

## EPA1c-BR Worksheet

<b>Title</b>	Identifying and managing abnormalities on screening examinations - EPA1c: MRI
<b>Description of Activity</b>	<p>A radiologist involved in breast imaging must be able to identify abnormalities on screening examinations and determine the next steps in patient management.</p> <p>The key function which define this EPA in regards to all breast examinations include:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Lists indications for breast MRI<sup>A,2,8</sup></li> <li><input type="checkbox"/> Understand technique, patient positioning, standard imaging views and study protocol<sup>1</sup></li> <li><input type="checkbox"/> Differentiate technically adequate and inadequate studies<sup>1</sup></li> <li><input type="checkbox"/> Differentiate benign findings from those that warrant additional work-up<sup>D,E,F,3,4,5</sup></li> <li><input type="checkbox"/> Identify imaging artifacts and explain methods for correction<sup>6</sup></li> <li><input type="checkbox"/> Identify the normal and abnormal appearance of the breast after surgical procedures (reduction, augmentation, implants, breast conserving therapy, or mastectomy)<sup>E,F</sup></li> <li><input type="checkbox"/> Demonstrate the correct use of the BI-RADS lexicon terminology pertinent to the examination including assessment/management categories<sup>A,7</sup></li> <li><input type="checkbox"/> Report and communicate results with the patient, referring physician (including primary physician, oncologist, surgeon), and staff when indicated<sup>G</sup></li> </ul> <p>The key functions in regards to screening breast MRI include:</p> <ul style="list-style-type: none"> <li>● Protocol breast MRI exams for technique (e.g. use of contrast)<sup>1,2</sup></li> <li>● Differentiate benign from suspicious abnormalities on breast MRI including masses, non-mass enhancement, postoperative findings, and lymph nodes<sup>D,E,F,3,5,8</sup></li> <li>● Correlate MRI findings with recent mammogram and ultrasound to determine which abnormalities require biopsy, follow up, or additional imaging<sup>3,4</sup></li> <li>● Identify imaging artifacts and explain methods for correction<sup>6</sup></li> </ul> <p>Superscript indicate resources below which address the key function</p> <p><b>Context:</b> Outpatient imaging center</p> <p><b>Targeted transition point:</b> Depending on the institution - First month for screening mammography, second month for ultrasound, third month for MRI. Items marked * may be more suitable for by month 3 of mini-fellowship or fellowship for some programs</p>

This is from:

### Breast Radiology Entrustable Activity Supervision Tool

Monica Sheth, MD; S; Ryan Woods, MD; Katherine Klein, MD Priscilla Slanetz, MD; Alice Fornari, EdD; Petra Lewis, MBBS, 2019

<b>Mapping to Domains of Competence</b>	<input checked="" type="checkbox"/> Patient Care <input checked="" type="checkbox"/> Medical Knowledge <input checked="" type="checkbox"/> Systems-Based Practice <input checked="" type="checkbox"/> Practice-Based Learning and Improvement <input checked="" type="checkbox"/> Professionalism <input checked="" type="checkbox"/> Interpersonal and Communication Skills
<b>Competencies within each domain critical to entrustment decisions</b>	PC1: Reporting PC2: Clinical Consultation PC3: Image Interpretation MK1: Diagnostic Knowledge MK2: Physics MK3: Protocol Selection and Contrast Agent Selection/Dosing MK4: Imaging Technology and Image Acquisition SBP1: Patient Safety SBP5: Contrast Agent Safety SBP7: Magnetic Resonance (MR) Safety SBP8: Informatics PBLI1: Evidenced-Based and Informed Practice PBLI2: Reflective Practice and Commitment to Professional Growth P2: Accountability/Conscientiousness ICS1: Patient- and Family-Centered Communication ICS2: Interprofessional and Team Communication ICS3: Communication with Health Care Systems
<b>Suggested Resources</b> (A) Article (B) Book Chapter (D) Document (S) Slides (W) Widget - interactive powerpoint (V) Video	A. <a href="#">A Pictorial Review of Changes in BI-RADS 5th Edition</a> (A) B. <a href="#">Update on Imaging of the Postsurgical Breast</a> (A) C. <a href="#">American Joint Committee on Cancer's Staging System for Breast Cancer, Eighth Edition: What the Radiologist Needs to Know</a> (A) D. <a href="#">Hormonal Effects on Breast Density, Fibroglandular Tissue, and Background Parenchymal Enhancement</a> (A) E. <a href="#">Imaging of Breast Implant-associated Complications and Pathologic Conditions: Breast Imaging</a> (A) F. <a href="#">Breast Reconstruction: Review of Surgical Methods and Spectrum of Imaging Findings</a> (A) G. <a href="#">Maximizing Value Through Innovations in Radiologist-Driven Communications in Breast Imaging</a> (A) H. <a href="#">Training and Standards for Performance, Interpretation, and Structured Reporting for Supplemental Breast Cancer Screening</a> (A) I. <a href="#">Imaging the Axilla Widget</a> (W)  MRI 1. <a href="#">Positioning in Breast MR Imaging to Optimize Image Quality</a> (A) 2. <a href="#">ACR Practice Guideline for Breast MRI</a> (A) 3. <a href="#">Breast MR Imaging for Equivocal Mammographic Findings: Help or Hindrance?</a> (A) 4. <a href="#">Second-Look US: How to Find Breast Lesions with a Suspicious MR Imaging Appearance</a> (A) 5. <a href="#">MR Imaging Assessment of the Breast after Breast Conservation Therapy: Distinguishing Benign from Malignant Lesions</a> (A)

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	<ol style="list-style-type: none"> <li>6. <a href="#">Recognizing Artifacts and Optimizing Breast MRI at 1.5 and 3T (A)</a></li> <li>7. <a href="#">Auditing a Breast MRI Practice: Performance Measures for Screening and Diagnostic Breast MRI (A)</a></li> <li>8. <a href="#">MRI of the Breast and Emerging Technologies (A)</a></li> </ol>
<b>Required knowledge, skills, attitude and behavior, and experience</b>	<p>Knowledge</p> <ul style="list-style-type: none"> <li>• Knowledge of imaging abnormalities on MRI.</li> <li>• Knowledge of correct BI-RADS terminology to describe imaging findings.</li> <li>• Knowledge of markers of image quality.</li> </ul> <p>Skills</p> <ul style="list-style-type: none"> <li>• Skill in identifying abnormalities on breast screening exams.</li> <li>• Skill in discussing results of imaging exams with patients, referring physicians, and staff</li> </ul> <p>Attitude and Behavior</p> <ul style="list-style-type: none"> <li>• Professional communication of screening exam results with patients, referring physicians, and staff.</li> </ul> <p>Experience</p> <ul style="list-style-type: none"> <li>• Screening MRI: 20-50 screening MRIs</li> </ul>
<b>Assessment Information sources to assess progress and ground summative entrustment decision</b>	<p>Knowledge Assessment: In process of creation</p> <p>Review of interpretation of screening MRI</p> <p>5-10 informal Case-based discussions per modality with attending radiologist</p>
<b>Entrustment level of supervision to be reached at which stage of training</b>	<p>*Imaging studies should always be overread by an attending physician</p> <p><u>Residents</u>: Indirect supervision (level 3) prior to graduation - ability to identify at least 50% of the abnormalities identified by the attending radiologist</p> <p><u>Mini-fellows</u>: Distant supervision (level 4) prior to graduation - ability to identify 50-75% of the abnormalities identified by the attending radiologist</p> <p><u>Fellows</u>: Trust to perform unsupervised (level 5) or to supervise others (level 6) prior to graduation (ability to identify 75-100% of abnormalities identified by the attending radiologist and ability to teach concepts to residents)</p>
<b>Expiration</b>	1 year after graduation

\*Modified from the work of Olle ten Cate

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