

ABSTRACT

IDENTIFICATION OF *Escherichia coli* BACTERIA IN INPATIENT AREAS CLASS III Dr. HOSPITAL H. ABDUL MOELOEK BANDAR LAMPUNG

By

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Background: *Escherichia coli* is a bacteria that causes foodborne disease, one of which is diarrhea. The most common cause is due to food coming into direct contact with the surface of eating utensils, so cleanliness of eating utensils is one of the most important things. Contamination of cutlery can occur due to poor washing, drying, storage and water source quality.

Method: This research design is descriptive. Sampling was carried out in the class III inpatient room at RSUD Dr. H. Abdul Moeloek and the research process at the Lampung Provincial Health Laboratory UPTD. The research was carried out in October-November 2023. The samples used were 30 plate plate swabs, then colony counting, gram staining, EMB testing and biochemical testing were carried out.

Results: There were 27 samples (90%) that had a number of colonies that exceeded the quality standard and 3 samples (10%) met the quality standard requirements of Minister of Health Regulation No. 1096/Menkes/Per/VI/2011. *Escherichia coli* bacteria were found in 4 samples (13%) in the class III inpatient room at RSUD Dr. H. Abdul Moeloek.

Conclusion: Of the 30 samples, *Escherichia coli* was found in 4 samples (13%) of plate plate cutlery.

Keywords: *Escherichia coli*, Diarrhea, Foodborne disease

ABSTRAK

IDENTIFIKASI BAKTERI *Escherichia coli* PADA ALAT MAKAN (PIRING PLATO) RUANG RAWAT INAP KELAS III RSUD Dr. H. ABDUL MOELOEK BANDAR LAMPUNG

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Latar Belakang : *Escherichia coli* merupakan bakteri penyebab *foodborne disease* salah satunya diare. Penyebab tersering diakibatkan karena makanan yang bersentuhan secara langsung dengan permukaan peralatan makan, sehingga kebersihan peralatan makan menjadi salah satu hal terpenting. Kontaminasi alat makan dapat terjadi karena proses pencucian yang kurang baik, proses pengeringan, penyimpanan dan kualitas sumber air.

Metode : Desain Penelitian ini adalah deskriptif. Pengambilan sampel dilakukan di ruang rawat inap kelas III RSUD Dr. H. Abdul Moeloek dan proses penelitian di UPTD Laboratorium Kesehatan Provinsi Lampung. Penelitian dilakukan pada bulan Oktober-November 2023. Sampel yang digunakan merupakan swab piring plato sebanyak 30 sampel, kemudian dilakukan hitung koloni, pewarnaan gram, uji EMB dan Uji Biokimia.

Hasil penelitian : Terdapat 27 sampel (90%) memiliki jumlah koloni yang melebihi baku mutu dan 3 sampel (10%) memenuhi syarat baku mutu Permenkes No. 1096/Menkes/Per/VI/2011. Ditemukan bakteri *Escherichia coli* pada 4 sampel (13%) di ruang rawat inap kelas III RSUD Dr. H. Abdul Moeloek.

Simpulan : Dari 30 sampel ditemukan *Escherichia coli* pada 4 sampel (13%) alat makan piring plato

Kata Kunci : *Escherichia coli*, Diare, *Foodborne disease*