ABSTRACT

Risk of Meningioma associated with Exposure of Hormonal Contraception
(a Case Control Study)
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Background: Meningiomas as primary brain tumors are most often diagnosed, women at risk twice as likely to develop meningioma than men, it is related by a path hormonal which clinical and epidemiological not clear to explained, that the use of any hormone endogenous or exogenous can improve the incidence of meningioma.

Objective: To know the effect of hormonal contraceptive exposure to the occurrence of meningioma.

Methods: This study is a case-control study by collecting a group of cases that all patients with meningioma diagnosed histopathologically starting in 2012-2013 were treated in hospitals RSUD dr. Soetomo then analyzed medical record data, then compared to the control group of patients diagnosed with non-meningioma whose underwent contrast head ct scan and conducted direct interviews. Obtained 101 cases and 101 controls. The data was analysis used univariate logistic regression.

Results: Based on the history of hormonal contraceptive use variables, patients who have history of hormonal contraceptive use had 12.31 times greater risk (p = 0.000). In this study, contraceptive injections one month, and the use of contraceptive pills have a meningioma risk figure is smaller than the use of injectables 3 months. Patients who use hormonal contraception more than 10 years have an increased risk for meningioma occurs as much as 18.216 times (p = 0.000). Histopathologically found a non significant association between a history of hormonal contraceptive use on the distribution of histopathology but based on descriptive data showed the most histopathological meningioma were transitional type on cases group.

Conclusion: There is a significant relationship between hormonal contraceptive use, the type of injectable hormonal contraception 3 months, the duration of hormonal contraceptive use> 10 years, and non significant relationship between meningioma grade with history of hormonal contraception exposure.

Keywords: Meningioma, Hormonal Contraception