

The Correlation Between Perinatal Asphyxia

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THE CORRELATION BETWEEN PERINATAL ASPHYXIA HISTORIES WITH HYPERACTIVITY

SCALA OF 4 TO 5 YEARS

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ABSTRACT

Asphyxia is childbirth disorder due to incapability of spontaneous breathing. It is caused by decreased oxygen perfusion to organs. Baby who has perinatal asphyxia history tends to suffer from long term complication indicated by development delay. Attention Deficit Hyperactivity Disorder (ADHD) or activity and attention disruption (hyperkinetic disorder) is a psychiatric disorder that disrupted the development of child, adolescence, and adult. The objective of the study was to find out the correlation between perinatal asphyxia history with emotional social development of child between he ages 4 to 5.

The design of the study was a retrospective cohort design involving 43 babies with asphyxia history and -43 babies without asphyxia history in Kulon Progo. The sampling of the study used simple random sampling. The emotional social development of child between the ages 4 to 5 from all groups was assessed using SIQ (Strength and Difficulties Questionnaire). The data analysis was carried out by using univariate test to obtain frequency of distribution, bivariate analysis with chi square test and multivariate analysis using logistic regression. The result of the study using univariate analysis showed that emotional social development of child between the ages 4 to 5 was 10 (11.6%) and 76 (88.4%) indicated result of abnormal and normal development. Bivariate analysis result revealed that there was no correlation between asphyxia history with emotional social development of child between the ages 4 to 5 ($p=0.737$; RR 1.581; CI 95% 0.413 to 6.055). Multivariate analysis result showed that asphyxia correlated with hyperactivity dimension towards child emotional social development after considering extraneous variables such as small for gestational age, mothers education level, and parents income (p value 0.00% RR 3.345 95% CI 1.346 to 8.312). There is no statistically significant correlation between perinatal asphyxia history and child hyperactivity after considering extraneous variables such as small for gestational age, mothers' education level, and parents' income. Child with perinatal asphyxia history is 3.345 times more risky to suffer from hyperactivity that happened between the ages 4 to 5.

Keywords: Asphyxia, Emotional Social Development, Strength And Difficulties Questionnaire

Maternal, Neonatal, and Child Health

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