

5<sup>th</sup> European Conference on

# Clinical and Medical Case Reports

September 07-08, 2017 Paris, France

## High grade b- cell non- hodgkin's lymphoma arising in a mature cystic teratoma of the ovary

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**M**ature cystic teratoma (MCT) is the most common type of ovarian germ cell tumor occurring in females of reproductive age. It is typically benign, but rare malignant transformation has been reported in 1-2% of the cases. Among a wide variety of malignancies arising in MCTs, high grade lymphomas are among the least common malignancies. We present a case of a 45 years old female with a unilateral adnexal mass. Gross examination revealed a unilocular cyst with a smooth and intact capsule. The lumen of the cyst was filled with sebaceous material and hair. Except for a 5.0cm Rokitansky nodule, no other nodule or papillary structures were identified. Microscopic examination revealed an array of mature tissues arising from different germ cell layers and foci of diffuse sheets of large atypical lymphoid cells. These were positive for CD-20 immunohistochemical marker, confirming their B lymphoid series cell origin. A final diagnosis of a High Grade B- Cell Non Hodgkin's Lymphoma arising in an ovarian mature cystic teratoma was made. Such cases have been known to be associated with a very poor prognosis and there are no established criteria for their pre-operative diagnosis. Risk factors for malignant transformation in a MCT are thus analyzed routinely to make a presumptive diagnosis. Some of these factors include; tumor size, post menopausal status and serum tumor markers. These coupled with extensive gross sampling of the tumor specimens and a diligent histopathological examination may aid in an accurate diagnosis of a malignant neoplasm arising in MCTs.

### Biography

Sameen Afzal did her M.B.,B.S. from University Of Health Sciences in 2013 at the age of 24. Now she is doing her post graduate residency from Chughtai Lab. in Histopathology.

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