

**COMPARISON THE PREVALENCE OF SOIL-TRANSMITTED HELMINTH (STH)
INFECTIONS IN ELEMENTARY SCHOOL STUDENTS IN THREE DIFFERENT
AREAS IN BALI, INDONESIA**

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Abstract

Infection of soil-transmitted helminths (STH) is still a health problem in developing countries. Morbidity most widely STH infections in school-age children who have the severe infection. WHO data distribution of school-age children who are most at risk of STH infection in South-East Asia. In Indonesia. STH infection is still a disease with a high prevalence, especially in rural communities. In rural communities in Bali prevalence of *Ascaris lumbricoides* infection, *Trichuris trichiura*, hookworm, and *Strongyloides stercoralis* respectively 73.7%, 62.6%, 24.5% and 1.6% . Factors soil conditions, rainfall, temperature and humidity of an area affect the prevalence of infection STH. Soil conditions in Bali is ideal for the development of the eggs of *Ascaris* and *Trichuris* to be infective stage. Widjana and Sutisna reported STH infections in the community areas of wet altitude higher than the lowland and dry latitude in Bali. The purpose of this study was to compare the prevalence of STH infection and species of worms STH infections in elementary school students in three different areas in Bali. By using the Kato Katz method for the detection of STH infection. Stool samples were positive for STH eggs, recorded species are found and counted the number of eggs. The results of this study are the prevalence of STH infections SD 1 Songan, Bangli 6.41%, SDN 2 Lebih Gianyar 18.94% and SDN 4 Melinggih Kelod, Payangan, Gianyar 27.14%. *Ascaris* and *Trichuris* are the most common type worm of all these areas.

Keywords: STH, prevalence, type of worms



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