

方法技术

## 改良Cuff技术建立小鼠颈部异位心脏移植模型

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收稿日期 修回日期 网络版发布日期 接受日期

摘要

目的 改进Cuff技术制作小鼠颈部异位心脏移植模型，以简化手术操作，提高手术成功率。方法 使用自制套管将供心肺动脉套接于受体右颈外静脉，将供心升主动脉套接于受体右颈总动脉。结果 正式实验40例，手术成功率92.5%。手术时间约60min，供心冷缺血时间小于30min。结论 改良Cuff技术建立小鼠颈部异位心脏移植模型，无需显微外科操作，是一种经济实用、稳定可靠、易于复制的动物模型。

关键词 [Cuff技术](#)；[心脏移植](#)；[异位移植](#)；[小鼠模型](#)

分类号

## A model of cervical heterotopic heart transplantation in mice by modified Cuff technique

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Abstract

Objective To simplify surgical technique and increase postoperative survival rate, improved Cuff technique was used in making the model of cervical heterotopic heart transplantation in mice. Methods By using self-made cuffs, the donor pulmonary artery was anastomosed to the recipient right external jugular vein, the donor ascending aorta was anastomosed to the recipient right common carotid artery. Results Forty formal transplantsations have been performed with a successful rate of 92.5%. The operative time was about 60min, the cold ischemic time for donor heart was shorter than 30min. Conclusion The model of cervical heterotopic heart transplantation in mice by modified Cuff technique is an economical, practicable, reliable and high reproducible animal model, and can be operated by surgeons without professional microsurgery technique.

Key words [Cuff technique](#) [Heart transplantation](#) [Heterotopic transplantation](#) [Mouse model](#)

DOI :

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