

PERBANDINGAN KADAR TRIGLISERIDA MENGGUNAKAN SAMPEL SERUM, PLASMA EDTA DA PLASMA HEPARIN

Setyandharni.E¹, Anggraini.H², Rosreri³

1. Program Studi D IV Analis Kesehatan Fakultas Ilmu Keperawatan dan Kesehatan Universitas Muhammadiyah Semarang.
2. Laboratorium Patologi Klinik Fakultas Ilmu Keperawatan dan Kesehatan Universitas Muhammadiyah Semarang.
3. Instalasi Laboratorium Patologi Klinik RSUD KRMT Wongsonegoro Semarang

ABSTRAK

Penetapan profil lipid dilakukan dengan serum, tetapi dapat juga menggunakan plasma EDTA atau plasma heparin. Serum maupun plasma harus segera dipisahkan dari sel-sel darah dan jika tidak segera diperiksa harus disimpan dalam lemari es supaya distribusi lipid tidak berubah dan enzim-enzim tidak sempat mengubah proporsi lipoprotein. Permasalahan yang terjadi volume serum tidak mencukupi atau bersamaan pemeriksaan lain yang menggunakan plasma sehingga pemeriksaan dilakukan menggunakan plasma EDTA atau plasma heparin. Tujuan penelitian untuk mengetahui perbandingan kadar trigliserida menggunakan sampel serum, plasma EDTA, dan plasma heparin. Jenis penelitian analitik dengan pendekatan cross sectional. Sampel penelitian sejumlah 31 dengan bahan serum, plasma EDTA, dan plasma heparin diperiksa kadar trigliseridanya. Hasil penelitian diperoleh kadar trigliserida serum antara 48-265 mg/dl, rerata 134,74 mg/dl, plasma EDTA 43 -238 mg/dl, rerata 121,90 mg/dl, plasma heparin 44-264 mg/dl, rerata 122,39 mg/dl, Hasil uji ANOVA diperoleh $p > 0,05$ (0,524) yang berarti tidak terdapat perbedaan bermakna pada kadar trigliserida sampel serum, plasma EDTA, dan plasma heparin.

Kata kunci : trigliserida, serum, plasma, EDTA, heparin

THE COMPARISON OF TRIGLISERIDA LEVEL USING SAMPLE SERUM, EDTA PLASMA AND HEPARIN PLASMA

Setyandharni.E¹, Anggraini.H², Rosreri³

1. Study Program of D IV Health Analyst Faculty of Nursing and Health Sciences University of Muhammadiyah Semarang.
2. Laboratory of Clinical Pathology Faculty of Nursing and Health Sciences University of Muhammadiyah Semarang.
3. Clinical Pathology Laboratory Installation of RSUD KRMT Wongsonegoro Semarang

ABSTRACT

Determination of lipid profile is done by serum, but can also use the EDTA plasma or heparin plasma. Serum and plasma should be immediately separated from the blood cells and if not checked immediately should be stored in the refrigerator so that lipid distribution does not change and the enzymes do not have time to change the lipoproteins proportion. The problem that occur was serum volume was inadequate or at the same time another examination that use plasma so that the examination was done using EDTA plasma or heparin plasma. The research goal is to know the ratio of triglyceride level using serum samples, EDTA plasma, and heparin plasma. The research type is analytic with cross sectional approach. The research sample of 31 samples with serum, plasma EDTA, and heparin plasma material were examined its triglyceride level. The research result was obtained that serum triglyceride level was between 48-265 mg / dl, average was 134,74 mg / dl, EDTA plasma was 43 -238 mg / dl, average was 121,90 mg / dl, heparin plasma was 44-264 mg / dl, average was 122 , 39 mg / dl, ANOVA test result was obtained $p > 0,05$ (0,524) which means there was no significant difference in triglyceride level of serum sample, EDTA plasma, and heparin plasma.

Keywords: triglyceride, serum, plasma, EDTA, heparin