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“Magical Thinking in Magnetic Resonance”

Abstract:

MRI has made tremendous advances in the 40+ years since the first commercial scanners were developed. The many scientific, clinical and engineering successes have justifiably given rise to a sense of self-congratulation within the field, and each new advance is heralded in publications and meetings. However, during the past there have been several instances of scientific misconduct and fraud in MRI and MRS, as well studies published that made provocative claims that have never been refuted or reproduced. Moreover, leading journals, rated as high impact, have published yet never retracted papers that reported highly dubious results that could mislead investigators. Overall, MRI attracts its fair share of bad and incorrect science and