

**HUBUNGAN KADAR C-REACTIVE PROTEIN METODE FIA hs-CRP  
DENGAN KADAR KOLESTEROL TOTAL PADA PENDERITA  
HIPERKOLESTEROLEMIA**

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**ABSTRAK**

*C-Reactive Protein* (CRP) merupakan protein yang meningkat pada kondisi inflamasi. Sedangkan pada hiperkolesterolemia bisa menyebabkan aterosklerosis yang dapat menyebabkan inflamasi. Hiperkolesterolemia adalah kondisi dimana kadar kolesterol darah meningkat melebihi nilai normal, yaitu  $\geq 200$  mg/dL. Penelitian ini bertujuan untuk mengetahui hubungan kadar *C-Reactive Protein* (CRP) metode FIA hs-CRP dengan kadar kolesterol total pada penderita hiperkolesterolemia. Penelitian dilakukan pada 30 pasien dengan kadar kolesterol total tinggi. Jenis penelitian ini adalah penelitian kuantitatif dengan studi korelasi yang dilakukan pada bulan Mei 2024 di RSUD Al-Ihsan Baleendah Kabupaten Bandung. Selanjutnya dilakukan pemeriksaan kadar CRP menggunakan alat I-Chroma. Hasil data diolah menggunakan uji normalitas dan uji korelasi. Hasil penelitian pasien hiperkolesterolemia diperoleh kadar CRP yang meningkat adalah sebanyak 18 orang (60%) dan kadar CRP yang normal adalah sebanyak 12 orang (40%). Dilanjutkan dengan Uji Korelasi Spearman, disimpulkan bahwa antara kadar CRP dengan kadar kolesterol total  $\geq 200$  mg/dL terdapat hubungan yang signifikan dengan nilai  $p = <0.001$  dengan tingkat kekuatan korelasi yang kuat dengan nilai  $r = 0.639$ .

**Kata Kunci: C-Reactive Protein, Kolesterol Total, Hiperkolesterolemia**

***CORRELATION OF C-REACTIVE PROTEIN LEVELS FIA hs-CRP  
METHOD WITH TOTAL CHOLESTEROL LEVELS IN PATIENTS OF  
HYPERCHOLESTEROLEMIA***

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**ABSTRACT**

*C-Reactive Protein (CRP) is a protein that increases in inflammatory conditions. Meanwhile, hypercholesterolemia can cause atherosclerosis which can cause inflammation. Hypercholesterolemia is a condition where blood cholesterol levels increase beyond normal values, which is  $\geq 200$  mg/dL. This study aims to determine the relationship of C-Reactive Protein levels hs-CRP FIA method with total cholesterol levels in patients with hypercholesterolemia. The study was conducted on 30 patients with high total cholesterol levels. This type of research is a quantitative research with a correlation study, conducted in May 2024 at Al-Ihsan Baleendah Hospital, Bandung Regency. Furthermore, CRP levels were analyzed using the I-Chroma. The data results processed using normality test and correlation test. The results showed that hypercholesterolemia patients obtained high CRP levels were 18 people (60%) and normal CRP levels were 12 people (40%). Followed by the Spearman Correlation Test, which can be concluded that between CRP levels and total cholesterol levels  $\geq 200$  mg/dL there is a significant relationship with a  $p$  value =  $<0.001$  with a strong correlation strength level with a value of  $r = 0.639$ .*

***Keywords: C-Reactive Protein, Total Cholesterol, Hypercholesterolemia***