

论著

## 检测血清和脑脊液中囊尾蚴循环抗原诊断脑囊虫病的研究

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摘要

目的:用抗血清检测脑囊虫病患者血清和脑脊液(CSF)中囊尾蚴循环抗原(CAg)诊断脑囊虫病。方法:用SDS-PAGE提纯的蛋白质分子量为64 kDa、53 kDa、32 kDa~30 kDa的囊尾蚴抗原分别免疫家兔,制备相应的抗血清,以双夹心ELISA检测患者血清和CSF中CAg。结果:抗53 kDa抗原抗血清对32例脑囊虫病活动型患者血清和CSF中CAg的检出率分别为93.8%和91.7%,16例脑囊虫病非活动型患者仅1例CSF CAg阳性。CAg检出率明显高于用抗64 kDa、32 kDa~30 kDa囊尾蚴抗原抗血清检测的结果( $P < 0.05$ )。结论:抗53 kDa囊尾蚴抗原抗血清检测活动型脑囊虫病患者血清和CSF中的CAg敏感性较高,特异性较强,可用于活动型脑囊虫病的诊断和疗效考核。

关键词 [脑囊虫病](#) [循环抗原](#) [SDS-PAGE](#) [ELISA](#)

分类号

## DETECTION OF CIRCULATING ANTIGEN IN SERUM AND CEREBROSPINAL FLUID FOR DIAGNOSIS OF CEREBRAL CYSTICERCOSIS

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Abstract

AIM: To detect circulating antigen(CAg)in serum and cerebrospinal fluid(CSF)from patients with cerebral cysticercosis with specific antiserum by sandwich ELISA.METHODS: Antisera were prepared from rabbits immunized respectively with 3 antigens with molecule weights of 64 kDa,53 kDa,32 kDa~30 kDa extracted from Cysticercus cellulosae and purified by SDS PAGE.RESULTS: When samples from patients were tested with antiserum against 53 kDa antigen,the CAg positive rate was 93.8% in serum and 91.7% in CSF of 32 patients with active cysticercosis,whereas only one positive was found in CSF in 16 patients with inactive cysticercosis.The detection rate of CAg was significantly higher with anti 53 kDa antiserum than with anti 64 kDa and anti 32 kDa~30 kDa antiserum.CONCLUSION: Sandwich ELISA using antiserum against 53 kDa antigen to detect CAg was found to be a promising assay for diagnosis and evaluation of treatment efficacy of active cerebral cysticercosis in terms of its high sensitivity and specificity.

Key words [Cerebral cysticercosis](#) [CAg](#) [sandwich ELISA](#) [SDS PAGE](#)

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