

PERBEDAAN HASIL PEMERIKSAAN *PLASMA PROTHROMBIN TIME (PPT)* PADA PLASMA SITRAT YANG DISIMPAN PADA SUHU RUANG DAN SUHU REFRIGERASI SELAMA 3 JAM.

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ABSTRAK

Latar Belakang: Plasma Prothrombin Time (PPT) merupakan pemeriksaan hemostasis untuk menilai jalur ekstrinsik dan jalur bersama koagulasi darah. Hasil pemeriksaan PPT dapat dipengaruhi oleh faktor praanalitik, termasuk suhu dan lama penyimpanan plasma sitrat.

Tujuan: Mengetahui perbedaan hasil pemeriksaan PPT pada plasma sitrat yang disimpan pada suhu ruang dan suhu refrigerasi selama 3 jam.

Metode: Penelitian analitik observasional dengan desain *cross-sectional study* menggunakan 30 sampel plasma sitrat dari mahasiswa Jurusan Teknologi Laboratorium Medis. Sampel disimpan pada suhu ruang (20–25°C) dan suhu refrigerasi (2–8°C) selama 3 jam, kemudian dilakukan pemeriksaan PPT. Data dianalisis menggunakan uji Shapiro-Wilk dan uji Wilcoxon dengan tingkat kepercayaan 95%.

Hasil: Rerata hasil PPT pada penyimpanan suhu ruang adalah 10,99 detik, sedangkan pada suhu refrigerasi 10,70 detik. Uji Wilcoxon menunjukkan nilai $p=0,537$ ($p>0,05$), sehingga tidak terdapat perbedaan yang signifikan antara kedua kondisi penyimpanan.

Kesimpulan: Penyimpanan plasma sitrat pada suhu ruang maupun suhu refrigerasi selama 3 jam tidak memberikan perbedaan yang signifikan terhadap hasil pemeriksaan Plasma Prothrombin Time (PPT).

Kata kunci: Penyimpanan, Plasma Sitrat, Suhu Ruang, Suhu Refrigerasi, Plasma Prothrombin Time (PPT).

DIFFERENCES IN PLASMA PROTHROMBIN TIME (PPT) RESULTS OF CITRATED PLASMA STORED AT ROOM TEMPERATURE AND REFRIGERATION TEMPERATURE FOR 3 HOURS

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ABSTRACT

Background: Plasma Prothrombin Time (PPT) is a hemostasis test used to evaluate the extrinsic and common pathways of blood coagulation. PPT results can be affected by pre-analytical factors, including the temperature and duration of citrate plasma storage.

Objective: To determine the difference in PPT results between citrate plasma stored at room temperature and refrigerated temperature for 3 hours.

Methods: This analytical observational study employed a *cross-sectional* design using 30 citrate plasma samples obtained from students of the Medical Laboratory Technology Department. Samples were stored at room temperature (20–25°C) and refrigerated temperature (2–8°C) for 3 hours before PPT examination. Data were analyzed using the Shapiro–Wilk normality test and the Wilcoxon test with a 95% confidence level.

Results: The mean PPT value of citrate plasma stored at room temperature was 10.99 seconds, while that of plasma stored under refrigeration was 10.70 seconds. The Wilcoxon test showed a p-value of 0.537 ($p > 0.05$), indicating no statistically significant difference between the two storage conditions.

Conclusion: Storage of citrate plasma at room temperature or refrigerated temperature for 3 hours does not significantly affect Plasma Prothrombin Time (PPT) results.

Keywords: Storage, Citrated Plasma, Room Temperature, Refrigeration Temperature, Plasma Prothrombin Time (PPT).