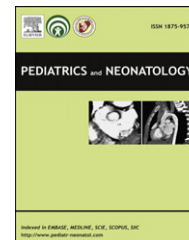




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ORIGINAL ARTICLE

Effect of Prenatal Selenium Supplementation on Cord Blood Selenium and Lipid Profile

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Received Apr 14, 2011; received in revised form Mar 5, 2012; accepted Mar 15, 2012

Key Words

antioxidant;
 cord blood;
 lipid profile;
 newborn;
 selenium

Background: Selenium is an essential trace element and as a component of selenoproteins it plays a key role as an antioxidant. We aimed to evaluate the effect of selenium supplementation during pregnancy on cord blood selenium content and lipid profile.

Methods: This trial was performed on 166 eligible women who were randomized to receive 100 µg of selenium, as selenium-yeast (Se group) or a placebo-yeast tablet (placebo group). Umbilical cord blood samples were collected at the time of delivery and selenium concentration and lipid profile were measured.

Results: Triglyceride levels were found to be significantly higher in the Se group than in the placebo group ($p = 0.01$). However, no significant difference in cord blood selenium was observed between the groups nor were there any significant correlations between cord blood selenium and lipid profile parameters.

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<http://dx.doi.org/10.1016/j.pedneo.2012.08.008>

Please cite this article in press as: Boskabadi H, et al., Effect of Prenatal Selenium Supplementation on Cord Blood Selenium and Lipid Profile, Pediatrics and Neonatology (2012), <http://dx.doi.org/10.1016/j.pedneo.2012.08.008>