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Basic Study

Polyethylene glycol 35 ameliorates pancreatic ¹³inflammatory response in cerulein-induced acute pancreatitis in rats

Ferrero-Andrés A *et al.* PEG35 ¹³protection against cerulein-induced acute pancreatitis

⁶Ana Ferrero-Andrés, Arnau Panisello-Roselló, Joan Roselló-Catafau, Emma Folch-Puy

Abstract

⁴⁵BACKGROUND

Acute pancreatitis (AP) is a sudden inflammatory process of the pancreas that may also involve surrounding tissues and/or remote organs. ¹⁵Inflammation and

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Acute pancreatitis is an **inflammatory** disorder of the **pancreas**. Its presentation ranges from self-limiting disease to **acute** necrotizing **pancreatitis** (ANP) with multiorgan failure and a high mortality. **Polyethylene** glycols (PEGs) are non-immunogenic, non-toxic, and water-soluble chemicals composed of repeating units of ethylene **glycol**. The present article explores the ...

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Author: Ana Ferrero-Andrés, Arnau Panisello-R...

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Failure of antioxidant therapy (polyethylene glycol ...

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Jan 01, 1989 · Failure of Antioxidant Therapy (**Polyethylene Gly** col-Conjugated Catalase) in **Acute Pancreatitis** Karen S. Guice, MD, Keith T. Oldham, MD, Kent J. Johnson, MD, Ann Arbor, Michigan Previous studies have demonstrated that intrave- nous calalase infusion protects against the forma- tion of **pancreatic** edema in **cerulein-induced acute pancreatitis**; however, **polyethylene glycol** ...

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Therapeutic intravenous administration of CM4620 to **rats ameliorates cerulein-induced acute pancreatitis** We next tested the ability of CM4620 to limit the pancreatic damage in two rat models



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So in the present study we have tried to find out the effect of laparoscopic preconditioning over the **pancreatitis** in **cerulein-induced pancreatitis rats**. **Acute pancreatitis** was induced in 24 **rats** ...

Long-Lasting Effect of Infant Rats Endotoxemia on Heat ...

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Acute pancreatitis (AP) is a **pancreatic** nonspecific **inflammatory** process resulting from the activation of many pathological mechanisms such as obstruction of **pancreatic** duct, acinar oversecretion, and **pancreatic** ischemia [21–24]. As the result of above processes the innate immune system is involved in development of **inflammatory** cascade.

Cited by: 6 **Author:** Joanna Bonior, Jolanta Jaworek, Michalina...
Publish Year: 2012

Role of oxidative stress in the pathogenesis of caerulein ...

<https://www.sciencedirect.com/science/article/pii/S0014299999004215>

Jul 14, 1999 · Interestingly, Guice et al. (1989) found that treatment with **polyethylene glycol-conjugated** catalase was not protective against **pancreatic edema formation** in **caerulein-induced acute pancreatitis** in the rat. The relatively low levels of **polyethylene glycol-catalase** found in the **pancreas** outside the vascular compartment suggest that the failure to prevent edema formation may result from inability of **polyethylene glycol-catalase** ...

Randomized clinical trial of specific lactobacillus and ...

<https://onlinelibrary.wiley.com/doi/10.1046/j.1365-2168.2002.02189.x>

Microbial infection of the **pancreatic** tissue in patients with severe **acute pancreatitis** increases the morbidity and mortality rates. Colonization of the lower gastrointestinal tract and oropharynx with Gram-negative, but sometimes also Gram-positive, bacteria precedes contamination of the **pancreas**.

Alcoholic pancreatitis: A tale of spirits and bacteria

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4025076>

May 15, 2014 · BACTERIA AND LPS IN **PANCREATITIS**. In the Western society, alcohol represents 70%-80% of cases of chronic **pancreatitis**. As stated earlier, experimental evidence suggests that bacterial endotoxin is an initiating factor for alcoholic **pancreatitis**[11,12].In addition, bacterial translocation or the passage of bacterial products such as endotoxin into the systemic circulation appears to play a ...

COMPOSITIONS AND METHODS FOR TREATING PANCREATITIS ...

www.freepatentsonline.com/y2019/0119394.html ▾

Apr 25, 2019 · **Polyethylene glycol** is produced by the interaction of ethylene oxide with water, ethylene **glycol**, or ethylene **glycol** oligomers. ... **Pancreatitis** is **inflammation** of the **pancreas**. The **pancreas** is a large organ behind the stomach that produces digestive enzymes. ... (Cer-TRAIL) protects **acute pancreatitis** (AP) in **cerulein-induced AP rats** (Cer-PBS ...

pesquisa.bvsalud.org

[https://pesquisa.bvsalud.org/portal/?lang=es&q=mh:"Pancreatitis/metabolism"](https://pesquisa.bvsalud.org/portal/?lang=es&q=mh:) ▾

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<https://www.sciencedirect.com/science/article/pii/0002961089904376>

Jan 01, 1989 - Initial **clinical studies** are currently underway. We have recently reported preliminary evidence in a model of **cerulein-induced acute pancreatitis** in rats that, although catalase is highly protective against early edema formation given in the native form as a continuous **intra- venous infusion**, the **PEG-catalase** given as a bolus is not protective [2].

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