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The world-leading biomedical science of Thailand

MONTHLY

ORIGINAL ARTICLE

REVIEW ARTICLE

AI-Assisted Digital Mammography: A Pilot Reader Study



AI assistance influenced diagnostic performance and reading time, with heterogeneous effects across readers.

Population & Setting



6

radiologists



86

mammography cases



Siriraj Breast Imaging Center (2018-2019)

Study Intervention/Comparison



Without AI

With AI-CAD

(Perceptra MMG v0)

Performance Averages Comparison (Unaided vs. AI-Assisted)

Metric	Unaided	AI-Assisted
Mean Sensitivity	56.1%	77.5%
Mean Reading Time	32.9 Seconds	21.0 Seconds

Study Outcomes



• **Sensitivity increased in most readers**
Increased in 5 of 6 readers



• **Specificity varied across readers**
Significant improvement in one readers



• **Reading time decreased**
32.9 s → 21.0 s per case
Reduced for both cancer & non-cancer cases



Pilot study • Exploratory • Larger studies needed

SCAN FOR FULL TEXT



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