

TAENIASIS-CYSTICERCOSIS STATUS IN BANTI VILLAGE, MIMIKA, PAPUA

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ABSTRACT

Background: In 2014, PT Freeport Indonesia Hospital in Tembagapura, Mimika, Papua, reported three neurocysticercosis (NCC) cases. Computed tomography (CT) of these cases showed multiple cystic lesions in the brain and leg. This study aimed to detect taeniasis and cysticercosis among the community in Banti village.

Methods: A cross-sectional study was conducted in Banti village, Mimika, Papua, in November 2015. A sample of 132 local residents was selected study. The dependent variables were Taeniasis and Cysticercosis. Taeniasis was determined by Taeniasis spp eggs. Cysticercosis was determined by soil-transmitted helminth (STH) eggs using Kato Katz technique. The sample was screened for specific IgG. The sample was screened for *Solium* cysticercus by an enzyme-linked immunosorbent assay (ELISA). If Cysticercosis was suspected, the sample was examined by CT scan.

Results: CT scan showed three Cysticercosis cases. Serological analysis showed no Taenia egg. 60.6% (80/132) were infected with STH. 11.4% (15/132) showed high optical density (OD). Cysticercosis infection was associated with a culturally-practiced diet named “Bakar Batu”.

Conclusion: Cysticercosis cases were detected among the local residents in Banti Village. It is associated with the practice of “Bakar Batu”.

Keywords: *taeniasis, cysticercosis*

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