Drs. Littlejohn and Guymer reply

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The Journal of Rheumatology is a monthly international serial edited by Earl D. Silverman featuring research articles on clinical subjects from scientists working in rheumatology and related fields.
Drs. Littlejohn and Guymer reply

To the Editor:

We thank Dr. Kapur for the comments1 on our recent editorial2. Many patients who have minor injuries in motor vehicle accidents can progress to develop significant and persistent pain. Often these patients fulfill criteria for fibromyalgia (FM), which is the most common chronic pain phenotype3. The presence of psychological distress occurring in this context is the key to subsequent development of chronic musculoskeletal pain4,5.

In these situations, it is important to “get the diagnosis right” because FM is associated with central pain while whiplash implies ongoing peripheral noiceptiive pain. The term “whiplash” is an emotive term because it implies that the neck has been forcefully traumatized by the motor vehicle accident, thus implying ongoing injury. The term “fibromyalgia” is descriptive and defined by robust clinical criteria3,6. The central pain of FM has its origins in changes in control pathways linking the brain to the spinal cord7. There is subsequent increased sensitivity that upregulates incoming sensory inputs from a variety of sources including otherwise innocuous mechanoreceptor input that “gains access” to pain pathways8. Other sensory inputs are also amplified, including light, noise, tinnitus, and bowel and bladder sensations. We suggest that emotional and distress factors, acting on background genetic and psychological vulnerability factors, associate with these changes in central pain control.

In regard to central sensitization, we feel that this in FM is occurring as a “top-down” phenomenon attributable to primary changes in the brain and spinal cord rather than being peripherally stimulated, as would occur in experimental models9. Further, the “top-down” mechanisms associated with central sensitization in FM may be persistent and cause ongoing symptoms over decades, although significant fluctuation and remission can occur in many people, congruent with the known plasticity of the central nervous system’s function.

Background psychosocial stressors are common in FM, but many patients have onset of the clinical phenotype of FM following a specific trigger4. Such triggers are more often than not of a psychological type, but can include viral infection and physical trauma5,7. In the latter situation, psychological factors often accompanying the physical trauma can be key triggers rather than the physical trauma itself.

In this setting, litigation usually adds to the emotional distress of the individual. This and other societal factors may inadvertently promote the FM mechanism. Whether such patients are labeled as having posttraumatic stress disorder (PTSD) will depend on the specific criteria that are used. The symptoms of FM exist on a spectrum ranging from low through severe, which is similar to the spectrum of emotional distress. Thresholds for diagnosis of either FM or PTSD are therefore somewhat arbitrary in these settings.

We feel that the majority of patients in this situation have abnormal neurophysiology, which causes the symptoms. There is a smaller percentage that will exaggerate their symptoms for the sake of monetary or other rewards. Consideration of this smaller subgroup of individuals should not negate the observations in the larger group.

In regard to military medicine, we agree that there is a long history of description of pain phenotypes under different names over a long period of time9,10. The majority of such individuals have chronic pain, fatigue, poor sleep, and cognitive dysfunction, as well as background emotional distress of various types. These descriptors equate to the current descriptions of FM.

We agree that in civilian life there is an increased propensity to develop central sensitization and subsequent chronic pain disorders in certain people and in certain circumstances. This is particularly so when there is interaction between medical and legal issues, such as may occur in motor vehicle accidents. We reiterate that accurate diagnosis of the clinical phenotype of FM in this context is important; abandonment of the term whiplash and whiplash-associated disorder is important and appropriate management of the pain condition as a central pain condition rather than a peripheral pain condition will produce the best outcomes for each individual.

All clinicians who see people with these problems are trying to find the best way forward for their patients. The clinical features in these patients are identifiable as a discrete syndrome. We do not feel that the label “fibromyalgia” belongs to a lobby group, but rather describes a well-defined condition that we need to appropriately identify, understand, and manage. There is a large body of knowledge and a high level of understanding of FM that needs to be applied to all patients, including those where the condition occurs in the nexus of medicine and the law.

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