

**POLITEKNIK KESEHATAN TANJUNGPINANG
JURUSAN TEKNOLOGI LABORATORIUM MEDIS
PROGRAM STUDI TEKNOLOGI LABORATORIUM MEDIS
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Skripsi, Juni 2025

Putri Aprilia Salsabila

Hubungan Kadar FT4 dan TSHs terhadap Kadar Triglisierida pada Pasien Hipertiroid

XVI + 35 Halaman, 9 Tabel, 8 Gambar, 14 Lampiran

ABSTRAK

Hipertiroidisme adalah gangguan endokrin yang ditandai oleh peningkatan kadar hormon tiroid dalam darah, yang mempengaruhi berbagai sistem tubuh termasuk metabolisme lipid. Penurunan kadar TSH dan peningkatan FT4 sering dijumpai pada pasien hipertiroid. Kondisi ini diduga dapat menyebabkan perubahan kadar triglisierida dalam darah. Penelitian ini bertujuan untuk mengetahui hubungan kadar *Free Thyroxine* (FT4) dan *Thyroid Stimulating Hormone-sensitive* (TSHs) terhadap kadar triglisierida pada pasien hipertiroid. Metode penelitian yang digunakan dalam penelitian ini merupakan studi kuantitatif analitik dengan desain *cross-sectional*. Sampel sebanyak 30 pasien hipertiroid diambil secara *purposive sampling* berdasarkan kriteria inklusi dan eksklusi. Data primer diperoleh melalui pemeriksaan kadar triglisierida, dan data sekunder dari rekam medis mengenai kadar FT4 dan TSHs. Hasil penelitian menunjukkan bahwa rerata kadar FT4 sebesar $2,36 \pm 1,35$ ng/dL, TSHs sebesar $0,58 \pm 0,65$ uIU/mL, dan triglisierida sebesar $84,67 \pm 25,15$ mg/dL. Hasil penelitian ini diolah dengan uji korelasi *Spearman* menunjukkan tidak terdapat hubungan yang signifikan antara kadar FT4 dengan kadar triglisierida ($p = 0,3240$; $r = 0,1864$) maupun antara TSHs dengan triglisierida ($p = 0,9181$; $r = -0,0196$) pada pasien hipertiroid.

Kata Kunci : FT4, Hipertiroid, Profil lipid, Triglisierida, TSHs.

Daftar Bacaan : 23 (2001-2024)

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Thesis, June 2025

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Correlation Between Free Thyroxine (FT4) and Thyroid-Stimulating Hormone (TSHs) Levels with Triglyceride Concentration in Patients with Hyperthyroidism

XVI + 35 Pages, 9 Tables, 8 Pictures, 14 Attachment

ABSTRACT

Hyperthyroidism is an endocrine disorder characterized by elevated levels of thyroid hormones in the blood, which affect various body systems, including lipid metabolism. Decreased TSH levels and increased FT4 levels are commonly found in hyperthyroid patients. This condition is suspected to cause changes in blood triglyceride levels. This study aims to determine the relationship between Free Thyroxine (FT4) and Thyroid Stimulating Hormone-sensitive (TSHs) levels and triglyceride levels in hyperthyroid patients. The method used is a quantitative analytic study with a cross-sectional design. A total of 30 hyperthyroid patients were selected through purposive sampling based on inclusion and exclusion criteria. Primary data were obtained through triglyceride level examinations, while secondary data were retrieved from medical records regarding FT4 and TSHs levels. The results showed that the mean FT4 level was 2.36 ± 1.35 ng/dL, TSHs was 0.58 ± 0.65 uIU/mL, and triglycerides were 84.67 ± 25.15 mg/dL. The data were analyzed using the Spearman correlation test, which indicated no significant relationship between FT4 levels and triglyceride levels ($p = 0.3240$; $r = 0.1864$), nor between TSHs and triglyceride levels ($p = 0.9181$; $r = -0.0196$) in hyperthyroid patients.

Keywords : FT4, Hyperthyroidism, Lipid Profile, Triglyceride, TSHs.

Reading List : 23 (2001-2024)