Introduction: Adnexal masses are located within the ovaries, the Fallopian tubes or adjacent tissue. GI-RADS is a preoperative reporting system and allows a structured characterization of adnexal masses.

Objectives: Perform an external validation of GI-RADS reporting system to differentiate between benign and malignant adnexal masses.

Methods: This is an ambispective diagnostic accuracy study of data collected prospectively from patients with adnexal pathology who underwent transvaginal ultrasound, performed by gynecologists experts in ultrasound, prior to surgery. This study was conducted in a tertiary referral university hospital with a specific gynaecology oncology unit. Data were collected from January of 2012 to December of 2018.

Results:

1688 eligible patients between 2012 and 2018

587 women

563 included

148 postmenopausal

24 excluded

588 masses

65 malignant - 11%

543 benign - 89%

Sensitivity 91%

Specificity 85%

PPV 44%

NPV 99%

Graphic. Area under the ROC Curve 0.877. Histopathology vs GI-RADS reporting system.

Conclusion

In this external validation study GI-RADS reporting system showed an adequate diagnostic performance.