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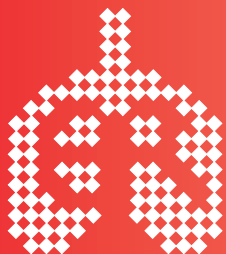
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# **Surgery for Non-Neoplastic Disorders of the Chest: a Clinical Update**

**Edited by**

**G.M. Verleden, D. Van Raemdonck,**

**T. Lerut, M. Demedts**



**EUROPEAN  
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European Respiratory Monograph

# **Surgery for Non-Neoplastic Disorders of the Chest: a Clinical Update**

Edited by

G.M. Verleden    D. Van Raemdonck    T. Lerut    M. Demedts

G.M. Verleden is currently Associate Professor of Pulmonary Medicine at the Catholic University of Leuven and at the University Hospital Gasthuisberg, Leuven, Belgium. He is responsible for the care of asthmatics and is the medical director of the Leuven Lung Transplant programme. His research interests are primarily in the area of inflammation of the airways with particular interest in the role of the airway smooth muscle in asthma and chronic rejection after lung transplantation. The mechanisms underlying symptom perception in asthmatics are also explored in his different experimental set-ups. G.M. Verleden is a member of several international societies, dedicated to respiratory and transplant medicine.

D. Van Raemdonck is Professor of Surgery and Director of the Thoracic Surgery Research Unit in the Center for Experimental Surgery and Anaesthesiology at the Catholic University of Leuven, Belgium. He is Head of Clinic and Surgical Director of the lung transplant programme at the University Hospitals Leuven, Belgium. His research group has published several experimental papers on transplantation of lungs from non-heart-beating donors and clinical papers on lung preservation and *ex vivo* lung reperfusion.

T. Lerut is currently Professor at the Catholic University of Leuven, Belgium and Chief of Thoracic Surgery since 1994. His areas of interests are oesophageal surgery, paediatric thoracic surgery and he started the programme of lung transplantation in 1991. He is member of the Royal Academy of Medicine of Belgium. He is the Chairman of the UEMS European Board of Thoracic and Cardiovascular Surgery. He is author/co-author of over 200 scientific papers in national and international journals.

M. Demedts is currently Professor of Pulmonary Medicine at the Catholic University of Leuven, Belgium, and Chief of Pneumology since 1990. His research interests are primarily in the area of interstitial lung diseases and of respiratory pathophysiology and lung function. He is a member of the Royal Academy of Medicine of Belgium, president of the National Certification Board of Pneumology, and was chairman of the "Colloquium and Forum Vlaamse Longartsen" from 1986–1998. M. Demedts is author/co-author of over 20 books and 400 scientific papers in national and international journals.

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# EUROPEAN RESPIRATORY MONOGRAPH

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## Editor in Chief

E.F.M. Wouters, University Hospital Maastricht, Dept of Pulmonology, P.O. Box 5800, 6202 AZ Maastricht, the Netherlands. Tel: 31 43 3875044; Fax: 31 43 3877087. E-mail: ewo@slon.azm.nl

## Secretary: M. Pesik

Tel: 31 433875044

Fax: 31 433877087

E-mail: mhy@slon.azm.nl

**Publications Office:** L. Arnold (Publications Manager), ERS Journals Ltd, Suite 2.4, Hutton's Building, 146 West Street, Sheffield, S1 4ES, UK. Tel: 44 114 2780498; Fax: 44 114 2780501. E-mail: Linda.Arnold@ersj.org.uk

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# EUROPEAN RESPIRATORY MONOGRAPH

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# Preface

Diseases of the chest are numerous and a multidisciplinary approach by the chest physician and thoracic surgeon is often required, not only in the management of chest malignancies, but also in the treatment of non-neoplastic disorders of the chest. Furthermore, many advances and improvements are put forward in the overall management of patients with advanced lung disease; besides lung transplantation, volume reduction surgery is reported as an alternative surgical option for emphysema patients which may delay, or even preclude the need for transplant.

Management of suppurative lung and pleural infections is a challenging problem in clinical practice; classical surgery stands besides thoracoscopic treatment. The frequency of thoracic injuries in trauma victims forms another challenge for the chest physician and thoracic surgeon considering that trauma ranks, at present, only behind cardiovascular disease and cancer. Although disorders of the trachea are relatively uncommon problems that rarely present in routine practice, successful outcomes require judgment in selecting suitable patients and correct timing of surgery, as well as careful determination of the extent of surgery required.

The role of surgery in many of these non-neoplastic disorders is extensively discussed in this issue of the *European Respiratory Monograph*, largely based on discussions and overview reports presented during an international symposium in 2003 organised by the Guest Editors. I, therefore, would like to thank the Guest Editors and the contributors, an international and multidisciplinary group of experienced clinicians, for their generous contributions to this issue of the *European Respiratory Monograph*.

**E.F.M. Wouters**  
Editor in Chief

## INTRODUCTION

G. Verleden, D. Van Raemdonck, T. Lerut, M. Demedts

The aim of this *European Respiratory Monograph* is to provide a synthesis and update of the indications and results of thoracic surgery for nonmalignant disorders.

Over the last few years, there have indeed been tremendous innovations regarding aspects of thoracic surgery for non-neoplastic disorders of the chest. Especially the field of surgery for emphysema has provided us with a lot of new treatment options, not only lung transplantation, but also lung volume reduction surgery (LVRS) and great efforts have been put into the development of new endoscopic modalities for LVRS. Also the management of suppurative lung and pleural infections has evolved, where classical surgery stands besides the pulmonologist's thoracoscopic treatment. Surgery for congenital bronchopulmonary disorders, extrapulmonary function-improving surgery and the treatment of tracheal and bronchial rupture all deserve renewed attention, because of new insights into their surgical or conservative management.

An international symposium and meeting on "Surgery for non-neoplastic disorders of the chest" was organised by the Dept of Pulmonary Diseases of the University Hospital Gasthuisberg at the Katholieke Universiteit Leuven, Belgium, on 20–22 March, 2003. The purpose was to provide a balanced update of the above mentioned issues, with particular focus on two aspects of lung transplantation: chronic rejection and bronchiolitis obliterans on the one hand, and strategies to prevent and treat reperfusion ischaemia of the donor lung and to decrease organ shortage on the other hand. Some 35 clinical experts and basic researchers in these two fields from all over Europe were gathered for 3 days in Leuven to prepare the present publication. They participated in one of the two working groups (the first on chronic rejection and bronchiolitis obliterans, the second on prevention and treatment of reperfusion and the modalities to decrease the donor organ shortage). Each working group was assigned the task to produce overview reports on these topics. In addition, selected reviews were commissioned on the above mentioned issues.

This symposium was accredited as a "European School of Respiratory Medicine" seminar, and was generously sponsored by GlaxoSmithKline, Belgium, in the framework of the "GSK Chair of Respiratory Pharmacology" attributed to G.M. Verleden.

We are very grateful to E.F.M. Wouters, editor of the *European Respiratory Monograph*, for granting us the privilege of publishing this symposium as a *European Respiratory Monograph*.