

15th World Congress on Gynecology, Obstetrics and Womens Health
17th International Conference on Traditional Medicine and Acupuncture
9th World Summit on Cancer Science and Oncology

MAY 26, 2022 | Webinar

Complicated (ruptured) malignant ovarian Yolk sac tumor in a 7 year old female: A rare case report and literature review

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Ovarian neoplasms in pediatrics are rare with incidence of 2.6/100.000 girls/year, also ovarian malignancy is even rarer. The germ cell tumors (GCT) are the most common tumor in childhood. They account for 3% of pediatric cancers. Yolk sac tumor (YST) often presents in young women (18-30) years old; 33% of YST patients is premenarchal. They account for 3% of pediatric cancers. The incidence frequency of ovarian GCT in the pediatrics is considered to be the highest one (58-70%) if compared with the other ovarian tumors. YST is highly malignant growing rapidly with a very brief duration of symptoms which metastasizes fast to all intra-abdominal structures and retroperitoneal lymph nodes. Pre-operative diagnosis is difficult, as YST do not have a specific radiological image. YST was universally life-threatening before the combination chemotherapeutic regimens administration which was introduced by the end of 1970s, the 5-year survival rates of YST significantly increased from 14% to nearly 90%.

High values of alpha fetoprotein (AFP) orientate strongly

to diagnosis of YST. Also, it is a sensible marker for tumor's evolution; in fact a rapid decrease of serum AFP levels after surgery is a sign of absence of residual tumor and normalization of AFP reflect the efficiency of chemotherapy. The treatment generally involves debulking surgery of tumors followed by systemic chemotherapy, which improved the survival rates dramatically and fertility preserving surgery has become possible. Our review highlights the importance of YST in children, and we provided our valuable experiences in the approaches of diagnosis and treatment for YST in children. We described diagnosis and management of a rare complicated case of YST in a 7-year-old girl.

Speaker Biography

Yasmine El Masry has completed her MD in obstetrics and gynecology at the age of 35 years old from Tanta University, Egypt. She is a lecturer in obstetrics and gynecology department, faculty of medicine, Tanta University.

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Received Date: April 18, 2022; **Accepted Date:** April 20, 2022; **Published Date:** June 01, 2022