Abstracts - RGCON 2016

Introduction: Granulosa cell tumors comprise approximately 5% of all ovarian malignancy and account for 70% of malignant sex cord stromal tumors. Granulosa cell tumors have been diagnosed from infancy, the peak incidence being perimenopausal age. The potential of malignancy of these tumors is low, recurrences are often late and found in 10-33% of cases.

Case Report: A 32-year-old P1L1 presented with large abdominal mass for which she underwent laparotomy with debulking surgery. She was known case of granulosa cell tumor in the past and had undergone three laparotomies, along with chemotherapy. At the age of 13 years, she was diagnosed with a stage IA granulosa cell tumor (GCT) of the ovary first time. She underwent surgical staging and removal of left sided adnexal mass, after which she was asymptomatic for 7 years. In 2003 she again presented with lump abdomen for which she underwent resection of adnexal mass, histopathology was consistent with recurrent GCT. After second surgery she also received two cycles of chemotherapy. Despite adjuvant chemotherapy, patient presented again after three years in 2006 with adnexal mass and was found to have a third recurrence. At that time, she received 6 cycles of chemotherapy and the mass regressed. Meanwhile she got married and had one child. After four year in 2010 she again presented with lump abdomen and she underwent surgical staging, total abdominal hysterectomy with right salphingo ophorectomy along with removal of mass. After five year in 2015 she again presented with lump abdomen; there was a large pelvic mass which was removed and patient referred for chemotherapy.

Discussion: GCTS which a rare malignant tumors of ovary tend to be associated with late recurrences. Although most recurrences occurs within 10 years after initial diagnosis, there are occasional reports of recurrences after10 years. We experienced the rare case of a patient who relapsed multiple times over 20 years, despite surgical and targeted treatment. In conclusion the long history of granulosa cell tumor highlights the importance of extended follow up of the patient.

Key words: Granulosa cell tumor; recurrent disease; chemotherapy; surgical staging

Ovary: Oral Abstract

Role of IL-6 and VEGF in epithelial ovarian cancer
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Introduction: Over the last two decades there is a trend toward increasing incidence of ovarian cancer cases. CA-125 and some other tumor markers are known to have prognostic importance. Some cytokines have also been studied for their role in prognosis; IL-6 and VEGF are among them. It is hypothesized that these cytokines might affect the clinical progression of patients with ovarian cancer.

Aim and Objectives: To measure and correlate the effect of levels of IL-6 and VEGF in ascitic fluid on presentation, treatment response and outcome in patients with epithelial carcinoma ovary and to determine whether levels of IL-6 significantly correlate with progression-free survival.

Materials and Methods: Thirty patients with epithelial ovarian carcinoma and 15 patients who were undergoing hysterectomy for benign condition were recruited. Once patients found fit for study, they were taken up for primary debulking surgery. Ascitic fluid was collected and sent for measuring IL 6 and VEGF levels. Peritoneal washings taken from patients posted for primary debulking surgery were also done. Levels of IL 6 and VEGF were correlated with progression-free survival

Results: Median value of IL-6 in ascitic fluid was 8563.18 pg/ml in EOC cases and 17 pg/ml in benign pathology group and of VEGF was 6690.35 pg/ml and 34.01 pg/ml, which were found to be significantly higher in cases compared to control group (p < 0.0001). Levels of VEGF was significantly higher in patients with positive ascitic fluid cytology (p = 0.009) and ascitic fluid volume > 1L (p = 0.021). Correlation of VEGF and IL6 levels with other prognostic was not statistically significant. Levels of IL-6 and VEGF in ascitic fluid did not correlate statistically with survival time or with recurrence (p = 0.651).

Conclusion: Levels of VEGF in ascitic fluid were found to correlate with ascitic fluid cytology and volume but not with FIGO stage, histological grade, histological type, tumor size, residual tumor, CA 125 levels, chemotherapy response, presentation and with overall outcome and survival time. None of the above mentioned prognostic factors were found to correlate with levels of IL-6 in ascitic fluid.

Ovary: Oral Abstract

Clinico-pathological characteristics of epithelial ovarian malignancy in young female
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Background and Objective: Epithelial ovarian cancer mostly appears in aged women, but rarely in young women. Little is known about the clinical characteristics and prognosis of epithelial ovarian cancer in women aged below 40 years. This study was to evaluate the clinical and histopathological characteristics of young patients with epithelial ovarian cancer.

Methods: A total of 31 patients with confirmed epithelial ovarian cancer under the age of 40 years between 2007 to 2015 were retrospectively analyzed.

Results: Mean age of the patient is 32 years. The common symptoms included abdominal pain (21 patient 67%), self detected pelvic mass (9 patient 29%) and 1 patient with bleeding per vagina. The average maximum diameter of tumour is 10.7 cm. Family history positive in 8 patient (5 ca. breast and 3 ca.ovary). Mean level of CA.125 is 883.36 u/ml.CA 125 level lowest is of 6 u/ml and highest is of 7557 u/ml. Tumour located bilaterally in 14 patient (45%), Ascitis present in 18 patient (58%). Pleural effusion seen in 6 patient (19%). Twenty six cases underwent optimal cytoreduction out of them 7 taken NACT. Two patient underwent fertility preservation surgery. Three patient underwent palliative chemotherapy due to unwillingness. Eleven patient classified as stage III and stage IV each (35% of each), six patient is of stage I (19%) and three patient of stage II (9.6%). Serous adenocarcinoma (80.6%) and mucinous adenocarcinoma (19%) are the common histopathological findings. Thirteen patient (41.9%) has well differentiated tumour, eight (25.8%) has moderately differentiated and ten (32.2%) has poorly differentiated tumour. Twenty eight patient received platinum and paclitaxel-based chemotherapy before or after operation.

Conclusion: Young women with epithelial ovarian cancer under the age of 40 years mostly have serous adenocarcinoma; well differentiated and tumors are normally bilateral. The ovarian function can be preserved (fertility preservation) in part of stage Ia and Grade I patients.

Ovary: Oral Abstract

Role of CA 19-9 in complex ovarian tumors
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Background: Cancer antigen 19-9 (CA 19-9) is a tumor-associated mucin glycoprotein antigen that may be elevated in healthy individuals as well as in patients with benign and malignant tumors. It is useful in the management of pancreatic and other gastrointestinal tumors. CA 19-9 is also elevated in benign and malignant ovarian tumors.

Aim: To study the pattern of serum CA19-9 in complex ovarian tumors.

Methods: The study design was descriptive, based on data collected from medical records. Patients with a complex ovarian mass, who were investigated with CA 19-9 and had undergone surgery, were included in the study. The study duration was 2 years from January 2014 to December 2015. A total of 273 patients (119 - benign and 154 malignant) with complex ovarian mass and elevated CA 19-9 underwent surgery during the study period.

Results: CA 19-9 was elevated in 55 patients (20%). Of these, 23 patients had benign tumors while 32 had malignant tumors. Among patients with benign tumors, 21 had dermoid, 23 had mucinous tumors and 75 had other types of tumors. CA 19-9 was elevated in 10 (47.6%) of the dermoids, 7 (30.4%) of the mucinous tumors and 6 (8%) of the other benign tumors. Among patients with malignant tumors, 138 were epithelial and 16 were non epithelial tumors. Of the epithelial tumors, 31 were mucinous and 107 were non mucinous types. Overall, 29 (21%) had elevated CA 19-9. Of the epithelial tumors, 22.6% of the mucinous type and 20.6% of the non mucinous type had elevated CA 19-9. Among the non-epithelial tumors, 3 (18.8%) had elevated CA19-9.