

## Hubungan kadar zat besi dengan berat badan pada bayi usia 8-10 bulan di Jakarta Pusat = Relation between the level of iron and body weight in infant aged 8-10 months in Central Jakarta

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### Abstrak

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

Zat besi dapat mempengaruhi berat badan dan perkembangan bayi. Tujuan: Penelitian ini bertujuan untuk mengetahui hubungan antara kadar zat besi dengan berat badan pada bayi usia 8-10 bulan di Jakarta Pusat. Metode: Studi cross-sectional digunakan pada 75 bayi yang memenuhi kriteria penelitian. Kadar zat besi diukur menggunakan metode LC-MS/MS Liquid Chromatography ndash; Tandem Mass Spectrometry , sedangkan berat badan menggunakan penilaian klinis oleh tenaga terlatih dengan timbangan badan elektronik dengan akurasi 10g. Data dianalisis normalitasnya dengan uji Kolmogorov-Smirnov dan korelasinya dengan uji Spearman. Hasil: Hasil menunjukkan tidak terdapat korelasi bermakna antara kadar zat besi dan berat badan bayi 8-10 bulan di Jakarta Pusat  $p=0,483$  . Diskusi: Disimpulkan bahwa hubungan antara kadar zat besi dengan berat badan pada bayi usia 8-10 bulan di Jakarta Pusat bernilai positif, namun secara statistik tidak bermakna.

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

Iron can affect the body weight of infants and their development. Objective This research is intended to analyze the correlation between level of iron and body weight in infant aged 8 10 months in Central Jakarta. Method A cross sectional study was conducted in 75 infants that fulfills the criteria for this research. The level of iron was measured by using LC MS MS Liquid Chromatography ndash Tandem Mass Spectrometry method, while the body weight was measured by a trained clinician with an electronic scale. The scale has an accuracy of 10 g. Afterwards the data was analyzed for normality by using Kolmogorov Smirnov test and tested for correlation through Spearman test. Result There is no significant correlation between level of iron and body weight of infants aged 8 10 months in Central Jakarta  $p 0.483$  . Discussion In conclusion, there is a positive relationship between the level of iron and body weight in infant aged 8 10 months in Central Jakarta, however there is no significant relationship.