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Genetic disorders associated with pediatric brain tumor in Eastern Province of Saudi Arabia

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Objective: This study to review all primary pediatrics CNS tumors cases in the Eastern Province of Saudi Arabia and its associated genetic abnormalities over the last 10 years.

Method: A retrospective study includes only primary pediatrics CNS tumors from 2008 till Dec 2018. Age, gender and histopathology classification of the tumors are reviewed for primary as well as the genetic associated if present. Epilepsy lesionectomy cases were tumor founded in histopathology also included.

Results: By collecting data of primary pediatrics neurosurgical brain tumors cases in our hospital (King Fahad Specialist Hospital, Dammam) which is the tertiary care referral center in the eastern province of Saudi Arabia.115 cases collected with age range from 8 months up to 15 years at the time of diagnosis. Among those cases 69 were male (60%) and 46 were female (40%). The majority of cases of primary CNS pathology were medulloblastoma which is 22 cases (19.13%) followed by pilocytic astrocytoma 18 patients (15.65%) then ependymoma which is about 13 (11.30%) and brain stem glioma 12 cases (10.43%). 7 cases (6.09%) diagnosed as Glioblastoma Multiform, almost similar to meningioma which is 6 cases (5.22%), and same number for neurofibroma and germ cell tumors 5 cases each (4.35%), craniopharyngioma and diffused astrocytoma 4 cases each (3.48%), the rest of tumors about 19 case (16.52%). Genetic review for these cases shows 11 cases (9.56%) with neurofibromatosis type-1.

Conclusion: The review of the selected cases show many patent who detected with genetic problems associated with brain tumors which is suspected in well know disease and need a special multi-disciplinary care.

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