

**Methodology** Patients treated with PARPis between November 2016 and December 2020 were enrolled in this prospective study. PRO-CTCAE questionnaires were generated on the specific toxicities of PARPis using the form builder developed by the Division of Cancer Control and Population Science in the National Cancer Institute at the National Institute of Health and administered to the cohort. Patients toxicities, as recorded by physicians, were analyzed and compared with monthly PRO-CTAE questionnaires.

**Result(s)\*** Thirty-one EOC patients underwent maintenance therapy with PARPis after 1 (24%), 2 (48%) and  $\geq 3$  (28%) lines of chemotherapy. The median age was 56 (range 35-77), 83.3% of patients had an ECOG Performance Status 0 and 14 (45.2%) were BRCA mutated. 50% received olaparib, 42.9% niraparib and 7.1% rucaparib. No patient discontinued treatment due to toxicity and 38.7% delayed the treatment due to anaemia (29%) or thrombocytopenia (9.7%). Haematological toxicities and asthenia were the most frequent adverse events recorded by physicians and occurred in 42.5% and 45.2% of patients, respectively. Concordance between the toxicity reported by patients and by physicians was observed in 40% of cases. PRO-CTCAE questionnaires contributed to the toxicity evaluation revealing symptoms under-reported by physicians, in particular: 35.7% of anorexia, 79.5% of nausea, 90% of vomiting, 63.7% of constipation, 79.8% of diarrhea, 35.3% of asthenia, 87.4% of arthralgia and 100% of headache and insomnia.

**Conclusion\*** PRO-CTCAE is a toxicity assessment tool that should be required especially in the monitoring of maintenance treatments. The physician's evaluation of toxicities, enriched by the patient reported outcomes, could allow more targeted and earlier interventions and potentially affect the adherence to the treatment.

All authors have no conflict of interest

## 600 MULTIMODAL SCORING SYSTEM FOR R0 RESECTION IN OVARIAN CANCER

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**Introduction/Background\*** Complete tumor resection (R0) at primary or interval debulking surgery is a main prognostic factor for overall survival in patients diagnosed with ovarian cancer. Neoadjuvant treatment has become standard of care in patients with advanced disease (FIGO stage IIIC/IV) or reduced performance status. Radiologic assessment of treatment response using CT scans has a low prediction for complete surgical tumor resection.

Here we aim to identify prognostic factors associated with R0-resection after neoadjuvant chemotherapy (NACT) for ovarian cancer and propose a multimodal scoring system using 3 Tesla diffusion-weighted MRI (DW-MRI), CA-125 and diagnostic laparoscopy for future investigation.

**Methodology** All patients treated with neoadjuvant chemotherapy for advanced primary ovarian, peritoneal or Fallopian tube cancer between 01/2012-12/2020 at the University Hospital Bern were included in this retrospective cohort study. Clinical and surgical data assessed include age, menopausal status,

ECOG performance status, radiologic findings, histologic subtype, FIGO stage, CA-125, Fagotti-score, surgical resection status and chemotherapeutic regimen.

**Multiple MR-graphic findings are scored** number and distribution of intra-abdominal and thoracic lesions, qualitative and quantitative diffusion restriction, lymph nodal (LN) status, as well as prevalence and size of cardio-phrenic LN. Following treatment, change in tumor and metastatic lesion size are assessed.

**Result(s)\*** Overall, 130 out of 475 women with primary ovarian cancer treated at the University Hospital Bern between 2012 – 2020 underwent NACT. Mean age was 66.2 years (range 24-90). Most patients were diagnosed with high-grade serous subtype (92%) at FIGO stage IIIC or IV (78%). Interval debulking surgery was performed and resection status was noted for 112 patients after a mean of 3 neoadjuvant cycles. R0 resection was achieved in 80 patients (71.4%), 10 patients (8.9%) had residual disease <1cm.

Until now, in our cohort, DW-MRI was performed in three patients during NACT.

**Conclusion\*** We propose a multimodal scoring system for R0-resection based on DW-MRI, CA-125 and Fagotti-Score assessed during diagnostic laparoscopy. To validate this score, a prospective multicentre study including women with suspected primary or recurrent ovarian cancer is planned.

## 605 INFLUENCE OF SPLENECTOMY ON CHEMOTHERAPY TREATMENT AND ONCOLOGICAL PROGNOSIS IN WOMEN WITH ADVANCED OVARIAN CANCER

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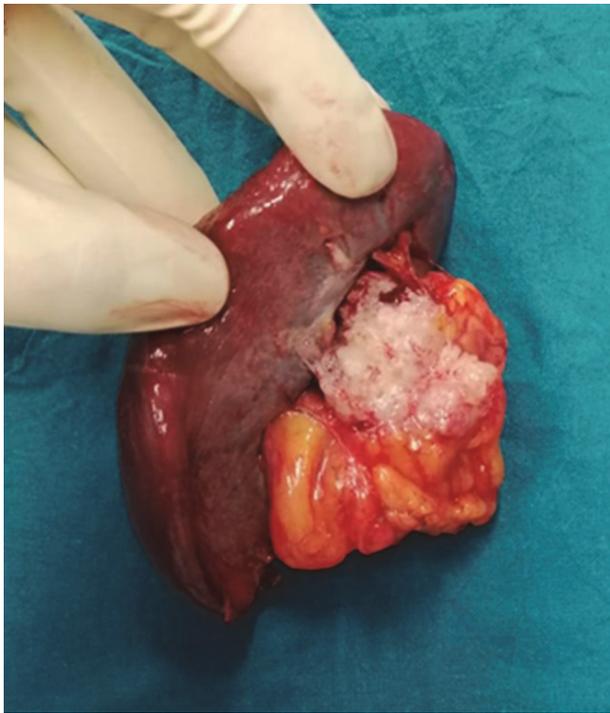
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**Introduction/Background\*** To determine the effect of splenectomy on subsequent chemotherapy treatment and prognosis in women with advanced ovarian cancer.

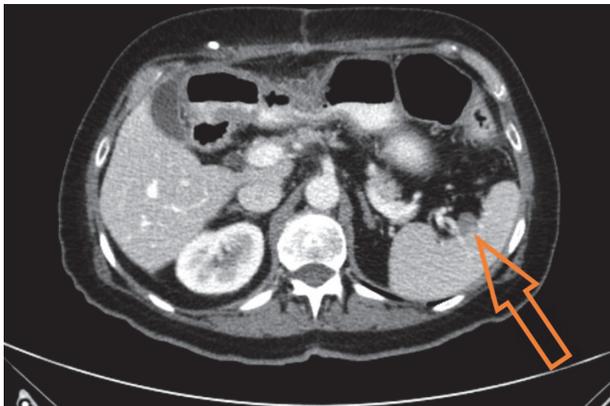
**Methodology** We performed a retrospective study comparing two cohorts of patients. Data from 60 women who underwent splenectomy during cytoreductive surgery for primary or relapse ovarian cancer were compared with 62 controls who also underwent this type of surgery without splenectomy matched for baseline and surgical characteristics including type and date of surgery at University Hospital La Fe (Spain) between November 2011 and December 2019.

**Result(s)\*** A total of 72/459 (15.7%) women who underwent splenectomy for advanced ovarian cancer were identified. Twelve women were excluded and finally 60 cases and 62 controls were identified.

No differences were observed regarding the following variables: postoperative complications (31.7% vs. 19.4%), mean time to start adjuvant chemotherapy (48.6 vs. 42.7 days), mean time to complete chemotherapy in women who received only adjuvant treatment (104 vs. 116 days) and percentage of six-cycle chemotherapy completion (78.8% vs. 98.4%) after adjusting for a potential confounding factors. No differences were observed between groups related to cycles delayed (50% vs. 32.3%; P=0.16) and reduction in the doses of chemotherapy (23.3% vs. 22.6; P=0.61); unlike the differences found according to cycles cancelled (30% vs. 11.3%; P=0.037). Two women died in the splenectomy group (3.3%). The mean



Abstract 605 Figure 1



Abstract 605 Figure 2

follow-up time was 30.4 months. There were no differences in progression free-survival (long-rank=0.069) or overall survival (long-rank=0.47) between the groups.

**Conclusion\*** Splenectomy in the course of debulking surgery for ovarian cancer does not seem to be associated with a higher rate of postoperative complications. Additionally, splenectomy does not have a deleterious influence before or during chemotherapy administration or a negative impact on oncological outcome.

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#### THE INCIDENCE OF ENDOMETRIOSIS IN PATIENTS WITH OVARIAN CANCERS

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**Introduction/Background\*** Endometriosis is one of the most common gynaecological disorders. It affects 10–15% of all women in the reproductive years. Although endometriosis is recognised as a benign disease, its association with ovarian cancer has been frequently described in the medical literature since 1925. The aim of our study was to determinate the incidence of endometriosis in patients with proven ovarian cancer.

**Methodology** The study is retrospective, single-center and was conducted at the Clinic of General and Oncological Gynecology, Military Medical Academy-Sofia for a period of 2 years (2018-2020). The information from the history of the disease, operative protocol and histopathological examination were used. Included are 54 patients with histologically verified ovarian cancer operated at the Clinic of General and Oncological Gynecology. Preoperative tumor markers were examined in all patients. The staging of the disease is according to the FIGO classification. Histopathological preparations for the presence of endometriosis were revised in all patients.

**Result(s)\*** The mean age of the patients enrolled in the study was 60.5 years (39 to 83 years). Depending on the histological type of ovarian cancer, the distribution is as follows: serous - 38 (70.4%), mucinous - 6 (11.1%), endometrioid - 2 (3.7%), clear cell - 2 (3.7%), granulosa cell - 3 (5.6%), small cell - 1 (1.8%), seromucinous - 2 (3.7%). Histologically, endometriosis was detected in 11 (20%) of all patients. In patients with endometriosis, the most common histological type of ovarian cancer is serous - 6 (54.5%).

**Conclusion\*** According to our results, the incidence of endometriosis accompanying ovarian cancer is relatively high. Additional research is needed to look at the relationship between endometriosis as a precursor to ovarian cancer.

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#### GENETIC PROFILE BY WHOLE EXOME SEQUENCING OF BORDERLINE OVARIAN TUMORS: SERIES OF 32 PATIENTS

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**Introduction/Background\*** Borderline ovarian tumors are defined as non-invasive epithelial ovarian tumors which can have an intraperitoneal extension. Molecular studies have shown a correlation between the patient's response to chemotherapeutic treatments adjunct to surgery and the tumor's genetic profile, especially related to the KRAS and BRAF genes. This study aims to assess the molecular profile of

BOTs in the Lebanese population by Whole Exome Sequencing (WES) and correlate the results with patients' clinical profiles.

**Methodology** 33 tumors belonging to 32 Lebanese patients presenting with BOTs, diagnosed at Hôtel Dieu de France were included. A total of 234 genes involved in different germinal and somatic types of cancer were analyzed using Next Generation Sequencing in the 33 included tumors. Genetic variants detected in more than 5% of the reads, with a sequencing depth  $\geq 50x$ , were selected.