



***Fibroblast Growth Factor 2 (Fgf-2) Serum Related Relationship With The Degree Of Intracranial Meningiomas Patients In Haji Adam Malik Hospital, North Sumatera***

**Marsal Risfandi<sup>1\*</sup>, Steven Tandean<sup>1</sup>**

<sup>1</sup>Neurosurgery Department School of Medicine, Universitas Sumatera Utara, Indonesia

**Abstract :** Intracranial meningiomas are benign brain tumors derived from brain wrapping tissue. The growth of intracranial meningioma is influenced by growth factor. Fibroblast Growth Factor (FGF) has urgent angiogenesis and mitogenesis activity on the growth and process of intracranial meningioma tumorigenesis. FGF-2 levels and its relation to the degree of meningioma's classification in Indonesia, especially in North Sumatera, have not yet been studied. This study used cross sectional analytic methods to measure serum FGF-2 levels in patients with intracranial meningioma and analyze of serum FGF-2 levels with WHO histopathology degree. The study was conducted at Haji Adam Malik General Hospital/Faculty of Medicine, Universitas Sumatera Utara, Medan from April 2013 until April 2014. Value of correlation between FGF-2 and histopathology was  $p=0,4$  ( $p> 0,05$ ). There was no significant association between FGF-2 levels and histopathologic forms of intracranial meningioma. The correlation between FGF-2 and WHO levels was  $p= 0.07$  ( $p>0.05$ ). There was no significant association between FGF-2 and WHO levels.

**Keywords :** Intracranial meningioma, *FGF-2*.