

论文

间氯苯哌嗪诱导的小鼠明暗箱焦虑模型一种新的经济简便抗焦虑药筛选模型

谭德讲;武永敬明;小友进

1.中国药品生物制品检定所,北京 100050;2.日本大正制药株式会社综合研究所,日本 330-8530

摘要:

目的 建立经济简便的抗焦虑药模型。方法 用间氯苯哌嗪(mCPP)诱导产生焦虑,观察ddy小鼠和ICR小鼠在明暗箱的行为表现。结果 mCPP在sc 1~4 mg.kg⁻¹的剂量下即可显著降低ddy小鼠在明箱的活动次数,而对暗箱的活动次数影响不显著; mCPP在sc 2~10 mg.kg⁻¹的剂量下对ICR小鼠在明箱的的活动次数影响不明显;用地西洋对该模型进行验证,发现只用较小的样本量即可得出显著结果。结论 ddy小鼠可取代Wistar大鼠进行mCPP诱导焦虑的明暗箱模型,且简便易得,经济有效。

关键词: 间氯苯哌嗪 地西洋 焦虑模型 ddy小鼠 ICR小鼠

m-CHLOROPHENYLPIPERAZINE-INDUCED ANXIETY MODEL IN LIGHT-DARK BOX IN DDY MICE A NEW ECONOMIC AND SIMPLE METHOD FOR SCREENING ANXIOLYTICS

TAN De-jiang;Takaaki Takenaga; Susumu Otomo

Abstract:

AIM To develop a new economic and simple anxiety model that mimics clinical conditions for screening and studying anxiolytic agents. METHODS The behavior activity of ddy and ICR mice in light-dark box was observed after sc m-chlorophenylpiperazine(mCPP) to induce anxiety. RESULTS mCPP was shown to significantly decrease the activity of ddy mice in light box after sc 1~4 mg.kg⁻¹, but the activity in dark box was not significantly changed. No significant difference was found in the light box between the 1 mg.kg⁻¹ and the 4 mg.kg⁻¹ group. mCPP showed little effect on the activity of ICR mice in the light box, but it was shown to significantly decrease the activity in the dark box between 2~10 mg.kg⁻¹. It is easy to show the anxiolytic effect of diazepam only in a small sample by using ddy mice in this model. CONCLUSION It is easy to get effective result by using only a small sample in the light-dark box after mCPP-induced anxiety in ddy mice. It appears that this model is an economic and simple anxiety model that mimics clinical conditions for screening and studying anxiolytic agents.

Keywords: diazepam, anxiety model ddy mice ICR mice m-chlorophenylpiperazine (mCPP)

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作者简介:

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