Additional Diagnostic Studies

• Breast MRI
  – Magnetic resonance imaging
    • Gadolineum enhanced
    • Detects areas of enhancement in tumors (breast cancers have a rich blood supply)
  – Use as a supplemental tool, in addition to mammography to help diagnose breast cancer
  – Common uses include
    • High risk screening (e.g. BRCA)
    • Detection of otherwise occult lesions (e.g. malignancy found in an axillary node without a primary breast tumor)
    • Pre-op planning (e.g. evaluate tumor extent, multicentricity, and contralateral disease)
    • Assess response to neoadjuvant chemotherapy
    • Problem solving
    • Implant integrity (no contrast)
    • Rule out recurrence in scar following lumpectomy

• Potential concern:
  – Possibility for overstaging
    • 17% conversion from planned breast conservation to mastectomy, which exceeds reported local recurrence rate after breast conservation surgery