

# **Medical and Research Publications**

## **International Open Access**

**Case Report** 

Journal of MAR Gynecology (Volume 4 Issue 4)

# An Interesting Case of an Undiagnosed Ovarian Tumour weighing 4.2 kg – a Case Report

Dr Arunima Rathore \*1, Prakriti Singh 2

- 1. MBBS DGO DNB FICOG FMAS, Sri Mata Vaishno Devi Multispecialty Narayana Hospital, Kakryal, Jammu (J&K).
- 2. 5th Year Medicine, Masaryk University, University Hospital Brno, Jihlavská 340/20, 625 00 Brno, Bohunice-Brno-Starý Lískovec, Czechia.

**Corresponding Author: Dr Arunima Rathore,** MBBS DGO DNB FICOG FMAS, Sri Mata Vaishno Devi Multispecialty Narayana Hospital, Kakryal, Jammu (J&K).

**Copy Right:** © 2023 Dr Arunima Rathore, This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Received Date: January 31, 2023

Published Date: February 10, 2023

#### Abstract

Ovarian cancer is the 7th cause of death and morbidity in females worldwide. (1a,b) Numerous studies propounded that ovarian germinal epithelium or postovulatory epidermoid cysts formed after follicular rupture and repair were responsible for the genesis of the majority of ovarian carcinomas. (2-4) The highest cancer incidence was registered in 2012 – accounting for 81.80% of all cases in America and 11.33% of all cases in India. (5) Worldwide, the number of deaths from ovarian cancer was 4.4% in 2018. (6) WHO stated that 65% of these were Epithelial surface tumours; 15% were Germ cell tumours; 10% were Sex cord tumours; 5% metastatic tumours and miscellaneous ovarian tumours also accounted for another 5%. (1-8) Up to 25% of ovarian cancers are a part of familial cancer syndromes. The risk of ovarian cancer has been shown to increase with age. It is therefore rare in women younger than 40 years of age and notably, is the worst in women after menopause. Women who have a first full-term pregnancy after 35 years also hold a higher risk of developing ovarian cancer. (9)

Likewise, results show that CA 125 was raised in over 80% of advanced epithelial ovarian cancers (EOC). It was lower at about 50% for Stage 1 and the lowest in mucinous EOC. However, CA 125 is not only specific to EOC but can be seen in pelvic inflammatory disease, endometriosis or pancreatic endometrial cancer.(10,11,12) Two parallel European randomised controlled trials (RCT) were conducted along with data analysis from an international collaborative ovarian neoplasm study and adjuvant chemotherapy. From this, a subgroup examination found the effects of chemotherapy in cases not optimally treated (13) and the clinical relevance of early ovarian cancer surgical staging.

Keywords Ovarian Cancer, Epithelial ovarian cancer, CA 125, Familial cancer

#### **Journal of MAR Gynecology (Volume 4 Issue 4)**

#### **Abbreviations**

EOC – Epithelial Ovarian Carcinoma

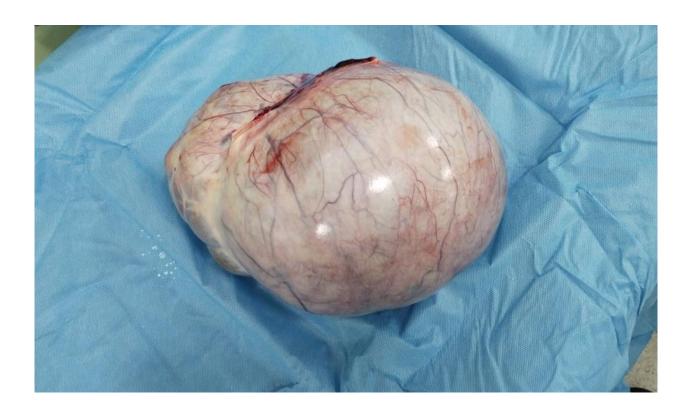
RCT – Randomised Controlled Trials

CA-125 – Cancer Antigen 125

CECT – Contrast Enhanced Computed Tomography

### **Case Report**

Background In rural areas of India, diagnosing ovarian cancers can be challenging. In August 2022 a 46-year-old patient with a past medical history of hypertension and hyperthyroidism was admitted with the chief complaints of abdominal pain lasting for a week. Physical examination showed abdominal swelling and indigestion was also present, though the general condition was fair and she remained afebrile.



**Journal of MAR Gynecology (Volume 4 Issue 4)** 

**Materials and Methods** 

Abdominal cavity was bloated and per abdominal examination revealed a large solid cystic mass

reaching up to the epigastric region. Per vaginum, fullness was seen in both the fornices.

Hemodynamically, the patient was stable. CBC done was normal, eGFR: 132.83, TSH: 13.4, CA-

125:47.7, IgE: 1864.6

CECT of the whole abdomen revealed a large solid cystic mass with a large cystic component

superiorly and a solid septated component inferiorly abutting the uterus and left adnexa on CT report.

Cytoreductive surgery was performed with staging laparotomy, total abdominal hysterectomy,

bilateral salpingo-oophorectomy, retroperitoneal dissection and supracolic omentectomy.

Operative findings showed a left-sided 23cm solid/cystic mass with a variegated appearance weighing

4.2kg, samples of which were sent for histopathological examination. Operative findings also included

mild peritoneal fluid and a bulky uterus. However liver/subdiaphragmatic peritoneum was normal,

right ovary and fallopian tube were normal with no ascites.

The histopathological examination of the solid cystic mass from the left ovary was found to be a

mucinous adenocarcinoma. The FIGO stage assigned was 1AG2 (a moderately differentiated

mucinous adenocarcinoma), as the tumour was limited to one ovary or fallopian tube; capsule intact

and no tumour present on the ovarian surface or fallopian tube, no malignant cells in ascites or

peritoneal washings.

Additional findings showed intramural leiomyomata, non-secretory endometrium, adenomyosis uteri,

severe chronic cervicitis and a benign haemorrhagic cyst in the right ovary.

Discussion

According to recent research published in 2020, data revealed that around 80% of mucinous ovarian

cancers developed from different primary sites. 45% metastasised from the gastrointestinal tract, 20%

began in the pancreas, 18% in the cervix and endometrium and 8% in the breast. However, mucinous

cancer may also develop as a primary tumour in the ovary. About 80% of these primary tumours are

diagnosed at stage 1.14

#### **Conclusion**

Ovarian cancer is one of the world's leading causes of death in women. The key imperative aspects are lifestyle, genetics and environment. Breastfeeding, oral pills and childbirth minimise the risk.

#### Reference

- 1. a) Momenimovahed, Zohre, et al. "Ovarian Cancer in the World: Epidemiology and Risk Factors." International Journal of Women's Health, Volume 11, 2019, pp. 287–299., https://doi.org/10.2147/ijwh.s197604.
- b) Shabir, Saba, and Prabhjot Kaur Gill. "Global Scenario on Ovarian Cancer Its Dynamics, Relative Survival, Treatment, and Epidemiology." Adesh University Journal of Medical Sciences & Research, vol. 2, 2020, pp. 17–25.
- 2. Simón Carlos, and Antonio Pellicer. "6 Germline Stem Cells and Adult Ovarian Function." Stem Cells in Human Reproduction: Basic Science and Therapeutic Potential, Informa Healthcare, New York, 2009, p. 57.
- 3. Hudson, Laurie G., et al. "Activated Epidermal Growth Factor Receptor in Ovarian Cancer." Cancer Treatment and Research, 2009, pp. 203–226., https://doi.org/10.1007/978-0-387-98094-2\_10.
- 4. Auersperg, N., et al. "Early Events in Ovarian Epithelial Carcinogenesis: Progress and Problems in Experimental Approaches." International Journal of Gynecological Cancer, vol. 12, no. 6, 2002, pp. 691–703., https://doi.org/10.1046/j.1525-1438.2002.01152.x.
- 5. Bray, Freddie, et al. "Global Cancer Statistics 2018: Globocan Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries." CA: A Cancer Journal for Clinicians, vol. 68, no. 6, 2018, pp. 394–424., https://doi.org/10.3322/caac.21492.
- 6. Torre, Lindsey A., et al. "Ovarian Cancer Statistics, 2018." CA: A Cancer Journal for Clinicians, vol. 68, no. 4, 2018, pp. 284–296., https://doi.org/10.3322/caac.21456.
- 7. Sutton, C L, et al. "Ovarian Masses Revisited: Radiologic and Pathologic Correlation." Radio Graphics, vol. 12, no. 5, 1992, pp. 853–877., https://doi.org/10.1148/radiographics.12.5.1529129.
- 8. Burger, Curt W., and Peter Kenemans. "Postmenopausal Hormone Replacement Therapy and Cancer of the Female Genital Tract and Breast." Current Opinion in Obstetrics and Gynaecology, vol. 10, no. 1, 1998, pp. 41–45., https://doi.org/10.1097/00001703-199802000-00008.

Citation: Dr Arunima Rathore "An Interesting Case of an Undiagnosed Ovarian Tumour weighing 4.2 kg – a Case Report"

MAR Gynecology Volume 4 Issue 4

www.medicalandresearch.com (pg. 5)

#### **Journal of MAR Gynecology (Volume 4 Issue 4)**

- 9. Simón Carlos, and Antonio Pellicer. "6 Germline Stem Cells and Adult Ovarian Function." Stem Cells in Human Reproduction: Basic Science and Therapeutic Potential, Informa Healthcare, New York, 2009, p. 57.
- 10. Loizzi, Vera, et al. "Pseudo-Meigs Syndrome and Elevated CA125 Associated with Struma Ovarii." Gynecologic Oncology, vol. 97, no. 1, 2005, pp. 282–284., https://doi.org/10.1016/j.ygyno.2004.12.040.
- 11. Doubeni, Chyke A., et al. "Diagnosis and Management of Ovarian Cancer." American Family Physician, 1 June 2016, https://www.aafp.org/pubs/afp/issues/2016/0601/p937.html.
- 12. Jelovac, Danijela, and Deborah K. Armstrong. "Recent Progress in the Diagnosis and Treatment of Ovarian Cancer." CA: A Cancer Journal for Clinicians, vol. 61, no. 3, 2011, pp. 183–203., https://doi.org/10.3322/caac.20113.
- 13. "International Collaborative Ovarian Neoplasm Trial 1 and Adjuvant Chemotherapy in Ovarian Neoplasm Trial: Two Parallel Randomized Phase III Trials of Adjuvant Chemotherapy in Patients with Early-Stage Ovarian Carcinoma." JNCI: Journal of the National Cancer Institute, vol. 95, no. 2, 2003, pp. 105–112., https://doi.org/10.1093/jnci/95.2.105.
- 14. "Mucinous Ovarian Cancer: Symptoms and Treatments." Medical News Today, MediLexicon International, https://www.medicalnewstoday.com/articles/mucinous-ovarian-cancer.