

论文

太原市秋季气传致敏花粉种类和含量与楼层关系分析

王宁, 张克军, 王斌全, 成娜莎, 刘太琴

山西医科大学第一临床医院耳鼻喉科, 太原 030001

摘要:

目的 调查分析太原市秋季气传致敏花粉的种类、含量与不同楼层之间的关系。方法 在2008年8月1日至9月30日, 在太原市中心同一地区采用曝片法收集花粉, 将取样器分别安放于四面通风的4、7、17层楼顶, 对比观察不同楼层的花粉含量。结果 按花粉含量多少排序, 4层(12米)>7层(21米)>17层(51米); 对不同楼层花粉含量做分析, 4层与7层花粉数目比较, P>0.05; 4层与17层、7层与17层比较, P<0.05; 4、7层花粉种类相同, 17层花粉种类减少。结论 17层(51米)的花粉含量、种类较4层、7层明显减少, 住高层住宅可减少花粉的吸入量。

关键词: 秋季气传致敏花粉; 种类; 含量; 不同楼层; 曝片; 季节性变应性鼻炎

A survey of the relationship between the type and content of autumn airborne pollen and floors in Taiyuan

WANG Ning, ZHANG Ke jun, WANG Bin quan, CHENG Na sha, LIU Tai qing

Department of Otorhinolaryngology & Head and Neck Surgery, First Clinical Hospital, Shanxi Medical University, Taiyuan 030001, China

Abstract:

Objective To explore the relationship between the type and content of autumn airborne pollen and floors in Taiyuan. Methods Airborne pollens were continuously collected using an exposed glass method at three collecting spots in the same district in the centre of the city from August 1st to September 30th in 2008. The samples were separately placed on the well-ventilated building roofs of the 4th, 7th and 17th floors. Results The samples were sequenced according to the pollen content: the 4-th-floor (12 meters) > the 7-th-floor (21 meters) > the 17-th-floor (51 meters). The content of airborne pollen was not statistically different between 4-floored buildings and 7-floored buildings (P>0.05) while it was significantly lower in 17-floored buildings than in 4-floored buildings and 7-floored buildings (P<0.05). The genera of airborne pollens of 4-floored buildings and 7-floored buildings were approximately the same, while of 17-floored buildings were reduced. Conclusion The type and content of airborne pollens on the 17-th-(51 meters) floor are obviously reduced compared with those of the 4-th-floor and the 7-th-floor. High rise residential living can reduce the amount of pollen inhalation.

Keywords: Autumn of airborne pollen allergens; Type; Content; Different floors; Exposed glass; Seasonal allergic rhinitis

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作者简介: 王宁(1970-), 女, 主管技师, 本科, 主要从事变应性鼻炎基础理论与临床研究。 E-mail: wangningbaoma@yahoo.com

作者Email:

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