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ACUTE SUBDURAL HEMATOMA WITHOUT SUBARACHNOID HEMORRHAGE OR INTRAPARENCHYMAL HEMATOMA CAUSED BY RUPTURE OF A POSTERIOR COMMUNICATING ARTERY ANEURYSM: CASE REPORT AND REVIEW OF THE LITERATURE

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□ Abstract—Background: Acute subdural hematoma without subarachnoid hemorrhage or intraparenchymal hematoma is rare. Case Report: We report on a 47-year-old women without previous trauma who presented with an acute subdural hematoma without subarachnoid hemorrhage. The hematoma was evacuated immediately. Further evaluation with a cerebral four-vessel angiography revealed a left-sided posterior communicating artery aneurysm that was occluded by endovascular embolization. The patient recovered without neurological deficit. Conclusions: Ruptured intracranial aneurysm should be considered as a cause of nontraumatic subdural hematoma. Immediate subdural hematoma removal after aneurysm coiling can be performed in such patients, even those in poor neurological condition. © 2013 Elsevier Inc.

 \square Keywords—acute subdural hematoma; cerebral aneurysm

INTRODUCTION

Only 27 cases, including the present case, of acute subdural hematoma (aSDH) without subarachnoid hemorrhage or intraparenchymal hematoma due to ruptured intracranial aneurysms are reported in our review of the literature (Table 1) (1–22).

In general, aSDHs are caused by head trauma due to disruption of vessels, ruptured arteriovenous malforma-

tions, coagulopathy, and meningiomas. Occasionally, they are related to metastasis or cocaine abuse (23–27).

Ruptured aneurysms are usually associated with subarachnoid hemorrhage or intracerebral hemorrhage. Pure aSDH due to ruptured intracranial aneurysm is rare; however, knowledge of this uncommon presentation is important because it requires immediate diagnostic procedures and treatment.

We report on a case of a pure aSDH caused by a ruptured posterior communicating artery aneurysm and review the literature for this rare event.

CASE REPORT

A 47-year-old woman presented with a severe, burning, left-sided headache. She was fully conscious (Glasgow Coma Scale total score 15) at an outside hospital. History revealed a single sudden attack of headache 6 days before admission. Further examination excluded any previous trauma as well as the absence of the consumption of any regular medication; family history disclosed that her mother had died of a ruptured aneurysm. Computed tomography (CT) scan demonstrated an aSDH over the left convexity with a midline shift of 4 mm (Figure 1). Laboratory data including coagulopathy showed no abnormalities.

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Table 1. Cases of Pure Acute Subdural Hematoma: Results of PubMed Data Synthesis from 1980 to 2011

First Author, Year	Age/Sex	Symptoms	Location of Aneurysm	Location of Subdural Hematoma	Treatment	Outcomes
Rengachary, 1982 (17)	49/M	Confusion, dysphasia	MCA	Convexity	Hematoma evacuation and clipping	Good
Eggers, 1982 (3)	34/F	Headache	PcoA	Convexity	Hematoma evacuation	Good
Williams, 1983 (13)	18/F	Coma	PcoA	Convexity	Hematoma evacuation and clipping	Disabled
Friedman, 1983 (4)	55/F	Headache	PcoA	Tentorium and interhemispheric	Only clipping	Good
O'Leary, 1986 (15)	28/F	Coma	MCA	Convexity	None	Dead
Kondziolka, 1988 (12)	43/M	Coma	PcoA	Tentorium and convexity	Hematoma evacuation and clipping	Good
Kondziolka, 1988 (12)	38/F	Coma	PcoA	Tentorium and convexity	Hematoma evacuation and clipping	Disabled
Shinmura, 1989 (20)	53/F	Coma	MCA	Convexity	Hematoma evacuation and clipping	Disabled
Onda, 1989 (16)	44/F	Semicoma	PcoA	Convexity	Hematoma evacuation and clipping	Disabled
Watanabe, 1991 (21)	51/M	Semicoma	Distal ACA	Interhemispheric and convexity	Hematoma evacuation and clipping	Dead
Ragland, 1993 (10)	27/M	Coma	AcomA	Convexity	Hematoma evacuation	Dead
Hatayama, 1994 (6)	55/M	Semicoma	Distal ACA	Interhemispheric and convexity	Hematoma evacuation and clipping	Good
Hatayama, 1994 (6)	66/F	Semicoma	Distal ACA	Interhemispheric, convexity, and tentorium	Hematoma evacuation and clipping	Disabled
Ishibashi, 1997 (8)	54/F	Headache	PcoA	Tentorium and convexity	Hematoma evacuation and clipping	Good
Satho, 1999 (19)	58/F	Semicoma	PcoA	Convexity	Hematoma evacuation and clipping	Good
Satho, 1999 (19)	25/F	Headache	PcoA	Convexity	Hematoma evacuation and clipping	Good
Satho, 1999 (19)	22/F	Coma	PcoA	Convexity	Hematoma evacuation and clipping	Good
Nonaka, 2000 (14)	52/F	Coma	PcoA	Tentorium and convexity	Hematoma evacuation and clipping	Good
Ishikawa, 2000 (9)	62/M	Headache, ptosis	PcoA	Tentorium and interhemispheric	Only clipping	Good
Inamasu, 2002 (7)	28/F	Coma	PcoA	Convexity	Hematoma evacuation	Dead
Araki, 2002 (1)	55/F	Headache, ptosis, semicoma	PcoA	Convexity	Hematoma evacuation and clipping	Good
Blake, 2003 (2)	35/F	Coma	PcoA	Convexity	None	Dead
Katsuno, 2003 (18)	63/F	Headache, nausea, dizziness	Distal ACA	Interhemispheric and convexity	Hematoma evacuation and clipping	Good
Koerbel, 2005 (11)	62/F	Headache, semicoma	Bifurcation of ICA	Convexity	Hematoma evacuation and coiling	Good
Gilad, 2007 (5)	47/M	Nausea, vomiting	AcomA	Sella migrating to spinal canal	Only coiling	Good
Weil, 2010 (22)	51/F	Coma	MCA	Convexity	Hematoma evacuation and coiling	Disabled
Present case	40/F	Headache, nausea, vomiting	PcoA	Convexity	Hematoma evacuation and coiling	Good

ACA = anterior cerebral artery; AcomA = anterior communicans anterior; ICA = internal carotid artery; MCA = middle cerebral artery; PcoA = posterior communicating artery. Table is modified from (11).

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