

Clinical Practice, Research and Media Support of AB-MRI Screening – 2014-2020

2014 -- Kuhl C, Schrading S, et al. **Abbreviated Breast Magnetic Resonance Imaging (MRI)...**

<https://ascopubs.org/doi/full/10.1200/JCO.2013.52.5386>

“MRI acquisition ... of 3 minutes and an expert radiologist MIP image reading ... of 3 seconds ... establish the absence of ... cancer... [with accuracy equivalent] to ... FDP and ... an additional ... yield of [18.2/1000].”

2015 -- Mango V, Morris E, et al. **Abbreviated protocol for breast MRI: are multiple sequences ...**

<https://pubmed.ncbi.nlm.nih.gov/25454099/>

“An abbreviated breast MRI protocol allows detection of breast carcinoma. One pre and post-contrast T1W sequence may be adequate for detecting breast carcinoma.”

2016 -- Harvey SC, Di Carlo PA, et al. **An Abbreviated Protocol for High-Risk Screening Breast MRI Saves ...**

[https://www.jacr.org/article/S1546-1440\(16\)30940-1/abstract](https://www.jacr.org/article/S1546-1440(16)30940-1/abstract)

“Abbreviated MRI is as effective as full-protocol MRI ... [allowing] for ... improved radiologist time management and workflow, with the potential to add real-time MRI interpretation or double reading.”

2017 -- Chhor C, Mercado C. **Abbreviated MRI Protocols: Wave of the Future for Breast Cancer .**

<https://www.ajronline.org/doi/full/10.2214/AJR.16.17205>

“Abbreviated breast MRI protocols have been proposed as a way of achieving efficiency and rapid throughput ...[increasing availability and providing] women with greater access to breast MRI.”

2018 -- Pinker-Domenig K, Morris EA. **The Emerging Role and Value of Abbreviated Breast MRI | Memorial .**

<https://www.mskcc.org/clinical-updates/emerging-role-and-value-abbreviated-breast-mri>

“Abbreviated breast magnetic resonance imaging is a cost-effective screening tool that should be made available to patients with an average lifetime risk of breast cancer, according to our recent review of protocols.”

2019 -- Aubrey A. **'Mini' MRI Outperforms 3-D Mammograms In Detecting Cancer In Women ...**

www.npr.org/2020/02/25/809368250/mini-mri-outperforms-3-d-mammograms-in-detecting-cancer-in-women-with-dense-brea

“Sloan Kettering reports even 3D mammograms are 250% LESS EFFECTIVE than 'mini' MRIs.”

2019 -- Mootz A, Madhuranthakam A, et al. **Changing Paradigms in Breast Cancer Screening: Abbreviated ...**

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6385725/>

“Given its superior performance and the greatly reduced scan times ... AB-MRI has the potential to replace mammography as a stand-alone imaging tool for the detection of breast cancer... “

2019 -- Walter M. **4 steps to implementing abbreviated breast MRI screening ...**

<https://www.radiologybusiness.com/topics/imaging-informatics/4-steps-abbreviated-breast-mri-screening-arrs>

“The [AB-MRI is] a self-pay procedure, ... because there is no CPT code ... price is substantially lower than ... the [FB-MRI]... patients with [high-deductibles] have a lower out-of-pocket expense for [AB-MRI] than for [FB-MRI].”

2020 -- Comstock C, Gatsonis C, et al. **Comparison of Abbreviated Breast MRI vs Digital Breast Tomosynthesis (DBT).**

<https://jamanetwork.com/journals/jama/article-abstract/2761645>

“... [AB-MRI], compared with DBT, [had] a significantly higher rate of invasive breast cancer detection.”

2020 -- Moffitt Cancer Center. **Ensure Access to Tailored Breast Screening.**

<https://moffitt.org/for-healthcare-professionals/clinical-programs-and-services/breast-oncology-program/treatments-services/abbreviated-breast-mri/>

“... [AB-MRI identified] significantly more invasive breast cancers [and DCIS] ... in women with dense breasts ... as compared to [DBT] ... the ... predictive value is ... considered acceptable for screening mammography.”

2020 -- Weinstein S, Korhonen K, et al. **Abbreviated Breast Magnetic Resonance Imaging for Supplemental...**

<https://ascopubs.org/doi/abs/10.1200/JCO.19.02198>

“Preliminary results ... of screening AB-MR resulted in a CDR of 27.4/1,000 at the patient level after DBT ...”

2020 -- Young Y A, Sung H K, et al. **Feasibility of abbreviated magnetic resonance imaging (AB-MRI)...**

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0230347>

“AB-MRI improved cancer detection with a high specificity, sensitivity and PPV in women with a PH of breast cancer. AB-MRI could be a useful screening tool ... considering its high ... performance and short ... time.”

Clinical Practice, Research and Media Support of AB-MRI Screening (2021)

2021 – Baxter G, Selamoglu A, et al. **A meta-analysis comparing the diagnostic performance of abbreviated MRI...**
<https://www.sciencedirect.com/science/article/pii/S0009926020303974>

“[AB-MRI] diagnostic performance ... matches [FB-MRI]... [and the] time of [AB-MRI] is significantly reduced.”

2021 -- University Hospitals. **An Early Adopter of Abbreviated Breast MRI, UH Posts Noteworthy Results**

<https://www.uhhospitals.org/for-clinicians/articles-and-news/articles/2021/02/uh-posts-noteworthy-early-results-program-has-identified-19-9-breast-cancers-per-1000-studies>.

“Abbreviated breast MRI overcomes the limitations of cost and scanner time when considering screening patients at average or slightly elevated risk,”

2021 -- Lee AY. **RSNA Journal Sustained Benefits of Abbreviated Breast MRI on Consecutive Screening Rounds.**

<https://pubs.rsna.org/doi/abs/10.1148/radiol.2021210018>

“...the abbreviated protocol ... demonstrated significant time saved and in image acquisition and interpretation, with sensitivity for cancer equivalent to that with the full protocol screening MRI examination.”

2021 – Kwon MR, Choi JS, et al. **Breast Cancer Screening with Abbreviated Breast MRI: 3-year Outcome Analysis.**

<https://pubmed.ncbi.nlm.nih.gov/33620293/>

“Screening outcome measures of abbreviated MRI were sustained without significant differences between 3 consecutive years. All cancers missed at abbreviated MRI were node-negative invasive cancers and tended to be smaller than detected cancers.”

Future ‘improved’ AB-MRI Possibilities?

2021 – Image Technology News. **MRI Measurement Could Avoid 30% of Breast Biopsies**

<https://www.itnonline.com/content/simple-mri-measurement-could-avoid-30-breast-biopsies>

“DWI is now well established in the diagnosis of stroke and is becoming increasingly popular in cancer diagnostics as well.” – [diffusion-weighted imaging (DWI)].