Methodology The study included patients who underwent pelvic exenteration for recurrent gynaecological cancers from January 2006 to December 2016. Patient characteristics, nature of disease, type of surgery, complications associated were retrieved from the medical records. Surgical complications were graded with Clavein dindo grading. Patients were followed up till December 2020.Survival analysis was done using Kaplan- Meir method

Result(s)* 32 patients were included in the study. Cervical cancer was most common recurrent cancer (81.2%), 6.2% had vulvar cancer, 6.2% had vaginal cancer and 3.1% had endometrial cancer. There were 14 anterior exenterations, 17 total exenterations and 1 posterior exenteration. There was no immediate post-operative mortality. Post-operative complications were seen in 68.5% of which the majority were related to the urinary tract. One patient had Grade IV complication (post-operative myocardial infarction) 4 Grade IIIB (re-laparotomies), 7 patients had Grade II and 10 patients had Grade I complications. Median hospital stay was 12 days (Range 8-22days). Median overall survival was 41 months. 5 year as well as 7 year overall survival was 38%. Median disease free survival was 15 months.

Conclusion* This small series shows that pelvic exenterations are potentially curable surgeries in selected patients with recurrent gynaecological cancers with reasonable long term survival benefit and acceptable morbidity

589 VARIABLES THAT MODIFY THE SURVIVAL AFTER RECURRENCE IN PATIENTS WITH EARLY CERVICAL CANCER

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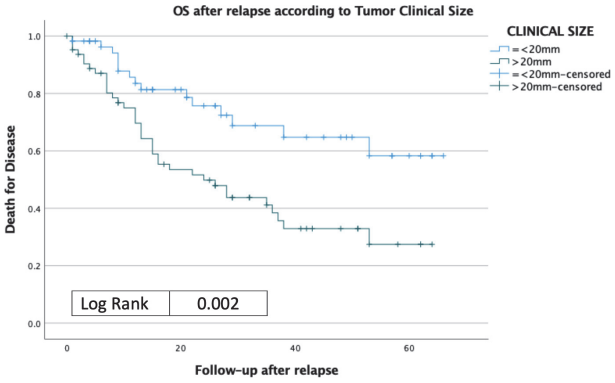
Introduction/Background* The primary objective of this project was to identify the independent clinical-pathological variables associated with the death after relapse in patients with stage IB1 cervical cancer who underwent radical hysterectomy. The secondary objective was to analysis survival post-relapse in these patients.

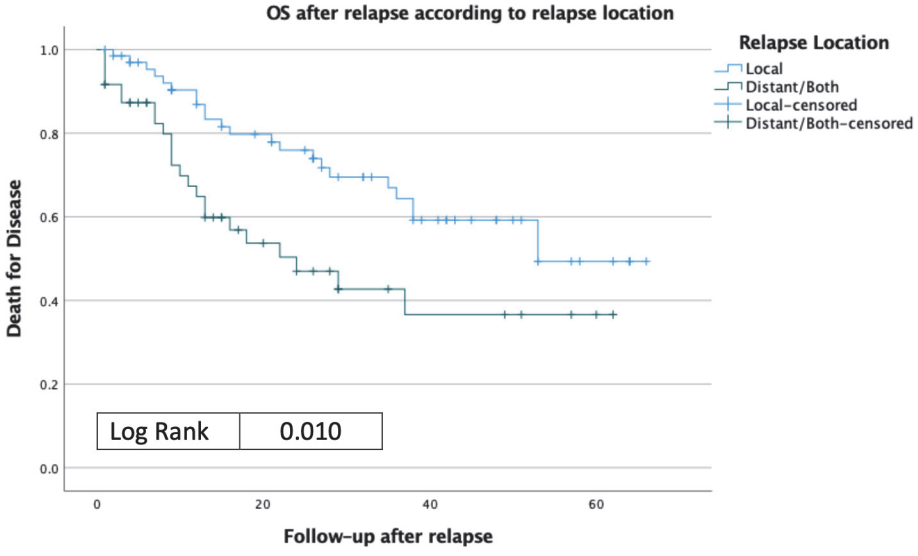
Methodology Based on the SUCCOR study's database . Patients were eligible if they had a relapse (local, distant or both) after underwent a radical hysterectomy in a European Institution for stage IB1 cervical cancer (FIGO 2009), from January 1st, 2013 to December 31st, 2014. To identify variables independently associated with death in these patients, we calculated the odds ratio using simple logistic regression models and subsequently a multivariate backward stepwise procedure. For the secondary end point we calculated Kaplan-Meyer and Cox regression using the results of the univariate and multivariate analysis .

Result(s)* A total of 126 patients were selected, women who died were more likely to have tumors >2cm on the clinical examination (OR, 3.50; 95% CI, 1.35- 9.08) and to have a stromal infiltration higher than 1/3 (OR, 6.30; 95% CI, 1.31-30.00). In contrast, the histologic subtype of adenocarcinoma and treatment with Bevacizumab were found as protective factors against death (OR, 0.32; 95% CI, 0.11- 0.95) and (OR, 0.23; 95% CI, 0.05- 0.99) respectively.

The mean time of relapse of our population was 22.94 months and the median of survival after relapse was 18.5 months.



Abstract 589 Figure 1



Abstract 589 Figure 2

Patients with tumors > 2cm on the clinical examination had a 3.39-times higher hazard of death after relapse (HR, 3.39; 95% CI, 1.52- 7.53) and the distant/both location of relapse had 2.23- times higher hazard of death (HR, 2.23; 95% CI, 1.14- 4.36)

The 2-years survival rates after relapse were 76% for tumors <2cm, 50.0% tumors >2cm on the clinical examination, 76% for local relapse and 47% for distant/both location relapse.

Conclusion* The tumor size on clinical examination, the location of relapse, the histologic subtype and the treatment with Bevacizumab, modify the risks of death after relapse on patients with cervical cancer IB1. Tumor >2cm on clinical examination and distant recurrences have a shorter survival time after relapse

601 TRANSITION FROM FIGO-2009 TO FIGO-2018 IN WOMEN WITH EARLY-STAGE CERVICAL CANCER; DOES THE REVISED STAGING CORRECTLY REFLECT RISK GROUPS?

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Introduction/Background* The International Federation of Gynaecology and Obstetrics (FIGO) revised cervical cancer staging in 2018. We aimed to evaluate risk factors associated with lymph node macro- and micrometastases in women with early-stage cervical cancer, focusing on the revised FIGO-2018 staging system. The overall purpose was to evaluate if the stage migration related to the implementation of FIGO-2018 correctly reflects risk groups as indicated by the presence of lymph node metastases.

Methodology Using data from a national prospective cohort study on sentinel lymph node (SLN) mapping in 245 women with early-stage cervical cancer, we reallocated women from FIGO-2009 to FIGO-2018 stages. We used binary and multiple regression models to investigate the risk ratio of FIGO-2018 stages and tumour characteristics associated with nodal metastases.

Result(s)* Stage migration occurred in 80.4% (197/245), due to tumour size or depth of invasion in 75.1% (148/197), nodal metastases in 19.3% (38/197), and imaging in 4.5% (11/245). Downstaging to FIGO-2018 IA stages occurred in 36,7% (90/245). Six (5.7%) women with stage IA tumour characteristics were upstaged to IIIC1 due to the findings of nodal metastases. The depth of invasion ranged from 4-5 mm and the tumour size from 9-22 mm; all six metastases were SLNs. For the whole population, risk factors significantly associated with nodal metastases were FIGO-2018 ≥ IB2 ($p < 0.001$), parametrial invasion ($p < 0.001$), and lymphovascular space invasion (LVSI) ($p < 0.001$). All three remained significantly associated with nodal metastases in a multivariate analysis.

Conclusion* The FIGO-2018 revised staging system causes stage migration for a large proportion of women with early-stage cervical cancer. The attention on depth of invasion rather than horizontal dimension seems to reflect the risk of nodal metastases correctly. The use of sentinel node mapping in stage IA FIGO-2018 appears to be justified.

604 ROUTINE USE OF CYTOKERATIN IMMUNOHISTOCHEMISTRY IMPROVES THE DETECTION OF LOW VOLUME DISEASE IN EARLY-STAGE CERVICAL CANCER BUT IS COSTLY

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Introduction/Background* In cervical cancer, the sentinel lymph nodes (SLNs) are processed according to the pathological ultrastaging protocol. As part of this protocol immunohistochemistry with cytokeratin AE1/AE3 is performed in addition to standard hematoxylin and eosin (H&E) staining, aiding the detection of low volume disease (i.e. micrometastases and isolated tumour cells (ITC)). Current guidelines advise routine use of cytokeratin immunohistochemistry. We studied the pathological yield, in terms of detecting low volume disease, and cost-effectiveness of this routine immunohistochemistry use.

Methodology We retrospectively included all FIGO stage IA-IIA1 cervical cancer patients who had undergone SLN procedures at our institution between 2007 and 2020. Pathological data were collected from every patient including the number of SLNs stained with cytokeratin imunohistochemistry. Data were analysed using descriptive statistics and McNemar test.

Result(s)* In total 232 cervical cancer patients had undergone a successful SLN procedure harvesting a total of 647 SLNs. Of these nodes, 540 SLNs from 215 patients were routinely processed with cytokeratin immunohistochemistry. Immunohistochemistry identified low volume disease in 25 SLNs from 22 patients: 14 with micrometastases (11 patients) and 11 with ITC (11 patients). Four nodes with micrometastases (three patients) and six nodes with ITC (six patients) would have been missed without the routine use of immunohistochemistry. Overall, 54 SLNs needed to be immunohistochemically stained to detect one additional SLN with low volume disease, 135 for micrometastases and 90 for ITC, leading to an expenditure of € 5920 to identify one additional low volume diseased SLN: € 14800 for micrometastases and € 9867 for ITC. Compared to H&E staining, routine immunohistochemistry significantly increased the rate of patients with low volume disease from 18 (8.4%) to 26 patients (12.1%) ($p=0.02$). When only micrometastases were considered as tumour positive, routine immunohistochemistry increased the rate of patients with positive sentinel lymph nodes from 12 (5.6%) to 15 patients (7.0%) ($p=0.25$).