

论著

中国HIV暴露未感者CD4+T淋巴细胞的体外抗HIV活性

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摘要 摘要: 目的 了解中国经性途径暴露于人类免疫缺陷病毒(HIV)而未感染者(ESN)的CD4+T淋巴细胞在体外的抗HIV活性,探讨中国ESN的抗HIV感染机制。方法 采用微量全血法分离培养HIV感染者的病毒株,密度梯度离心法分离ESN外周血单个核细胞后用MACS磁分选法分选出CD4+T淋巴细胞,与HIV感染者的病毒分离株共培养,检测共培养上清的HIV-1复制动力(p24抗原)。结果 ESN组CD4+T淋巴细胞对M嗜性分离毒株的复制动力显著低于健康对照组($P<0.05$); ESN组CD4+T淋巴细胞对M嗜性分离毒株的复制动力显著低于T嗜性分离毒株($P<0.05$); ESN组CD4+T淋巴细胞对T嗜性分离毒株及实验室毒株的感染能力与健康对照组相比差异无显著性($P>0.05$)。结论 中国ESN的CD4+T淋巴细胞对M嗜性病毒分离株有一定抵抗作用,可能是经性接触暴露未感者抗HIV感染的主要影响因素。

关键词 [人类免疫缺陷病毒](#) [暴露未感者](#) [M嗜性](#) [T嗜性](#)

分类号

Resistance to HIV-1 Infection of CD4+T Lymphocytes in vitro from Chinese HIV-1 Exposed Seronegative Individuals

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Abstract ABSTRACT: Objective To determine the relative resistance to HIV-1 infection of CD4+ T lymphocytes in HIV-exposed seronegative individuals (ESNs) in China. Methods HIV primary isolates were obtained from peripheral whole blood of HIV-infected persons. CD4+ T lymphocytes of Chinese ESNs were separated from peripheral blood mononuclear cells with magnetic cell sorting (MACS). The purified CD4+ T lymphocytes were cocultured with HIV primary isolates. The p24 level was detected and the culture medium was refreshed every 3 days within 2 weeks. Results For M tropic HIV strains, p24 level was significantly lower in ESN group than in control group ($P<0.05$); for some M tropic HIV strains, even no p24 replicated in ESN group. However, T tropic virus strains had no significant difference between these two groups ($P>0.05$). Conclusion CD4+ T lymphocytes of Chinese ESNs may possess relative resistance to M tropic HIV strains, which may be one of the main influencing factors that result in ESN.

Key words [human immunodeficiency virus](#) [exposed seronegative individual](#) [M-tropism](#) [T-tropism](#)

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