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Comparison of Maternal Zinc Level in Term Pregnancy Associated with Premature Rupture of Membranes in Normal Pregnancy

Abstract

The purpose of this study was to determine maternal zinc levels, whether there is any difference between term pregnancy associated with premature rupture of membranes and normal pregnancy. This was an analytic observational study using comparative, cross sectional design. Sample comprised 40 mothers with term pregnancy and vaginal birth at Dr. Soetomo Hospital, consisting of 20 term pregnancy with premature rupture of membranes (PROM) and 20 term pregnancy without complications. We used venous blood specimens, colostrum and head hair. Specimens were prepared to be homogeneous solution for analysis. Levels of zinc in the specimen were determined using Atomic absorption Spectrophotometry. Blood zinc levels in term pregnancy with PROM (4.33 ± 1.21 ppm) were significantly lower than in term normal pregnancy (5.20 ± 1.33 ppm), with p = 0.036. Zinc content of colostrum (5.86 ± 3.51 ppm vs 6.95 ± 3.77 ppm) and head hair (254.85 ± 167.45 ppm vs. 348.78 ± 228.17 ppm) was not significantly different from the second group (p> 0.05). In conclusion, blood zinc levels in term pregnancy with PROM was lower than that in normal pregnancy. Hair zinc concentration of colostrum and the head did not differ between the two groups.

Keyword : maternal, zinc, status, premature, rupture, of, membranes, (PROM), term, pregnancy.

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