

论文

白细胞三烯拮抗剂ONO-1078对豚鼠迷走神经电刺激引起气道痉挛及微血管渗漏作用

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摘要:

阿托品预先处理的豚鼠,电刺激迷走神经(10Hz,5ms,2V或10V,90s)引起气道阻力增高,气管、主支气管和肺内气道的依文思蓝渗出量增加,并随刺激强度加大而增强。白细胞三烯拮抗剂ONO-1078(0.03,0.1mg·kg⁻¹,iv)对气道阻力的增高无明显影响;但显著抑制微血管渗漏,在刺激强度低(2V)时更明显。结果提示白细胞三烯类参与神经原性炎症时的气道微血管渗漏反应。

关键词: 4-氧-8-[对-(4-苯丁氧基)苯甲酰氨基]-2-(5-四唑基)-4H-1-苯并吡喃半水合物(ON

EFFECT OF A LEUKOTRIENE ANTAGONIST,ONO-1078,ON ELECTRIC STIMULATION OF VAGUS(ESV)-INDUCED DRONCHO CONSTRICTION AND MICROVASCULAR LEAKAGE IN GUINEAPIGSEQ

Wei;YCwang;LP Chen;FD Tang and RL Bian

Abstract:

In atropine-pretreated guinea pigs, electric stimulation of vagus(ESV,10 Hz,5ms,2V or 10V,for 90s) increased intrapulmonary pressure(IPP),and Evans blue extravasationin trachea,main bronchi,peripheral and distal intrapulmonary airways in a voltage-dependentmanner.ONO-1078,a noval leukotriene antagonist,(0.03 and0.1mg·kg⁻¹,iv)showed noremarkable inhibiting effect on ESV-induced increase of IPP.However,the agent significantlyinhihited ESV-induced increase of Evans blue extravasation in the airways,especially in lower potencyof stimulation(2V).The results suggest that leukotrienes may be involved in airway microvascularleakage in response to neurogenic inflammation.

Keywords: Leukotriene Electric stimulation of vagus Microvascularpermeability 4-Oxo-8-[p-(4-phenylbutyloxy)benzoylamino]-2-(tetrazol-5-yl)-4H-1-benzo-pyran hemihydrate(ONO-1078)

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