register 2024 is the most authoritative and comprehensive guide available of postgraduate and professional funding worldwide It contains international coverage of grants in almost 60 countries both English and non English speaking information on subject areas level of study eligibility and value of awards and information on over 6 000 awards provided by over 1 300 awarding bodies Awarding bodies are arranged alphabetically with a full list of awards to allow for comprehensive reading The Register contains full contact details including telephone fax email and websites as well as details of application procedures and closing dates It is updated annually to ensure accurate information

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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 Neurosurgery William Sharpe,Norman Sharpe,1928 Directory of Research and Scholarship at Stanford ,1975 Operative Neurosurgical Techniques ,1995 *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 **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 **Stereotactic and Functional Neurosurgery** ,1997 Annual Report University of Iowa. Cancer Center,1988 **Neurological Surgery** ,1996 *Recent Progress in Neurological Surgery* Keiji Sano,Shōzō Ishii,David Le Vay,1974 Neurological Surgery Hermann Dietz,Charles Langmaid,E. Metzel,1981 **Neurological Research** ,1999 **Youmans 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 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

## **Objective Study Of Neurosurgery** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Objective Study Of Neurosurgery**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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