Reduction of Knee Pain by Effusion Reduction

To the Editor:

The article in The Journal by Elsaman, et al1 is quite thought-provoking. If elimination or reduction of knee effusion is the mechanism of action of spironolactone in reducing knee pain1,2, the implication is that the effusion is not of an inflammatory nature but rather that it is mechanically derived. It further suggests that structural damage does not fully explain the pain noted in patients with osteoarthritis of the knee, independent of severity. It has been hypothesized that a significant component of the pain is derived from joint instability related to damage to fibular and tibial collateral knee ligaments. A commentary3 (in press) noted the effectiveness in relieving knee pain of a specific exercise program in which strengthening the quadriceps mechanism compensates for the ligamentous laxity. While it had been assumed that the efficacy of that approach related simply to reduction of instability, perhaps the mechanism of that intervention may also be related to effusion reduction, as implied by the observations of Elsaman, et al1.

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