

Tesis

**UJI KESESUAIAN JUMLAH LEUKOSIT URINE METODE
CARIK CELUP DENGAN KAMAR HITUNG SHIH-YUNG
PADA PASIEN SUSPEK INFEKSI SALURAN KEMIH**

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**PROGRAM PENDIDIKAN DOKTER SPESIALIS I
PATOLOGI KLINIK FK UNAND/RSUP Dr. M. DJAMIL
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ABSTRAK

Pendahuluan: Infeksi saluran kemih merupakan salah satu penyakit infeksi yang sering ditemukan pada anak. Penentuan jumlah leukosit urine dengan metode carik celup merupakan metode paling umum dan praktis, namun presisi dan akurasi sangat dipengaruhi banyak faktor terutama pengumpulan urine pada bayi. Pemeriksaan sedimen urine metode Shih-Yung diharapkan memiliki ketelitian dan ketepatan yang lebih baik dibandingkan dengan metode carik celup. Tujuan penelitian untuk mengetahui tingkat kesesuaian antara pemeriksaan jumlah leukosit urine antara metode carik celup dengan kamar hitung Shih-Yung pada pasien suspek infeksi saluran kemih di RSUP Dr. M. Djamil Padang.

Metode: Penelitian observasional analitik dengan rancangan potong lintang dilakukan terhadap 28 orang pasien yang didiagnosis suspek infeksi saluran kemih oleh klinisi dan melakukan pemeriksaan leukosit urine di Laboratorium sentral RSUP Dr. M. Djamil Padang dari bulan September 2018 sampai dengan Juli 2019. Pemeriksaan leukosit urin menggunakan carik celup dan kamar hitung Shih-Yung. Hasil dianalisis dengan uji kesesuaian menggunakan nilai Kappa. Kemaknaan statistik ditentukan jika $p < 0,05$.

Hasil: Subjek penelitian berjumlah 28 orang. Rerata umur subyek penelitian adalah $6,7 \pm 5,7$ tahun. Jenis kelamin subyek penelitian terdiri dari 14 (50%) orang laki-laki dan 14 (50%) orang perempuan. Uji kesesuaian antara kamar hitung Shih-Yung dan carik celup didapatkan nilai kappa 0,868 dengan interpretasi baik sekali dan bermakna secara statistik ($p < 0,05$).

Simpulan: Terdapat kesesuaian jumlah leukosit urine antara carik celup dengan kamar hitung Shih-Yung pada pasien suspek infeksi saluran kemih.

Kata kunci: Urinalisis, Infeksi Saluran Kemih, Carik Celup, Shih-Yung.

**AGREEMENT BETWEEN THE NUMBER OF URINE LEUKOCYTES
WITH SHIH-YUNG COUNTING ROOM AND URINE DIPSTICK
ON PATIENTS SUSPECTED URINARY TRACT INFECTIONS**

Dendy, Lillah, Desywar, Tuty Prihandani

ABSTRACT

Introduction: Urinary tract infections are one of the infectious diseases that are often found in children. Determination of the number of urine leukocytes by the dipstick method is the most common and practical method, but its precision and accuracy are greatly influenced by many factors, especially urine collection in infants. Urine sediment examination of the Shih-Yung method is expected to have a better accuracy and accuracy compared to the dipstick method. The purpose of this study was to determine the level of concordance between examining the number of urine leukocytes between the Shih-Yung counting method and the dipstick method in patients with suspected urinary tract infections at RSUP Dr. M. Djamil Padang

Methods: : Analytic observational research with cross sectional design was carried out on 28 patients who were diagnosed with suspected urinary tract infection by a clinician and conducted a urine leukocyte examination at the Central Laboratory of RSUP Dr. M. Djamil Padang from September 2018 to July 2019. Examination of urine leukocytes using dipstick and Shih-Yung counting room. The results were analyzed with a suitability test using Kappa values. Statistical significance was determined if $p < 0.05$.

Results: Research subjects numbered 28 people. The mean age of the study subjects was 6.7 ± 5.7 years. The sex of the study subjects consisted of 14 (50%) men and 14 (50%) women. Conformity test between the Shih-Yung calculation room and the dipstick obtained a kappa value of 0.868 with excellent interpretation and statistically significant ($p < 0.05$).

Conclusion: There is agreement between the number of urine leukocytes between the Shih-Yung counting room and the dipstick in patients with suspected urinary tract infections.

Keywords: Urinalysis, Urinary Tract Infections, Dipstick, Shih-Yung