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Basic Study

Fedora-type magnetic compression anastomosis device for intestinal anastomosis

Chen H *et al.* Fedora-type magnetic compression anastomosis device

Huan Chen, Tao Ma, Yue Wang, Hao-Yang Zhu, Zhe Feng, Rong-Qian Wu, Yi Lv, Ding-Hui Dong

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Background: **Magnetic compression anastomosis (magnamosis)** uses a pair of self-centering **magnetic Harrison Rings** to create an **intestinal anastomosis** without sutures or staples. We report the first-in-human case series using this unique **device**.

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Magnetic compression anastomosis (magnamosis) uses a pair of self-centering **magnetic "Harrison Rings"** to create an **intestinal anastomosis** without **sutures** or staples. Each **magnet** is placed within the **lumen** of a desired segment of the **intestine** and brought together, or "**mated**."

Magnetic Compression Anastomosis (Magnamosis): First-In ...

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End-to-end vascular anastomosis using a novel magnetic ...

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Apr 06, 2020 · **Magnetic compression anastomosis (MCA)** has been appreciated as an innovative alternative to manual suturing in vascular reconstruction. However, **magnetic devices** have limitations in their ...

Author: Qiang Lu, Kang Liu, Wei Zhang, Tao

Publish Year: 2020

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Magnetic Compression Anastomosis (Magnamosis) for ...

<https://pubmed.ncbi.nlm.nih.gov/28976806>

Introduction: **Magnamosis forms a compression anastomosis** using self-aligning **magnetic Harrison rings**. The **device** has been approved by the Food and Drug Administration for first-in-human testing and has been applied in adults for **intestinal anastomosis** during urologic reconstructions.

First-In-Human-Pilot-Trial-for-Magnetic-Compression ...

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Sep 28, 2017 · **Magnetic compression anastomosis (magnamosis)** uses a pair of self-centering **magnetic "Harrison Rings"** to create an **intestinal anastomosis** without **sutures** or **staples**. Each **magnet** is placed within the **lumen** of a desired segment of the **intestine** and brought together, or "**mated**."

Magnetic Compression Anastomosis (Magnamosis): First-In ...

<https://www.sciencedirect.com/science/article/pii/S1072751517317015>

Nov 01, 2017 · To form an **anastomosis**, a single **magnetic Harrison Ring** is placed within the lumen of each segment of **intestine** where the **anastomosis** is desired. When the 2 rings are mated, the **interposed tissue is compressed**, causing necrosis and **anastomosis formation**. The **device** passes through the newly formed **anastomosis** and leaves no foreign bodies.

Cited by: 14

Author: Claire E. Graves, Catherine Co, Ryan S. Hsi, ...

Publish Year: 2017

Magnetic Compression Anastomosis (Magnamosis): First-In ...

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Magnamosis III: delivery of a magnetic compression ...

<https://pubmed.ncbi.nlm.nih.gov/22703808>

Purpose: Magnamosis creates a secure sutureless **anastomosis** through **magnetic compression**. In this study, we further develop and test delivery **devices** capable of creating a secure duodeno-colonic **anastomosis** using available minimally invasive endoscopic techniques. Methods: Eight pigs underwent general anesthesia. Colonoscopy was used to deliver ...

Magnetic Compression Anastomosis (Magnamosis) for ...

<https://www.liebertpub.com/doi/10.1089/lap.2017.0300>

Dec 01, 2017 · Introduction: Magnamosis forms a **compression anastomosis** using self-aligning **magnetic Harrison rings**. The **device** has been approved by the Food and Drug Administration for first-in-human testing and has been applied in adults for **intestinal anastomosis** ...

Cited by: 4 **Author:** ToselliLuzia, Martinez-FerroMarcelo, Cerv...

Publish Year: 2017

Magnetic Compression Anastomosis (Magnamosis): First-In ...

<https://www.sciencedirect.com/science/article/abs/pii/S1072751517317015>

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