

ABSTRACT

THE ASSOCIATION OF PERSONAL HYGIENE AND NUTRITION STATUS WITH HELMINTHIASIS ON ELEMENTARY SCHOOL STUDENTS IN SDN 1 KRAWANG SARI NATAR

By

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Background: The prevalence of helminthiasis infection in Indonesias is relatively high (22.6%) with the majority of patients are infants and elementary school students. Many factor that can cause helminthiasis among others are poor personal hygiene and poor nutrition status. This research aims to determine the association of personal hygiene and nutrition status with helminthiasis on elementary school students in SDN 1 Krawang Sari Natar.

Method: This type of research was observational analytic using cross sectional design. This research was conducted at SDN 1 Krawang Sari Natar in October-November 2015. The subjects were 50 students at SDN 1 Krawang Sari Natar grade 1 to grade 6. This study uses statistical test Chi-square to see the association of personal hygiene and nutrition status with helminthiasis. Data was collected using a questionnaire to assess personal hygiene (cleanliness of finger nails, wearing footwear, and the habit of washing hands), measurement of height and weight to assess nutritional status and laboratory test with floating method to assess helminthiasis.

Result: From the 50 respondents, 31 children (62%) experienced a helminthiasis with the type of *Ascaris lumbricoides*. Nutritional status based on BMI / U underweight category (10%), normal (80%), fat (6%) and very fat (4%). The prevalence of cleanliness of finger nails (64%), wearing footwear (60%), and the habit of washing hands (62%) to the poor category. There was association between cleanliness of finger nails (64%), wearing footwear (60%), and the habit of washing hands with helminthiasis with each p value (0,002), (0,009), and (0,000). There was no association between nutritional status and helminthiasis with p value (0,80).

Conclusion: There was association between personal hygiene with helminthiasis and there was no association between nutritional status and helminthiasis.

Keywords: helminthiasis, nutrition status, personal hygiene