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[1]魏艳,刘芬,程欣,等.噻托溴铵联合布地奈德福莫特罗对中度哮喘患者82受体的调节作用[J].第三军医大学学报,2013,35(11):1152-1155.



Wei Yan, Liu Fen, Cheng Xin, et al. Tiotropium combined with budesonide formoterol regulates 82 receptor in moderate asthma patients: report of 84 cases[J]. J Third Mil Med Univ, 2013, 35(11):1152-1155.



制

噻托溴铵联合布地奈德福莫特罗对中度哮喘患者B₂

分享到:

《第三军医大学学报》[ISSN:1000-5404/CN:51-1095/R] 卷: 35 期数: 2013年第11期 页码: 1152-1155 栏目: 论著 出版日期: 2013-06-15

Title: Tiotropium combined with budesonide formoterol regulates B_2

receptor in moderate asthma patients: report of 84 cases

作者: 魏艳; 刘芬; 程欣; 刘春涛

四川大学华西医院: 临床药物试验中心, 呼吸内科; 滕州市中心人民医院呼吸内科

Author(s): Wei Yan; Liu Fen; Cheng Xin; Liu Chuntao

Center of Clinical Drug Trial, Department of Respiratory Diseases, West China Hospital, Sichuan University, Chengdu, Sichuan Province, 610041; Department of Respiratory Diseases, Tengzhou Central Hospital, Tengzhou, Shandong Province,

277500, China

关键词: 支气管哮喘;布地奈德福莫特罗;噻托溴铵;肾上腺素能受体;胆碱能受体

Keywords: bronchial asthma; budesonide formoterol; tiotropium; adrenergic receptor;

cholinergic receptor

分类号: R562.25;R974.3;R977.11

文献标志码: A

摘要: 目的 观察联合应用吸入性糖皮质激素/长效B2受体激动剂(inhaled

corticosteroid/long-acting ${\it B_2}$ agonist,ICS/ LABA)和长效抗胆碱能拮抗剂(long-acting antimuscarinic agent,LAMA)对中度哮喘患者外周血淋巴细胞 ${\it B_2}$ R的调节作用

及意义。 方法 将初治中度持续性哮喘患者分为ICS/LABA组和ICS/LABA+LAMA组,给药前后测定肺功能、ACT评分及AQLQ评分,Western blot检测外周血淋巴细胞 B₂受体、M₃受体、PLCB₁水平。 结果 84例患者给药24周时2组FEV₁值、ACT评

分、AQLQ评分均有明显提高,且ICS/LABA+LAMA组较ICS/LABA组改善更为显著 (P<0.05)。Western blot检测结果显示,治疗24周后ICS/LABA组外周血淋巴细胞较治疗前 B_2 AR水平略有下降(P>0.05); ICS/LABA+LAMA组外周血淋巴细胞 B_2 AR水平较治疗前变化不大(P>0.05); ICS/LABA组外周血淋巴细胞 B_3 R、PLC B_1 蛋白表达水平较治疗前逐渐升高(P<0.05); ICS/LABA+LAMA组 B_3 R、PLC B_1 蛋白表达水平较治疗前明显降低 B_2 受体激动剂的长期使用使哮喘患者出现气道高反应性增

高、支气管保护效应下降、急性发作次数增加和病死率上升的现象,可能与 M_3R 及其通路的活化/表达上调和 B_2 受体出现脱敏有关,联合LAMA通过拮抗 M_3R 有可能恢复对 B_2 受体激动剂的敏感性,从而抵消由于 B_2 受体脱敏和 M_3R 及其通路活化引起的不良反应。

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Abstract:

Objective To investigate the role of the combination of inhaled corticosteroid/long-acting B_2 agonist (ICS/LABA) and long-acting anti-cholinergic drugs (LAMA) in regulation of peripheral blood lymphocytes from patients with moderate asthma. Methods A total of 84 moderate persistent asthma outpatients (with asthma over 1 year, 40% SFEV, % 60%) in the department of respiratory diseases, West China Hospital during November 2010 to December 2011 were randomly and equally divided into ICS/LABA group and ICS/LABA+LAMA group. Pulmonary function, asthma control test (ACT) score and asthma quality of life questionnaire (AQLQ) score were measured before and after administration. Western blotting was used to analyze B_2 receptor, M_3 receptor and PLCB₁ in peripheral blood lymphocytes. The FEV₁ value, ACT score, and Results AQLQ score of the 84 patients were significantly improved after 24 weeks? administering in both groups. Meanwhile, ICS/LABA/LAMA group improved more significantly (P<0.05 in all). B₂AR decreasing trend in ICS/LABA group was not obvious, the protein expression of $\mathrm{M_3R}$ and $\mathrm{PLCB_1}$ was increased, and in ICS/LABA/LAMA group, B₂AR level was unchanged the M₃R was significantly decreased, and PLCB₁ was noticeably increased. Conclusion Long-term administration of B_2 agonists may lead to the increased airway hyperresponsiveness, reduce bronchial protection effect, increase risks for acute exacerbation, and higher incidence of mortality. This phenomenon may be related to the activation or up-regulation of M₃R and its pathway and desensitization of B_2 receptors. Combining with LAMA, the sensitivity of B_2 agonists might restore the antagonizing M₃R, which therefore offset the adverse reactions caused by the desensitization of B_2 receptor, as well as activation of

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