

**3**  
Name of Journal: *World Journal of Hepatology*

ESPS Manuscript NO: 17761

Columns: MINIREVIEWS

Indocyanine green kinetics to assess liver function: Ready for a clinical dynamic assessment in major liver surgery?

Andrea De Gasperi, Ernestina Mazza, Manlio Prospero

#### Abstract

**39**  
Indocyanine green (ICG) kinetics (PDR/R<sub>15</sub>) used to quantitatively assess hepatic function in the perioperative period of major resective surgery and liver transplantation have been the object of an extensive, updated and critical review. New, non invasive bedside monitors (PDD technology) make this opportunity widely available in clinical practice. After having reviewed basic concepts of hepatic clearance, we analysed the most common indications. ICG kinetic parameters have nowadays in clinical practice focusing in

### Match Overview

1	<b>CrossCheck</b> 312 words "Clinical Use of Indocyanine Green (ICG) Kinetics in Live... Anaesthesia and ICU", Practical Issues Updates in Anesthe	3%
2	<b>Internet</b> 70 words crawled on 09-Jun-2015 <a href="http://onlinelibrary.wiley.com">onlinelibrary.wiley.com</a>	1%
3	<b>Internet</b> 53 words crawled on 22-Jan-2016 <a href="http://www.wjgnet.com">www.wjgnet.com</a>	<1%
4	<b>Internet</b> 41 words crawled on 14-Mar-2010 <a href="http://www.ncbi.nlm.nih.gov">www.ncbi.nlm.nih.gov</a>	<1%
5	<b>CrossCheck</b> 29 words Vos, J. J., J. K. G. Wietasch, A. R. Absalom, H. G. D. Hendriks, and T. W. L. Scheeren. "Green light for liver function..."	<1%
6	<b>CrossCheck</b> 26 words Du, Zheng-Gui. "An accurate predictor of liver failure and death after hepatectomy: A single institution's experience..."	<1%



[网页](#) [图片](#) [视频](#) [新闻](#) [更多 ▾](#) [搜索工具](#)

找到约 16,900 条结果 (用时 0.64 秒)

### [PDF] Chapter Physiological and biochemical basis of clinical liv...

[dare.uva.nl/document/2/107208](http://dare.uva.nl/document/2/107208) ▾ [翻译此页](#)

作者: LT Hoekstra - 2012 - [被引用次数: 67](#) - [相关文章](#)

tests used for the **assessment** of **hepatic function** before **liver surgery**. Background Postoperative **liver failure** is the **major** cause of mortality and ... **Dynamic** quantitative **liver function** tests such as the **ICG test** and galactose .... **Indocyanine green (ICG) clearance test** ..... uptake and biliary excretion **kinetics** of mebrotfenin.

### Functional Liver Challenge Tests - Liver-Products

[www.liver-products.com/liver.../liver-function-challenge-tests.h...](http://www.liver-products.com/liver.../liver-function-challenge-tests.h...) ▾ [翻译此页](#)

These non-invasive **liver function** tests **check** the ability of the **liver** to detoxify and ... challenge **test** is the <sup>13</sup> C-breath **test** and the **ICG (indocyanine green) test**. ... a continuous real-time diagnosis for **kinetics** and for capacity of **liver functions**. ... of **liver function** using hepatically metabolized <sup>13</sup> C-substrates is **clinically helpful** ...

### The LiMAX test: a new liver function test for predicting ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > [PubMed Central \(PMC\)](#) ▾ [翻译此页](#)

作者: M Stockmann - 2010 - [被引用次数: 89](#) - [相关文章](#)

**Liver failure** has remained a **major** cause of mortality after hepatectomy, but it is difficult ... Accordingly, residual **liver function** has become the **major** limitation for **surgical** treatment. ... Several **dynamic** tests for the **assessment** of **liver function** have been ... The **clinical**





全部 图片 视频 新闻 更多 ▾ 搜索工具

找到约 15,900 条结果 (用时 0.59 秒)

### The LiMAx test: a new liver function test for predicting ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > PubMed Central (PMC) ▾ 翻译此页

作者: M Stockmann - 2010 - 被引用次数: 100 - 相关文章

Liver failure has remained a major cause of mortality after hepatectomy, but it is difficult ... Accordingly, residual liver function has become the major limitation for surgical treatment. ... Several dynamic tests for the assessment of liver function have been ... The clinical evaluation of the LiMAx test in perioperative monitoring for ...

### Effects of intra-abdominal pressure on liver function ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > PubMed Central (PMC) ▾ 翻译此页

作者: MT Inal - 2011 - 被引用次数: 15 - 相关文章

The dynamic liver test indocyanine green plasma disappearance rate ... for clinical and experimental assessment of liver function; the normal range is ... abdominal surgery (with or without laparoscopy, reduction of hernia, tight ..... Influence of support on intra-abdominal pressure, hepatic kinetics of indocyanine green and ...

### [PDF] Chapter Physiological and biochemical basis of clinical liv...

[dare.uva.nl/document/443092](http://dare.uva.nl/document/443092) ▾ 翻译此页

作者: LT Hoekstra - 2012 - 被引用次数: 69 - 相关文章

tests used for the assessment of hepatic function before liver surgery. Background Postoperative liver failure is the major cause of mortality and ... Dynamic quantitative liver function tests such as the ICG test and galactose .... Indocyanine green (ICG) clearance test ..... uptake and biliary excretion kinetics of mebrotfenin.

### Quantitative liver function tests define the functional severity ...

[onlinelibrary.wiley.com/doi/10.1002/lt.500030210/pdf](http://onlinelibrary.wiley.com/doi/10.1002/lt.500030210/pdf) ▾ 翻译此页

作者: R Shrestha - 1997 - 被引用次数: 23 - 相关文章