



Contribution ID: 12

Type: Paper

Reliability of International Ovarian Tumor Analysis (IOTA) models in evaluating ovarian tumors at a tertiary care hospital

Saturday, 3 October 2020 19:25 (10 minutes)

Abstract

Title: Reliability of International Ovarian Tumor Analysis (IOTA) models in evaluating ovarian tumors at a tertiary care hospital

Authors: Dr Neha Rashmi,¹ Dr Sweta Singh,¹ Dr Jasmina Begum¹
Dr Mukund Namdev Sable²

¹Department of Obstetrics and Gynaecology, AIIMS Bhubaneswar

² Department of Pathology, AIIMS Bhubaneswar

Background: The IOTA (international ovarian tumour analysis) group introduced standardized terms and rules in order to provide consistency in defining morphological features of ovarian masses¹. The IOTA ADNEX model predicts the risk of ovarian mass being benign, borderline or malignant. This study aimed to test reliability of these risk prediction models in discriminating benign and malignant cyst.

Material and methods: Patients diagnosed with ovarian tumour and underwent ultrasound examinations as per IOTA rules before surgery at AIIMS Bhubaneswar from August 2019 to August 2020 were included. Findings were correlated with histopathology.

Result: Total 50 patients were included in this study. IOTA simple rules were applicable for only 48. For detection of malignancy in cases where IOTA simple rules were applicable the sensitivity - 83.3 %, specificity - 95.45 %, PPV:71.4%, NPV:97.6% Accuracy was 94%. On applying ADNEX model on five malignant cases, three were correctly classified into their categories.

Conclusion: IOTA simple rules were highly sensitive and specific in predicting ovarian malignancy preoperatively. Standardized terms and rules make it reproducible, easy to learn and use.

References:1. Timmerman D, Testa AC, Bourne T, Amedy L, Jurkovic D, Van Holsbeke C, et al. Simple ultrasound-based rules for the diagnosis of ovarian cancer. *Ultrasound Obstet Gynaecol.* 2008;31(6):681-90.

Primary author: Dr RASHMI, Neha (AIIMS Bhubaneswar)

Co-author: Dr SINGH, Sweta (AIIMS Bhubaneswar)

Presenters: Dr RASHMI, Neha (AIIMS Bhubaneswar); Dr SINGH, Sweta (AIIMS Bhubaneswar)

Session Classification: Competition: Paper Presentation