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Basic Study

Sleeve gastrectomy ameliorates endothelial function and prevents lung cancer by normalizing endothelin-1 axis in obese and diabetic rats

Ruze R *et al.* SG ameliorates ET-1 axis

Rexiati Ruze, Ya-Cheng Xiong, Jian-Wen Li, Ming-Wei Zhong, Qian Xu, Zhi-Bo Yan, Jian-Kang Zhu, Yu-Gang Cheng, San-Yuan Hu, Guang-Yong Zhang

Abstract

BACKGROUND

Previous evidence has implied that obesity is an independent risk factor for developing cancer, and being closely related to obesity, type 2 diabetes mellitus provides a suitable environment for the formation and metastasis of tumors through multiple pathways. Though bariatric surgeries are effective in preventing and lowering the risk of various types of cancer, the underlying mechanisms of this effect

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normalizing endothelin-1 axis in obese and diabetic rats



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Author: Rishat Ruzi, Yacheng Xiong, Jianwen ... **Publish Year:** 2020

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6316552>

Dec 04, 2018 · The cumulative result of the aforementioned actions is a reduction of vascular inflammation and enhanced **endothelial function**. In studies with **diabetic** patients , healthy **obese** men , and healthy adult smokers , resveratrol showed beneficial effects on the lipid profile of the subjects, yet this result was achieved through the supplementation of ...



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Author: Rishat Ruzi, Yacheng Xiong, Jianwe... **Publish Year:** 2020

[De novo gastric adenocarcinoma 1 year after sleeve ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4818282>

In the past 20 years there have been few studies reporting malignancies after bariatric surgery , , with only 2 reported cases of esophago-gastric adenocarcinoma after **sleeve gastrectomy** , . The aim of this study is to report a case of de novo gastric adenocarcinoma occurring in a transplant patient 1 year after **sleeve gastrectomy**.

Cited by: 4 **Author:** M. Masrur, E. Elli, L.F. Gonzalez-Ciccar...

Publish Year: 2016

[Sleeve gastrectomy - Mayo Clinic - Mayo Clinic](#)

<https://www.mayoclinic.org/tests-procedures/sleeve-gastrectomy/about/pac-20385183> ▾**Overview**

Why It's Done

Risks

How You Prepare

What \



Sleeve gastrectomy, also called a vertical sleeve gastrectomy, is a surgical weight-loss procedure. This procedure is typically performed laparoscopically, which involves inserting small instruments through multiple small incisions in the upper abdomen. During sleeve gastrectomy, about 80 percent of the stomach is removed, leaving a tube-shaped stomach about the size and shape of a banana. Limiting the size of your stomach restricts the amount of food you are able to consume. In

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Sleeve gastrectomy ameliorates endothelial function anc



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Published: 14 Feb 2020 | Version 3 | DOI: 10.17632/vj5469pmv6.3

Author: Rishat Ruzi, Yacheng Xiong, Jianwen ... **Publish Year:** 2020

[Extracellular vesicles in obesity and diabetes mellitus ...](#)

<https://www.sciencedirect.com/science/article/pii/S0098299717301073>

Interestingly, **obese** patients treated with **sleeve gastrectomy** reduced their BMI in ~30% in 12 months (from 47.5 to 34 kg/m²) and showed lower plasma level of platelet-, **endothelial**-, and leukocyte-derived microparticles (Campello et al., 2016).

Cited by: 37

Author: Fabián Pardo, Fabián Pardo, Roberto Vill...

Publish Year: 2017

[Sleeve gastrectomy prevents lipoprotein receptor-1 ...](#)

<https://www.researchgate.net/publication/51710276...>

Sleeve gastrectomy prevents lipoprotein receptor-1 expression in aortas of **obese rats** Article in World Journal of Gastroenterology 17(32):3739-44 · August 2011 with 17 Reads How we measure 'reads'

[Hemostatic effect of acylated ghrelin in ... - ResearchGate](#)

<https://www.researchgate.net/publication/328296687...>

To assess changes in adipose hormones and dietary habits in **obese** patients after **sleeve gastrectomy**. The study set comprised 37 subjects (29 females and 8 males) 24 to 68 years old with body mass ...

Author: Mohamed Morsy

[Ghrelin Restores the Endothelin 1/Nitric ... - ResearchGate](#)

<https://www.researchgate.net/publication/26853583...>

Studies conducted by our group have shown that, in patients with obesity-related metabolic syndrome, ghrelin improves **endothelial function** (16) by restoring the NO/ET-1 balance (42). Furthermore ...