Extensive spinal epidural CSF collection after lumbar puncture

Siham Ait Oussous, MD

Olivier Naggara, MD, PhD

Valerie Domigo, MD

Christine Rodriguez, MD

Emmanuel Touzé, MD, PhD

Jean-Francois Meder, MD, PhD

Jean-Louis Mas, MD, PhD

Catherine Oppenheim, MD, PhD

Figure MRI

Sagittal and axial T2-weighted MRI₁ showed an extensive epidural fluid collection infiltrating “floating” epidural fat pads (arrows) with compression of the thecal sac and anterior deviation of the dura (dotted arrow). Four days later, spontaneous resolution of epidural fluid collection is shown on MRI₂.

Departments of Neuroradiology (SAO, ON, CR, J-FM, CO) and Neurology (VD, ET, J-LM), Centre Hospitalier Sainte-Anne, Université Paris-Descartes, Sorbonne Paris Cité, INSERM UMR 894, Paris, France.

Funding information and disclosures are provided at the end of the article. Full disclosure form information provided by the authors is available with the **full text of this article** at Neurology.org/cp.

Correspondence to: o.naggara@ch-sainte-anne.fr

We performed a lumbar puncture in a 38-year-old woman. A few hours later, she reported headache and severe low back pain radiating down both lower legs. Neurologic examination was normal. Spine MRI demonstrated an extensive epidural CSF collection extending from cervical level to sacral region, without spinal cord signal changes (figure, MRI₁). Follow-up MRI 4 days later showed complete resolution of the epidural collection (MRI₂). Extensive dissection of CSF in the epidural space can occur after puncture of the dura from extravasation from the thecal sac,¹ and may spontaneously resolve in a few days.

REFERENCE

1. Sakurai K, Nishio M, Sasaki S, et al. Postpuncture CSF leakage: a potential pitfall of radionuclide cisternography. *Neurology* 2010;75:1730–1734.

STUDY FUNDING

No targeted funding reported.

DISCLOSURES

S.A. Oussous, O. Naggara, V. Domigo, and C. Rodriguez report no disclosures. E. Touzé serves on Scientific Advisory Boards for Bayer Schering Pharma, Pfizer, BMS, and Shire; has received speaker honoraria from Boehringer Ingelheim, Bayer Schering Pharma, Pfizer, BMS, and Shire and funding for travel from Astra Zeneca and BMS; and serves on the editorial board of *Stroke Journal of Hypertension*. J.-F. Meder reports no disclosures. J.-L. Mas serves on Scientific Advisory Boards for Astra-Zeneca, Boehringer-Ingelheim, BMS, Daiichi-Sankyo, and Sanofi Aventis; has received speaker honoraria from Boehringer-Ingelheim, Sanofi Aventis, and Servier; and receives research support from the French Ministry of Health and INSERM Institut National Scientifique et de la Recherche Medicale. C. Oppenheim serves as an Associate Editor of the *Journal of Neuroradiology*. Full disclosure form information provided by the authors is available with the full text of this article at **full text of this article at Neurology.org/cp**.

Download *Neurology*[®] *Clinical Practice* for the iPad[®]

The same information so critical to your practice is now brought to you on the iPad[®]. This dynamic app optimizes the best in digital technology to enhance the reading experience with article-sharing features, multimedia, links, and more.

Enjoy the benefits:

- Easy-to-read articles you can share via email and social media
- Adjustable text sizing with “pinch and zoom” technology
- Engaging multimedia videos, images, and data supplements
- Ability to store downloaded issues
- Convenient notification when a new issue is available

For further information and download, go to: <http://bit.ly/NCPapp>