Neck pain as a presenting symptom in malignant hypertension

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Abstract

Neck pain, unrelated to trauma, is relatively common and is usually presumed to be musculoskeletal in origin. A patient presented with an unusual and serious cause of neck pain—malignant hypertension. The mechanism of the neck pain may be incipient tonsillar herniation of the cerebellum caused by raised intracranial pressure.

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We describe a patient who presented to the accident and emergency (A&E) department complaining of neck pain as a presenting symptom in malignant hypertension.

Malignant hypertension is characterised by very high blood pressure with papilloedema and retinopathy. There is associated organ failure, most commonly of the kidneys and heart. The most frequent presenting symptom is headache, often accompanied by other symptoms of hypertensive encephalopathy such as vomiting, blurred vision, and fits. There may also be symptoms of renal and cardiac insufficiency, for example, lethargy and shortness of breath. Neck pain has not previously been described as a presenting symptom in malignant hypertension.

Case report

A 33 year old female patient presented to the A&E department complaining of neck pain on waking for the previous 10 days. She had seen her general practitioner (GP) who had diagnosed musculoskeletal neck pain and had prescribed ibuprofen and a soft collar. On further questioning, she complained of headache and blurred vision. She had, in fact, felt unwell for one month, with loss of appetite, nausea and vomiting, lethargy, weakness, intermittent sharp chest pains, and shortness of breath. She had no significant past medical history. She used an oral contraceptive and smoked 15 cigarettes a day. She was a single mother with four children.

On examination, she looked well. However, she was significantly hypertensive with a blood pressure 250/120 mm Hg. The apex beat was not displaced. She had gross papilloedema. She was mildly photophobic. She was tender over the neck but there was no neck stiffness. There were no other abnormal signs. Preliminary investigation showed advanced renal impairment with a plasma creatinine of 543 µmol/litre. Her urine contained blood and protein. ECG and chest x ray were normal. A diagnosis of malignant hypertension was made and she underwent renal biopsy which showed markedly sclerosed glomeruli. She is currently being treated for a rapidly progressive glomerulonephritis.

Discussion

Malignant hypertension is a potentially life threatening emergency which usually presents with headache. However, in the case described here it presented with neck pain which mimicked non-traumatic, musculoskeletal neck pain.

Although neck pain has not previously been described in malignant hypertension, magnetic resonance imaging (MRI) and single photon emission computerised tomography (SPECT) suggest reasons for it. Hypertensive encephalopathy produces cerebral oedema with regional hyperperfusion of the occipital cortex and cerebellum. The cerebral oedema causes raised intracranial pressure—hence the papilloedema, headache (worse on waking), and the vomiting which are so common in malignant hypertension. Hyperperfusion of the occipital cortex may contribute to the visual symptoms, as may the papilloedema. Cerebellar hyperperfusion, together with raised intracranial pressure, would be expected to cause a degree of tonsillar herniation through the foramen magnum. Neck pain has been described as a presenting symptom in tonsillar herniation. It therefore seems reasonable to attribute the

Necrotising fasciitis as a complication of steroid injection

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