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Possible local **tubular production** of **hepcidin** as well as possible defective **tubular reabsorption** of **hepcidin** must also be taken into account in the interpretation of **urine** levels as a mirror of **serum hepcidin concentrations** (Kulaksiz et al., 2005).

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Author: Luc Rochette, Aurélie Gudjoncik, Charles...

Publish Year: 2015

## Estimating Tissue Iron Burden: Current Status and Future ...

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SUMMARY. The physiological basis for **extrahepatic iron deposition** is presented in order to help identify patients at highest risk for cardiac and endocrine complications. This manuscript reviews the current state of the art for monitoring global iron overload status as well as its compartmentalization.

Cited by: 56

Author: John C. Wood

Publish Year: 2015

## Hepcidin modulation in human ... - PubMed Central (PMC)

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) › ... › v.15(5); 2009 Feb 7

Feb 07, 2009 - By modulating **hepcidin production**, an organism controls intestinal iron absorption, iron **uptake** and mobilization from stores to meet body iron need. In **recent years** there has been important advancement in our knowledge of **hepcidin** regulation that also has implications for understanding the physiopathology of some **human disorders**.

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Publish Year: 2009

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This resulted in a gender balance among probands and in lasting female predominance among relatives



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While **extrahepatic hepcidin expression** is becoming established, the **physiological role of hepcidin** in **extrahepatic tissues** is only partially understood. **Extrahepatic hepcidin production** may play a role in the local regulation of iron fluxes. 6.1. Macrophages. Macrophages facilitate the rapid throughput of iron and strongly **express FPN**.

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**Cited by:** 127      **Author:** Alberto Piperno, Raffaella Mariani, Paola ...

**Publish Year:** 2009

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**Hepcidin** is the dominant regulator of iron absorption and incorporation into **erythrocytes**. Data from young Gambian chil-dren with postmalarial anemia and control anemic subjects with-out **recent malaria**. Reproduced with permission from Doherty and colleagues [22] . Fig. 3. Current knowledge of the key pathways in the regulation of **hepcidin expression**.

## Increased Expression of Hepcidin in Obese Patients: Impact ...

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However, major challenges still remain which include our understanding of the **regulation of hepcidin production**, the **identification of environmental and genetic modifiers** of iron burden and organ ...

**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 47382

**Manuscript Type:** MINIREVIEWS

## Extrahepatic hepcidin production: The intriguing outcomes of recent years

Daher R *et al.* Recent outcomes of extrahepatic hepcidin

Raêd Daher, Thibaud Lefebvre, Hervé Puy, Zoubida Karim

### Abstract

Hepcidin is the hyposideremic hormone regulating iron metabolism. It is a defensin-like disulfide-bonded peptide with antimicrobial activity. The main site of hepcidin production is the liver where its synthesis is modulated by iron, inflammation and erythropoietic signaling. However, hepcidin locally produced in several peripheral organs, seems to be an important actor for the maintenance of iron homeostasis in these organs. This review highlights the presence of peripheral hepcidin and its potential functions. Understanding the role of extrahepatic hepcidin could be of great

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## Influence of Hepcidin in the Development of Anemia ...

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Dec 20, 2017 · **Extrahepatic production of hepcidin** occurs to a lesser extent, and it is believed that at these sites it acts as an **antimicrobial peptide**. In the kidney, **hepcidin** modulates the defense barriers