CASE REPORTS

SUBARACHNOID HEMORRHAGE PRESENTING AS TIA IN THE MCA TERRITORY

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ABSTRACT

A 71 yo woman treated with Lisinopril for HBP, was brought to our department for right-sided paresthesias, dysarthria and right-sided motor deficits. Onset of symptoms was sudden, about one hour prior to hospitalization. However, at the time of presentation, they were partially ameliorated. Clinical exam revealed right hemiparesis 4/5 MRC, right central facial palsy, BP of 150/80 mmHg and HR of 78/min rhythmic. The patient presented similar transient episodes of right-sided paresthesias and dysarthria during the last month, but without addressing to a medical department. Medical exam and history pointed to a TIA in the left MCA territory. However, CT scan revealed a small intergyral left fronto-parietal subarachnoid hemorrhage. When asked, the patient denied any headache, nausea/vomiting, altered consciousness or recent history of head trauma, while clinical exam revealed no meningism. The patient was then transferred urgently to a Neurosurgery Department.

Keywords: subarachnoid hemorrhage, hemiparesis, TIA

INTRODUCTION

Subarachnoid hemorrhage usually presents with a characteristic combination of symptoms, sudden severe headache being the most important and, in up to one third of cases, the only symptom (1). In one retrospective study of nontraumatic SAH cases during a 5-year period, most common presenting features were nausea/vomiting (77%), headache (74%), loss of consciousness (53%) and nuchal rigidity (35%) (2).

CASE PRESENTATION

A 71 yo woman treated with Lisinopril for HBP, was admitted to our department for right-sided paresthesias, dysarthria and right-sided motor deficits. Onset of symptoms was sudden, about one hour prior to hospitalization. However, at the time of presentation, they were partially ameliorated. Clinical exam revealed right hemiparesis 4/5 MRC, right central facial palsy, BP of 150/80 mmHg and HR of 78/min rhythmic.

The patient also reported similar transient episodes of right-sided paresthesias with dysarthria during the last month, without addressing to a medical department.

Medical exam and history pointed to a TIA in the left MCA territory. However, CT scan revealed a small intergyral left fronto-parietal subarachnoid hemorrhage. When asked, the patient denied any headache, nausea/vomiting, altered consciousness or recent history of head trauma, while clinical exam revealed no meningism. The patient was then transferred urgently to a Neurosurgery Department.

Abbreviations (in alphabetical order):

BP – Blood pressure
CT – Computer tomography
HBP – High blood pressure
HR – Heart rate
MCA – Middle cerebral artery
MRC – Medical Research Council
SAH – Subarachnoid hemorrhage
TIA – Transient ischemic stroke

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headache, nausea/vomiting, altered consciousness or history of head trauma, while clinical exam revealed no meningism.

The patient was then transferred urgently to a Neurosurgery Department.

DISCUSSIONS

Our patient did not present any characteristic symptoms of SAH, although clinical picture was in accordance with hemorrhage location. Moreover, she recalled similar transient episodes over the last month.

Such episodes could be regarded equivalents of the “sentinel headaches” or “warning leaks”, which are thought to precede SAH onset. Some authors suggest abandoning the term “warning leaks”, due to its confusing nature (1,3). Based on a systematic review (Polmear), they appear to be a real entity, with varying incidence from near 0 to about 40% (4). However, their existence was not supported by a prospective study (Linn) of 148 patients with intracranial aneurysms, with an average of 6 days between last warning signs and hemorrhage (for MCA aneurysms) (7). In another study, warning signs were divided in 3 groups, based on possible etiology (1 – mass effect of expanding aneurysm, 2 – minor bleeds, 3 – spasm/occlusion), with shortest interval before hemorrhage onset occurring in group 2 (≈ 10 days), and thus requiring most urgent medical attention (8).

As for headache peaking within an hour, several clinical features were found to be predictive of SAH: age ≥ 40 years, onset with exertion, arrival by ambulance, vomiting, witnessed loss of consciousness, nuchal rigidity/pain, BP >160 mmHg (systolic) and/or >100 mmHg (diastolic). Presence of any of these features should prompt investigation for SAH (9).

It should be emphasized that SAH can be triggered during non-exertional activities, sometimes more frequently than during exertional activities (2).
REFERENCES


