

عنوان مقاله:

Investigating the Association of Cord Blood Resistin and Birth Weight in Term and Preterm Neonates

محل انتشار:

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خلاصه مقاله:

Background Resistin is reported as an antagonistic hormone of insulin and in the literature. Nowadays, importance of resistin is being more highlighted in the metabolism of mother and fetus during pregnancy. This study aimed to assess the level of resistin in the umbilical cord and blood sugar at birth and evaluate the association of resistin and neonatal birth weight. Materials and Methods This case-control study included 80 term and 80 preterm neonates. 5ml blood sample for measurement of resistin and glucose was obtained from cord blood. Neonatal birth weight was measured by standard method. Association of resistin and neonatal birth weight was evaluated. Results Cord blood resistin was 27.1 ± 32.2 and 21.9 ± 9.8 ng/ml in preterm and term neonates, respectively. There was not a significant differences between Resistin and birth weight ($P > 0.05$). Blood sugar was 78.1 ± 23.6 and 79.5 ± 19.8 mg/dl in preterm and term neonates, respectively. Cord blood Resistin and blood sugar did not differ in term and preterm neonates ($P = 0.158$ and $P = 0.165$, respectively). Conclusion The present study did not reveal any significant differences in resistin level between the term and preterm neonates. Blood glucose was nearly the same in both groups, and resistin did not show any significant correlation with birth weight.

کلمات کلیدی:

Birth weight, Preterm newborn, Resistin, Term newborn, Umbilical cord blood

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