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Name of Journal: *World Journal of Diabetes*

Manuscript NO: 58775

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Effect of liraglutide on endoplasmic reticulum stress in the renal tissue of type 2 diabetic rats

Zhao XY *et al.* Liraglutide effect on diabetic rats' kidney

Xuan-Ye Zhao, Ting-Ting Yu, Sheng Liu, Yao-Ji Liu, Jing-Jin Liu, Jie Qin

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Nov 08, 2013 · 1. Introduction. The prevalence of diabetes mellitus is increasing dramatically; the number of **diabetic** patients may reach 300 million by 2030 globally .Pancreatic β -cells possess a highly developed **endoplasmic reticulum** (ER) system for the biosynthesis, process and secretion of insulin, and β -cell dysfunction plays a key role in the pathogenesis of diabetes .

Cited by: 18

Author: Linlin Zhao, Hao Guo, Hong Chen, Robert B...

Publish Year: 2013

Liraglutide Treatment Reduces Endothelial Endoplasmic ...

<https://www.ahajournals.org/doi/10.1161/JAHA.118.009379>

Figure 3 Liraglutide reduces endoplasmic reticulum (ER) **stress acute activation and the subsequent inflammatory response in endothelial cells from patients with diabetes mellitus (DM)**. Venous endothelial cells were isolated from patients with DM and acute ER stress activation was studied in the presence and absence of liraglutide.

Cited by: 9

Author: Rosa Bretón-Romero, Robert M. Weisbrod, ...

Publish Year: 2018

Liraglutide Treatment Reduces Endothelial Endoplasmic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6222937>

Sep 18, 2018 · Introduction. Diabetes mellitus (DM) **type 2** is a key public health problem worldwide, predicted to **affect** more than 500 million people by 2035.¹ DM is a major risk for cardiovascular diseases (CVDs) including coronary heart disease, stroke, peripheral artery disease, heart failure, and atrial fibrillation; and DM was listed as the primary or secondary cause of >200 000 deaths in the United ...

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[Liraglutide inhibits autophagy and apoptosis induced by ...](#)

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Dec 29, 2014 · Liraglutide reversed this effect, while the GL P-1R antagonist promoted it, promoting

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<https://www.sciencedirect.com/science/article/pii/S0006291X13016860>

Nov 08, 2013 · The present study sought to investigate the effect of Liraglutide, a glucagon like peptide 1 analogue, on ER stress in β -cells. We found that Liraglutide protected the pancreatic INS-1 cells from thapsigargin-induced ER stress and the ER stress associated **cell apoptosis**, mainly by suppressing the PERK and IRE1 pathways.

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Our findings support the possibility that endoplasmic reticulum stress may be a mechanism for **the cardiovascular effects of liraglutide** in the vasculature, and treatments with endoplasmic reticulum stress inhibitors may be a novel strategy to restore endothelial function in ...

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