HDL Cholesterol Concentration Measured Using Cholestest N HDL and HDL-C Plus 3rd Generation Reagents

Abstrak:

The using of the open reagent system tools gives the possibility to choose the best quality of reagents including the reagent for HDL cholesterol concentration test. Hitachi 902 (Roche) as an open reagent system tool may use Cholestest N HDL (Daichi) as the first HDL reagent and HDL-C plus 3rd generation reagent (Roche). The aim of this study was to know the correlation of HDL cholesterol concentrations using Cholestest N HDL and HDL-C plus 3rd generation reagents measured by Hitachi 902. A cross sectional study was done from April to June 2008 at Ratulangi Medical Centre Laboratory, Makassar. The HDL cholesterol concentration was measured by Hitachi 902 using Cholestest N HDL and HDL-C plus 3rd generation reagents. Sample was analyzed with SPSS 14 for Windows Program using T test and Pearson Correlation. Among 80 samples we found the mean HDL concentration using Daichi reagent was 46.19 mg/dl ranging from 34.99 mg/dl to 57.39 mg/dl and the mean using Roche 3rd reagent was 48.35 mg/dl ranging from 35.18 mg/dl to 61.52 mg/dl, with p = 0.098 and Pearson Correlation was r = 0.967 with p = 0.000. There was no difference between HDL concentration detected by Cholestest N HDL and HDL-C plus 3rd generation reagents.

Keyword:

HDL cholesterol concentration, Cholestest N HDL reagent, HDL-C plus 3rd generation reagent, Hitachi 902