Cerebral venous sinus thrombosis with parieto-temporal infarct in a young woman

Rayna Patel,1 Koshy Thomas,2 Sami Khan3

DESCRIPTION
A 34-year-old woman presented with confusion and dysphasia, preceded by 5 days of vomiting. Her only medical history was chronic iron-deficiency anaemia secondary to menorrhagia, for which she was taking oral iron supplements. Three weeks earlier, she had started taking rigevidon, an oral contraceptive pill, for menorrhagia. Neurological examination revealed only a severe receptive dysphasia.

CT of the head demonstrated a large thrombus within the confluence of sinuses, extending into the left transverse and sigmoid sinuses. This was associated with a large haemorrhagic venous infarct involving the left parieto-temporal lobe (figure 1). MRI demonstrated extension of the thrombus into the inferior sagittal and straight sinuses (figure 2).

Treatment-dose, low-molecular-weight heparin was started in hospital and the patient fully recovered.

Cerebral venous sinus thrombosis (CVST) is a rare but important clinical entity in adults, accounting for 0.5% of stroke presentations.1 The non-specific presentation of CVST presents difficulties in its diagnosis, which is often established only with imaging and after a median delay of 7 days.2 This has significant consequences in terms of both morbidity and mortality. CVST has previously been associated with poor outcomes and mortality of 30–50%.2 The lower mortality observed in recent studies, such as the International Study on Cerebral Vein and Dural Sinus Thrombosis (8–14% mortality),2 demonstrates the substantial beneficial effect of appropriate imaging and subsequent early diagnosis in such patients.

Learning Points:
▸ Cerebral venous sinus thrombosis (CVST) should be considered as a rare cause of stroke in young female patients.
▸ CVST can often be identified early on in appropriate imaging.
▸ Early anticoagulation of patients with CVST significantly improves outcome.

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