

ABSTRAK

EVALUASI KINERJA ALAT HEMATOLOGI ANALYZER SYSMEX XN-550 DI RUMAH SAKIT UNIVERSITAS AIRLANGGA

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Sysmex XN-550 merupakan salah satu alat autoanalyzer yang digunakan di Laboratorium Rumah Sakit Universitas Airlangga. Sysmex XN-550 ini digunakan untuk pemeriksaan darah lengkap. Parameter pemeriksaan Sysmex XN-550 yang digunakan di Laboratorium Rumah Sakit Universitas Airlangga adalah whole blood cell, eritrosit, HGB, trombosit, dan komponen darah seperti hematokrit, MCV, MCH, MCHC, RDW, MPV, dan PDW. Sebagai petugas laboratorium perlu menunjang kinerja alat Sysmex XN-550 dengan mengetahui proses *quality control*, *meintenance* dan *troubleshooting* untuk mendapatkan hasil yang akurat.

Metode pengumpulan data menggunakan observasi deskriptif yaitu menganalisa data primer yang sudah ada dengan metode wawancara, observasi, dan studi pustaka *autoanalyzer* Sysmex XN-550 di Laboratorium Rumah Sakit Universitas Airlangga. Data yang diambil yaitu evaluasi proses *quality control*, *meintenance* dan laporan *troubleshooting*.

Maintenance pada *autoanalyzer* Sysmex XN-550 bulan November 2019 di Laboratorium Rumah Sakit Universitas Airlangga telah dijalankan dengan baik. *Meintenance* pada *autoanalyzer* Sysmex XN-550 bulan November 2019 dilakukan secara otomatis setiap alat dinyalakan. Hasil *Quality control* Sysmex XN-550 pada bulan November 2019 tidak pernah melebihi batas nilai kontrol sehingga dapat dikatakan nilai kontrol diterima. Selama bulan November 2019 Sysmex XN-550 pernah mengalami gangguan atau kerusakan sebanyak satu kali akibat data di *worklist* penuh namun Petugas laboratorium tidak pernah mengalami kesulitan dalam menangani *alarm troubleshooting* Sysmex XN-550 Analyzer.

Keyword : Sysmex XN-550, *Quality control*, *Maintenance*, dan *troubleshooting*

ABSTRACT

**EVALUATION OF THE SYSMEX XN-550 HEMATOLOGY ANALYZER
AT AIRLANGGA UNIVERSITY HOSPITAL**

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Sysmex XN-550 is one of the autoanalyzer tools used at the Airlangga University Hospital Laboratory. Sysmex XN-550 is used for a complete blood test. Sysmex XN-550 examination parameters used in the Airlangga University Hospital Laboratory are whole blood, cells, erythrocytes, HGB, platelets, and blood components such as hematocrit, MCV, MCH, MCHC, RDW, MPV, and PDW. As laboratory personnel need to support the performance of the Sysmex XN-550 by knowing the process of quality control, maintenance, and troubleshooting to get accurate results.

The data collection method uses descriptive observation, which is analyzing the primary data that already exist with the method of interview, observation, and study of Sysmex XN-550 autoanalyzer in the Airlangga University Hospital Laboratory. The data taken is the evaluation of the quality control process, maintenance, and troubleshooting reports.

Maintenance of the Sysmex XN-550 autoanalyzer in November 2019 at the Airlangga University Hospital Laboratory has been carried out well. Maintenance on the Sysmex XN-550 autoanalyzer in November 2019 is done automatically every time the device is turned on. The results of the Sysmex XN-550 quality control in November 2019 never exceeded the control value limit so it can be said the control value was accepted. During November 2019 the Sysmex XN-550 had experienced one-time interruption or damage due to data in the full worklist but the laboratory staff never experienced difficulties in handling the alarm troubleshooting Sysmex XN-550 Analyzer.

Keyword : Sysmex XN-550, *Quality control, Maintenance, and troubleshooting*