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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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Jan 01, 1989 · Failure of Antioxidant Therapy (**Polyethylene Glycol**-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 intravenous catalase infusion protects against the formation 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 ...

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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 ...

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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 ...

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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[1,12].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

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[Failure of antioxidant therapy \(polyethylene glycol ...](#)

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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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