

ABSTRAK

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PERBEDAAN WAKTU SENTRIFUGASI TERHADAP JUMLAH TROMBOSIT PLASMA, NILAI *PROTHROMBIN TIME* (PT) dan *ACTIVATED PARTIAL THROMBOPLASTIN TIME* (aPTT)

xiii + 62 Halaman + 8 Tabel + 8 Lampiran

Pemeriksaan koagulasi seperti *Prothrombin Time* (PT) dan *Activated Partial Thromboplastin Time* (aPTT) merupakan langkah penting dalam penilaian pra-operasi guna mencegah komplikasi perdarahan. Hasil pemeriksaan ini sangat dipengaruhi oleh tahap pre-analitik, khususnya proses sentrifugasi dalam pembentukan plasma miskin trombosit. Tujuan penelitian ini adalah menganalisa perbedaan jumlah trombosit plasma, nilai PT dan nilai aPTT yang disentrifugasi selama 5 menit dengan 15 menit pada penderita pra-operasi. Jenis penelitian ini adalah analitik observasional dengan rancangan penelitian *cross-sectional*. Populasi penelitian ini adalah seluruh penderita pra-operasi dengan blanko permintaan pemeriksaan PT dan aPTT periode 7 Mei – 14 Mei 2025 di RSUD Haji Provinsi Jawa Timur. Sampel penelitian ini sebanyak 16 responden diambil menggunakan teknik *accidental sampling*. Hasil uji *T-Independent Sample* menunjukkan bahwa terdapat perbedaan signifikan terhadap jumlah trombosit plasma antara waktu sentrifugasi 5 menit dengan 15 menit. Namun, tidak ada perbedaan signifikan untuk nilai PT dan aPTT antara sentrifugasi 5 menit dengan 15 menit.

Kata kunci : Penderita pra-operasi, Sentrifugasi, Trombosit, PT, dan aPTT

Daftar bacaan : 23 buku (2015-2024)

ABSTRACT

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DIFFERENCE OF CENTRIFUGATION TIME ON THE NUMBER OF PLASMA PLATELETS, PROTHROMBIN TIME (PT) and ACTIVATED PARTIAL THROMBOPLASTIN TIME (aPTT)

xiii + 62 Pages + 8 Tables + 8 Appendices

Coagulation tests such as Prothrombin Time (PT) and Activated Partial Thromboplastin Time (aPTT) are important steps in pre-operative assessment to prevent bleeding complications. The results of these tests are greatly influenced by the pre-analytical stage, especially the centrifugation process in the formation of platelet-poor plasma. The aim of this study was to analyze the difference in plasma platelet count, PT value and aPTT value centrifuged for 5 minutes and 15 minutes in pre-operative patients. This type of study is observational analytic with cross-sectional research design. The population of this study were pre-operative patients with PT and aPTT test request in the period May 07 - May 14, 2025 at Haji Hospital, East Java Province. This research sample was 16 respondents taken using accidental sampling technique. The results of T-Independent Sample test showed a significant difference in the number of plasma platelets between centrifugation times of 5 minutes and 15 minutes. However, there was no significant difference in PT and aPTT values between centrifugation times of 5 minutes and 15 minutes.

Keywords : Pre-operative patients, Centrifugation, Platelets, PT, and aPTT.

References : 23 books (2015-2024)