

INTISARI

Martins, SJ. Analisis Pemantapan Mutu Internal Pemeriksaan Trombosit Dengan Alat Mindray Bc-20s Di Laboratorium Horex Baucau Timor –Leste. Skripsi” Program Studi D4 Analisis Kesehatan, Fakultas Ilmu Kesehatan, Universitas setia Budi.

Pemeriksaan trombosit di laboratorium HoREX merupakan pemeriksaan yang presentasenya tinggi sehingga perlu dilakukan analisis pemantapan mutu *internal*. Tujuan penelitian untuk menganalisis *akurasi* dan *presisi* pemeriksaan trombosit dengan alat *mindray* BC-20s di laboratorium HoREX.

Metode Penelitian yang digunakan adalah deskriptif . Data yang digunakan adalah data sekunder dari *quality control* harian pemeriksaan trombosit pada bulan maret 2023 dengan cara data yang diperoleh kemudian dianalisis menggunakan aplikasi *microsoft excel*.

Hasil uji statistik diperoleh nilai *akurasi* level *low* 14,16%, level normal 6,435%, dan level *high* 6,770%, *presisi* level *low* 13,78%, level normal 18,73% dan level *high* 2,75% nilai *bias* pada level *low* 0,28% , normal 0,01%, level *high* 0,03%, dan nilai total *error* level *low* 28,43% , level normal 12,08% ,dan level *high* 13,32%.. Data yang diperoleh menunjukkan bahwa hematologi *analyzer mindray* BC-20s memiliki *akurasi* dan *presisi* tidak baik. Evaluasi grafik *Levey-Jennings* terhadap bahan kontrol trombosit pada level *low* terjadi pelanggaran *westgard multirule* 10-x ,dan 1-2s ,untuk level control normal pelanggaran *Westgard Multirule* 12-x. Hasil grafik *Levey-jennings* level *high* terdapat pelanggaran *Westgard multirule* 10-x .Grafik menunjukkan *sistematik eror* dan *trend* pada ketiga level bahan kontrol.

Kata kunci : Trombosit *Quality Control* ,Mindray BC-20s.

ABSTRACT

Martins, SJ. Analysis of Internal Quality Assurance of Platelet Examination with the Mindray Bc-20s Tool at the Horex Baucau Laboratory, Timor-Leste. Bachelor of Medical Laboratory Technology, Faculty of Health Sciences, Setia Budi University

Examination of platelets in the HoREX laboratory is an examination with high presentation so it is necessary to carry out an internal quality assurance analysis. The aim of this study was to analyze the accuracy and precision of platelet examination with the BC-20s mindray tool in the HoREX laboratory.

The research method used is descriptive. The data used is secondary data from daily quality control of platelet examination in March 2023 by means of the data obtained and then analyzed using the Microsoft Excel application.

Statistical test results obtained low level accuracy of 14.16%, normal level of 6.435%, and high level of 6.770%, low level precision of 13.78%, normal level of 18.73% and high level of 2.75% bias value at low level 0.28%, normal 0.01%, high level 0.03%, and the total error level low is 28.43%, normal level is 12.08%, and high level is 13.32%. The data obtained shows that the hematology analyzer mindray BC-20s has poor accuracy and precision. Levvey-Jennings chart evaluation of platelet control materials at low levels occurs violations of the Westgard Multirule 10-x, and 1-2s rules, for normal control levels violations of the Westgard Multirule 12-x rules . The results of the high level Levvey-Jennings graph show violations of the 10-x multirule rule. The graph shows systematic errors and trends at the three levels of control materials.

Keywords: Platelet Quality Control, Mindray BC-20s.