

regression was performed to identify independent predictors of unilateral/bilateral detection.

**Results** He mean age and BMI was 66.9 years and 31.8 Kg/m<sup>2</sup>, respectively. 90 women (52.3%) were diagnosed with endometrioid histology, whilst 82 with other high-risk histology. In total, 321 SLNs were removed, whilst at least one SLN was obtained in 151 women for a detection rate of 87.8%. In 106 women (61.6%) bilateral SLNs were successfully mapped. On average 1.87 (0–5) SLNs were detected per patient. SLNs were most commonly identified in the external iliac basins (78.2%), followed by the obturator fossa (10.3%), internal iliac basins (5.9%), common iliac basins (3.73%), pre-sacral (0.93%) and para-aortic region (0.93%), respectively. Lymph node metastasis was detected in 25 women (14.5%). There was no statistical correlation between the SLN detection and the age, BMI, grade and histology, respectively. The bilateral SLN detection was adversely correlated with grade 3 ( $\rho=-0.29$ ,  $p$ -value=0.0001) and high-risk histology ( $\rho=-0.3$ ,  $p$ -value=0.0001). In multivariate analysis, both grade (OR=0.21,  $p$ -value=0.005) and high-risk histology (OR=0.39,  $p$ -value=0.04) remained significant. Only three cases of Grade 1 lower extremity lymphoedema were reported.

**Conclusion** Intra-operative SLN mapping using fluorescence imaging with ICG in EC patients is feasible, yields high detection rates and reduces the lymphadenectomy-associated morbidity. Further studies are warranted to evaluate its accuracy in high-risk EC.

**Disclosures** We certify that no party has a direct interest in the results of the research and that no benefit will be conferred to us or any organisation with which we are associated.

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#### DUAL CERVICAL AND FUNDAL INJECTION IN ENDOMETRIAL CANCER

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10.1136/ijgc-2020-ESGO.83

**Introduction/Background** Sentinel node in endometrial cancer (EC) is an evolving technique to know the nodal status in a more precise way without the need to perform a complete lymphadenectomy. The aim of this study was to describe our latest results using dual cervical and fundal indocyanine green (ICG) injection for detection of sentinel lymph node (SLN) in endometrial cancer and results of SLN biopsy.

**Methodology** This is an observational prospective study performed between 26 June 2014 and 31 December 2019, 278 patients underwent laparoscopic surgery for endometrial cancer at Hospital Universitario Donostia, in Spain. In all cases, we performed SLN biopsy with dual cervical and fundal ICG injection, looking for pelvic and aortic sentinel node. All SLNs were processed with an ultrastaging technique. A total of 128 patients with Intermediate and High risk EC also underwent total pelvic and paraaortic lymphadenectomy.

**Results** The detection rates were as follows: 93.52% (260/278) overall for SLNs; 90.65% (252/278) overall for pelvic SLNs; 67.99% (189/278) for bilateral SLNs; 66.91% (186/278) for paraaortic SLNs, and 2.88% (8/278) for isolated paraaortic SLNs. We found macroscopic lymph node metastasis in 26 patients (10.03%) and microdisease in lymph nodes

in another 48 patients, raising the overall rate of lymph node involvement to 16.19%. There was one false negative (negative SLN biopsy but positive lymphadenectomy). 6.6% of all pelvic and also aortic sentinel nodes were positive for metastasis. Applying the SN algorithm, the sensitivity of detection was 97.9% (95% CI 89.1–99.6), specificity 100% (95% CI 98.2–100), negative predictive value 99.5% (95% CI 97.4–99.9), and positive predictive value 100% (95% CI 92.4–100).

**Conclusion** Dual sentinel node injection is a feasible technique that achieves adequate detection rates. Additionally, this technique allows a high rate of aortic detection, identifying a non-negligible percentage of isolated aortic metastases. Aortic metastases in endometrial cancer are possible and it is necessary to investigate the relevance of its detection.

**Disclosures** No disclosures.

## Fertility pregnancy

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#### FERTILITY-SPARING TREATMENT IN ADVANCED BORDERLINE OVARIAN TUMORS. AN ANALYSIS FROM THE MITO14 STUDY DATABASE

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10.1136/ijgc-2020-ESGO.84

**Introduction/Background** For advanced borderline ovarian tumors (BOTs), data concerning the efficacy and safety of fertility-sparing surgery (FSS) are very limited. The MITO14 is a multi-institutional retrospective study conducted among MITO Centres with the aim of systematically collecting data from consecutive BOT patients. In the present analysis, data are presented on women with advanced BOT registered into the MITO14 database and conservatively treated between January 1995 and December 2019.

**Methodology** The objectives were: i) to evaluate the recurrence rate and to determine predictors of recurrence; ii) to assess the impact of a FSS on disease-free survival (DFS) and disease-specific survival (DSS); iii) to evaluate pregnancy and live birth rates following treatment.

Only patients undergoing FSS and with histologically proven FIGO2014 stage II – III BOTs at final pathology were included. Cases submitted to bilateral salpingo-oophorectomy with uterine preservation were eligible. The following exclusion criteria were considered: i) age >45 years; ii) presence of second tumor(s) requiring therapy interfering with the treatment of BOT.

**Results** A total of 101 patients were recruited. The median follow-up time from primary cytoreduction was 124 months (IQR range 80–177.5). Fifty-five patients (54.5%) experienced at least one recurrence (median time to first relapse 21 months, IQR range 9–53), 53 of whom (96.3%) undergoing