INTISARI

Sriyani Naningsih Tangahu, 2023. Pengaruh Waktu Penyimpanan dan Variasi Suhu Bahan Kontrol terhadap Pemantapan Mutu Internal Pemeriksaan SGPT di Laboratorium RSUD Pandan Arang Boyolali. **Program Studi D4 Analis Kesehatan, Fakultas Ilmu Kesehatan, Universitas Setia Budi.**

Bahan kontrol sangat penting untuk menilai kinerja laboratorium. Pemeriksaan laboratorium yang memakai bahan kontrol serum antara lain pemeriksaan *serum glutamic pyruvic transaminase* (SGPT). Tujuan penelitian ini untuk mengetahui pengaruh waktu penyimpanan dan variasi suhu bahan kontrol yang akan digunakan untuk pemantapan mutu internal di laboratorium RSUD Pandan Arang dengan parameter pemeriksaan SGPT.

Metode penelitian ini bersifat eksperimen, dimana peneliti hanya akan melakukan pemeriksaan kadar SPGT bahan kontrol komersial dengan waktu penyimpanan dari hari pertama hingga hari ke tujuh dengan variasi suhu *freezer* -20ºc dan suhu lemari pendingin 2-8ºc.

Hasil penelitian menunjukkan dengan uji statistik paired t test hasil nilai signifikasi lebih kecil dari 0,05 yakni 0,003 artinya terdapat pengaruh perbedaan yang signifikan antara hasil *QC* pemeriksaan SGPT di suhu *freezer* -20ºC dan suhu lemari pendingin 2-8ºC..Kesimpulan penelitian ini kesimpulan terdapat pengaruh yang signifikan hasil pemeriksaan *QC* bahan kontrol parameter SGPT dengan waktu penyimpanan dan variasi suhu berbeda antara suhu *freezer* -20ºC dan suhu lemari pendingin 2-8ºC.

Kata kunci : Bahan kontrol, Pemantapan Mutu Internal, Pemeriksaan SGPT

ABSTRACT

Sriyani Naningsih Tangahu, 2023. *Effect of Storage Time and Temperature Variation of Control Materials on Internal Quality Assurance of SGPT Examination at Pandan Arang Boyolali Regional Hospital Laboratory.* **Bachelor of applied science in Medical Laboratory Technology, Faculty of Health Sciences, Setia Budi University.**

Control materials is very important to assess laboratory performance. Laboratory tests that use serum control materials include the examination of serum glutamic pyruvic transaminase (SGPT). The purpose of this study was to determine the effect of storage time and temperature variations on control materials that will be used for internal quality assurance (IQC) in the Pandan Arang Hospital laboratory with SGPT examination parameters.

Research method is experimental, where researchers will only examine the SPGT levels of commercial control materials with storage time from day one to day seven with freezer temperature variations of -20ºc and refrigerator temperatures of 2-8ºc.

The results showed that with the paired t test statistical test, the results of the significance value were smaller than 0.05, namely 0.003, meaning that there was a significant difference between the results of QC inspection of SGPT at a freezer temperature of -20ºc and a refrigerator temperature of 2-8ºc. The conclusion of this study concluded that there was a significant effect on the results of QC inspection of SGPT parameter control materials with different storage times and temperature variations between -20ºc freezer temperatures and 2-8ºc refrigerator temperatures.

Keywords: Control material, Internal Quality Assurance, SGPT examination