

## ABSTRAK

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KADAR TRIGLISERIDA DENGAN WAKTU TUNDA INKUBASI SELAMA 15 MENIT, 30 MENIT DAN 45 MENIT DENGAN METODE KOLORIMETRIK ENZIMATIK ENDPOINT

xv + 41 Halaman + 10 Tabel + 10 Lampiran

Kadar trigliserida dalam darah merupakan parameter penting untuk menilai risiko penyakit kardiovaskular. Metode kolorimetrik enzimatik endpoint menjadi metode pilihan dalam pemeriksaan ini karena keakuratan dan sensitivitasnya. Satu di antara penentu hasil pemeriksaan ialah waktu inkubasi, yaitu lama waktu antara pencampuran reagen dan sampel hingga pembacaan hasil. Penelitian ini bermaksud meninjau perbedaan kadar trigliserida dengan waktu tunda inkubasi 15 menit, 30 menit, dan 45 menit memanfaatkan metode kolorimetrik enzimatik endpoint.

Penelitian ini tergolong kuantitatif berbasis quasi eksperimen. Jumlah responden sebanyak 60 orang yang dipilih secara acak dari pasien di Puskesmas Demangan Kota Madiun. Pemeriksaan kadar trigliserida dilakukan dengan fotometer Glory 127 dan reagen Labiosis. Analisis data memanfaatkan uji Kruskal-Wallis sebab distribusi data tidak normal.

Hasil penelitian menunjukkan nilai rerata kadar trigliserida inkubasi 15 menit sebesar 155 mg/dL, inkubasi 30 menit sebesar 153 mg/dL, dan inkubasi 45 menit sebesar 148 mg/dL. Pengujian Kruskal-Wallis menghasilkan nilai signifikansi 0,670 ( $>0,05$ ) yang tidak memperlihatkan perbedaan bermakna kadar trigliserida dengan waktu tunda inkubasi 15 menit, 30 menit dan 45 menit. Disimpulkan jika variasi waktu inkubasi hingga 45 menit tidak berpengaruh signifikan terhadap hasil pemeriksaan kadar trigliserida. Hasil ini diharapkan dapat menjadi acuan bagi laboratorium klinik untuk memberikan fleksibilitas waktu inkubasi tanpa mengurangi akurasi hasil pemeriksaan trigliserida.

Kata kunci: Triglierida, Waktu Inkubasi, Metode Kolorimetrik Enzimatik, Endpoint  
Referensi: 13 buku (2015 – 2020)

## ABSTRACT

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*TRIGLYCERIDE LEVELS WITH INCUBATION DELAYS OF 15 MINUTES, 30 MINUTES AND 45 MINUTES USING THE COLORIMETRIC ENZYMETIC ENDPOINT METHOD*

xv + 41 Pages + 10 Tables + 10 Appendices

*Triglyceride levels in the blood are an important parameter for assessing the risk of cardiovascular disease. The colorimetric enzymatic endpoint method is commonly used in clinical laboratories due to its accuracy and sensitivity. One factor that may influence test results is the incubation time, which refers to the duration between mixing the reagent with the sample and the final measurement. This study aims to determine whether different incubation delays—15, 30, and 45 minutes—affect triglyceride levels using the colorimetric enzymatic endpoint method.*

*This research is classified as quantitative study based on a quasi-experimental design. A total of 60 respondents were randomly selected from patients at Demangan Public Health Center in Madiun City. Triglyceride levels were analyzed using the Glory 127 photometer and Labiosis reagents. Data were analyzed using the Kruskal-Wallis test due to the non-normal distribution of the results.*

*The results showed that the average value of triglyceride levels for 15 minutes of incubation was 155 mg/dL, 30 minutes of incubation was 153 mg/dL, and 45 minutes of incubation was 148 mg/dL. The Kruskal-Wallis test showed a significance value of 0.670 ( $>0.05$ ) which means that there was no significant difference in triglyceride levels with an incubation delay time of 15 minutes, 30 minutes and 45 minutes. This shows that variations in incubation time up to 45 minutes do not have a significant effect on the results of triglyceride level examinations. These findings may serve as a reference for clinical laboratories, providing flexibility in incubation timing without compromising the reliability of triglyceride measurements.*

*Keywords: Triglyceride, Incubation Time, Colorimetric Enzymatic Method, Endpoint*

*References: 13 books (2015 – 2020)*