



Universiteit  
Leiden  
The Netherlands

## **Gut permeability and myocardial damage in paediatric cardiac surgery**

Malagon, Ignacio

### **Citation**

Malagon, I. (2005, December 1). *Gut permeability and myocardial damage in paediatric cardiac surgery*. Retrieved from <https://hdl.handle.net/1887/3741>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/3741>

**Note:** To cite this publication please use the final published version (if applicable).

# Gut permeability and myocardial damage in paediatric cardiac surgery

I Malagon

ISBN 9090197214

© 2005 I Malagon, Leiden The Netherlands. Except chapters two and six (copyright 2005, Oxford University Press), chapter three (copyright 2005, Elsevier), and chapter four (copyright 2005, Lippincott William and Wilkins).

Front cover designed by Clara Malagon, back cover designed by Elias Malagon.

Printed by Pasmans offsetdrukkerij bv Den Haag

Financial support for the printing of this thesis was provided by;  
Roche Diagnostics, The Netherlands.  
GlaxoSmithKline, The Netherlands.

# Gut permeability and myocardial damage in paediatric cardiac surgery

## PROEFSCHRIFT

ter verkrijging van de graad van Doctor  
aan de Universiteit Leiden,  
op gezag van de Rector Magnificus Dr. D.D. Breimer,  
hoogleraar in de faculteit der Wiskunde en Natuurwetenschappen en  
die der Geneeskunde,  
volgens besluit van het College voor Promoties  
te verdedigen op donderdag 1 December 2005 klokke 14:15 uur

door

Ignacio Malagon  
geboren te Madrid  
in 1962

**Promotiecommissie**

Promotoren	Prof. Dr. J G Bovill Prof. Dr. M G Hazekamp
Referent	Prof. Dr. J L Vincent (Brussels)
Overige leden	Prof. Dr. J W van Kleef Prof. Dr. P C M van den Berg Dr. W Onkenhout

Financial support by the Netherlands Heart Foundation for the publication of this thesis is gratefully acknowledged

Dedicated to Minke, Clara and Elias



# CONTENT

Chapter 1  
Introduction

Section 1  
Gut permeability and paediatric cardiac surgery

Chapter 2  
Gut permeability in paediatric cardiac surgery

Chapter 3  
Dexamethasone reduces gut permeability in paediatric cardiac surgery

Chapter 4  
Gut permeability in neonates following a stage I Norwood procedure

Chapter 5  
Rhamnitol is a metabolite of rhamnose in man

Section 2  
Cardiac Troponin T and paediatric cardiac surgery

Chapter 6  
Effect of three different anaesthetic agents on the postoperative production of cardiac troponin T in paediatric cardiac surgery

Chapter 7  
Effect of dexamethasone on postoperative cardiac troponin T production in paediatric cardiac surgery

Summary

Samenvatting

Acknowledgement

Curriculum vitae



