Real-Time Elastography in the Assessment of Liver Fibrosis

We read with great interest the article by Friedrich-Rust et al. [1] in the March 2007 issue of AJR and would like to raise a number of important issues in relation to their work.

First, in this study [1] the aspartate transaminase-to-platelet ratio index (APRI) test was highly sensitive and more accurate than the elasticity score in evaluating liver fibrosis. Moreover, combining the APRI test with real-time elastography did not seem to significantly increase the diagnostic accuracy. Consequently, this study did not measure within-and-between-session intraobserver reliability and within-session interobserver reliability. Sonography is an operator-dependent technique. We are currently working on a new real-time elastography machine. In our experience, different levels of training and experience could also affect the results of real-time elastography. It would be interesting to know how the authors dealt with this issue. Were all the examinations performed by the same operator?

Fourth, in the evaluation of real-time elastography, four patients without clinical or biochemical evidence of cirrhosis, staged with METAVIR fibrosis score F4 by liver histology, were combined with 20 patients in whom biopsy was not performed because they had obvious clinical signs of liver cirrhosis [1]. This group of patients is not homogeneous because the early stage of liver cirrhosis is different than the advanced stage, in which there is progress in the fibrotic process [3].

And last, to determine the accuracy of elasticity scores for correct prediction of liver fibrosis stage, patients staged with METAVIR fibrosis score F2 should be analyzed separately from patients staged with METAVIR fibrosis score F3.

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References