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Clinicopathologic spectrum of ovarian tumors in adolescents - An eight year single centre experience

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Background: Ovarian tumors are rare in adolescents. This study was conducted at SMS Medical College, Jaipur during the last eight years, to find out the incidence of different ovarian tumors in girls between 10 to 19 years of age, to correlate the clinical and histopathological findings and to help clinicians in solving diagnostic dilemmas in some of these patients.

Materials & Methods: After the detailed clinical notes were analyzed, histopathological examination was done on ovarian tumor specimens received in the Department of Pathology, along with immunohistochemistry wherever required.

Results: A total of 478 cases of ovarian tumors were studied. The patient's age ranged from 10 to 19 years with 4% being premenarcheal. The main complaint was abdominal pain or abdominal distension. Bilaterality was observed in 7% cases. Out of 478 cases, 23% were malignant while the rest were benign. The various benign tumors observed were serous cystadenoma, mucinous cystadenoma, teratoma, fibrothecoma and sex cord tumor with annular tubules while malignant ones observed were mucinous cystadenocarcinoma, immature teratoma, dysgerminoma, yolk sac tumor, granulosa cell tumor and Sertoli-Leydig cell tumor.

Conclusion: This study emphasizes the role of early and correct diagnosis of ovarian tumors in adolescents since appropriate treatment bears important implications on the future reproductive lives of females.

Biography

Shruti Bhargava is Assistant Professor of Pathology at SMS Medical College, Jaipur, India. She is a MBBS (gold medalist) from SMS Medical College and MD (Pathology) from Aligarh Muslim University, India. She is also a Resource faculty, Medical Education Unit, SMS medical College, Jaipur and the Assistant Editor of Rajasthan Medical Journal. She has been a Member of stem cell committee of SMS Medical College and Co-investigator in ICMR funded Limbal stem cell project at SMS Medical College, Jaipur. She has been trained in Dermatopathology at Delhi, human stem cell cultivation at LVPEI, Hyderabad and basic genetics techniques at ACTREC, TMH, Mumbai. She has been a visiting fellow in diagnostic pathology at LUMC, the Netherlands and in Cytopathology at Istanbul University Medical School, Turkey.

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