A 75-year-old man with no history of head trauma presented with a 10-day episode of left forehead heaviness followed by sudden headache and vomiting. Neurologic examinations were unremarkable. Neuroimaging showed left frontal extra-axial lesion suggestive of acute and subacute subdural hematoma (figure 1, A–D). CSF analysis revealed normal cytology and the absence of xanthochromia. An angiogram demonstrated peripheral left middle cerebral artery aneurysm (figure 1, E and F). No echocardiographic or serologic evidence of infectious endocarditis was noted. Craniotomy confirmed cerebral aneurysm surrounded by subdural hematoma (figure 2). After resection, histologic examination documented a ruptured true aneurysm.

Intracranial aneurysm is infrequent in peripheral cerebral artery and a probable cause is infectious endocarditis. The possibility of peripheral cerebral aneurysm rupture should be considered in spontaneous subdural hematoma even with no evidence of subarachnoid hemorrhage.

S. Kurabe, MD, T. Ozawa, MD, PhD, H. Fujiwara, MD, T. Watanabe, MD, PhD, T. Aiba, MD, PhD, Niigata, Japan

Disclosure: The authors report no disclosures.

Address correspondence and reprint requests to Dr. Satoshi Kurabe, Department of Neurosurgery, Niigata Prefectural Shibata Hospital, 1-2-8 Honcho, Shibata, Niigata, 957-8588, Japan; skurabe@bri.niigata-u.ac.jp


Peripheral intracranial aneurysm causing subdural hematoma without subarachnoid hemorrhage

Neurology 2010;74;268
DOI 10.1212/WNL.0b013e3181ca011c

This information is current as of January 18, 2010

Updated Information & Services
including high resolution figures, can be found at:
http://www.neurology.org/content/74/3/268.full.html

References
This article cites 2 articles, 0 of which you can access for free at:
http://www.neurology.org/content/74/3/268.full.html##ref-list-1

Subspecialty Collections
This article, along with others on similar topics, appears in the following collection(s):

CT
http://www.neurology.org/cgi/collection/ct

MRI
http://www.neurology.org/cgi/collection/mri

Other cerebrovascular disease/Stroke
http://www.neurology.org/cgi/collection/other_cerebrovascular_disease__stroke

Secondary headache disorders
http://www.neurology.org/cgi/collection/secondary_headache_disorders

Permissions & Licensing
Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at:
http://www.neurology.org/misc/about.xhtml#permissions

Reprints
Information about ordering reprints can be found online:
http://www.neurology.org/misc/addir.xhtml#reprintsus