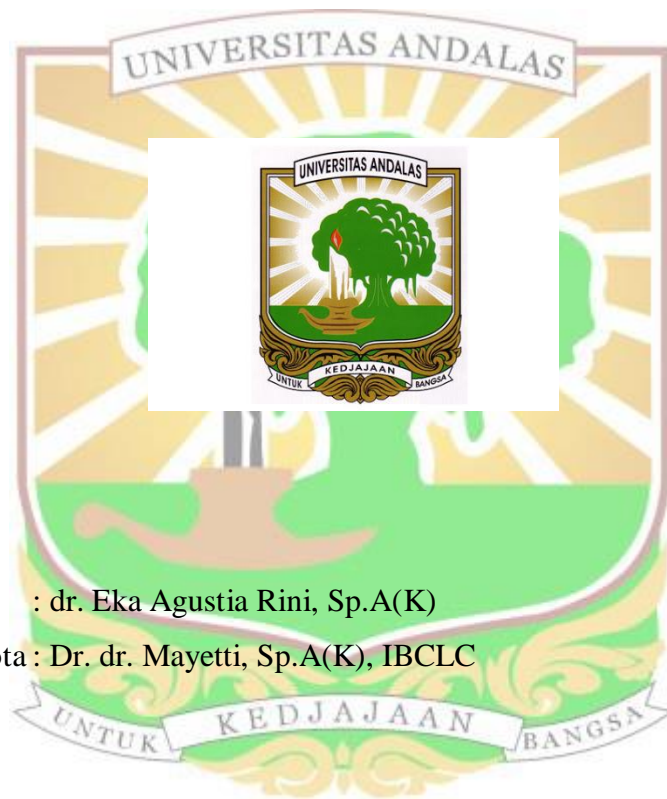


**KORELASI KADAR FREE TRIODOTHYRONINE (FT3) DENGAN SKOR PELOD-
2 DAN LAMA RAWATAN PICU PADA ANAK SAKIT KRITIS**

TESIS

MOHD LUTHFI B

NIM. 1850304214



Pembimbing Ketua : dr. Eka Agustia Rini, Sp.A(K)

Pembimbing Anggota : Dr. dr. Mayetti, Sp.A(K), IBCLC

PROGRAM STUDI KESEHATAN ANAK PROGRAM SPESIALIS

FAKULTAS KEDOKTERAN UNIVERSITAS ANDALAS

RSUP DR. M. DJAMIL PADANG

2023

ABSTRAK

KORELASI KADAR *FREE TRIIODOTHYRONINE* (FT3) DENGAN SKOR PELOD-2 DAN LAMA RAWATAN PICU PADA ANAK SAKIT KRITIS

Mohd Luthfi B, Eka Agustia Rini, Mayetti

Program Studi Kesehatan Anak Program Spesialis, Fakultas Kedokteran, Universitas Andalas
Dr. M. Djamil Padang Hospital

Pendahuluan : Saat sakit kritis sering ditemukan penurunan kadar FT3. FT3 memiliki peran yang penting dalam kontrol metabolisme saat sakit kritis. Penurunannya berkaitan dengan derajat beratnya penyakit yang dapat dinilai dengan skor PELOD-2.

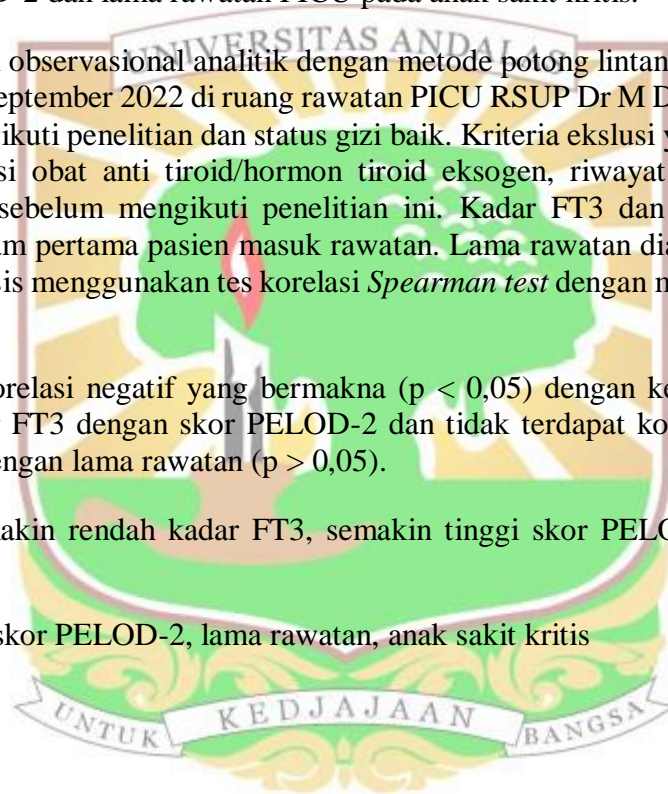
Tujuan : Penelitian ini bertujuan untuk mengetahui korelasi kadar *free triiodothyronin* (FT3) dengan skor PELOD-2 dan lama rawatan PICU pada anak sakit kritis.

Metode : Penelitian observasional analitik dengan metode potong lintang yang dilakukan dari bulan Juni hingga September 2022 di ruang rawatan PICU RSUP Dr M Djamil. Kriteria inklusi yaitu bersedia mengikuti penelitian dan status gizi baik. Kriteria eksklusi yaitu riwayat penyakit tiroid/mengonsumsi obat anti tiroid/hormon tiroid eksogen, riwayat penyakit kronis dan *Down's syndrome* sebelum mengikuti penelitian ini. Kadar FT3 dan nilai skor PELOD-2 diambil dalam 48 jam pertama pasien masuk rawatan. Lama rawatan diambil dari data rekam medis. Data dianalisis menggunakan tes korelasi *Spearman test* dengan menggunakan program SPSS.

Hasil : Terdapat korelasi negatif yang bermakna ($p < 0,05$) dengan kekuatan sedang ($r = -0,567$) antara kadar FT3 dengan skor PELOD-2 dan tidak terdapat korelasi yang bermakna antara kadar FT3 dengan lama rawatan ($p > 0,05$).

Kesimpulan : Semakin rendah kadar FT3, semakin tinggi skor PELOD-2 pada anak sakit kritis.

Kata kunci : FT3, skor PELOD-2, lama rawatan, anak sakit kritis



ABSTRACT

CORRELATION BETWEEN *FREE TRIIODOTHYRONINE* (FT3) WITH PELOD-2 SCORE AND PICU LENGTH OF STAY IN CRITICALLY ILL PEDIATRIC

Mohd Luthfi B, Eka Agustia Rini, Mayetti
Department of Pediatrics, Faculty of Medicine, Universitas Andalas
Dr. M. Djamil Padang Hospital

Background : During critically ill, thyroid function disorders are often found in the form of decreased FT3 levels. FT3 has an important role in metabolic control during critical illness. The decrease is related to the degree of severity of the disease.

Objective : This study aim to evaluate correlation between *free triiodothyronine* (FT3) with PELOD-2 score and PICU length of stay in critically ill pediatric

Methods : Cross-sectional study was carried out between June until September 2022 in PICU of Dr M Djamil hospital. Inclusion criteria were accepted informed consent and wellnourished. Exclusion criteria were history of thyroid disease, consuming exogenous/thyroid hormone/anti-thyroid drugs, history of chronic disease and Down's syndrome. FT3 levels and PELOD-2 scores were measured within the first 48 hours of admission. Length of stay was taken from medical record data. Data were analyzed using the Spearman correlation test using the SPSS program.

Result : There was a significant negative correlation ($p = 0,003$) between FT3 levels and PELOD-2 scores with moderate value ($r = -0.567$) and there was no significant correlation between FT3 levels and PICU length of stay.

Conclusion : The lower FT3 level measured, the higher PELOD-2 score found in critically ill children.

Keyword : FT3, PELOD-2 score, length of stay, critically ill pediatric

