ABSTRACT

THE COMPARISON BETWEEN THE DIAMETER OF MENINGIOMA IN THE USE OF VARIOUS TYPES HORMONAL CONTRACEPTION

Background: Meningiomas is a benign tumors of the meninges and it represent 15% of all primary brain neoplasms. Although considered as benign and most of the time is operable, a retrospective study reported the morbidity and mortality after modern cranial meningioma surgery. The etiology of meningioma itself is still largely unknown, several theories have been made to explain the risk factors of this tumor, one of them is hormonal use. Several studies have also reported an association of exogenous hormones with meningioma

Purpose: This study would like to compare between meningioma sizes among various types of hormonal contraceptive use.

Method: This study is an observational analytic retrospective study, adopting a cross sectional strategy and used total sampling with a population of all patients with diagnosis of meningioma that had been treated within the RSUD Dr. Soetomo in January 2014 – August 2016.

Results: The total samples were 132 patients, 37 (28%) patients met the inclusions criteria and the other 95 (72%) patients didn’t met the inclusion criteria. The sex ratio is 6.8: 1. The mean size of meningioma according to CT scan reading among patients with history of oral contraception, hormonal injection, and hormonal IUD use subsequently are 5.56 cm (SD ±0.9); 5.7 cm (SD±1.7); and 6.6 cm (SD ± 0.9) while the mean size of meningioma according to MRI
Conclusion: The research findings revealed that there is no significant comparison between meningiomas size both based on MRI or CT scan with the use of various types hormonal contraceptive (p value > 0.05).

Keywords: meningioma, hormonal contraception, diameter size of meningioma.