The use of targeted and immunotherapies was not common perhaps because the approval of these treatments was recent and not adequately captured in the data. Delaying progression to subsequent LOTs may help reduce the economic burden in this population.

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Introduction/Background Uterine carcinosarcoma (UCS) is a rare but aggressive malignancy. It represents 3% all of uterine tumors and is responsible for 30% of uterine cancer deaths. Known risk factors for UCS are age, pelvic irradiation, and tamoxifen use. Prognostic factors are not clearly defined. This study aims to determine prognostic factors for survival in UCS.

Methodology Observational retrospective study of pts with UCS treated in a Cancer Centre between 2000–2018. Clinical data was retrieved from records. Prognostic variables were tested by multivariate analysis using Cox’s proportional hazards regression model, and Kaplan-Meier survival curves were generated.

Results A total of 73 women with early or locally advanced UCS were identified, with median age 68.0 yrs (46–89). Most pts had Performance Status (PS) 0–1 (n=59; 80.8%). Regarding predisposing factors, 8 had used tamoxifen and 5 had undergone pelvic radiotherapy. FIGO stage distribution as follows: 26 (35.5%) stage I; 13 (17.7%) stage II; 30 (41.0%) stage III; and 4 (5.8%) stage IVA.

Initial treatment was surgery for 70 pts. All pts underwent total hysterectomy and bilateral anexectomy, 22 (31.4%) pts pelvic and lomboaortic lymph node dissection (LND), and 19 (27.1%) pts isolated pelvic LND. Residual disease was present in 15 pts (20.5%). Adjuvant treatment was prescribed as follows: isolated radiotherapy (RT) for 22 pts (30.1%) (of which 13 received additional brachytherapy), chemotherapy followed by RT for 17 pts (23.3%) and isolated chemotherapy for 11 pts (15.1%). Isolated adjuvant RT was prescribed mostly before 2010, and afterwards the use of adjuvant chemotherapy became more common.

After a median follow up of 29.7 months (95% CI [22.1–37.4]), 51 pts (69.9%) died. Relapse occurred in 40 pts (54.8%), mostly with a pattern of distant failure (33 pts). Local recurrence occurred in 18 pts. Median overall survival (OS) and disease free survival (DFS) were 18.3 (95% CI 13.3–23.3) and 11.3 (95% CI 7.5–15) months, respectively.

In multivariate analysis, PS (HR 3.93, 95% CI [1.16–13.27], p=0.028), residual disease (HR 12.21, 95% CI [2.13–70.02], p=0.005), adjuvant RT (HR 0.27, 95% CI [0.09–0.83], p=0.022) and adjuvant brachytherapy (HR 0.31, 95% CI [0.09–0.99], p=0.048) were independent prognostic factors for OS. No prognostic factors for DFS were found.

Conclusion In concordance with previous studies, UCS presented a high rate of recurrence and mortality. This study identified PS, residual disease, and adjuvant radiotherapy and brachytherapy as prognostic factors for OS. Despite relapse occurring mostly at distance, adjuvant chemotherapy did not impact survival.

Disclosures The authors have no disclosures.

Introduction/Background Lymph-node status is one of the prognostic factors related to the survival of patients with endometrial cancer (EC). However, systemic pelvic lymphadenectomy (PLN) is related to increased perioperative morbidity. A number of studies using different techniques have demonstrated the sentinel lymph-node biopsy (SLB) could be a better alternative to PLN in different patient groups. With evidence still lacking, SLB is considered an experimental method by major professional organisations like European Society of Gynaecologic Oncology. The aim of this study was to evaluate the adherence of the SLB procedure in a center with no previous experience of SLB in EC.

Methodology Prospective interventional study was performed in Lithuanian University of Health Sciences Hospital, Centre of Oncogynaecology in the period of 2018 March and 2020 July. 96 patients with histologically confirmed endometrioid endometrial carcinoma were included into the study. Indocyanine green (ICG) dye was used to map sentinel lymph-nodes using previously described technique. PLN was performed after SLB procedure for intermediate and high-risk patients.

Results Detection rate, timing and anatomical sites
The overall SL detection rate was 87.5% (bilateral in 63.5% (61/96), unilateral in additional 24.0% (23/96) of patients). The median time for the detection of the 1st SL was 35 minutes after injection of ICG (range 13–140 min), and 45 minutes (range 25–115 min) for the 2nd (contralateral) one. The median number of SL removed was 2 (range 1–8). The most frequent sites for SLs were right external iliac area (31.0%), left external iliac area (24.2%), right internal iliac area (11.9%) and left obturator fossa (11.3%). 4.8% of SL mapped in paraaortic region.

SL metastasis rate Lymph node metastasis were found in 6 (6.3%) patients and 4 (4.4%) of them were detected by SLB. The sensitivity of SLB was 66.7% and negative predictive value 97.4%. SLB has moderate – strong agreement with PLN (kappa coefficient 0.787, p < 0.001).

SL mapping failures SL mapping failed in 12.5% (12/96) of the patients. The factors that might be associated with mapping failure were age (73 vs. 64.5 vs. 62.8, p=0.005) and present extraenital pathology (100% vs. 60.9% vs. 57.4%, p=0.019).
Role of Three-Dimensional Transvaginal Ultrasound and Diffusion-Weighted Magnetic Resonance Imaging for Assessment of Myometrial Invasion in Patients with Low-Risk Endometrial Cancer

Núria Carreras Díezuez, Isabel Matas, Cristian de Guirior, Merbeln Mummery, Pere Fusté, Núria Agustí, Ariel Glickman, Berta Diaz-Feijoó, Jaume Pahisa, Auréli Torre, Hospital Clínic de Barcelona; Gynecologic Oncology Unit; Hospital Clínic de Barcelona; Gynecology and Obstetrics

Introduction/Background In patients with early-stage, grade 1–2, endometrioid endometrial cancer, preoperative assessment of myometrial invasion is essential to define the need of pelvic and paraaortic lymph node dissection. Our aim was to evaluate the role of three-dimensional transvaginal ultrasound (3D-TVUS) and diffusion-weighted magnetic resonance imaging (DW-RMI) for the assessment of myometrial invasion in patients with low-risk endometrial cancer.

Methodology We performed a single center retrospective study, including patients who underwent surgery for grade 1–2 endometrioid endometrial cancer, FIGO stage I-II, in Hospital Clínic de Barcelona between 2010 and 2019. We computed sensitivity, specificity, and predictive values of 3D-TVUS and DW-RMI, as well as of intraoperative frozen section pathological study of surgical specimen, for diagnosis of deep myometrial invasion (≥50%). Definitive pathological analysis of surgical specimen was considered gold standard for diagnosis of deep myometrial invasion.

Results One hundred and fifty-three patients were included, 120 (78.43%) patients presented myometrial invasion <50% in postoperative analysis of surgical specimen and 33 (21.57%) patients presented deep myometrial invasion. Sensitivity and specificity of 3D-TVUS for diagnosis of deep myometrial invasion was 68.8% and 80.5% respectively, while DW-RMI showed a sensitivity and specificity of 76.2% and 84.4%. When combining both techniques (we considered that a patient had deep myometrial invasion when 3D-TVUS or DW-RMI – or both of them – showed deep myometrial invasion), sensitivity was 93.1% and specificity was 68.4%. The proportion of patients with uterine fibroids was higher in the group of patients with false negative (60%) or false positive (39.13%) result in 3D-TVUS, although these results did not reach statistical significance. Regarding the intraoperative frozen section pathological study of surgical specimen, it showed a sensitivity of 75% with specificity of 96.4% for diagnosis of deep myometrial invasion.

Conclusion The combination of 3D-TVUS and DW-RMI offers a better sensitivity, higher than intraoperative frozen section pathological study of the surgical specimen, for the diagnosis of deep myometrial invasion in patients with early-stage, grade 1–2, endometrioid endometrial cancer. Such information may be useful in selecting patients who require lymph node dissection.

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Clinical Parameters Predicting Risk of Concurrent Invasive Carcinoma and High-Risk Carcinoma in Patients with Endometrial Intraepithelial Neoplasia

Nazli Orhan, Raziye Melike Yildirim, Halise Meltem Butur, Utku Akgor, Nejat Ozgil, Murat Gultekin, Mehmet Coskun Salman, Hacettepe University Faculty of Medicine; Department of Obstetrics and Gynaecology; Hacettepe University Faculty of Medicine; Department of Gynecological Oncology; Department of Obstetrics and Gynaecology

Introduction/Background Endometrial intraepithelial neoplasia (EIN) is a premalignant lesion, but risk of concurrent endometrial adenocarcinoma (EAC) is also high. Although most patients with EIN diagnosed with concurrent EAC will have low risk disease, some will have high-risk disease who require. Clinical characteristics may help determine such patients.

Methodology Patients with a diagnosis of EIN who were operated at Hacettepe University Faculty of Medicine, Department of Obstetrics and Gynaecology were identified. The rate of concurrent EAC and high-risk EAC were determined. Preoperative characteristics were reviewed in order to determine the predictors of concurrent malignancy.

Results A total of 252 patients constituted study group. Mean age was 46.6 years and 43.7% were postmenopausal. 44.0% had co-existing one or more medical diseases while 14.3% had diabetes, 19.5% had hypertension, and 7.5% had both. The most common surgery was total hysterectomy with or without adnexal removal performed in 93.6% of patients. Frozen section was requested for 82.5% of patients. Final pathology revealed EAC in 17.5%, but only 4.4% had high-risk disease. The accuracy of frozen section for predicting final pathology in terms of the presence or absence of EAC was 89.4%. Patient with malignancy tend to be significantly older (47.4 vs. 54.1 years, p=0.02) and risk of malignancy was significantly higher in postmenopausal women (9.2% vs 28.2%, p<0.001) and in women with hypertension (13.8% vs 32.7%, p=0.02). similarly, patients with high-risk disease were significantly older (48.2 vs. 58.2 years, p=0.01) and this risk was higher in postmenopausal women (1.4% vs. 8.2%, p=0.01) and women with hypertension (3.0% vs. 10.2%, p=0.04).

Conclusion Surgery is the mainstay of treatment in patients with EIN. During surgery, frozen section evaluation should be requested since a significant proportion of patients have concurrent EAC and frozen section is highly effective in determining these patients. Although rare, some patients may have concurrent high-risk endometrial carcinoma necessitating surgical staging. Both concurrent invasive carcinoma and high-risk disease are associated with older age, being in postmenopausal period, and having hypertension.

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Endometrial Biopsies: For Whom and When?

Bilal Esat Temiz, Esra Karatas, Utku Akgor, Murat Gultekin, Mehmet Coskun Salman, Nejat Ozgil, Hacettepe University Hospital; Obstetrics and Gynaecology; Hacettepe University Faculty of Medicine; Department of Gynecological Oncology; Department of Obstetrics and Gynaecology; Hacettepe University Faculty of Medicine; Department of Obstetrics and Gynaecology

Discussion The combination of 3D-TVUS and DW-RMI offers a better sensitivity, higher than intraoperative frozen section pathological study of the surgical specimen, for the diagnosis of deep myometrial invasion in patients with early-stage, grade 1–2, endometrioid endometrial cancer. Such information may be useful in selecting patients who require lymph node dissection.