

论文

响应曲面模型在麻醉药合用中药物-药物相互作用研究的进展

管峥;毕姗姗;杨璐;张利萍;周田彦;卢炜

北京大学 1. 药学院, 2. 天然药物及仿生药物国家重点实验室, 3. 第三医院, 北京 100191

摘要:

响应曲面法是一种研究药物-药物相互作用的有效而新颖的方法。当两种药物以不同比例合用时, 这种方法可表述药效响应曲面的关键特征, 发现曲面中的响应最优区域, 揭示药物间相互作用的机制, 以达到指导临床合理用药, 降低用药风险和用药成本的目的。本文以麻醉药为例介绍了响应曲面法的相关概念、模型结构及其在模型化解析和临床实践中研究的进展。

关键词: 响应曲面模型 麻醉药物 药物-药物相互作用

Progress in the study of response surface modeling in investigation of drug-drug interaction in anesthetic drugs

GUAN Zheng¹; BI Shan-shan¹; YANG Lu³; ZHANG Li-ping³; ZHOU Tian-yan¹; LU Wei^{1;2}

Abstract:

As a novel and effective approach, response surface model is used in the study of drug-drug interactions. When two drugs are used simultaneously, this model can be applied to estimate the key characters of the response surface, to find the desired response region by optimal drugs combination, to explore the mechanism of drug-drug interactions, and thus to guide sound clinical application and reduce the risk and cost. In this article, the model's basic mathematical and pharmacological concepts are introduced, and its research progresses are reviewed.

Keywords: anesthetic drug drug-drug interaction response surface model

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作者简介:

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