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## Intracranial teratoma: Case series and review of literature

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**Background:** Teratoma is a common form of germ cell tumors composed of multiple tissues foreign to the site in which arise with histological representation of all three germ cell layers (ectoderm, mesoderm, and endoderm). It was derived from the Greek word teraton meaning a “monster”. It commonly presents during infancy and childhood and accounts for 2% of intracranial tumors in patients under the age of 15 years. Intracranial teratomas are very rare.

**Methodology:** This is a retrospective study done in King Abdulaziz Medical City- Jeddah, and it was approved by the Institutional review board (IRB) of King Abdullah International Medical Research Centre (KAIMRC). All 69 cases with the diagnosis of teratoma during the period of January 2005 to June 2016 were reviewed. Clinical, demographic, radiological and treatment details of the patients were retrieved from the medical records (both hard and electronic). A sub-group analysis was also made for all 3 cases diagnosed as intracranial teratoma.

**Results:** A total number of 69 patients were reviewed, 11 (15.9%) male and 58 (84.1 %) female. The age range is 1 day to 76 years. The sites of pathology of these teratomas were as follows: ovarian: 50 (72.5%), central nervous system (CNS) 3 (4.3%), kidney 1(1.4%), lumbosacral 1(1.4%), neck 2 (2.9 %), retro-peritoneum 3 (4.3%), testis 2 (2.9%) sacrococcygeal 4 (5.8%) and mediastinal 3 (4.3%). The three patients with CNS teratomas had different sites as well, 1 cerebral hemisphere, 1 posterior fossa and 1 pineal gland. There was 1 (33.3 %) mature and 2 immature (66.6 %) , 1 (33.3%) cystic and 2 (50%) solid.

**Conclusion:** Intracranial teratomas 4% of all types of teratomas. The prognosis is dependent on location, size and surgical experience, shortcomings of this study are small number of patients, lack of statistics regarding other forms of brain tumors and being a single study.

### Biography

Ahad Abdullah is a medical intern currently training at King Abdulaziz Medical City National Guard in Jeddah, Saudi Arabia. She obtained her MBBS degree in year 2016 from Batterjee Medical College in Jeddah, Saudi Arabia. She attended several seminars, courses and workshops related to research methodology. She is determined to pursue her career as a physician, surgeon and researcher.

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