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- 1** **Crossref** 49 words
Pelle Hanberg, Mats Bue, Andrea René Jørgensen, Maja Thomsen, Kristina Öbrink-Hansen, Kjeld Søballe, Maiken Stilling 1%
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- 3** **Internet** 12 words
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Name of Journal: *World Journal of Gastrointestinal Pathophysiology*

Manuscript NO: 60364

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Influence of anastomoses on intestine ischemia and cefuroxime concentrations: evaluated in ileum and colon in a porcine model

Anastomosis *vs* non-anastomosis

Abstract

BACKGROUND

Anastomotic leakage is a serious complication to gastrointestinal surgery associated with increased morbidity and mortality. The incidence of anastomotic leakage is determined by anatomy and reported between 4-33% for colon anastomosis and 1-3% for small intestine anastomosis. The etiology of anastomotic leakage of the intestine has been divided into three main factors: healing disturbances, communication between

Influence of anastomoses on intestine ischemia and cefuroxime co



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Objective . To evaluate the possible biological effect of allogenic mesenchymal stem cells (MSCs) combined with tissue fusion technology on the anastomosis. Methods . Sixteen pigs were divided into a 7 d group and 14 d group, each of which was further subdivided into an MSC-treated group and a control group. Five **anastomoses** per animal were established using LigaSure ForceTriad (Covidien, MA ...

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Author: Hong Pan, Ping Keun Lam, See W Tong, Ke...

Publish Year: 2020

Ischemic preconditioning improves stability of intestinal ...

<https://www.researchgate.net/publication/24312487...>

Since this maneuver might impair healing of bowel **anastomoses**, we **evaluated** its **influence** on the healing of colonic anastomosis in rats. ... in this experimental **model** of **ischemic colon** ...

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The object of this experimental study was to develop a **model** of anastomotic failure due to primary leakage and **ischemia** in **porcine** large bowel anastomosis. End-to-end anastomosis was constructed ...

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The Effects of Systemic Hypoxia on Colon Anastomotic ...

<https://www.researchgate.net/publication/7832665...>

Conclusions: The high expression in IL-1 β and IL-10 levels in **small bowel and colon** might explain the accelerated healing process in these wounds in comparison to skin and muscle tissues.

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Use of a **porcine model** indicates the patch is safe and effective and demonstrated improvement in mitochondrial function and normalization of mucosal transport after wrapping the anastomosis with the patch. 67 Other results indicate its safety of use, some promotion of microscopic wound healing, but without a change in anastomotic strength at 30 days in the pig. 68 This anastomotic adjunct also ...

[Mesenchymal Stem Cells Combined with Tissue Fusion ...](#)

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Burst pressure assessments of intact **anastomoses** showed no significant difference between the two groups. Previous studies that used a **porcine model** reported burst pressures ranging from 10 to 70 mmHg [12–14]. As compared with these pressures, those found in our study were much higher, especially at the 14 d timepoint.

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Author: Hong Pan, Ping Keun Lam, See W Tong, Ke...

Publish Year: 2020

[Growth hormone selectively improves intestinal cholesterol ...](#)

<https://www.sciencedirect.com/science/article/pii/S0022346804002684>

Aug 01, 2004 · Autotransplantation of the **ileum** in pigs with proximal **small bowel** resection is associated with severe malabsorption of bile acids and cholesterol, leading to a compensatory increase in the synthesis of cholesterol.3, 4 Malabsorption of bile acids and cholesterol along with increased cholesterol synthesis also occurs after extrinsic denervation ...

Cited by: 1

Author: Mikko P. Pakarinen, Mikko P. Pakarinen, Pa...

Publish Year: 2004

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