The patient's neurological symptoms resolved completely during the next 10 h. She was fully oriented and cooperative, but biological abnormalities were still present and her temperature was 38.0°C. Examination of the cerebrospinal fluid showed a normal concentration of protein (0.40 g/l) and glucose, with lymphocyte 1/mm³ and red cells 50/mm³. Cervical ultrasound examination with colour flow imaging was normal. Before complete installation of electrodes for electroencephalography, the patient suddenly died.

An autopsy was proposed and accepted by the patient's family.

The postmortem examination showed DeBakey type I aortic dissection (fig 1B,C), without involvement of cervical arteries (fig 1D), which caused cardiac tamponade. The brain was not examined because of tardive delay of autopsy (4 days).

DISCUSSION

To our knowledge, this report describes the third reported case of an AAD presenting with the chief complaint of transient global amnesia (TGA). In the other two cases, focal neurological symptoms were associated (motor deficits) and orientated investigations.¹ Thus, this is the first case report presenting a patient with a "pure TGA" syndrome.

Diagnostic criteria of TGA are witnessed attacks, clear-cut anterograde amnesia during the attack, absent clouding of consciousness and loss of personal identity, no accompanying focal neurological symptoms or epileptic features, resolution of attacks in 24 h, and no recent head injury or active epilepsy.² Patients usually have repetitive questioning and there may be some confusion.³ Generally, the maximum duration of amnesia in TGA is 12 h.⁴

Abrupt onset and regressive memory impairment with massive anterograde amnesia are rare, and the general consensus is that the amnesic disorder results from transient dysfunction in the limbic-hippocampal circuits, crucial to memory formation. The dysfunction is often related to idiopathic TGA, but epileptic (transient epileptic amnesia) or vascular (bilateral temporal infarction during vertebrobasilar stroke, transient venous ischaemia) origin is possible.³

Acute neurological syndromes secondary to AAD are uncommon and usually consist of stroke or global cerebral

hypoperfusion.⁵ In our observation, the two mechanisms can be evoked, but complete regression of symptoms after 12 h is not in favour of constituted lesions.

Retrospectively, fever, hyperleucocytosis and atypical neurological symptoms were evocative of AAD. Absence of examination of the pulse is crucially missing in our observation, even if pulse deficits are not frequent (22%).⁶

The absence of the important cardinal symptom "pain" may misdiagnose AAD. Painless AAD occurs rarely: in a series of 977 patients, Park *et al*⁶ observed only 63 (6.4%) patients with painless AAD.

AAD seems to mimic a large group of neurological symptoms, including TGA. This eventuality may be considered even without chest pain, and examination of the pulse should be recommended systematically.

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IMAGES IN EMERGENCY MEDICINE

Calcified cervical disc in a three year old

A 3-year-old boy presented with a flexed neck over a period of 24 h. No history of trauma was observed and neurological examination was normal. An x ray of the lateral cervical spine showed disc calcification at C5/C6 (fig 1 arrow) with no evidence of a herniated disc. Calcified cervical intervertebral discs are rare in children and are due to a disease of unknown aetiology. Signs of nerve-root pain or spinal cord compression are unusual. Acute symptoms last for 2–3 weeks leading to a spontaneous recovery as in this case.

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Figure 1 An x ray of the lateral cervical spine showed disc calcification at C5/C6 (arrow) with no evidence of a herniated disc.