

Advances in Breast MRI

Technology for Breast MRI continues to evolve. A major focus of technical development has been to improve the ability to manage the trade-off between spatial and temporal resolution in the dynamic contrast enhanced series that is central to breast MRI. Improvement of coil technology, more aggressive use of parallel imaging and the application of novel K – space sampling approaches are all being implemented. In addition, there is significant work related to incorporation of diffusion and spectroscopy data into the breast MRI examination. Finally, there are many academic and commercial groups developing methods of analyzing the multidimensional data acquired as part of an MRI exam to predict diagnosis, characterize cancer and predict treatment response.

Research sponsored by Siemens

Learning Objectives:

1. Understand methods to improve breast MRI techniques
2. Understand the potential role of diffusion and spectroscopy in Breast MRI
3. Understand the clinical roles for breast MRI