

Steatotic livers are more susceptible to normothermic ischemia-reperfusion injury

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[Ob/ob Mouse Livers Show Decreased Oxidative Phosphorylation ...](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4067359/)

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23 Jun 2014 ... During cold storage, the respiratory control ratio and complex I-fueled ... Steatotic livers have impaired baseline aerobic and anaerobic capacities ... of steatotic liver mitochondrial function exposed to a more clinically relevant 9–18 ... with the increased susceptibility to ischemia-reperfusion injury [7], [22].

[PDF] [Prevention of I/R injury in fatty livers by ischemic preconditioning is ...](#)

[rca.fmrp.usp.br/servico/gastro/.../cirurgia/.../steatotic_liver_iv.pdf](#)

increased susceptibility of fatty livers to ischemic injury is associated with depletion of ... prevents the impairment in mitochondrial function induced by I/R. Lean and steatotic animals were subjected to 90 min of hepatic warm ischemia and 12 h of reperfusion ... IPC in the fatty livers subjected to ischemia/reperfusion ... [22].

[PDF] [Effect of Hepatic Steatosis on Bioenergetic Function During Hepatic ...](#)

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20 Dec 2012 ... most common impairment was decreased adenosine triphosphate recovery with ... Impaired mitochondrial function play a key role in the susceptibility of steatotic livers to IRI ... Bioenergetic in Hepatic Steatosis and Ischemia-reperfusion Injury ... normothermic liver perfusion circuit – IPM (Table 4) while.

[Mitochondrial Dysfunction and Autophagy in Hepatic Ischemia ...](#)

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11 Nov 2015 ... Ischemia/reperfusion (I/R) injury remains a major complication of liver ... due to the complex mechanisms that contribute to I/R. In this review, we will ... in maintaining mitochondrial function and cell survival after hepatic I/R [8, 25, 27–29] ... fatty livers are more susceptible to I/R injury than lean counterparts, ...

[The Current State of Knowledge of Hepatic Ischemia-Reperfusion ...](#)

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Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 24455

Manuscript Type: ORIGINAL ARTICLE

Basic Study

**Steatotic livers are susceptible to normothermic ischemia-reperfusion injury from
mitochondrial Complex-I dysfunction**

Michael JJ Chu, Rakesh Premkumar, Anthony JR Hickey, Yannan Jiang, Brett Delahunt,
Anthony RJ Phillips, Adam SJR Bartlett

Abstract

AIM: To assess effects of ischemic preconditioning (IPC, 10-minute ischemia/10-minute
reperfusion) on steatotic liver mitochondrial function after normothermic ischemia-
reperfusion injury (IRI).

Steatotic livers are susceptible to normothermic ischemia-reperfusion injury from

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9 May 2012 ... However, I/R injury is the underlying cause of graft dysfunction in marginal organs [7]. Indeed, the use of steatotic livers for transplantation is associated with an increased ... Mechanisms involved in hepatic ischemia-reperfusion injury. ... that after normothermic liver ischemia, male rats were less sensitive to ...

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Ischemia-reperfusion injury is an important cause of liver damage occurring during ... occurring during hepatic ischemia-reperfusion are diverse and complex, and ... Most early changes in the anoxic hepatocytes occur in the mitochondria. age, and graft steatosis contribute to enhance liver susceptibility to I/R injury, thus ...

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11 Nov 2015 ... Ischemia/reperfusion (I/R) injury remains a major complication of liver ... hepatic I/R are complex and diverse involving the interaction of cell injury in The mechanisms underlying the increased susceptibility of steatotic livers to I/R injury more susceptible to normothermic ischemic injury than those with ...

[\[PDF\] Prevention of I/R injury in fatty livers by ischemic preconditioning is ...](#)

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作者 : M Mendes-Braz - 2012 - 被引用次数 : 47 - 相关文章

2012年5月9日 - However, I/R injury is the underlying cause of graft **dysfunction** in marginal organs [7]. Indeed, the use of **steatotic livers** for transplantation is associated with an ... in a **steatotic liver** exposed to **normothermic ischemia** has been reported [9]. ... Mechanisms involved in hepatic **ischemia-reperfusion injury**.

Hepatic ischemia and reperfusion injury: Effects on the liver ...

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作者 : C Peralta - 2013 - 被引用次数 : 60 - 相关文章

Ischemia-reperfusion injury is an important cause of **liver** damage occurring during ... occurring during hepatic **ischemia-reperfusion** are diverse and **complex**, and ... **dysfunction** post-transplantation, independently of **liver** basal characteristics, and graft **steatosis** contribute to enhance **liver susceptibility** to I/R injury, thus ...

Mitochondrial Dysfunction and Autophagy in Hepatic ...

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2015年11月11日 - **Ischemia/reperfusion (I/R) injury** remains a major complication of liver ... hepatic I/R are **complex** and diverse involving the interaction of cell **injury** in The mechanisms underlying the increased **susceptibility** of **steatotic livers** to I/R **injury** more **susceptible to normothermic ischemic injury** than those with ...

Abstract - Wiley Online Library

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作者 : MJJ Chu - 2015 - 被引用次数 : 1 - 相关文章

2015年1月22日 - **Steatotic livers** are **susceptible** to cold **ischemia**, which is thought to be secondary ... of warm **ischemia/reperfusion injury**, but the effect of IPC on **steatotic**