Redefining MRI:
From Image to Insight

ICMRI 2026
THE 14th INTERNATIONAL CONGRESS ON MRI
& 37th ANNUAL SCIENTIFIC MEETING OF KSMRM

AUGUST 27 - 28, 2026
Grand Walkerhill Seoul, Seoul, Korea
https://icmri.ksmrm.org/2026m

**Breast 1**

**SY05-2**

# Navigating Preoperative Breast MRI: From Local Staging to Long-Term Outcomes

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Preoperative breast magnetic resonance imaging (MRI) is increasingly utilized in the management of breast cancer owing to its superior sensitivity for cancer detection. MRI provides valuable information regarding tumor extent, multifocality, multicentricity, and occult contralateral disease that may not be identified on conventional imaging. These additional findings can influence treatment planning, including the choice of surgical approach and adjuvant therapy. However, whether the routine use of preoperative MRI translates into improved clinical outcomes remains a subject of ongoing debate.

This lecture will provide an overview of the current evidence regarding the role of preoperative breast MRI in patients with early-stage breast cancer. The impact of MRI on local staging, surgical decision-making, re-excision rates, recurrence, and survival outcomes will be discussed, with particular emphasis on findings from recent clinical studies and meta-analyses.

*Keywords:* *Breast cancer, Magnetic resonance imaging, Recurrence, Survival*