

EP13.17: Prospective validation of imaging based endometriosis staging systems -

AAGL-US, UBESS and ultrasound based rASRM

Phil McClenahan, Mayumi Raheem, Mohammed K. Alotaibi, Alexandra Gil, Allie Eathorne, Shannon Reid, George Condous

Introduction

This study aims to prospectively validate and assess predictive ultrasound staging systems in their ability to anticipate their corresponding surgical endometriosis stage for the rASRM, AAGL and UBESS endometriosis staging systems.

Methods

Methods: This prospective cohort study conducted across three sites in Sydney, Australia. Participants presenting with clinical symptoms suggestive of endometriosis that elected for surgical management were recruited. They underwent transvaginal ultrasound (TVS) for deep endometriosis (DE) reported as per the IDEA consensus statement for DE. Operative findings required for calculation of AAGL laparoscopic stage (AAGL-LPS), rASRM and SBESS staging are recorded.

Cohort

Initial 165 participants, 26 were excluded from analysis due to incomplete data as some are awaiting surgery date and some missing data, leaving 139 participants for analysis. Average age was 33.3 and BMI 27.3.

Results

Staging system	Weighteed Kappa and raw agreement.
AAGL	0.623, substantial agreement (raw agreement 56%)
UBESS	0.30, fair agreement (raw agreement 45%)
rASRM	0.52, moderate agreement (raw agreement 46%)

Conclusion

TVS is useful in detecting DE with the AAGL-US performing best in this cohort in predicting corresponding surgical stage. However these TVS based endometriosis staging systems do not perform as reliably in this cohort as in their original published cohorts, suggesting limited generalisability

