



**8<sup>th</sup> ASIA-PACIFIC CONGRESS OF CARDIOVASCULAR & INTERVENTIONAL RADIOLOGY (APCCVIR)  
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**ABSTRACT SUBMISSION FORM**

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**TITLE OF PAPER**

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**INSTRUCTIONS FOR ABSTRACTS**

1. Language: English
2. Font: Arial
3. The Abstract should not be more than 300 words
4. Format of Abstract: Title (Capitalised and Bold), Name(s) of Author(s) with the presenter's name in bold print; the surname of each author precedes the initials eg Abdullah BJJ
5. Institution(s) of the author(s): Authors from different institutions will be identified by matching superscripts eg Kumar G<sup>1</sup>, Ong KT<sup>2</sup>  
Departments of Radiology<sup>1</sup> and Surgery<sup>2</sup>
6. Body of Abstract – Purpose of Study; Materials and Method, Results, Conclusion (Each subheader in bold print)
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**EXAMPLE OF ABSTRACT and TITLE**

**EVALUATION OF IMAGE QUALITY OF SCREEN-FILM, COMPUTED RADIOGRAPHY AND DIRECT RADIOGRAPHY MAMMOGRAPHY SYSTEMS**

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**Purpose of study**

To evaluate image quality (in terms of imaging performance and contrast-detail) of screen-film (SF), computed radiography (CR) and direct radiography (DR) mammography systems.

**Materials and method**

The ACR mammography accreditation phantom was used to study the imaging performance, while the CDMDM version 3.4 phantom was used for the contrast-detail measurement. Phantoms were exposed at the same clinical settings: 28 kVp, Mo/Mo target/filter combination, large focal spot and with anti-scatter grid using SF, CR and DR mammography systems. SF images were viewed on a dedicated mammography viewing box. Digital images were viewed on a MagicView 1000 primary diagnostic monitor. Six observers (AM, SS, LKT, TNK, KZZ, ACA) took part in this study. All images were viewed in the same reporting room to simulate a typical clinical environment.

**Results**

The average total scores in imaging the ACR mammography accreditation phantom were 12.1, 12.1 and 12.0 for SF, CR and DR mammography systems respectively. DR contrast-detail curves indicate threshold contrast characteristics that are lower (better) than those of CR and SF at 28 kVp.

**Conclusion**

The performance of the three mammography systems evaluated using the ACR mammography accreditation phantom is comparable. However, digital (CR and DR) contrast-detail curves indicate that the threshold contrast characteristics are better than that of SF mammography.

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