

## INTISARI

Puspita, Rumeyda Chitra. 2014. *Perbedaan Hasil Pemeriksaan Kadar Kolesterol Total Metode Cholesterol Oxidase Phenol Aminoantipyrin (CHOD-PAP) dan Metode Strip test*. Program D-IV Analis Kesehatan, Fakultas Ilmu Kesehatan Universitas Setia Budi. Pembimbing Utama : dr. M.I Diah Pramudianti Sp.PK(K)., M.Sc. Pembimbing Pendamping : dr. Ratna Herawati.

Kolesterol total merupakan pemeriksaan yang menentukan jumlah kolesterol dalam darah termasuk semua partikel lipoprotein tubuh. Metode CHOD-PAP dengan serum darah vena dan metode *strip test* dengan darah kapiler menjadi metode yang sering digunakan dalam pemeriksaan kolesterol total. Perbedaan jenis sampel, metode, dan alat pemeriksaan serta adanya *quality control* (QC) dapat mempengaruhi tingkat akurasi hasil pemeriksaan. Penelitian ini bertujuan untuk mengetahui ada tidaknya perbedaan hasil pemeriksaan kadar kolesterol total metode CHOD-PAP dengan metode *strip test*.

Jenis penelitian *analitik observasional* dengan pendekatan *cross sectional* dan teknik pengumpulan sampel menggunakan *simple random sampling* sebanyak 30 sampel. Didapat data primer hasil pemeriksaan laboratorium dengan metode CHOD-PAP dan hasil pemeriksaan *point of care test* (POCT) metode *strip test*, kemudian dilakukan uji normalitas pada kadar kolesterol total dengan *Kolmogorov Smirnov* dan dilanjutkan dengan uji statistik menggunakan *Independent Sample t-test* perhitungan dengan SPSS 17.0.

Pengukuran kadar kolesterol dengan metode *strip test* memiliki rerata hasil yang lebih tinggi yaitu 221,13 mg/dL dibandingkan dengan hasil pengukuran metode CHOD-PAP yaitu 177,93 mg/dL.

Kesimpulan penelitian ini dari perhitungan statistik didapat nilai  $t_{hitung}$  sebesar  $-5,633 < t_{tabel} (2,000)$  dengan  $p < 0,05$ . Probabilitas  $0,000 < 0,05$  maka  $H_0$  ditolak dan  $H_1$  diterima. Artinya terdapat perbedaan yang bermakna hasil pemeriksaan kadar kolesterol total metode *Cholesterol Oxidase Phenol Aminoantipyrin* (CHOD-PAP) dan metode *strip test*.

**Kata kunci:** Kolesterol total, chod-pap, *strip test*, darah vena, darah kapiler

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## ABSTRACT

Puspita, Rumeysa Chitra. 2014. The Difference of Total Cholesterol Level Examination using Cholesterol Oxidase Phenol Aminoantipyrin (CHOD-PAP) Method and Strip Test Method. D-IV Program Health Analysis, Medical Science Faculty, Setia Budi University of Surakarta. Primary Guiding Lecturer: dr. MI. Diah Pramudianti, Sp.PK(K), M.Sc, Co-Guiding Lecturer: dr. Ratna Herawati.

Total cholesterol is an examination to determine the level of cholesterol contained in blood including all lipoprotein particles in body. CHOD-PAP method using venous blood serum and strip test method using capillary blood become the methods frequently used in total cholesterol examination. The difference of sample types, method and examination instruments and also quality control (QC) can influence the level of examination results accuracy. This study is aimed to know whether the difference is existed on total cholesterol level examination results using CHOD-PAP method and strip test method.

Type of this study was analytic observational using cross sectional approach and simple random sampling technique of 30 samples. There obtained primary data of CHOD-PAP method laboratory examination results and POCT examination results using strip test method, and then there conducted normality test on the total cholesterol level using Kolmogorov Smirnov and continued with statistic test using t-test independent sample in SPSS 17.0.

The measurement of cholesterol level using strip test method obtaining higher result average that was of 221.13 mg/dL compared with the results using CHOD-PAP method, that was of 177.93 mg/dL.

The conclusion of this study from the statistic test obtaining  $t_{count}$  of  $-5.633 < t_{table}$  (2.000) with  $p < 0.05$ . With the probability of  $0.000 < 0.05$ , then  $H_0$  is rejected and  $H_1$  is accepted. It means that there is significant difference on the results of total cholesterol level examination using method Cholesterol Oxidase Phenol Aminoantipyrin (CHOD-PAP) and strip test method.

**Keywords:** Total cholesterol, CHOD-PAP, strip test, venous blood, capillary blood

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