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Basic Study

N-acetylcysteine and glycyrrhizin combination: Benefit outcome in a murine model of acetaminophen-induced liver failure

Minsart C *et al.* Translational mouse model of acetaminophen hepatotoxicity

Charlotte Minsart, Sandrine Rorive, Arnaud Lemmers, Eric Quertinmont, Thierry Gustot

Abstract

BACKGROUND

Acetaminophen overdose is the most frequent cause of drug-induced liver failure in the developed countries. Substantial progress has been made in understanding the

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NOVEL MECHANISMS OF PROTECTION AGAINST ...

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Acetaminophen (APAP) overdose is a major cause of acute **liver failure**. The glutathione (GSH) precursor **N-acetylcysteine** (NAC) is used to treat patients with APAP overdose for up to 48 h. Although it is well established that early treatment with NAC can improve the scavenging of the reactive metabolite N-acetyl-p-benzoquinone imine (NAPQI), protective mechanisms at later times remain unclear.

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New insights in acetaminophen toxicity: HMGB1 contributes ...

<https://www.nature.com/articles/s41598-020-61270-1>

Mar 27, 2020 · Necrostatin-1 protects against reactive oxygen species (ROS)-induced hepatotoxicity in **acetaminophen-induced acute liver failure**. *FEBS Open Bio.* 4, ...

Cited by: 1 **Author:** Charlotte Minsart, Claire Liefferinckx, Arna...**Publish Year:** 2020

Glycyrrhizic Acid in the Treatment of Liver Diseases ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4052927>

May 13, 2014 · In an animal **model**, GA combined with Mat reduced the mortality of acetaminophen overdosed mice, attenuated **acetaminophen-induced** hepatotoxicity, and reduced the number and area of γ-GT positive foci, thus protecting **liver** function and preventing HCC from occurring .

Cited by: 143 **Author:** Jian-yuan Li, Hong-yan Cao, Ping Liu, Gen-h...**Publish Year:** 2014

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<https://www.frontiersin.org/articles/10.3389/fimmu.2018.00161>

Introduction. Intended or unintended overdosing of acetaminophen [paracetamol, N-acetyl-p-aminophenol (APAP)] is regarded a major cause of acute **liver failure** provoking roughly 50,000 emergency room admissions, 2,500 hospitalizations, and 500 fatalities per year in the United States. The global burden on health-care systems that connects to APAP is based on a narrow therapeutic margin and ...

Cited by: 13 **Author:** Malte Bachmann, Josef Martin Pfeilschifte...**Publish Year:** 2018

Novel mechanisms of protection against acetaminophen ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.23267>

Dec 23, 2009 · Acetaminophen (APAP) overdose is a major cause of acute **liver failure**. The glutathione (GSH) precursor **N-acetylcysteine** (NAC) is used to treat patients with APAP overdose for up to 48 hours. Although it is well established that early treatment with NAC can improve the scavenging of the reactive metabolite N-acetyl-p-benzoquinone imine, protective mechanisms at later times remain ...

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Extracellular release of HMGB1 contributes to **acetaminophen-induced liver injury**. ... **Benefit Outcome in a Murine Model of Acetaminophen-Induced Liver Failure** ... of IFX at induction on treatment ...

Cell Death and Cell Death Responses in Liver Disease ...

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Oct 01, 2014 · NAC in acute **liver failure** (not **acetaminophen induced**) ... et al. Efficacy of oral **N-acetylcysteine** in the treatment of acetaminophen overdose. Analysis of the national multicenter study (1976 to 1985) ... J.S. Yan, J.P. Grenert, et al. Stress signaling in the methionine-choline-deficient **model of murine fatty liver** disease. *Gastroenterology*, 139 ...

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Acute-on-chronic **liver failure** (ACLF) is a recently defined entity that occurs in patients with chronic **liver** diseases and is characterised by acute decompensation, organ failures and a high risk ...

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