Whiplash can have lesions

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The prognosis of acute whiplash-associated disorder (WAD) is generally favourable. As a rule, patients do not require sophisticated management. Evidence-based guidelines recommend explanation, reassurance and activation as the only interventions required (1, 2). Passive interventions lack an evidence base and are not indicated.

Personal psychological variables are not risk factors for chronicity, but social factors are. Chronicity is greater among patients who engage a lawyer, and to a lesser extent, if they consult a physical therapist or a chiropractor (3, 4). For such reasons, WAD has been promoted as a biopsychosocial disorder.

That concept, however, invites medical nihilism. It is easy and convenient to assume that WAD is entirely psychosocial with no biomedical basis. Conviction in the latter can be reinforced by ordering inappropriate diagnostic tests that return a negative result.

Notwithstanding the influence of psychosocial factors, the strongest determinant of chronicity of WAD is intense pain (5). The biopsychosocial concept is detrimental to such patients if the pain is attributed, without valid evidence, to psychosocial factors, and the cause of pain is ignored.

These various precepts are illustrated by the case reports of Johansson (pages 197-199) in the present issue of Pain Research & Management (6). He describes the plight of three patients with persistent symptoms after a whiplash accident. All had neck pain and/or headache, which is typical of patients with WAD, but each also had other symptoms that should have been recognized as red flag indicators — they were not. Instead, the persisting symptoms were attributed to psychological factors. Under the administrative system under which these patients suffered, one was simply declared fit for work, and the other two were accorded a diagnosis of psychosomatic disorder. Static radiological investigations that returned negative results were used to reinforce these diagnoses.

Trembling in the upper limb, loss of balance and impaired lower limb function imply long tract injury of the spinal cord. Numbness of the tongue is the cardinal feature of neck-tongue syndrome (7), and implies instability of the atlas (8). But instability cannot be diagnosed using static tests; it requires dynamic testing.

When these patients were investigated with functional magnetic resonance imaging, dramatic results were obtained. Imaging showed capsule tears and instability of the lateral atlantoaxial joint, and scar tissue around the odontoid process with cord impingement upon rotation of the head. These abnormalities were confirmed at surgery.

These patients had symptoms and they had pathology. The pathology was perfectly concordant with the symptoms of which they complained. However, those symptoms were dismissed as psychogenic, and the possibility of pathology was ignored.

REFERENCES