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Retrospective Study

Iron metabolism imbalance at the time of listing increases overall and infectious mortality after liver transplantation

Fallet E *et al.* Iron metabolism and OLT

¹ Elodie Fallet, Michel Rayar, Amandine Landrieux, Christophe Camus, Pauline Houssel-Debry, Caroline Jezequel, Ludivine Legros, Thomas Uguen, Martine Ropert-Bouchet, Karim Boudjema, Dominique Guyader, Edouard Bardou-Jacquet

Abstract

BACKGROUND

Liver transplantation (LT) is the best treatment for patients with liver cancer or end

Match Overview

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Iron homeostasis in the liver - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3936199>

Iron is an essential nutrient that is tightly regulated. A principal function of the liver is the regulation of iron homeostasis. The liver senses changes in systemic iron requirements and can regulate iron concentrations in a robust and rapid manner. The last 10 years have led to the discovery of ...

Cited by: 61

Author: Erik R. Anderson, Yatrik M. Shah

Publish Year: 2013

Early Enteral Feeding After Living Donor Liver ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4915875>

Nov 06, 2015 - Nutrient metabolism is changed in patients with liver disease because liver is a central organ for metabolism. Thus, protein malnutrition and imbalance were developed as a result of progressive liver disease. 1 – 4 Protein-energy malnutrition is common in patients with end-stage liver disease requiring liver transplantation (LT).

Cited by: 5

Author: Jong Man Kim, Jae-Won Joh, Hyun Jung ...

Publish Year: 2015

INCREASED WAITING TIME FOR LIVER TRANSPLANTATION ...

[https://journals.lww.com/transplantjournal/...](https://journals.lww.com/transplantjournal/)

Median waiting time for transplantation increased with each year of the study, lengthening from 60 days in the first year to 102 days in the third year . However, pretransplantation mortality did not significantly increase, being 8.3% in the first year and 10.3% in the third year (test for trend P-value=0.48).

(PDF) Increased Serum Iron Levels and Infectious ...

https://www.researchgate.net/publication/44800874_Increased_Serum_Iron_Levels_and...

Elevated serum iron levels have been associated with infectious outcomes in various patient populations but, to our knowledge, have never been studied after liver transplantation.



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Iron homeostasis in the liver - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3936199>

Liver. The **liver** performs three essential functions in maintaining systemic **iron** homeostasis: 1) The **liver** is the major site for production of proteins that maintain systemic **iron** balance, 2) It is a storage site for excess **iron** and 3) the **liver** is critical for the mobilization of **iron** from hepatocytes to the circulation to meet metabolic requirements.

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Author: Erik R. Anderson, Yatrik M. Shah

Publish Year: 2013

Overview of iron metabolism in health and disease - Dev ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/hdi.12542>

When the **iron** storage and antioxidant capacity of the **liver** is exceeded, **iron** overload can lead to oxidant-mediated **liver** injury, cirrhosis, and hepatocellular carcinoma, as seen in hereditary hemochromatosis and β -thalassemia. 57, 58 A number of other chronic **liver** diseases including alcoholic **liver** disease, nonalcoholic fatty **liver** ...

Cited by: 32

Author: Som Dev, Jodie L. Babitt

Publish Year: 2017

Liver transplantation normalizes serum hepcidin level and ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.26570>

Jun 14, 2013 - Therefore, the present study aimed to (1) evaluate the role of the liver in regulating iron metabolism, based on the long-term evolution of iron metabolism after **LT in patients homozygous for HFE C282Y**; and (2) **analyze survival after transplantation in patients homozygous for HFE C282Y compared to patients who received transplants for other liver diseases, but underwent similar surgical procedures and medical management over the same time period.**



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Jun 14, 2013 · Therefore, the present study aimed to (1) evaluate the role of the liver in regulating iron metabolism, based on the long-term evolution of iron metabolism after **LT in** ... +

Iron Metabolism - an overview | ScienceDirect Topics

<https://www.sciencedirect.com/.../iron-metabolism>

Here, the main disturbance of iron metabolism is **retention of iron by macrophages of the reticuloendothelial system**, with no change in the total amount of body iron. However, the block ... +

[PDF] Regulators of Iron Homeostasis: New Players in Metabolism ...

[https://www.cell.com/trends/biochemical-sciences/pdf/S0968-0004\(15\)00237-6.pdf](https://www.cell.com/trends/biochemical-sciences/pdf/S0968-0004(15)00237-6.pdf)

1. **New Mechanisms Regulating Intracellular Iron Metabolism.** The ZRT/IRT-like protein (ZIP) family transporters, ZIP8 and ZIP14, were recently identified as crucial for transporting non ... +