Teaching NeuroImages: Anoxic brain injury with unilateral hemispheric cortical involvement

A 55-year-old woman collapsed with chest pain and cardiac arrest. Her pulse was restored after 6 minutes of cardiopulmonary resuscitation, but she remained comatose. Brain MRI (figure) revealed bilateral basal ganglia and right hemispheric cortical lesion, which was typical for anoxic brain injury except for the unilateral cortical involvement. Neck CT angiography showed severe stenosis in the right proximal internal carotid artery. The unilateral cortical injury could be explained by compromised cerebral blood flow due to preexisting carotid stenosis. This case demonstrates an atypical pattern of anoxic brain injury secondary to focal vascular stenosis.

AUTHOR CONTRIBUTIONS

Study concept and design: Y.-W. Kim, Y.-H. Hwang. Analysis and interpretation of data: Y.-W. Kim, J.-H. Seo. Drafting of the manuscript: Y.-W. Kim.

Critical revision of the manuscript for important intellectual content: Y.-H. Hwang, S.-P. Park.

STUDY FUNDING

No targeted funding reported.

DISCLOSURE

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

REFERENCES

Teaching NeuroImages: Anoxic brain injury with unilateral hemispheric cortical involvement
Yong-Won Kim, Ji-Hye Seo, Sung-Pa Park, et al.
Neurology 2013;80:e160
DOI 10.1212/WNL.0b013e31828ab2dc

This information is current as of April 1, 2013

Updated Information & Services
including high resolution figures, can be found at:
http://n.neurology.org/content/80/14/e160.full

References
This article cites 2 articles, 2 of which you can access for free at:
http://n.neurology.org/content/80/14/e160.full#ref-list-1

Subspecialty Collections
This article, along with others on similar topics, appears in the following collection(s):
Cardiac; see Cerebrovascular Disease/Cardiac
http://n.neurology.org/cgi/collection/cardiac_see_cerebrovascular_disease-cardiac
Coma
http://n.neurology.org/cgi/collection/coma
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