

## **ABSTRACT**

### **STUDY DIAGNOSTIC OF STOOL EXAMINATION WITH DIRECT SLIDE METHOD AND CONCENTRATION METHODE IN THE DIAGNOSIS OF HELMINTHIASIS**

**By**

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Helminthiasis infection is an infection caused by a helminth intestine nematode class especially transmission through the soil, such as *Ascaris lumbricoides*, *Trichuris trichiura*, and hookworm (*Ancylostoma duodenale* and *Necator americanus*). Soil Transmitted Helminth incident in Indonesia is still relatively high in 2006, amounting to 32.6%. Stool examination by the direct slide method and the method of concentration including tool in the diagnosis helminthiasis. This study aimed to determine the sensitivity of stool examination by the direct slide method and the method of concentrations in diagnosing intestinal helminthiasis. The study design used was cross-sectional with a specialty in diagnostic research. The research sample amounted to 79 samples obtained using the n samples, then conducted a diagnostic study by the method of direct slide stool examination and concentration methods. The results of the study of diagnosis by the method of direct slide stool examination and concentration methods showed that patients diagnosed with definite helminthiasis rate of 12 cases (15.19%), for positive direct slide method of examination and yields a negative concentration method was 1 case helminthiasis (1 , 26%), direct slide methods for the examination negative and positive concentration method there were 29 cases helminthiasis (36.75%), while those giving negative results on both tests there were 37 cases (46.8%). The results of the diagnostic analysis of stool examinations using the concentration of the sensitivity 92.3%, specificity 56%, positive predictive value 29.3%, negative predictive value 97.4%, positive likelihood ratio 2.1; negative likelihood ratio of 0.14, and accuracy of 62.02%. From the results obtained it can be concluded that the examination of stool concentration method had a sensitivity of 92.3% so reliable as a diagnostic tool helminthiasis.

Key words : Helminthiasis, direct slide method, concentration method