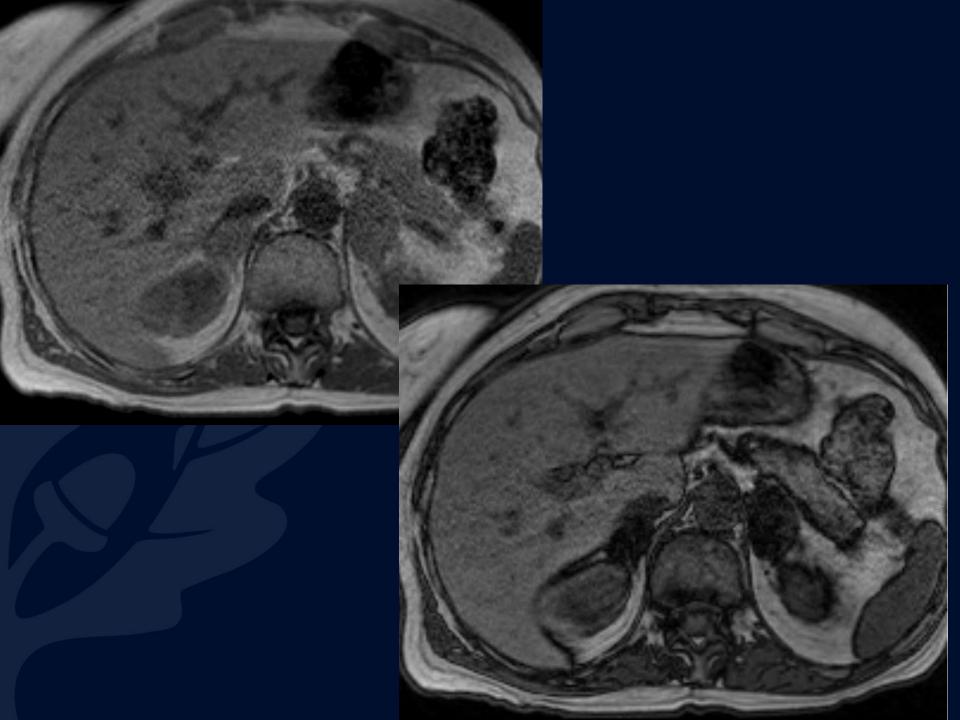
40F with incidental finding on CT

Jeffrey Guzelian, MD



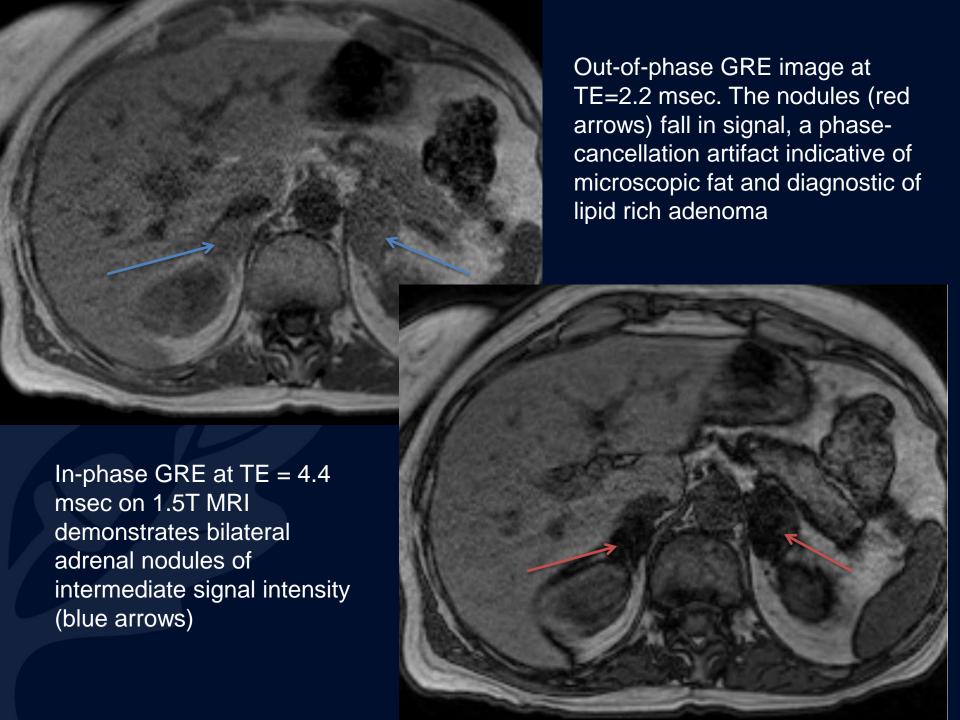






Bilateral lipid rich adrenal adenomas





Lipid rich adrenal adenoma

- Benign adrenal cortex tumor
- Contains abundant intracytoplasmic lipid
- NECT: < 10 HU (71% sensitivity, 98% specificity)
- MRI: Significant decrease in signal intensity at out of phase T1W imaging (due to intravoxel lipid and water).
 Water and fat protons have slightly different resonant frequencies; their spins go in- and out-of-phase with each other as a function of time. When imaged out-ofphase, a signal phase cancellation effect results in loss of the signal present during in-phase imaging.

