

研究简报

## 旋毛虫感染兔唾液中抗旋毛虫IgG抗体水平

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### 摘要

将28只日本大耳兔随机分为实验组(20只)和对照组(8只), 实验组用旋毛虫脱囊幼虫经口灌胃日本大耳兔(3 000条/只), 对照组不做任何处理。采集感染前和感染后1~6周兔唾液和血清以及对照组兔唾液和血清。建立旋毛虫肌肉幼虫排泄分泌抗原(MLESA)为诊断抗原的间接ELISA, 测定兔唾液和血清中抗旋毛虫IgG抗体。结果显示, 感染后1~6周, 唾液阳性率分别为10%、15%、40%、65%、85%和95%; 血清阳性率分别为35%、50%、80%、90%、100%和100%。感染后1~3周, 唾液阳性率与血清阳性率差异有统计学意义( $\chi^2=3.58、5.23、6.67, P<0.05$ ), 感染后4~6周, 两者差异无统计学意义( $\chi^2=0.12、1.03、1.03, P>0.05$ )。提示在血清标本采集困难的情况下, MLESA的间接ELISA法检测唾液中抗旋毛虫IgG抗体可作为旋毛虫病免疫诊断的辅助方法。

关键词 [旋毛虫](#); [肌肉幼虫](#); [排泄分泌抗原](#); [IgG](#); [唾液](#); [血清](#)

分类号

## IgG Antibody Level in Saliva from Rabbits Infected with *Trichinella spiralis*

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### Abstract

Twenty-eight Japanese big ear rabbits were randomly divided into control group and experimental group. Twenty rabbits in experimental group were each infected with 3 000 larvae of *Trichinella spiralis*. Serum and saliva samples were collected at pre-infection and every week after infection, and were examined for IgG antibody by indirect ELISA using *T. spiralis* muscle larvae excretory-secretory antigen (MLESA). At 1, 2, 3, 4, 5 and 6 weeks after infection, the positive rate in saliva samples was 10%, 15%, 40%, 65%, 85%, and 95%, respectively; and that of serum samples was 35%, 50%, 80%, 90%, 100%, and 100%, respectively. The positive rate was significantly different between saliva and serum samples at 1, 2 and 3 weeks post-infection

( $\chi^2=3.58, 5.23, 6.67, P<0.05$ ), but no significant difference at 4, 5, and 6 weeks post-infection ( $\chi^2=0.12, 1.03, 1.03, P>0.05$ ). The results indicate that the indirect ELISA using MLESA to detect IgG antibody in saliva may be helpful for clinical diagnosis of trichinellosis.

Key words [Trichinella spiralis](#); [Muscle larvae](#); [Excretory-secretory antigen](#); [IgG](#); [Saliva](#); [Serum](#)

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