

Name of Journal: *World Journal of Hepatology*

Manuscript NO: 52988

Manuscript Type: ORIGINAL ARTICLE

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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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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<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 , ...

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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 .

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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 ...

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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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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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