



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

Navita Aggarwal¹ Noopinder Kaur² Apurba Patra¹  Monika Gupta²

¹Department of Anatomy, All India Institute of Medical Sciences, Bathinda, Punjab, India

²Department 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 ± 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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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

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Table of Contents Objective Study Of Neurosurgery

1. Understanding the eBook Objective Study Of Neurosurgery
 - The Rise of Digital Reading Objective Study Of Neurosurgery
 - Advantages of eBooks Over Traditional Books
2. Identifying Objective Study Of Neurosurgery
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Objective Study Of Neurosurgery
 - User-Friendly Interface
4. Exploring eBook Recommendations from Objective Study Of Neurosurgery
 - Personalized Recommendations
 - Objective Study Of Neurosurgery User Reviews and Ratings
 - Objective Study Of Neurosurgery and Bestseller Lists
5. Accessing Objective Study Of Neurosurgery Free and Paid eBooks
 - Objective Study Of Neurosurgery Public Domain eBooks
 - Objective Study Of Neurosurgery eBook Subscription Services
 - Objective Study Of Neurosurgery Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Objective Study Of Neurosurgery Compatibility with Devices
 - Objective Study Of Neurosurgery Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Objective Study Of Neurosurgery
 - Highlighting and Note-Taking Objective Study Of Neurosurgery
 - Interactive Elements Objective Study Of Neurosurgery
8. Staying Engaged with Objective Study Of Neurosurgery

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Objective Study Of Neurosurgery
9. Balancing eBooks and Physical Books Objective Study Of Neurosurgery
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Objective Study Of Neurosurgery
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Objective Study Of Neurosurgery
- Setting Reading Goals Objective Study Of Neurosurgery
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Objective Study Of Neurosurgery
- Fact-Checking eBook Content of Objective Study Of Neurosurgery
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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