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Detection of *Capillaria philippinensis* coproantigen in clinical cases of capillariasis by enzyme-linked immunosorbent assay using polyclonal antibodies

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The present study develop and evaluate an enzyme-linked immunosorbent assay (ELISA) to detect *Capillaria philippinensis* antigen in stool elutes using rat and rabbit polyclonal antibodies. The detection of *C. philippinensis* antigen in stool could be more valuable in diagnosis before irreparable damage. In this study, adult *C. philippinensis* worms were collected and used to immunize rats and rabbits to raise antibodies. Rat antibodies are further used as primary capture to coat ELISA plates and rabbit hyper immune serum used as secondary capture of antibodies. Advances in immuno-diagnosis have focused on detection of parasite antigens in host body fluid; these tests have an advantage over antibody detection because antigenemia implies recent and active infection. The assay detected the antigen in 100% of microscopically confirmed cases of capillariasis. Antigen was also detected in 75% of stool elutes from clinically suspected cases of capillariasis with no eggs in their stool. This ELISA will improve the diagnosis of *Capillaria* infections and will be useful in following patients after treatment.

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