

**History of Medicine**

Eponyms in Cerebrovascular Anatomy and Their Origins

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Introdução

An anatomical eponym is a term generated from the name of the scientist who first discovered or described an anatomical structure. It is a way to bestow credit and give homage to the pioneer efforts which, from this point on, becomes engraved in Medical History.

Although the same structures have received alternative, more descriptive terms at the Anatomical Terminology¹ - as a general, abiding rule to facilitate communication - eponyms are still widely used.

In vascular neuroanatomy there are four revered venous eponyms - all of them used daily in clinical practice - namely the veins of Galen, Rosenthal, Trolard and Labbé. To know these structures by their eponyms, as well as their corresponding names in the Anatomical Terminology, not only facilitates communication among health professionals but also preserves memory and keeps History alive.

This study presents the descriptive, microsurgical, and angiographic anatomy of four widely used venous eponyms in cerebrovascular anatomy, correlating each of them with its History and corresponding terms in Anatomical Terminology

Keywords

Anatomy, Eponyms, History of Medicine, Cerebral Veins

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Introduction

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Although the same structures have received alternative, more descriptive terms at the Anatomical Terminology¹ - as a general, abiding rule to facilitate communication - eponyms are still widely used. In vascular neuroanatomy there are four revered venous eponyms, currently used in clinical practice. To know these structures by their eponyms, as well as their corresponding names in the Anatomical Terminology, not only facilitates communication among health professionals but also preserves memory and keeps history alive.

This study highlights a group of venous eponyms, used daily in vascular neurosurgery and neurointerventional radiology, and a little of the history behind each of them.

Objective

To present the descriptive, microsurgical, and angiographic anatomy of four widely used venous eponyms in cerebrovascular anatomy, correlating each of them with its history and corresponding terms in Anatomical Terminology.

Methodology

To achieve a concise but meaningful description of the four structures of interest, namely Veins of Galen, Trolard, Labbé and Rosenthal, corresponding silicone-injected cadaveric microneuroanatomical images^(1,2) and selected angiographic images (with written permission from Banco de Imagens Clínicas⁽⁴⁾ do Hospital Metropolitano Oeste Pelópidas Silveira IMIP/SES/SUS) were combined with a short description of these vessels (Figure 1).

A dedicated review of the literature was performed. Only articles dealing with historical details about those structure were included. Historical sources were used to complete or consolidate the data published in other areas of knowledge.

Results and Discussion

Figure on next page

Conclusion


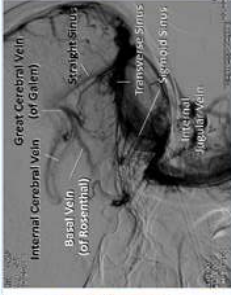
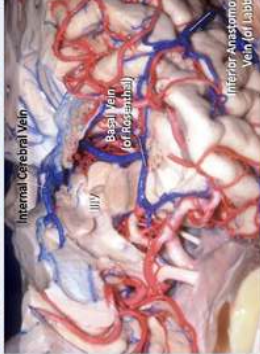
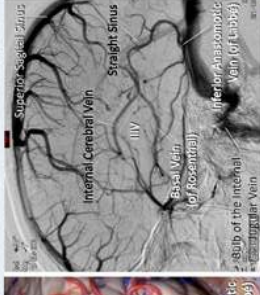
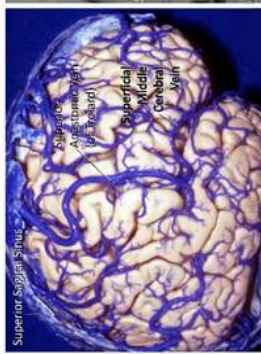
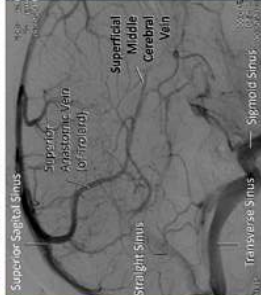
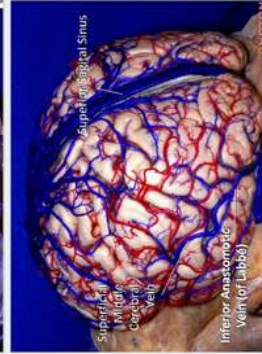

The veins of Galen, Rosenthal, Trolard and Labbé are important anatomical structures in the deep and superficial venous systems.

The use of eponyms is a tradition that remains valid in the current days, particularly in the clinical setting.

Understanding the multiple, possible denominations as well as the microsurgical and angiographic anatomy of these four structures is paramount to young neurologists/neurosurgeons and researchers involved in this area and allows for effective communication within interdisciplinary teams.

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Anatomical Terminology	Microsurgical and Angiographic Anatomy	Descriptive Anatomy	History
Great Cerebral Vein Vein of Galen <i>Vena Magna Cerebri</i>			Claudius Galenus (129-c.210) was born in Pergamon (Bergama, Turkey) ⁶ . Treating gladiators and soldiers from Emperor Marcus Aurelius' army, it was the patronage of Roman elites that allowed for his studies ⁶ . His views on human anatomy were upheld by Hebrews, Christians and Muslims, up to the period when human anatomical dissections became a common practice.
Basal Vein Vein of Rosenthal <i>Vena Basalis</i>			Friedrich-Christian Rosenthal (1780-1829) was a German anatomist and a surgeon, born in Greifswald ⁷ . His registered anatomical contributions started in 1820, with the description of the cochlear modiolus. The basal vein description dates 1824 (<i>De intimis cerebri venis et de venae magnae Galeni rami</i>). After his death, unfinished treatises on cerebral anatomy and the cranial nerves were found ⁸ .
Superior Anastomotic Vein Vein of Trolard <i>Vena Anastomatica Superior</i>			Jean Baptiste Paulin Trolard (1842-1910) was a physician, professor, humanitarian, environmentalist, and French nationalist born in Sedan. He studied Medicine at Algiers' Preparatory College of Medicine ⁹ and, in 1868 he defended his doctoral thesis in Paris, entitled "Research on the Anatomy of the Venous System of the Encephalon and Skull" ¹⁰ .
Inferior Anastomotic Vein Vein of Labbé <i>Vena Anastomatica Inferior</i>			Charles Labbé (1851-89) was a French doctor, born in Normandy. He attended the <i>Université de Paris</i> from 1871-82 ¹¹ . In his original venous description, part of an article published in 1879, he described a greater and a small posterior anastomotic veins. The greater connected the superior sagittal to transverse sinus and the small, from superficial middle cerebral vein to occipital notch (<i>pre occipital incisura</i>).

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