

INTISARI

Meni Purwati¹., dr. Niniek Yusida, Sp.PK., M.Sc²., Drs. Edy Prasetya, M.Si³., 2017. Perbedaan Uji Salmonella IgG/IgM *Rapid Test* dengan Uji Salmonella *immunoassay*. Program studi D-IV Analis Kesehatan, Fakultas Ilmu Kesehatan, Universitas Setia Budi, Instalasi Patologi Klinik RSUD Karang Anyar², Dosen Universitas Setia Budi Surakarta.

Diagnosis demam tifoid ditegakkan berdasarkan diagnosis klinis dan pemeriksaan laboratorium. Uji salmonella IgG/IgM *rapid test* adalah tes imunokromatografi kualitatif untuk mendeteksi antibodi IgG dan IgM pada *Salmonella typhi* di dalam serum. Uji salmonella *immunoassay* merupakan tes aglutinasi kompetitif semikuantitatif yang sederhana cepat dan akurat dalam mendeteksi antibodi IgM pada *Salmonella typhi*. Tujuan penelitian ini untuk mengetahui perbedaan hasil uji salmonella IgG/IgM *rapid test* dengan uji salmonella *immunoassay*.

Penelitian bersifat observasional analitik *cross sectional*, pada 50 sampel. Penelitian dilakukan di Instalasi Laboratorium Patologi Klinik Rumah Sakit Umum Islam Kustati di Surakarta pada bulan Maret dan April 2017. Digunakan *Chi-Square* dengan signifikansi (p) < 0,05, interval kepercayaan (IK) 95%.

Uji Salmonella *rapid test* didapatkan hasil positif (+) sebanyak 3 sampel dan hasil negatif (-) sebanyak 47 sampel. Uji Salmonella *immunoassay* didapatkan hasil yang positif (+) sebanyak 29 sampel dan hasil negatif (-) 21 sampel.

Ada perbedaan yang signifikan ($p=0,001$) hasil pemeriksaan uji salmonella IgG/IgM *rapid test* dengan uji salmonella *immunoassay*. Perlu dilakukan penelitian lebih lanjut dengan kultur.

Kata kunci : demam tifoid, IgG/IgM *rapid test*, *Immunoassay*.

ABSTRACT

Meni Purwati¹, dr. Niniek Yusida, Sp.PK., M.Sc², Drs. Edy Prasetya, M.Si³, 2017. The Difference between Salmonella IgG/IgM Rapid Test and Salmonella Immunoassay Test. The Study Program of Four-Year Diploma (D-IV) in Medical Laboratory Technology. The Faculty of Health Sciences, Installation of Clinical Pathology of Regional Public Hospital (RSUD) of Karanganyar², Lecturer at Universitas Setia Budi³.

A diagnosis of typhoid fever is confirmed based on clinical diagnosis and laboratory examination. Salmonella Typhoid IgG/IgM rapid test is a qualitative immuno-chromatography test for detecting IgG and IgM antibodies in *Salmonella typhi* in serums. Salmonella Immunoassay test is a rapid and accurate semi-quantitative competitive agglutination test for detecting IgM antibody in *Salmonella typhi*. This study aims at investigating the differences of results of salmonella IgG/IgM rapid test and salmonella immunoassay test.

This study belongs to analytical observational research with cross-sectional approach, carried out to 50 samples. The research was conducted in the Installation of Clinical Pathology Laboratory of Islamic Public Hospital (RSUI) of Kustati in Surakarta from March to April 2017. Chi-Square was used with significance value of $(p) < 0.05$ and confidence interval of 95%.

Salmonella rapid test demonstrates positive (+) results on three samples and negative (-) results on 47 samples. Salmonella immunoassay test produces positive (+) results on 29 samples and negative (-) results of 21 samples.

There is significant difference ($p=0.001$) of the results of salmonella IgG/IgM rapid test and salmonella immunoassay test. Further research is needed to be conducted to culture.

Keywords: typhoid fever, IgG/IgM *rapid test*, *Immunoassay*