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Basic Study

Novel magnetic compression technique for establishment of tracheoesophageal fistula model in canine

Gao Y *et al.* Tracheoesophageal fistula model using magnetic compression

Yi Gao, Rong-Qian Wu, Yi Lv, Xiao-Peng Yan

Abstract

BACKGROUND

Clinically, tracheoesophageal fistula (TEF) is lack of effective surgical strategies. One reason is due to the lack of appropriate animal models of acquired TEF, which is usually complex and difficult. Recently, magnetic compression technique has been applicated for digestive tract anastomosis or vascular anastomosis in animals. In this study, the animal model of TEF in dogs were tried by using magnetic compression technique, hoping to provide a new method for mimicking TEF.

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The **magnetic compression technique** is a simple, minimally invasive, and **feasible method** for developing a **canine model of tracheoesophageal fistula**. This **canine model** is suitable for exploring the efficacy and safety of surgical interventions for **tracheoesophageal fistula**.

Author: Yanchao Zhang, Yi Lv, Xiaopeng Yan **Publish Year:** 2018

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Background. The management of acquired benign tracheoesophageal fistula (TEF) and bronchogastric stump fistula (BGSF) is a challenge. This study aimed to assess the "double-patch" technique with or without esophageal mucosa in treating nonmalignant TEF and BGSF.