Sinus Pericranii With Dural Venous Lakes in a Woman With a Pulsatile Frontal Mass

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Neurology® Published Ahead of Print articles have been peer reviewed and accepted for publication. This manuscript will be published in its final form after copyediting, page composition, and review of proofs. Errors that could affect the content may be corrected during these processes.
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Gaurav Goel: Drafting/revision of the manuscript for content, including medical writing for content; Major role in the acquisition of data; Study concept or design; Analysis or interpretation of data

Number of characters in title: 14

Abstract Word count: 0

Word count of main text: 100

References: 2

Figures: 2

Tables: 0

Supplemental: Nil


Acknowledgements: Nil

Study Funding: The authors report no targeted funding

Disclosures: The authors report no disclosures relevant to the manuscript.
Case Summary:

A 29-year woman presented to us with complaints of insidious onset, slowly progressive, non-pulsatile swelling over the frontal area (Video 1, http://links.lww.com/WNL/B719) for the past 9-10 years. The swelling was intermittent, and it increased on bending forward and activities involving Valsalva manoeuvre. MRI brain showed an oval well defined contrast enhancing lesion in subgaleal location, which was in communication with the superior sagittal sinus (SSS). Digital subtraction angiography (Figure 1) revealed frontal Sinus pericranii (SP) with prominent dural venous lakes (DVL).

Sinus pericranii refers to a pooling of blood in scalp communicating through the calvarium either with SSS or a lateral sinus, while dural venous lakes are enlarged venous spaces within the skull.

References:


Figure 1:

Sinus Pericranii with dural venous lakes

(A) Plain CT (bone window) reveals a soft-tissue frontal swelling with underlying bony defect. (B) CT (3D-reconstruction) image shows frontal bony defect. DSA [ICA injection (C) and ECA injection (D)] shows Sinus pericranii (blue arrow) with prominent dural venous lakes (red arrow).

Video 1:

Patient’s video showing a non-pulsatile frontal swelling, which increases on straining (Valsalva manoeuvre) and subsides on relaxing.
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Neurology published online December 17, 2021
DOI 10.1212/WNL.0000000000013223

This information is current as of December 17, 2021

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