

**Name of Journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 58860

**Manuscript Type:** ORIGINAL ARTICLE

### *Clinical Trials Study*

**Relationship between the incidence of non-hepatic hyperammonemia and the prognosis of patients in intensive care unit**

Zhi-Peng Yao, Yue Li, Yang Liu, Hong-Liang Wang

### **Abstract**

#### **BACKGROUND**

Ammonia is a normal constituent of body fluids and is treated mainly through the formation of urea in the liver. Blood levels of ammonia must remain low because even slightly elevated concentrations (hyperammonemia) are toxic to the central nervous

### Match Overview



1	<b>Internet</b> 70 words crawled on 14-Feb-2018 <a href="http://www.mdpi.com">www.mdpi.com</a>	2%
2	<b>Internet</b> 28 words crawled on 12-Sep-2019 <a href="http://ojrd.biomedcentral.com">ojrd.biomedcentral.com</a>	1%
3	<b>Internet</b> 23 words crawled on 19-Sep-2019 <a href="http://www.ncbi.nlm.nih.gov">www.ncbi.nlm.nih.gov</a>	1%
4	<b>Internet</b> 18 words crawled on 19-Jul-2020 <a href="http://core.ac.uk">core.ac.uk</a>	1%
5	<b>Internet</b> 16 words crawled on 23-Jun-2020 <a href="http://insights.ovid.com">insights.ovid.com</a>	1%
6	<b>Internet</b> 16 words crawled on 19-Jan-2020 <a href="http://www.cureus.com">www.cureus.com</a>	1%
7	<b>Internet</b> 15 words crawled on 21-Oct-2020 <a href="http://www.dovepress.com">www.dovepress.com</a>	<1%



ALL

IMAGES

VIDEOS

50,700 Results

Any time ▾

## (PDF) Non-Hepatic Hyperammonemia: A Case Report

<https://www.researchgate.net/publication/320384256...>

Jun 04, 2015 · Background: Hyperammonemia usually develops because of acute liver failure or chronic liver disease, but may occur also in the absence of hepatic disease (non-hepatic hyperammonemia...

## Characteristics and outcomes of critically ill patients ...

<https://www.sciencedirect.com/science/article/pii/S0883944119308718>

Apr 01, 2020 · Previous studies that have assessed the relationship between hyperammonemia in the ICU and mortality have focused primarily on patients with acute liver failure [ , , ] or non-hepatic hyperammonemia [ , , , ].

Author: Katherine J. Jacoby, Parvati Singh, M... Publish Year: 2020

## Clinical and biochemical characteristics of patients with ...

<https://www.sciencedirect.com/science/article/pii/S0009912020304689>

Once hyperammonemia happened, the prognosis is unfavorable for most patients , -a large part of neonatal-onset patients deceased at the first hyperammonemia crisis. Some later-onset patients have ammonia levels decreased after the initiation of treatment but still developed to neurological disability progressively; others suffer from ...

Author: Min-Zhi Peng, Xiu-Zhen Li, Hui-Fen M... Publish Year: 2020

## The Innate Immune Response in HIV/AIDS Septic Shock ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3708901>

Jul 11, 2013 · The cumulative incidence of acute organ dysfunction on the first 3 days after sepsis diagnosis was similar between the HIV and non-HIV septic patients (respectively, cardiovascular 81% vs. 97%; respiratory 77% vs. 88%; renal 73% vs. 71%; hematological 59% vs. 63%; hepatic 41% vs. 38%; neurological 18% vs. 17%; all of the p values were non ...

Cited by: 13 Author: Rodrigo T Amancio, Andre M Japiassu, R...  
Publish Year: 2013

## Transient hyperammonemia in seizures: A prospective study ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1528-1167.2011.03279.x>

Purpose: To investigate the incidence and duration of transient hyperammonemia in seizures and to verify the significant confounders related to transient hyperammonemia in seizures. Methods: One hundred twenty-one noncirrhotic adult patients with seizures admitted to the emergency department

ALL

IMAGES

VIDEOS

42,200 Results

Any time ▼

## Characteristics and outcomes of critically ill patients ...

<https://www.sciencedirect.com/science/article/pii/S0883944119308718>

Apr 01, 2020 · **Non-hepatic hyperammonemia** can result from a variety of ... One case series reported a mortality of 50% in **patients** with post-gastric bypass **hyperammonemia**, although the **relationship between** serum ammonia level and ... M McPhail, et al. **Prognosis of cirrhotic patients** admitted to **intensive care unit**: a meta-analysis. *Ann Intensive Care*, 7 (2017 ...

**Author:** Katherine J. Jacoby, Parvati Singh, Matt... **Publish Year:** 2020

## Hypoxic Hepatitis: A Review and Clinical Update

<https://www.xiahepublishing.com/ArticleFullText...> ▼

HH does, however, occur in the absence of a documented hypotensive event or shock state in 50% of patients. In intensive care units, the incidence of HH is **near 2.5%**, but has been **reported as high as 10% in some studies**.

**Cited by:** 24 **Author:** Najeff Waseem, Po-Hung Chen

**Publish Year:** 2016

## Hyperammonemia Presenting as Refractory Status Epilepticus ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6020644>

This study demonstrated a causal **relationship between** Ureaplasma and **hyperammonemia** and adds to the growing body of literature regarding the etiology of this disease. While the true **incidence** of ureaplasma infection in lung transplant **patients** is unknown, one study that tested for Ureaplasma in both donor and recipient lungs had 4 of 28 donor ...

**Cited by:** 4 **Author:** Diane C McLaughlin, Jorge M Mallea, Laure...

**Publish Year:** 2018

## Hyperammonemia Associated Encephalopathy in Two Cases with ...

<https://www.sciforschenonline.org/journals/cancer-research/IJCRMM-1-116.php> ▼

The patient was transferred to the **intensive care unit** and followed up for 15 days. The patient whom loss of consciousness had partially recovered was admitted to hematology ward from **intensive care unit**. Serum ALP values fluctuated **between** 300-400 U/L and serum GGT values fluctuated **between** 600-2000 U/L during follow-up at ward.

**Author:** Osman Yokuş, Habip Gedik, Gedik H. **Publish Year:** 2015

## Transient hyperammonemia in seizures: A prospective study ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1528-1167.2011.03279.x>

Purpose: To investigate the **incidence** and duration of transient **hyperammonemia** in seizures and to



ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

129,000 Results

Any time ▾

## Hypoxic Hepatitis: A Review and Clinical Update

<https://www.xiahepublishing.com/ArticleFullText...> ▾

HH does, however, occur in the absence of a documented hypotensive event or shock state in 50% of patients. In intensive care units, the incidence of **HH is near 2.5%**, but has been **reported as high as 10% in some studies**.

Cited by: 24

Author: Najeff Waseem, Po-Hung Chen

Publish Year: 2016

## Characteristics and outcomes of critically ill patients ...

<https://www.sciencedirect.com/science/article/pii/S0883944119308718>

Apr 01, 2020 · **Non-hepatic hyperammonemia** can result from a variety of ... One case series reported a mortality of 50% in **patients** with post-gastric bypass **hyperammonemia**, although the **relationship between** serum ammonia level and ... M McPhail, et al. **Prognosis** of cirrhotic **patients** admitted to **intensive care unit**: a meta-analysis. *Ann Intensive Care*, 7 (2017) ...

Author: Katherine J. Jacoby, Parvati Singh, M...

Publish Year: 2020

## A Current Review of the Diagnostic and Treatment ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3485515>

1. Introduction. Hepatic encephalopathy (HE) is a common complication in **patients** with cirrhotic liver disease. HE not only results in a diminished quality of life, but confers a poorer **prognosis in patients** with underlying liver cirrhosis []. HE is an important event in the natural history of cirrhosis and is an independent predictor of mortality in **patients** with acute on chronic liver failure ...

Cited by: 60

Author: Z. Poh, P. E. J. Chang, P. E. J. Chang

Publish Year: 2012

## Prognostic Role of Ammonia in Patients With Cirrhosis ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/abs/10.1002/hep.30534>

Jan 31, 2019 · The aims of this study were to determine the **relationship between** ammonia levels and severity of HE and its association with organ dysfunction and short-term mortality. We identified 498 **patients** from two institutions as part of prospective observational studies in **patients** with cirrhosis.

Cited by: 9

Author: Shalimar, Mohammed Faisal Sheikh, Raj...

Publish Year: 2019