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Validation of the diagnostic performance of IOTA simple rules, logistic regression 2 studies and ADNEX model without CA 125 for discriminating benign and malignant adnexal masses in a tertiary government hospital from April 2015 to April 2017

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Objective: The purpose of this study is to validate the diagnostic performance of International Ovarian Tumor Analysis (IOTA) simple rules: Logistic regression 2 studies and ADNEX model (Assessment of Different NEoplasias in the adneXa) without CA 125 for discriminating benign and malignant adnexal masses in a tertiary government hospital.

Method: This is a descriptive retrospective study of 45 patients with adnexal masses at the time of ultrasound from April 2015 to April 2017. The ultrasound images and videos were collected by 1 fellow as the principal investigator and interpreted by 2 expert sonologists. The ultrasound findings were compared to the histological outcome of the lesion examined in the same center.

Results: 45 women were included. Discriminating malignant lesion from benign lesion using IOTA simple rules has a sensitivity of 94%, specificity of 69%, PPV of 64% and NPV of 95% while Logistic Regression 2 studies (LR2) has a sensitivity of 100%, specificity of 72.41%, PPV of 66.57% NPV of 100%. Among the 3 models, ADNEX model has the highest sensitivity of 100%, specificity of 75%, PPV of 69.56% and NPV is 100% in discriminating malignant from benign lesion.

Conclusion: Proper preoperative diagnosis had helped the clinician in the management plan for the patient. Combination of the 3 IOTA models gives us the highest predictive value in discriminating malignant or benign adnexal masses. Among the 3 IOTA models, ADNEX Model gives us the highest Specificity and Positive predictive value in the diagnosis of malignant adnexal masses. The ADNEX model discriminates well between benign and malignant. The use of ADNEX has the potential to improve triage and management decisions and so reduce morbidity and mortality associated with adnexal pathology.

Biography

Nelinda Catherine Perez Pangilinan is the Section Head of Ob-Gyn Ultrasound, Rizal Medical Center, Philippines. She is the Vice-President of the Philippine Society of Ultrasound in Obstetrics and Gynecology. Her interests include gynecology & obstetrics, gynecologic oncology and reproductive health.

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