



External validation of diagnostic value of International Ovarian Tumour Analysis simple-rules scoring method to predict ovarian malignancy preoperatively

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ABSTRACT

Objective: to evaluate the diagnostic performance of International Ovarian Tumour Analysis (IOTA) simple-rules scoring method to predict ovarian malignancy preoperatively Method: a retrospective study with 119 subject who underwent surgical removal of ovarian tumour and performed histopathological examination at Dr. Cipto Mangunkusumo Hospital on January to December 2013. Demographic status, ultrasound scans, and histopathological result were collected to be calculated using the scoring method of IOTA simple-rules. Sensitivity, specificity, positive predictive value, negative predictive value and accuracy were calculated by comparing the score with histopathology result. Result: there were 51.26% subjects with benign tumour and 48.74% subjects with malignant tumour. The IOTA simple-rules scoring method were applied to the subjects and resulted with sensitivity 98%; specificity 74%; positive predictive value 78%; negative predictive value 98%; and accuracy 86%. Conclusion: IOTA simple-rules had good diagnostic value to predict ovarian malignancy preoperatively. Key words: iota, ovarian neoplasm, scoring