

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 47378

Manuscript Type: SYSTEMATIC REVIEWS

Bioartificial liver support systems for acute liver failure: Systematic review and meta-analysis of the clinical and preclinical literatures

He YT *et al.* Bioartificial liver for acute liver failure

Yu-Ting He, Ya-Na Qi, Bing-Qi Zhang, Jian-Bo Li, Ji Bao

Abstract

BACKGROUND

Acute liver failure (ALF) has a high mortality varying from 80% to 85% with rapid progress in multi-organ system failure. Bioartificial liver (BAL) support systems have the potential to provide temporary support to bridge patients with acute liver failure to liver transplantation or recover spontaneously. In the past decades, several BAL support systems had been conducted in clinical trials. More recently, concerns have been raised on the renovation of high-quality cell sources and configuration of BAL support systems to provide more benefits to ALF models in preclinical experiments.

AIM

To investigate the characteristics of studies about bioartificial liver (BAL) support systems for acute liver failure (ALF), and to evaluate their effects on mortality.

METHODS

Eligible clinical trials and preclinical experiments on large animals were

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The **systems** were evaluated in a variety of **clinical** studies, demonstrating ... This **review** gives an overview over the most common artificial and ... Key Words: **artificial liver support**, **bioartificial liver support**, **liver failure**, Molecular adsorbent recirculating **system** for **acute** and **acute-on-chronic liver failure**: A **meta-analysis**.

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A **literature** search was conducted in the PubMed, Embase, Web of Science and Chinese ... Keywords: **liver support systems**, **hepatic failure**, **meta-analysis**, **meta-** regression ... The references used in eligible articles or textbooks were also **reviewed** to examine other **Clinical** application of **bioartificial liver support systems**.

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Article: **Literature Review** in Cochrane database of **systematic reviews** ... **Liver failure** may develop without pre-existing **liver disease** (**acute liver** **clinical** trials of **artificial** and **bioartificial support systems** have demonstrated systems for **acute** and **acute-on-chronic hepatic failure**: A **meta-analysis** and **meta-regression**.

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