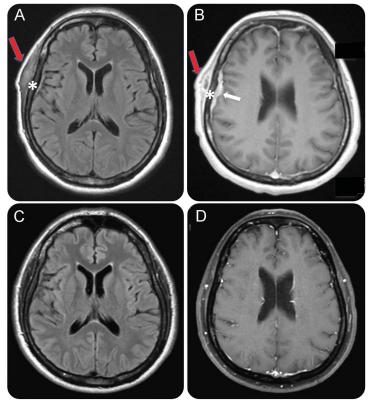


Section Editor John J. Millichap, MD

Teaching Neuro *Images*: Skull and dural lesions in neurosyphilis

Marcos Rosa Júnior, MD, PhD
Thalita de Almeida
Caçador, MD
Claudia Biasutti, MD
Augusto Meneghelli
Galvão Gonçalves, MD
Carlos Urbano Gonçalves
Ferreira Júnior, MD

Correspondence to Dr. Marcos Rosa Júnior: marcosrosajr@hotmail.com Figure Skull and dural lesions on MRI scans before and after treatment



Axial FLAIR (A) and T1 postgadolinium (B) images show a small lesion with ring enhancement located in the periosteum of the right temporal region (red arrows) and dural enhancement in the right frontotemporal region (white arrow). There is also subtle signal change in the FLAIR sequences and fine impregnation of the diploe between intra- and extracranial lesion (asterisks). Axial FLAIR (C) and T1 postgadolinium (D) images show healing of the lesions after treatment. FLAIR = fluid-attenuated inversion recovery.

A 42-year-old man who was HIV negative presented with supraclavicular lymphadenopathy, headache, and soft tissue enlargement in the right temporal region. MRI showed a periosteum enlargement associated with dural thickening (figure, A and B). A venereal disease research laboratory test was 1/1,024, with an increased CSF protein level and cell count. The patient received benzylpenicillin and exhibited complete remission of the lesions (figure, C and D). Although atypical, bone disease in secondary syphilis may occur,

especially in the skull. It is usually described as subcutaneous lesions, edema in the adjacent bone medullary, and dural thickening. For patients with this imaging pattern, syphilis should be included in the differential diagnosis.^{1,2}

AUTHOR CONTRIBUTIONS

Marcos Rosa Júnior: design or conceptualization of the study, analysis or interpretation of the data, drafting or revising the manuscript for intellectual content. Thalita de Almeida Caçador: analysis or interpretation of the data. Claudia Biasutti: analysis or interpretation of the data. Augusto Meneghelli Galvão Gonçalves: analysis or interpretation of the data.

Download teaching slides: Neurology.org

From the Departments of Neuroradiology (M.R.J.), Medicine (T.d.A.C.), and Infectious Disease (C.B., C.U.G.F.J.), Federal University of Espírito Santo, Vitória, ES; and Radiology, UNIMED Vitória (A.M.G.G.), Vitória, ES, Brazil.

Go to Neurology.org for full disclosures. Funding information and disclosures deemed relevant by the authors, if any, are provided at the end of the article.

Carlos Urbano Gonçalves Ferreira Júnior: drafting or revising the manuscript for intellectual content.

STUDY FUNDING

No targeted funding reported.

DISCLOSURE

The authors report no disclosures relevant to the manuscript. Go to Neurology.org for full disclosures.

REFERENCES

- Thompson RG, Preston RH. Lesions of the skull in secondary syphilis. Am J Syph Gonorrhea Vener Dis 1952;36: 332–341.
- Huang I, Leach JL, Fichtenbaum CJ, Narayan RK. Osteomyelitis of the skull in early-acquired syphilis: evaluation by MR imaging and CT. AJNR Am J Neuroradiol 2007;28: 307–308.



Teaching Neuro Images: Skull and dural lesions in neurosyphilis

Marcos Rosa Júnior, Thalita de Almeida Caçador, Claudia Biasutti, et al.

*Neurology 2016;87;e129-e130

DOI 10.1212/WNL.000000000003133

This information is current as of September 19, 2016

Updated Information & including high resolution figures, can be found at: **Services** http://n.neurology.org/content/87/12/e129.full

Supplementary Material Supplementary material can be found at:

http://n.neurology.org/content/suppl/2016/09/19/WNL.0000000000003

133.DC1

References This article cites 2 articles, 0 of which you can access for free at:

http://n.neurology.org/content/87/12/e129.full#ref-list-1

Citations This article has been cited by 2 HighWire-hosted articles:

http://n.neurology.org/content/87/12/e129.full##otherarticles

Subspecialty Collections This article, along with others on similar topics, appears in the

following collection(s):

All Headache

http://n.neurology.org/cgi/collection/all headache

All Infections

http://n.neurology.org/cgi/collection/all_infections

Bacterial infections

http://n.neurology.org/cgi/collection/bacterial_infections

MRI

http://n.neurology.org/cgi/collection/mri

Permissions & Licensing Information about reproducing this article in parts (figures, tables) or in

its entirety can be found online at:

http://www.neurology.org/about/about_the_journal#permissions

Reprints Information about ordering reprints can be found online:

http://n.neurology.org/subscribers/advertise

Neurology ® is the official journal of the American Academy of Neurology. Published continuously since 1951, it is now a weekly with 48 issues per year. Copyright © 2016 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

