

## Korelasi kadar selenium dengan kadar hemoglobin bayi usia 8-10 bulan di Jakarta Pusat = Correlation between selenium levels and haemoglobin levels on 8 to 10 months old infants in Central Jakarta

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### Abstrak

#### <b>ABSTRAK</b><br><br>

Latar Belakang: Selenium secara tidak langsung dapat berpengaruh pada kadar hemoglobin melalui fungsi proteksinya, namun tidak diketahui efeknya secara langsung pada bayi. Tujuan: Penelitian ini bertujuan mengetahui korelasi Kadar Selenium dengan Kadar Hemoglobin Bayi Usia 8-10 Bulan di Jakarta Pusat. Metode: Penelitian ini menggunakan desain cross-sectional yang dilakukan pada 75 sampel sesuai dengan kriteria penelitian. Kadar selenium dalam serum diukur dengan metode LC-MS/MS Liquid Chromatography ndash; Tandem Mass Spectrometry dan kadar hemoglobin diukur menggunakan HemoCue Hemoglobin system yang dilakukan oleh tenaga terlatih. Data penelitian dianalisis menggunakan uji Kolmogorov-Smirnov dan uji korelasi Pearson korelasi bermakna jika diperoleh  $p < 0,05$ . Kesimpulan: Dapat disimpulkan tidak terdapat korelasi bermakna antara kadar selenium dengan kadar hemoglobin bayi 8-10 bulan di Jakarta Pusat.

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#### <b>ABSTRACT</b><br><br>

Background Selenium can indirectly influence haemoglobin levels by its protective function, but its effect is unknown on infants. Objective This study is aimed to observe the correlation between selenium levels and haemoglobin levels on 8 to 10 months old infants in Central Jakarta. Method This study applies the crosssectional design which was conducted on 75 samples based on study criteria. Selenium levels were measured by LC MS MS Liquid Chromatography ndash Tandem Mass Spectrometry method and haemoglobin levels were assessed using HemoCue Hemoglobin system by trained personnel. The data was analyzed with KolmogorovSmirnov test and Spearman correlation test significant correlation if  $p < 0.05$  . Discussion In conclusion, there was no significant correlation between selenium levels and haemoglobin levels on 8 to 10months old infants in Central Jakarta. p 0.53.