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Manuscript NO: 37786

Manuscript Type: Minireviews

Anastomotic techniques for rat lung transplantation

Rajab TK. New technical safeguards evolving the cuffed technique

Taufiek Konrad Rajab

Abstract

The first lung ¹transplantation in the rat was achieved by Asimacopoulos *et al* using sutured anastomoses in 1971. Subsequent development of a cuffed technique to construct the anastomoses by Mizuta and colleagues in 1989 represented a breakthrough that resulted in simplification of the procedure and shorter warm ischemic times. Since then, a number of further variations on the technique of rat lung



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Improved outcome of rat lung transplantation with modification of the nonsuture external cuff technique.

A Reis, A Giaid, C Serrick, H Shennib - ... and lung transplantation ..., 1995 - europepmc.org
... Improved outcome of rat lung transplantation with modification of the nonsuture external cuff ...
bronchography did show signs of airway stricture at the site of the anastomosis. CONCLUSION:
We conclude that the nonsuture external cuff technique with Teflon devices represents a ...

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Lung transplantation in the rat: I. Technique and survival

KW Marck, CRH Wildevuur - The Annals of thoracic surgery, 1982 - Elsevier
... An adequate anticoagulation therapy, as has been applied to the dog model, might improve the
postoperative ... Comparison of Figures 6 and 7 suggests a slight improvement in postoperative
survival in the ... Ann NY Acad Sci 99:795, 1962 6. Lee S; An improved technique of renal ...

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A technique for accessory cervical heart transplantation in rabbits and rats

I Heron - APMIS, 1971 - Wiley Online Library
... were mainly due to excessive haemorrhage emerging from the aortic suture anastomoses,
resulting in a ... series of kidney grafting experiments a similar end-to-side vascular anastomosis
technique was used ... 4. Lee, S.; An improved technique of renal trans- plantation in the rat ...

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Simplified rat lung transplantation using a cuff technique.

T Mizuta, A Kawaguchi, K Nakahara... - The Journal of thoracic ..., 1989 - europepmc.org

... Simplified rat lung transplantation using a cuff technique. (PMID:2648080).

PMID:2648080 ... Abstract. A cuff technique is introduced to anastomose pulmonary vein and pulmonary artery in rat lung transplantation. In 11 consecutive ...

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Improved outcome of rat lung transplantation with modification of the nonsuture external cuff technique.

A Reis, A Giaid, C Serrick, H Shennib - ... and lung transplantation ..., 1995 - europepmc.org

... however, bronchography did show signs of airway stricture at the site of the anastomosis.

CONCLUSION: We conclude that the nonsuture external cuff technique with Teflon devices represents a ... safe, and fast method for performing orthotopic left lung transplantation in the rat ...

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Lung transplantation in the rat: I. Technique and survival

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... infarction of the left lung was seen with a thrombus attached to both anastomoses ... Optimal techniques for the bronchus anastomosis as reported in the dog-a short bronchus ... No postoperative complications of the bronchus anastomosis have been experienced in these series ...

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... of surgical procedures for vascular and airway anastomoses that utilize a "modified" non-suture external cuff technique for experimental lung transplantation in rats

T Mizobuchi, Y Sekine, K Yasufuku... - ... lung transplantation, 2004 - jhltonline.org

... ion in rats is technically difficult and results may vary.

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Simplified rat lung transplantation by using a modified cuff technique.

<https://www.ncbi.nlm.nih.gov/pubmed/18197532> - 翻译此页

作者: W Zhai - 2008 - 被引用次数: 22 - 相关文章

Mizuta's cuff **technique** in **rat lung transplantation** (LT) model has some disadvantages, such as twisting of blood vessels or bronchus and being time-consuming, which complicate procedures for **anastomosis**. This study was performed to investigate the advantage of using a simplified cuff **technique** in LT. The **anastomosis** ...

Simplified rat lung transplantation using a new cuff technique. - NCBI

<https://www.ncbi.nlm.nih.gov/pubmed/22632516> ▼ 翻译此页

作者: T Goto - 2012 - 被引用次数: 8 - 相关文章

Next, the cuffs are anastomosed by interposing pieces of the donor's descending aorta. **Anastomosis** time is markedly reduced to approximately 10 minutes. Transplantations were completed in 8 **rats** without technical errors. This **rat lung transplantation technique** is a straightforward method any surgeon can perform.

The orthotopic left lung transplantation in rats: a valuable experimental ...

<https://www.ncbi.nlm.nih.gov/pubmed/18764833> ▼ 翻译此页

作者: QC Zhang - 2008 - 被引用次数: 9 - 相关文章

In this study, we introduced a new procedure in the **rat**, orthotopic left **lung transplantation** without using the cuff **technique**, in which the donor pulmonary artery, ... a second, low-pressure perfusion through the pulmonary artery and turnover of the vascular stump were made, which also made the vessel **anastomosis** easy.

Technical Modifications of the Orthotopic Lung Transplantation Model ...

www.archbronconeumol.org/...lung-transplantation/.../S1579212911000954... ▼ 翻译此页

作者: N Santana Rodríguez - 2011 - 被引用次数: 4 - 相关文章

The **transplanted** lungs showed proper perfusion and ventilation with good permeability of the **anastomoses**.