

论著

应用斑点免疫金渗滤法检测旋毛虫病患者血清IgG

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摘要

目的 研究应用斑点免疫金渗滤法(DIGFA)快速检测旋毛虫病患者血清抗旋毛虫IgG抗体。方法 采用旋毛虫肌肉期幼虫膜抗原,以胶体金颗粒结合的羊抗人IgG为标记抗体,以颜色深浅为判断阳性标准。结果 纯化的旋毛虫肌肉期幼虫膜抗原与患者血清中特异性抗旋毛虫IgG抗体通过渗滤在硝酸纤维素膜上反应,10min内即可直接观察结果。在76份患者血清的检测中,阳性率为94.74%,与ELISA法的检出阳性率86.84%相比差异无显著性($\chi^2=2.83, P>0.05$)。交叉试验与重复试验结果显示DIGFA具有较好的特异性及稳定性。结论 DIGFA法可快速检测旋毛虫病患者血清特异性旋毛虫IgG抗体

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分类号

Application of Dot-immunogold Filtration Assay in Detection of IgG in Sera of Trichinellosis Patients

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Abstract

Objective To study a new quick method for detecting serum IgG against *Trichinella spiralis* (T.s). Methods Membrane antigen of muscle larva of T.s was isolated and combined with the nitrocellulose membrane. Goat anti-human IgG was conjugated with the golden pellets of colloidal state which was used as marked antibody for the experiment of dot-immunogold filtration assay to examine specific IgG. Results T.s IgG and its corresponding antigen reacted on the membrane by filtration, and the result could be observed with naked eyes within 10 min. In the examination of 76 clinical serum samples, the positive rate was (94.7%). It was not significantly higher than that of ELISA($\chi^2=2.83, P>0.05$). Conclusion The dot-immunogold filtration assay is rapid and simple for performing and reading in the detection of IgG against T.s with high sensitivity and specificity.

Key words [trichinellosis](#) [dot-immunogold filtration](#) [ELISA](#) [membrane antigen](#) [immunodiagnosis](#)

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