outcomes. However, the impact of body fat distribution on survival and surgical outcomes in endometrial cancer patients is unclear.

**Methods** This is a retrospective study in women diagnosed with primary endometrial cancer between February 2006 and August 2017 at the Royal Cornwall Hospital who had abdominal CT-scan as part of routine diagnostic work-up. Subcutaneous abdominal fat volumes and visceral abdominal fat volumes were quantified, and visceral fat percentage calculated.

**Results** A total of 302 patients with high grade endometrial cancer were included. The median age was 70 years and median Body Mass Index (BMI) was 29.7 kg/m². The majority of patients (60%) had endometrioid type histology. High visceral fat percentage was associated with poor overall- and disease-free survival (p < 0.001 and p = 0.003 respectively), which remained significant when adjusting for age, FIGO stage, histological subtype, comorbidities and BMI. Postoperative complications were more frequent in patients with high visceral fat volume (p = 0.002) and multiple comorbidities were associated with high BMI (p < 0.001) and high visceral fat percentage (p < 0.001).

**Conclusion** Obesity with high visceral fat percentage is an independent negative prognostic factor in endometrial cancer and high visceral fat volumes are associated with increased postoperative complication rates. The additional association of high visceral fat with multiple comorbidities might be reflecting an unhealthy macroenvironment.

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**RADIATION: CURE OR CURSE? A CASE REPORT ON RADIATION-INDUCED ENDOMETRIAL CANCER AFTER CERVICAL CANCER TREATMENT**

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Radiation-Induced Malignancies (RIM) are rare clinical entities that encompass different histological types, majority being high grade and deep tumors with worse prognosis, hence becoming a therapeutic challenge. The reported incidence of an endometrial cancer developing after radiation therapy for cervical cancer is 0.5% - 0.8%. After a thorough literature search, this probably is the first case of endometrial cancer reported as a second primary malignancy following radiation therapy for cervical cancer in the local setting. A 60 - year old para 4 was diagnosed with Stage IIIB squamous cell carcinoma of the cervix who underwent concurrent chemoradiotherapy with brachytherapy. She had an incidental history of chronic Hepatitis B infection and Rheumatic Heart Disease. She remained asymptomatic with no evidence of disease for 11 years until abdominal pain ensued. A transvaginal ultrasound showed fluid - filled uterine cavity and intracavitary mass. On exploratory laparotomy, peritoneal fluid cytology, extrafascial hysterectomy with bilateral salpingo-oophorectomy, resection of rectal mass and biopsy of mesenteric implants were performed. Final histopathology revealed an advanced stage adenosquamous carcinoma of the endometrium.

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**UPTAKE OF BREAST CANCER SCREENING STRATEGIES IN EPITHELIAL OVARIAN CANCER PATIENTS WITH BRCA1/2 MUTATION**

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**Objective** To report on the uptake of breast cancer screening strategies in epithelial ovarian cancer patients with BRCA1 or BRCA2 mutation.

**Methods** A retrospective review of the clinico-pathologic data and implementation of breast cancer surveillance was performed on patients who were diagnosed with epithelial ovarian cancer at a single center between 2009 and 2019. If annual mammography or breast MRI was performed, it was considered that breast cancer screening was done following the guidelines.

**Results** A total of 309 women were diagnosed as epithelial ovarian cancer during the study period. Of these, 66 patients (21.4%) carried out BRCA testing. Thirteen patients (19.7%) had BRCA1/2 pathogenic/likely pathogenic variants, 10 of whom with BRCA1 mutation and 3 with BRCA2 mutation. Among the 13 patients with BRCA1/2 mutation, 10 patients received annual mammography with or without breast ultrasonography. Only 1 patient performed breast MRI. During the follow-up period, 1 patient developed breast cancer and another patient was diagnosed with pancreatic cancer.

**Discussion** The uptake of BRCA1/2 testing and breast cancer surveillance among epithelial ovarian cancer patients with BRCA1/2 mutation is still not optimal, and strategies to increase uptake are needed.