

PENUNDAAN PEMERIKSAAN KULTUR URIN PASIEN DENGAN PENYIMPANAN MENGGUNAKAN COOLBOX PADA PERTUMBUHAN BAKTERI DI RSUP DR. KARIADI SEMARANG

Rina Sirait¹, Sri Sinto Dewi², Wildiani Wilson²

1. Program Studi DIII Analis Kesehatan Fakultas Ilmu Keperawatan dan Kesehatan Universitas Muhammadiyah Semarang
2. Laboratorium Bakteriologi Fakultas Ilmu Keperawatan dan Kesehatan Universitas Muhammadiyah Semarang

Abstrak

Semua spesimen urin harus sudah sampai di laboratorium dan diproses dalam waktu tidak lebih dari dua jam setelah sampling, jika tidak memungkinkan, maka spesimen harus dimasukkan ke dalam kulkas. Pemeriksaan hitung koloni bakteri pada urin dilakukan dengan penundaan menggunakan *coolbox* yaitu ≤ 2 jam, 6 jam, 12 jam, 18 jam dan 24 jam. Tujuan penelitian ini adalah untuk membandingkan jumlah koloni bakteri pada urin perlakuan dan mengetahui waktu tunda yang efektif pada *coolbox*.

Penelitian adalah deskriptif. Sampel diambil dari pasien rawat inap di RSUP dr. Kariadi Semarang selama bulan Desember 2016 dan dilakukan pemeriksaan jumlah koloni bakteri urin dengan lima perlakuan penundaan sehingga mendapatkan total sampel sebanyak 50.

Hasil penundaan waktu simpan pada urin terhadap rerata jumlah koloni bakteri yaitu waktu simpan 6 jam sama yaitu 75.050 CFU/mL (0.94%), penundaan 12 jam 128.000 CFU/mL (72.16%), penundaan 18 jam 80.750 CFU/mL (8.61%), penundaan 24 jam 78.900 CFU/mL (6.12%). Hal ini menunjukkan penundaan pemeriksaan dengan penyimpanan spesimen pada *coolbox* yang paling efektif adalah selama 6 jam.

Kata kunci: kultur urin, hitung koloni, penyimpanan pada coolbox

DELAYING EXAMINATION OF URINE CULTURE OF PATIENTS WITH STRORAGE USING COOLBOX ON BACTERIAL GROWTH IN RSUP DR. KARIADI SEMARANG

Rina Sirait¹, Sri Sinto Dewi², Wildiani Wilson²

1. Three years Diploma of Health Analyst Study Program, Nursing and Health Faculty, Muhammadiyah University of Semarang
2. Clinical Bacteriology Laboratory, Nursing and Health Faculty, Muhammadiyah University of Semarang

Abstract

All urine specimens should've arrived at the laboratory and processed within no more than two hours after sampling, if not possible, then the specimen should be put in the refrigerator. Bacterial colony counts in urine cultures are done with delay by using coolbox, which were ≤ 2 hours, 6 hours, 12 hours, 18 hours, and 24 hours. The objective of the study was to compare the results of bacterial colony counts in each urine treatment and to determine the effectiveness of the time delay of urine stored in coolbox.

The type of study was a descriptive. Samples were taken from inpatient hospital admissions at RSUP dr. Kariadi during the month of December 2016 and urine bacterial colony counts tests were performed with five treatment delays of urine specimens so it got the total of up to 50.

The comparison showed the average results for 6 hour urine treatment delay produced bacterial colony counts up to 75.050 CFU/mL (0.94%); the average results for 12-hour urine treatment produced 128.000 CFU/mL (72.16%); the average results for 18-hour urine treatment delay produced 80.750 CFU/mL (8.61%); the average results for 24-hour urine treatment delay gave of 78.900 CFU/mL (6.12%). It indicated that most effective time delay in the testing of specimens stored in coolbox was of 6 hours.

Keywords: urine cultures, colony counts, coolbox storage.