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欧意清热解毒软胶囊体外抗甲型H1N1流感病毒作用

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中文摘要:目的: 观察欧意清热解毒软胶囊抗甲型H1N1流感病毒作用, 寻求有效的抗甲型H1N1流感病毒作用的中药方剂, 为临床治疗甲型H1N1流感病毒感染提供理论依据。方法: 观察甲型H1N1流感病毒感染MDCK细胞后引起的细胞病变效应(CPE), 并用MT T法检测细胞活性, 采用治疗指数(TI)作为药物体外抗病毒效果的评价指标, 以奥司他韦(Osetamivir)作为阳性对照药物, 从药物对病毒入侵细胞的阻断作用、直接灭活作用及增殖抑制作用3种方式检测欧意清热解毒软胶囊抗甲型H1N1流感病毒的效果。结果: 清热解毒软胶囊可以明显抑制甲型H1N1流感病毒引起的细胞病变效应(CPE), 对甲型H1N1流感病毒入侵细胞的阻断作用、直接灭活作用及增殖抑制作用的TI分别为(15.5±0.71), (0.55±0.07), (6.4±1.27); 达非3种作用方式的TI分别为(0.4±0.14), (1.88±0.29), (4.6±0.15)。结论: 与达菲比较, 清热解毒软胶囊体外具有明显的阻断甲型H1N1流感病毒入侵细胞作用(P<0.01), 其抗流感病毒主要机制可能是阻断病毒入侵细胞, 对细胞具有保护作用, 进一步的效果需要体内实验证实。

中文关键词: 甲型H1N1流感病毒 MDCK细胞 奥司他韦 清热解毒软胶囊

Antiviral activity of Ouyi Antipyretic detoxicate soft capsule against influenza a virus H1N1 in vitro

Abstract: Objective: Our study aims to evaluate the antiviral effects of Ouyi antipyretic detoxicate soft capsule against influenza A virus H1N1 *in vivo*, so as to find an effective Chinese medicinal formulae for the treatment of the virus infection, which may lay a theoretical foundation for clinic treatment of patient infected with Influenza A Virus H1N1. Method: With the observation of cytopathic effect (CPE) that induced by virus, we investigated viral inhibition rate by MTT colorimetric assay and valued antiviral activity of drugs by therapeutic index (TI). Meanwhile, Osetamivir phosphate capsule (Tamiflu) was used as positive control, we carried out experiments through the three ways of preventive effect, direct inactivation and propagation inhibition. Result: Ouyi antipyretic detoxicate soft capsule could effectively inhibit cytopathic effect (CPE) that induced by Influenza A Virus H1N1. The preventive effect, direct inactivation, and inhibition of endogenous multiplication of Ouyi antipyretic detoxicate soft capsule and Tamiflu against influenza A virus H1N1 were observed. And three types of action therapeutic index (TI) from Ouyi antipyretic detoxicate soft capsule were (15.5±0.71), (0.55±0.071), (6.4±1.27) severally, comparing Tamiflu with (0.4±0.14), (1.88±0.29), (4.6±0.15), respectively. Conclusion: Ouyi antipyretic detoxicate soft capsule showed more remarkable preventive effect than Tamiflu *in vitro* (P<0.01). The possible mechanism of the antiviral activity observed in our study might be the protection of the MDCK cells from viral infection by inhibiting the viral absorption. We need a further study to certify three effects *in vivo*.

keywords: influenza A Virus H1N1 MDCK cells osetamivir antipyretic detoxicate soft capsule

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