

ABSTRAK

Overall Equipment Effectiveness (OEE) merupakan metode yang dapat digunakan untuk mengukur efektivitas mesin yang didasarkan pada pengukuran tiga rasio utama, yaitu : availability, performance efficiency, dan rate of quality. Uji laboratorium atau tes laboratorium pemeriksaan termasuk pemeriksaan darah (hematologi) dapat digunakan sebagai uji saring untuk mengetahui adanya adanya kelainan proses fisiologis tubuh, membantu pengaturan diagnosa, membuat diagnosa pita,berkumpul perjalanan penyakit,penatalaksanaan penderita dan tentukan prognosa. Penelitian ini bertujuan untuk Untuk mengetahui efektivitas kinerja dari alat Hematologi 3 Diff Mindray BC-3600 dengan melakukan perhitungan nilai Overall Equipment Effectiveness (OEE). Pengambilan data dilakukan dari 3 unit alat HEMATOLOGY 3 DIFF yang terdapat 3 rumah sakit yang berbeda dan dengan merk alat yang sama. Hasil penelitian menunjukkan bahwa hasil perhitungan OEE HEMA A menunjukan bahwa tingkat pencapaian nilai OEE yang ideal terjadi pada bulan Agustus, September dan Oktober. Pada HEMA B mencapai nilai ideal hampir keseluruhan minggunya dengan angka tertingginya 99,31%, tetapi tidak mencapai nilai ideal pada september minggu kedua karena nilai availibilty rate yang cenderung rendah menyentuh angka 79,77%.Sedangkan HEMA C sudah sesuai dengan nilai ideal OEE dengan nilai tertingginya 99,56%, akan tetapi pada bulan Agustus minggu ketiga alat ini tidak menyentuh nilai OEE disebabkan rendahnya nilai availability rate dengan nilai 81,52%.

Kata kunci : *Hematology 3 Diff, Overall Equipment Effectiveness (OEE), Mindray BC-3600*

ABSTRAC

Overall Equipment Effectiveness (OEE) is a method that can be used to measure the effectiveness of a machine based on the measurement of three main ratios, namely: availability, performance efficiency, and rate of quality. Laboratory tests or laboratory tests including blood tests (hematology) can be used as a screening test to determine the presence of abnormalities in the body's physiological processes, help regulate diagnosis, make a diagnosis of the band, collect disease progress, manage patients and determine prognosis. This study aims to determine the effectiveness of the performance of the Mindray BC-3600 3 Diff Hematology device by calculating the Overall Equipment Effectiveness (OEE) value. Data collection was carried out from 3 HEMATOLOGY 3 DIFF units in 3 different hospitals and with the same brand of equipment. The results of the study showed that the results of the OEE HEMA A calculation showed that the ideal OEE value achievement level occurred in August, September and October. In HEMA B, it reached the ideal value for almost the entire week with the highest number of 99.31%, but did not reach the ideal value in September, the second week because the availability rate value tended to be low, touching 79.77%. While HEMA C was in accordance with the ideal OEE value with the highest value of 99.56%, but in August, the third week this device did not touch the OEE value due to the low availability rate value with a value of 81.52%.

Keywords: Hematology 3 Diff, Overall Equipment Effectiveness (OEE), Mindray BC-3600