

## Korelasi kadar vitamin D dengan panjang badan bayi usia 8-10 Bulan di Jakarta Pusat = Correlation between vitamin D levels and body length on 8 to 10 months old infants in Central Jakarta

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### Abstrak

Vitamin D dapat mempengaruhi pertumbuhan tulang. Penelitian ini bertujuan untuk mengetahui korelasi kadar vitamin D dengan panjang badan bayi di Jakarta Pusat. Studi *cross-sectional* dilakukan terhadap 75 subjek yang memenuhi kriteria penelitian. Kadar vitamin D dalam serum diukur dengan metode CLIA (*Chemiluminescence Immunoassay*), dan panjang badan bayi diukur dengan teknik terstandarisasi dengan ketelitian 1mm oleh tenaga terlatih. Data dianalisis dengan uji Kolmogorov-Smirnov dan uji korelasi Pearson (korelasi bermakna jika  $p < 0,05$ ). Hasil penelitian menunjukkan bahwa mayoritas subjek penelitian (80%) tidak memiliki asupan vitamin D yang cukup. Nilai tengah kadar vitamin D bayi berusia 8-10 bulan di Jakarta Pusat sebesar 26,4 ng/dL, sedangkan nilai tengah panjang badan bayi 70,63 cm. Hasil penelitian menunjukkan tidak terdapat korelasi bermakna antara kadar vitamin D dengan panjang badan bayi 8-10 bulan di Jakarta Pusat ( $p=0,563$ ).

Vitamin D can influence bone growth. This study aims to determine the correlation between vitamin D levels and body length on 8 to 10 months old infants in Central Jakarta. Cross-sectional study was conducted on 75 infants which met the criteria. Serum vitamin D levels were measured with CLIA (*Chemiluminescence Immunoassay*), while body length was measured by anthropometric standardized technique by trained personnel. The data was analyzed with Kolmogorov-Smirnov test and Pearson test (significant correlation if  $p < 0,05$ ). The result shows that the majority of subjects (80%) do not have adequate vitamin D intake. The median value of vitamin D levels on 8 to 10 months old infants in Central Jakarta is 26.4 ng/dL, while the median value of body length is 70.63 cm. The result shows that there are no significant correlation between vitamin D levels and body length on 8 to 10 months old infants in Central Jakarta ( $p=0,563$ ).