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Histopathological profile of Posterior Cranial Fossa Midline Tumors in children

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Introduction: A brain tumor is one of the most devastating forms of human illness especially when they occur in the posterior cranial fossa. Posterior fossa midline tumors are more common in children than in adults. The histological picture cannot be predicted with a high degree of accuracy if the exact tumor location and the imaging characteristics are not taken into consideration.

Methods and Materials: This cross-sectional type observational study was carried out at the Department of Neurosurgery in Bangabandhu Sheikh Mujib Medical University (BSMMU) from June, 2014 till November, 2015. Study population was children upto 18 years of age undergoing posterior fossa midline tumor surgery. Sample size was 38. Preoperative diagnosis was made by plain and contrast MRI of brain and confirmed by postoperative histopathology.

Results: Medulloblastomas were found in 16 (42.1%) cases. Pilocytic astrocytomas were found in 13 (34.2%) cases. Ependymomas were 6 (15.8%) cases and brain stem gliomas were found in 3 (7.9%) cases. Medulloblastomas and pilocytic


astrocytomas constituted the most bulk 76.3% of the posterior fossa midline tumor in children.

Conclusion: In this study medulloblastoma was the commonest posterior cranial fossa midline tumor in children 16 (42.1%), followed by pilocytic astrocytomas 13 (34.2%). Ependymomas are the third most common 6 (15%) and fourth is the brainstem glioma 3 (7.9%).

Speaker Biography

Md. Arif Reza was born in a village of Philip Nagar, Kushtia in 1981. He completed his primary and secondary education in the village; and higher secondary education from Dhaka College. He completed his MBBS from Mymensingh Medical College in 2005 and entered into the Government service through BCS in 2010. He completed the Master of Surgery (MS) in Neurosurgery from Bangabandhu Sheikh Mujib Medical University (BSMMU) Dhaka in 2016. He worked with legendary Professor of Bangladesh: Professor Rashid Uddin Ahmed, Professor Kanak Kanti Barua, Professor Sk Sader Hossain. Now he is working as a Consultant Neurosurgeon in the department of Clinical Neurosurgery at the National Institute of Neurosciences and Hospital, Dhaka, Bangladesh.

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