

论著

弓形虫病IgM免疫吸附凝集试验 (ISAGA) 的建立

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摘要

目的: 建立检测弓形虫 IgM 抗体的免疫吸附凝集试验 (ISAGA)。方法: U 型微孔板以适宜浓度的羊抗人 IgM 抗体包被, 用 1% 牛血清白蛋白封闭, 洗板后加入待测血清, 在 37℃ 孵育后洗涤, 加入弓形虫 (RH 株) 速殖子抗原悬液, 置 37℃ 过夜后观察结果, 将其与丹麦的 ISAGA 和 ELISA 检测的结果以及玻片 EIA 检测的结果作比较。结果: 本法与丹麦的试验检测丹麦孕妇 44 份血清, 总符合率为 93.2%; 与玻片 EIA 检测丹麦和上海孕妇 167 份血清, 总符合率为 92.5%, 两法的滴度之间明显相关 (γ = 0.589, P < 0.001), ISAGA 滴度较玻片 EIA 高 1.8 倍; 用 WHO 国际生物标准化实验室提供的标准的抗弓形虫人血清定量测得其灵敏度为 0.08 IU/ml。结论: IgM ISAGA 具有敏感性、特异性高, 操作简便等优点, 不仅可作为弓形虫急性感染和慢性感染活动期的一种检测手段, 而且适用于弓形虫感染调查的大规模筛选。

关键词 弓形虫 免疫诊断 IgM-ISAGA

分类号

ESTABLISHMENT OF IMMUNOGLOBULIN M(IgM)IMMUNOSORBENT AGGLUTINATION ASSAY (ISAGA) FOR DIAGNOSIS OF TOXOPLASMOSIS

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Abstract

AIM: To establish an immunosorbent agglutination assay (ISAGA) for detection of IgM antibodies against Toxoplasma gondii. METHODS: In the ISAGA, wells of microtiter plates were coated with anti-human IgM antibodies and sealed with 1% bovine serum albumin. After the test sera were added and incubated, the plates were washed, T. gondii tachyzoite antigen suspension was added, and incubated overnight at 37°C. The ISAGA results were evaluated by compar...

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