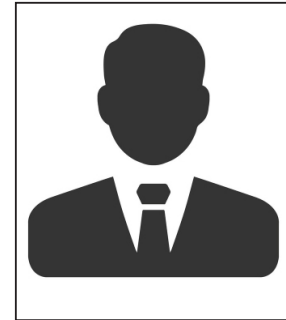## Title: Density of Breast; An independent risk factor for developing breast cancer; a prospective study of patients presenting to breast clinic at two tertiary hospitals

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Breast density maybe a risk factor of breast cancer. However, its attributable and relative risk are unknown. Being a modifiable risk factor, breast density is a potential surrogate marker for predicting breast cancer risk. Studies have shown that high breast density led to higher incidence of breast cancer, while reduction in breast density is able to reduce breast cancer risk significantly. Breast Imaging Reporting and Data System (BIRADS) composition of breast has been used worldwide to classify breast density. However, it is a qualitative measurement based on visual assessment of 2-dimensional (2D) mammography films that are taken from 3-dimensional (3D) breasts. In the recent years, Volpara, which is an automated software is used for volumetric measurement of breast density. However, it is unsure whether BIRADS or Volpara will be better in measuring breast density and predicting breast cancer risk.

Breast density was shown to be a risk factor of breast cancer when classified using BIRADS and VDG, independent of menopausal status. There was only slight agreement between BIRADS and Volpara and the agreement level improved when binary classification of both modalities were used. Volpara was shown to be more accurate than BIRADS 5th edition in measuring breast density and predicting breast cancer risk.

Biography

Dr Anil Gandhi joined Monash University in August 2009 as a Clinical Associate Professor (Surgery). He graduated from Christian Medical College, India in 1980 and obtained his Master in Surgery from the renowned Post-Graduate Institute of Medical Education & Research, Chandigarh, India. After post-graduation, Dr Gandhi worked in various hospitals in India and South-East Asia namely Brunei, Singapore, Malaysia and Hong Kong. He specializes in the field of Endoscopy, Laparoscopy and upper GI Surgery. For the last few years, Dr Gandhi has developed a keen interest in Medical Education. Before joining Monash University, Dr Gandhi was working at Queen Mary Hospital, University of Hong Kong and was Deputy Director at the centre for Education & Training within the Dept of Surgery.