Quantitative MRI in chronic liver disease: A progress report

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The purpose of lecture is to review the basic principles of MR-based quantitative imaging of liver fat, iron, fibrosis, and inflammation. For each topic, we will briefly discuss the clinical needs, physical concepts, diagnostic performance, advantages, and limitations. We will discuss unmet clinical needs and future directions in multi-parametric quantitative MR imaging required to improve noninvasive assessment of patients with chronic liver disease.