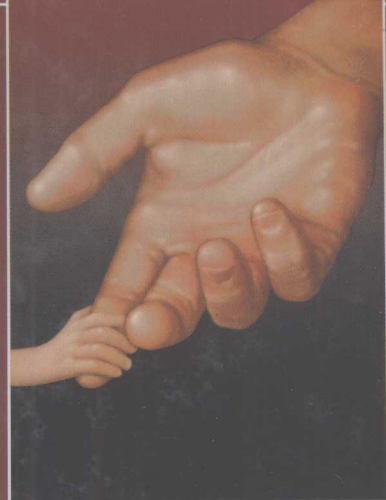


主编 Jay L. Grosfeld
James A. O'Neill, Jr.
Eric W. Fonkalsrud
Arnold G. Coran

主译 吴晔明



小儿外科学

Pediatric Surgery

(第6版·下卷)



北京大学医学出版社

小儿外科学

Pediatric Surgery

(第6版·下卷)

图书在版编目(CIP)数据

小儿外科学:第6版/(美)格罗斯费尔德(Grosfeld, J. L.)等主编;
吴晔明等译. —北京:北京大学医学出版社, 2008
书名原文: Pediatric Surgery: Sixth Edition
ISBN 978-7-81116-311-7

I. 小… II. ①格… ②吴… III. 儿科学: 外科学 IV. R726

中国版本图书馆 CIP 数据核字 (2008) 第 154800 号

北京市版权局著作权合同登记号: 图字: 01-2006-5583

Pediatric Surgery, 6th edition

Jay L. Grosfeld, James A. O'Neill, Jr., Eric W. Fonkalsrud and Arnold G. Coran

ISBN-13: 978-0-323-02842-4

ISBN-10: 0-323-02842-X

Copyright © 2006 by Mosby, Inc. All rights reserved.

Authorized Simplified Chinese translation from English language edition published by the Proprietor.

978-981-259-755-7

981-259-755-7

Elsevier (Singapore) Pte Ltd.

3 Killiney Road, #08-01 Winsland House I, Singapore 239519

Tel: (65) 6349-0200, Fax: (65) 6733-1817

First Published 2009

2009 年初版

Simplified Chinese translation Copyright © 2009 by Elsevier (Singapore) Pte Ltd and Peking University Medical Press.
All rights reserved.

Published in China by Peking University Medical Press under special agreement with Elsevier (Singapore) Pte Ltd. This edition is authorized for sale in China only, excluding Hong Kong SAR and Taiwan. Unauthorized export of this edition is a violation of the Copyright Act. Violation of this Law is subject to Civil and Criminal Penalties.

本书简体中文版由北京大学医学出版社与 Elsevier (Singapore) Pte Ltd. 在中国境内 (不包括香港特别行政区及台湾) 协议出版。本版仅限在中国境内 (不包括香港特别行政区及台湾) 出版及标价销售。未经许可之出口, 是为违反著作权法, 将受法律之制裁。

小儿外科学

主 译: 吴晔明

出版发行: 北京大学医学出版社 (电话: 010-82802230)

地 址: (100191) 北京市海淀区学院路 38 号 北京大学医学部院内

网 址: <http://www.pumppress.com.cn>

E-mail: booksale@bjmu.edu.cn

印 刷: 北京画中华印刷有限公司

经 销: 新华书店

责任编辑: 马联华 李 娜 董彩萱

责任校对: 杜 悦

责任印制: 郭桂兰

开 本: 889 mm × 1194 mm 1/16 印张: 75 插页: 2 字数: 2406 千字

版 次: 2009 年 1 月第 1 版 2009 年 1 月第 1 次印刷

书 号: ISBN 978-7-81116-311-7

定 价: 760.00 元 (上下卷)

版权所有, 违者必究

(凡属质量问题请与本社发行部联系退换)

中文版序言



我国对应用科学的发展一向是主张“古为今用、洋为中用”，对医学的发展更是如此。国际上现代小儿外科学基本上是以 Ladd 和 Gross 的观点为主线的体系。小儿外科学在世界各国均有发展，而美国仍然是小儿外科学发展的前沿中心。我国小儿外科起步较晚，受时代背景的影响，创建了具有中国特色的小儿外科，并且在一个有 13 亿人口的发展中大国做出了令人瞩目的成绩。

回顾过去有利于未来。1950 年，我国始建小儿外科。其时正值西方国家对我国实行孤立与封锁。我国小儿外科的四位主要开创者从不同渠道间接引进了 Gross 观点：马安权毕业于圣约翰大学，使用英语渠道；余亚雄毕业于震旦大学，用法语；童尔昌毕业于同济大学，用德语；我毕业于国立上海医学院，也用英语。四人分别在不同风格的医院通过实践开创了小儿外科。虽然基本观点仍是 Gross 体系，但是思路更宽。1960 年后又有李正等人留苏回国，带来了一些苏联的观点。难得的是，这一代人又都接受过系统的中医学补课教育。这样在多元化学术基础上，结合国情，融入自己的经验，形成了现时的中国小儿外科体系。

改革开放以后，我国小儿外科学书刊的出版空前繁荣，并且都反映了我国的特色。通过各种形式的国际交流，我国的小儿外科学在国际上也取得了一定地位。然而，作为占世界人口 1/4 的、有五千多年文明史的大国，在新的信息时代，随着经济发展，应该有责任也有能力为人类做出更大的贡献。我们小儿外科同道首先需要进一步提高我国小儿外科学水平，与国

际先进学术接轨；还应该融入更多的中医精华，创立一个崭新的小儿外科学，作为 21 世纪对全世界儿童的献礼。因此当前需要的是充分、广泛、深入了解国际小儿外科学的体系和动态。

我国小儿外科队伍庞大，分布地域辽阔，水平参差不齐，对国际信息的获取很大程度上仍有语言和经济方面的障碍。上世纪 60 年代初，马安权曾组织翻译了 1953 年版《Gross 小儿外科学》。因为当时经济困难，只摘译出版了前半部。以后因国内十年动乱、盲目排外等等，再无一人出面问津。今天吴晔明教授主译本书正是填补空缺，将为我国小儿外科学界了解美国和国际学术体系提供很大便利。我国小儿外科能在贫困中以惊人的速度发展并壮大，这种精神已经闻名世界，有这本书出版，更将如虎添翼。

本书英文原版在国际上颇具盛名，已是第 6 次更新再版。本书译者校者都是我国当代小儿外科学界的精英，在小儿外科领域都有各自的专长造诣，并且都曾在国外学习，多次参加国际交流。相信本书译本质量必有保障，当为中国小儿外科一项时代硕果。我们国家提出“自主创新”，必先了解世界，了解历史。这部国际经典巨著正是一个理想的参考资料。我为本书的出版干杯。

张金哲

2008 年 2 月 23 日

中国工程院院士

小儿外科学教授

首都医科大学附属北京儿童医院

译者前言



《小儿外科学》自1962年第1版出版以来，一直都是国际小儿外科界公认的最权威的经典教科书之一。该书因其为小儿外科领域内容最全面、与临床技术进步同步而深受小儿外科同行的推崇。四十多年来，该书先后出版了6版。在相隔8年后，这本最新的第6版在第5版的基础上，增加了大量的最新理论和临床新技术，极具参考价值。

由于《小儿外科学原则》一书的成功翻译和出版，我受北京大学医学出版社委托，翻译《小儿外科学》第6版。面对如此繁重和艰巨的任务，深感能力不足，一度动摇，后来在上海儿童医学中心全体小儿外科同仁的鼓励和支持下，我鼓起勇气承接了翻译任务。这一工作还得到了施诚仁老师、蔡威学兄的支持，也得到了我的同仁刘锦纷教授的支持，还获得了师长董其刚、刘国华教授的帮助；本书的翻译和校对工作也获得了来自全国各地的、近年来活跃于小儿外科领域的中青年专家的支持和协助，在此对他们表示衷心的感谢，他们是：浙江大学医学院附属儿童医院李民驹教授；天津市儿童医院叶祖萍教授；苏州大学

附属儿童医院朱锦祥教授；复旦大学附属儿科医院吕志葆教授；苏州大学附属儿童医院汪健教授；首都医科大学附属北京儿童医院陈永卫教授；首都儿科研究所李龙教授；郑州大学第一附属医院文建国教授；广州市儿童医院夏慧敏教授；湖南省儿童医院周小渔教授；重庆医科大学附属儿童医院王珊教授。没有他们的帮助，本书的翻译和校对工作将更为困难。

我特别要感谢我的同事顾松博士，他为翻译稿的整理、校对、译校者的联系及出版事务做了大量工作。

希望本书的出版有助于我国小儿外科的普及和发展，并成为广大小儿外科专科医生的常用工具书之一。大多数译校者都是利用工作之余完成此项任务，由于时间较为仓促，在翻译和审校中难免存在错误之处，敬请批评指正，以便在再版中得以改正。

吴晔明

2008年1月21日

著者前言



《小儿外科学》第1版是1962年由医学年鉴出版社出版的，编委会由Kenneth Welch、William Mustard、Mark Ravitch、Clifford Benson和William Snyder五位医生组成。其目的是为了满足不同小儿外科的总体工作需要，重点是放在普外、胸外和泌尿外科这些传统领域上。这本内容全面的教科书融入了众多著者的辛勤劳动，自第1版出版后，本书又先后出版了4版。44年来各版一直是小儿外科领域中最好的世界闻名的综合性图书。

自1998年第5版出版以来又过去了8年。在这期间，我们经历了一场真正意义上的新的科学信息爆炸，其特征是人类基因组解读、组织工程发展和其他对诊断和如何处理病人已产生明确影响的新技术的引进。

本书第6版包含133章，拥有国际视角，著者来自美国、加拿大、欧洲、亚洲、澳大利亚、新西兰和非洲。主编者的目的是使本书融入各位专家各自感兴趣领域的重要或独特的经验，以便所有章节都遵循同一个目标：作为当代综合性和权威性教科书，提供可参考使用和实用的信息。本书第6版的写作还有很多新作者和共同作者参加。在新加的章节中有一章是小儿外科学简史，描述了英国、美国和亚洲小儿外科专业发展的简要背景。其他新的章节包括：临床分子遗传学和基因治疗、组织工程对小儿外科学的影响、先进而新兴的外科技术和创新历程、儿科肿瘤学/遗传学和放射治疗原理、小肠移植以及青春期肥胖治疗。

其他所有章节也都进行了大量修改和更新，并根据大量的最新参考文献进行了扩展。如胎儿作为患者的最新进展；先天性胸壁畸形，包括有关Nuss手术的最新信息；小儿麻醉；伦理学和法律问题；先天性巨结肠的遗传学；短肠综合征的新信息（即分期手术）；并且在适当的章节，将微创外科技术（腹腔镜、胸腔镜）融入其中。

第6版还包含其他重要修改和更新。第I部分：

新生儿生理学和代谢问题、呼吸生理学和监护、新生儿心血管生理学和护理、心肺衰竭的体外生命支持、脓毒症及相关问题、血液病和营养。第II部分：创伤（包括烧伤护理）。第III部分：儿童的主要肿瘤。第IV部分：器官移植（肝、肺、心脏、胰、肾和骨髓移植的外科含意），这部分也根据最新护理技术和结果的新指南和信息进行了重新组织和更新。第V部分：累及头颈部的疾病。第VI部分：胸部疾病（包括食管闭锁和食管气管瘘以及其他各种食管病变、肺囊肿、先天性膈疝）；第VII部分：常见的先天性和获得性腹部疾病（包括疝、腹壁缺损、肠闭锁、胎粪性肠梗阻、先天性巨结肠、肛门直肠畸形、肠重复畸形、炎症性肠道疾病、胆道闭锁、胆总管囊肿、胰腺疾病、脾脏、门脉高压和其他）；第VIII部分：泌尿生殖系统疾病；第IX部分：特殊的小儿外科疾病（联体儿、先天性心脏病、手和软组织、骨科、神经系统和血管疾病）。很多章节有很好的图解，并大量使用了图表、影像学、大体病理照片和组织学照片以及手术操作图示。

第6版的编委会由Jay L. Grosfeld、James A. O'Neill Jr.、Eric W. Fonkalsrud和Arnold G. Coran组成。这四位医生也是第5版编委会的成员。最初各章节的编写是由四位主编平均负责的。很高兴，Anthony A. Caldamone医生作为第VIII部分泌尿生殖系统疾病副主编，Grosfeld医生作为编委会的主席和总编，成为整部手稿的最终审核者。《小儿外科学》第6版承袭的编辑标准承蒙我们之前的本书前5版的编辑所设立。

还要感谢我们的行政助理和秘书Karen Jaeger、Donna Bock、Gale Fielding、Cheryl Peterson和Carol Simmons，他们除了完成日常工作外，还自愿帮助我们完成这一著作。没有他们的帮助，这一工作很难完成，非常感谢他们对本书的贡献。我们还要向来自世界各地的、在第6版的准备工作中做出重要贡献的众

多著者表示我们诚挚的赞赏和感谢，感谢他们主动与我们分享他们的知识和经验，并能按照教科书的特殊格式准时完成写作，使我们能在限定时间内出版本书。

我们还要感谢 Elsevier/Mosby 的出版团队，感谢他们在第 6 版的准备和出版中保持高标准的支持和合作。我们感谢高级发展编辑 Janice Gaillard 女士和文字编辑 Faith Voit 为本书的编辑所做的贡献；感谢出版部主任 Judith Fletcher 和高级项目经理 Linda Grigg 女士为本书的整个出版过程所做的贡献。

本书主编者的照片摄于2005年4月,是在美国外科学会的一次会议期间。编者将编写《小儿外科学》第6版视作他们钟爱的一项工作,我们希望这本教科书能成为从事小儿外科临床工作的医生、接受培训的医生以及其他对婴幼儿感兴趣的专业人员的专业参考书。我们希望这本教科书可成为有益于全世界遭受外科疾病困扰的儿童的一种知识资源。

主编
(吴晔明译)

Cynthia A. Gingalewski, MD

Assistant Professor of Surgery and Pediatrics,
George Washington University School of Medicine and
Health Science; Pediatric Surgeon, Children's National
Medical Center, Washington, DC
Other Causes of Intestinal Obstruction

Kenneth I. Glassberg, MD

Professor of Urology, Columbia University College of
Physicians and Surgeons; Director, Division of Pediatric
Urology, Morgan Stanley Children's Hospital of
New York-Presbyterian, New York, New York
Renal Agenesis, Dysplasia, and Cystic Disease

Philip L. Glick, MD, MBA

Professor of Surgery, Pediatrics, and Obstetrics and
Gynecology, University of Buffalo School of Medicine
and Biomedical Sciences; Executive Director,
Miniature Access Surgery Center (MASC),
Women and Children's Hospital of Buffalo, Buffalo,
New York
Inguinal Hernias and Hydroceles

Sherilyn A. Gordon, MD

Assistant Professor of Surgery, Division of Liver and
Pancreas Transplantation, David Geffen School of
Medicine at UCLA, Los Angeles, California
Intestinal Transplantation

Tracy C. Grikscheit, MD

Senior Fellow in Pediatric Surgery, Children's Hospital
and Regional Medical Center and University of
Washington School of Medicine, Seattle,
Washington
The Impact of Tissue Engineering in Pediatric Surgery

Jay L. Grosfeld, MD

Lafayette Page Professor of Pediatric Surgery Emeritus,
Indiana University School of Medicine; Surgeon-
in-Chief Emeritus, Riley Hospital for Children,
Indianapolis, Indiana
*Neuroblastoma; Jejunioileal Atresia and Stenosis; Abnormalities
of the Female Genital Tract*

Angelika C. Gruessner, MS, PhD

Associate Professor of Surgical Science,
University of Minnesota Medical School, Minneapolis,
Minnesota
Pancreas and Islet Cell Transplantation

Rainer W. G. Gruessner

Professor of Surgery, University of Minnesota Medical
School, Minneapolis, Minnesota
Pancreas and Islet Cell Transplantation

Philip C. Guzzetta, Jr., MD

Professor of Surgery and Pediatrics, George Washington
University School of Medicine and Health Sciences;
Interim Chief of Pediatric Surgery, Children's National
Medical Center, Washington, DC
Nonmalignant Tumors of the Liver

Carroll M. Harmon, MD, PhD,

Associate Professor of Surgery, University of Alabama
at Birmingham School of Medicine; Attending Surgeon,
Children's Hospital, Birmingham, Alabama
Congenital Anomalies of the Esophagus

Michael R. Harrison, MD

Professor of Surgery, Pediatrics, and Obstetrics,
Gynecology, and Reproductive Sciences, University of
California, San Francisco, School of Medicine; Director,
Fetal Treatment Center, UCSF Children's Hospital and
Medical Center, San Francisco, California
The Fetus as a Patient

Andrea A. Hayes-Jordan, MD

Assistant Professor of Surgery and Pediatrics, University
of Texas Medical School at Houston and M.D.
Anderson Cancer Center; Pediatric Surgeon,
Memorial Hermann Children's Hospital and
M.D. Anderson Cancer Center, Houston, Texas
Lymph Node Disorders

Stephen R. Hays, MD, MS, FAAP

Assistant Professor of Anesthesiology and Pediatrics,
Vanderbilt University School of Medicine; Director,
Pediatric Pain Services, Vanderbilt Children's Hospital,
Nashville, Tennessee
Pediatric Anesthesia

John H. Healey, MD

Professor of Orthopaedic Surgery, Weill Medical
College of Cornell University; Chief of Orthopaedic
Surgery, Memorial Sloan-Kettering Cancer Center,
New York, New York
Bone Tumors

**W. Hardy Hendren III, MD, FACS, FAAP, FRCS
(Ireland), FRCPS(Glasgow), DSc(Drexel),
MD(HonCausa) Université Aix Marseilles**

Robert E. Gross Distinguished Professor of Surgery,
Harvard Medical School; Chief of Surgery Emeritus,
Children's Hospital Boston; Honorary Surgeon,
Massachusetts General Hospital, Boston, Massachusetts
Megaureter and Prune-Belly Syndrome

Bernhard J. Hering, MD

Assistant Professor of Surgery,
University of Minnesota Medical School;
Associate Director, Diabetes Institute for
Immunology and Transplantation, University of
Minnesota Medical Center, Fairview, Minneapolis,
Minnesota
Pancreas and Islet Cell Transplantation

David N. Herndon, MD

Professor of Surgery and Pediatrics and Jesse H. Jones
Distinguished Chair in Burn Surgery, University of
Texas Medical Branch School of Medicine at Galveston;
Chief of Staff and Director of Research, Shriners Burns
Hospital, Galveston, Texas
Burns

Ronald B. Hirschl, MD

Professor of Surgery, University of Michigan Medical School; Head, Section of Pediatric Surgery, and Surgeon-in-Chief, C.S. Mott Children's Hospital, Ann Arbor, Michigan

Extracorporeal Life Support for Cardiopulmonary Failure

George W. Holcomb III, MD, MBA

Katharine Berry Richardson Professor of Surgery, University of Missouri-Kansas City School of Medicine; Surgeon-in-Chief, Children's Mercy Hospital, Kansas City, Missouri

Gallbladder Disease and Hepatic Infections

Charles B. Huddleston, MD

Professor of Surgery, Washington University in St. Louis School of Medicine; Chief, Pediatric Cardiothoracic Surgery, and Surgical Director, Lung Transplant Program, St. Louis Children's Hospital, St. Louis, Missouri

Lung Transplantation

Raymond J. Hutchinson, MS, MD

Professor of Pediatrics, University of Michigan Medical School; Director of Clinical Services, Pediatric Hematology/Oncology, C.S. Mott Children's Hospital, Ann Arbor, Michigan

Surgical Implications of Hematologic Disease

John M. Hutson, MD(Monash), MD(Melb), FRACS, FAAP(Hon)

Professor of Pediatric Surgery, Department of Pediatrics, University of Melbourne Faculty of Medicine, Melbourne; Director of General Surgery, Royal Children's Hospital, Parkville, Victoria, Australia

Undescended Testis, Torsion, and Varicocele

Thomas Inge, MD, PhD

Associate Professor of Surgery and Pediatrics, University of Cincinnati College of Medicine; Surgical Director, Comprehensive Weight Management Program, Cincinnati Children's Hospital Medical Center, Cincinnati

Bariatric Surgery in Adolescents

Vincenzo Jasonni, MD

Professor of Pediatric Surgery, University of Genoa Medical School; Surgeon-in-Chief and Chair of Pediatric Surgery, Gaslini Children's Hospital, Genoa, Italy

Hirschsprung's Disease and Related Neuromuscular Disorders of the Intestine

Nishwan Jibri, MD

Department of Pediatric Surgery, Gaslini Children's Hospital, Genoa, Italy

Hirschsprung's Disease and Related Neuromuscular Disorders of the Intestine

Byron D. Joyner, MD

Associate Professor of Urology, University of Washington School of Medicine; Residency Director, University of Washington Urology Program, and Faculty/Staff, Children's Hospital and Regional Medical Center, Seattle, Washington

Ureteropelvic Junction Obstruction

Martin Kaefer, MD

Associate Professor, Department of Urology, Indiana University School of Medicine; Pediatric Urologist, Riley Children's Hospital, Indianapolis, Indiana

Disorders of Bladder Function

Henry K. Kawamoto, Jr., MD, DDS

Clinical Professor of Surgery, Department of Surgery, Division of Plastic Surgery, David Geffen School of Medicine at UCLA; Director, Craniofacial Surgery, UCLA Medical Center, Los Angeles, California

Craniofacial Anomalies

Robert M. Kay, MD

Associate Professor of Orthopedic Surgery, Keck School of Medicine of USC; Orthopedic Surgeon, Children's Hospital Los Angeles, Los Angeles, California

Bone and Joint Infections

Kosmas Kayes, MD

Staff Surgeon, Riley Hospital for Children and St. Vincent Children's Hospital, Indianapolis, Indiana

Major Congenital Orthopedic Deformities

Mark L. Kayton, MD

Assistant Member, Memorial Sloan-Kettering Cancer Center; Assistant Attending Surgeon, Division of Pediatric Surgery, Memorial Hospital, New York, New York

Surgical Implications Associated with Bone Marrow Transplantation

Robert E. Kelly, Jr., MD, FACS, FAAP

Associate Professor of Clinical Surgery and Pediatrics, Eastern Virginia Medical School, Children's Hospital of the King's Daughters, Norfolk, Virginia

The Nuss Procedure for Pectus Excavatum [Chapter 59]

Stephen S. Kim, MD

Assistant Professor of Surgery, University of Washington School of Medicine; Attending, Division of Pediatric Surgery, Children's Hospital and Regional Medical Center, Seattle, Washington

Necrotizing Enterocolitis

Michael D. Klein, MD

Arvin I. Philippart Chair and Professor of Surgery, Wayne State University School of Medicine; Surgeon-in-Chief, Children's Hospital of Michigan, Detroit, Michigan

Congenital Defects of the Abdominal Wall

Giannoula Klement, MD

Instructor in Pediatrics (Hematology-Oncology), Harvard University Medical School; Assistant in Pediatrics, Children's Hospital Boston, Boston, Massachusetts

Vascular Anomalies: Hemangiomas and Malformations

Matthew J. Krasin, MD

Assistant Member and Radiation Oncologist, St. Jude Children's Research Hospital, Memphis, Tennessee
Principles of Pediatric Oncology, Genetics of Cancer, and Radiation Therapy

Thomas M. Krummel, MD, FACS

Professor in Surgery, Stanford University School of Medicine; Service Chief, Surgery, Stanford Hospital & Clinics, Stanford; Susan B. Ford Surgeon-in-Chief, Lucile Packard Children's Hospital at Stanford, Palo Alto, California
New and Emerging Surgical Technologies and the Process of Innovation

Jean-Martin Laberge, MD, FRCSC, FACS

Professor of Surgery, McGill University Faculty of Medicine; Director, Division of Pediatric General Surgery, The Montreal Children's Hospital, Montreal, Quebec, Canada
Infections and Diseases of the Lungs, Pleura, and Mediastinum

Ira S. Landsman, MD

Associate Professor of Anesthesiology and Pediatrics, Vanderbilt University School of Medicine; Director, Division of Pediatric Anesthesia, Vanderbilt Children's Hospital, Nashville, Tennessee
Pediatric Anesthesia

Michael P. La Quaglia, MD

Professor of Surgery, Weill Medical College of Cornell University; Chief, Pediatric Surgical Service, Memorial Sloan-Kettering Cancer Center, New York, New York
Hodgkin's Disease and Non-Hodgkin's Lymphoma

Stanley T. Lau, MD

Pediatric Surgery Fellow, Women and Children's Hospital of Buffalo, Buffalo, New York
Adrenal Tumors

Steven L. Lee, MD

Regional Pediatric Surgeon, Kaiser Permanente, Los Angeles Medical Center, Los Angeles, California
Duodenal Atresia and Stenosis—Annular Pancreas

Joseph L. Lelli, Jr., MD

Assistant Professor of Surgery, Wayne State Medical School; Pediatric Surgeon, The Children's Hospital of Michigan, Detroit, Michigan
Polypoid Diseases of the Gastrointestinal Tract

Marc A. Levitt, MD

Assistant Professor of Surgery and Pediatrics, University of Cincinnati College of Medicine; Associate Director, Colorectal Center for Children, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio
Anorectal Malformations

Harry Lindahl, MD, PhD

Lecturer in Pediatrics, University of Helsinki School of Medicine; Chief of Pediatric Surgery, Hospital for Children and Adolescents, Helsinki; University Central Hospital, Helsinki, Finland
Esophagoscopy and Diagnostic Techniques

Thom E. Lobe, MD

Professor of Surgery and Pediatrics, University of Tennessee School of Medicine, Memphis, Tennessee; Pediatric Surgeon, Blank Children's Hospital, Des Moines, Iowa
Other Soft Tissue Tumors

Randall T. Loder, MD

Garceau Professor of Orthopaedic Surgery, Indiana University School of Medicine; Director of Pediatric Orthopaedics, Riley Hospital for Children, Indianapolis, Indiana
Amputations in Children

Thomas G. Luerksen, MD

Professor of Neurological Surgery, Indiana University School of Medicine; Chief, Pediatric Neurosurgery Service, Riley Hospital for Children, Indianapolis, Indiana
Central Nervous System Injuries

Jeffrey R. Lukish, MD

Associate Professor of Surgery and Pediatrics, Uniformed Services University of the Health Sciences F. Edward Hébert School of Medicine, Bethesda, Maryland; Chief, Division of Pediatric Surgery, and Attending Pediatric Surgeon, The National Naval Medical Center and Walter Reed Army Medical Center, Washington, DC
Accident Victims and Their Emergency Management

Dennis P. Lund, MD

Chairman, Division of General Surgery, University of Wisconsin-Madison, and Surgeon-in-Chief, UW Children's Hospital, Madison, Wisconsin
Alimentary Tract Duplications

Mary Beth Madonna, MD

Assistant Professor of Surgery, Northwestern University Feinberg School of Medicine; Attending Surgeon, Children's Memorial Hospital and John H. Stroger, Jr. Hospital of Cook County, Chicago, Illinois
Gastrointestinal Bleeding

John C. Magee, MD

Associate Professor of Surgery, University of Michigan Medical School; Director, Adult and Pediatric Renal Transplantation, and Director, Pediatric Liver Transplantation, University of Michigan Health System, Ann Arbor, Michigan
Renal Transplantation

Giuseppe Martucciello, MD

Associate Professor of Pediatric Surgery, Faculty of Medicine, University of Genoa, Genoa, and University of Pavia, Pavia; Director, and Surgeon-in-Chief, Department of Pediatric Surgery, IRCCS Scientific Institute Policlinico San Matteo, Pavia, Italy
Hirschsprung's Disease and Related Neuromuscular Disorders of the Intestine

Stephen J. Mathes, MD

Professor of Surgery and Head, Division of Plastic and Reconstructive Surgery, University of California, San Francisco, School of Medicine, San Francisco, California

Congenital Defects of the Skin, Connective Tissues, Muscles, Tendons, and Hands

Eugene D. McGahren III, MD

Associate Professor of Surgery and Pediatrics, University of Virginia School of Medicine; Pediatric Surgeon, University of Virginia Health System, Charlottesville, Virginia

Laryngoscopy, Bronchoscopy, and Thoracoscopy; Ascites

Leslie T. McQuiston, MD, FAAP

Staff Pediatric Urologist, Urology Associates of North Texas, Cook Children's Hospital, Fort Worth, Texas

Renal Infection, Abscess, Vesicoureteral Reflux, Urinary Lithiasis, and Renal Vein Thrombosis

Peter Metcalfe, MD, FRCS

Pediatric Urology Fellow, Indiana University School of Medicine and Riley Hospital for Children, Indianapolis, Indiana

Incontinent and Continent Urinary Diversion

Alastair J. W. Millar, MBChB(Cape Town), FRCS, FRACS, FCS(SA), DCh

Honorary Professor, Paediatric Transplantation and Hepatopancreaticobiliary Surgery, University of Birmingham; Consultant, Paediatric Liver and Intestinal Transplantation and Hepatopancreaticobiliary Surgery, Birmingham Children's Hospital, Birmingham, United Kingdom

Caustic Strictures of the Esophagus

Eugene Minevich, MD, FACS, FAAP

Assistant Professor of Surgery, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio

Structural Disorders of the Bladder, Augmentation

Edward P. Miranda, MD

Professor of Surgery, Division of Plastic Surgery, University of California, San Francisco, School of Medicine, San Francisco, California

Congenital Defects of the Skin, Connective Tissues, Muscles, Tendons, and Hands

Michael E. Mitchell, MD

Professor of Urology, University of Washington School of Medicine; Chief, Pediatric Urology, Children's Hospital and Regional Medical Center, Seattle, Washington

Ureteropelvic Junction Obstruction

Takeshi Miyano, MD, PhD

Professor, Department of Pediatric Surgery, Juntendo University School of Medicine; Director, Juntendo University Hospital, Tokyo, Japan

The Pancreas

Delora Mount, MD, FACS, FAAP

Assistant Professor of Surgery and Pediatrics, University of Wisconsin School of Medicine and Public Health; Chief of Pediatric Plastic Surgery, University of Wisconsin Hospital and Clinics; Director, Craniofacial Anomalies Clinic, American Family Children's Hospital, Madison, Wisconsin

Hand, Soft Tissue, and Envenomation Injuries

Pierre Mouriouand, MD

Professor of Pediatric Urology, Claude-Bernard University Medical School; Head, Department of Pediatric Urology, Debrousse Hospital, Lyon, France

Renal Fusions and Ectopia

Noriko Murase, MD

Associate Professor of Surgery, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania

Principles of Transplantation

J. Patrick Murphy, MD

Professor of Surgery, University of Missouri-Kansas City School of Medicine; Chief, Urology Section, Children's Mercy Hospital of Kansas City, Kansas City, Missouri

Abnormalities of the Urethra, Penis, and Scrotum

Saminathan S. Nathan, MD

Director, Musculoskeletal Oncology Service, Department of Orthopaedics, National University Hospital, Singapore, Singapore

Bone Tumors

Kurt D. Newman, MD

Professor of Surgery and Pediatrics, George Washington University School of Medicine and Health Sciences; Surgeon-in-Chief, Children's National Medical Center; Executive Director, Joseph E. Robert, Jr. Center for Surgical Care, Washington, DC

Lymph Node Disorders

Alp Numanoglu, MD, FCS(SA)

Senior Lecturer in Paediatric Surgery, University of Cape Town School of Child and Adolescent Health; Senior Specialist, Department of Paediatric Surgery, Red Cross Children's Hospital, Institute of Child Health, Cape Town, South Africa

Caustic Strictures of the Esophagus

Donald Nuss, MB, ChB, FRCS(C), FACS, FAAP

Professor of Clinical Surgery and Pediatrics, Eastern Virginia Medical School; Children's Hospital of the King's Daughters, Norfolk, Virginia

The Nuss Procedure for Pectus Excavatum [Chapter 59]

Richard Ohye, MD

Assistant Professor of Surgery, University of Michigan Medical School; Surgical Director, Pediatric Cardiac Transplantation, and Director, Pediatric Cardiovascular Surgery Fellowship Program, C.S. Mott Children's Hospital, Ann Arbor, Michigan

Congenital Heart Disease and Anomalies of the Great Vessels

Keith T. Oldham, MD

Professor of Surgery, Medical College of Wisconsin;
Surgeon-in-Chief, Children's Hospital of Wisconsin,
Milwaukee, Wisconsin
Atresia, Stenosis, and Other Obstructions of the Colon

James A. O'Neill, Jr., MD, MA(Hon)

J.C. Foshee Professor and Chairman Emeritus,
Section of Surgical Sciences, Vanderbilt University
School of Medicine; Surgeon-in-Chief Emeritus,
Vanderbilt University Medical Center, Nashville,
Tennessee
*Choledochal Cyst; Bladder and Cloacal Exstrophy; Conjoined Twins;
Arterial Disorders*

Evelyn Ong, MBBS, BSc, FRCS(Eng)

Joint Royal College of Surgeons of England/British
Association of Paediatric Surgeons Research Fellow;
Department of Paediatric Surgery, Institute of Child
Health, University College London; Clinical Research
Fellow, Great Ormond Street Hospital for Children
NHS Trust, London, United Kingdom
Neonatal Physiology and Metabolic Considerations

William L. Oppenheim, MD

Professor of Orthopedic Surgery, David Geffen School
of Medicine at UCLA; Director of Pediatric
Orthopedics, UCLA Medical Center; Consultant,
Shriners Hospital of Los Angeles, Los Angeles,
California
Bone and Joint Infections

H. Biemann Othersen, Jr., MD

Professor of Surgery and Pediatrics and Emeritus Head,
Division of Pediatric Surgery, Medical University of
South Carolina College of Medicine; Attending Surgeon,
MUSC Children's Hospital, Charleston, South Carolina
Wilms' Tumor

Mikki Pakarinen, MD, PhD

Consultant Pediatric Surgeon, Hospital for Children
and Adolescents, University of Helsinki Medical Faculty,
Helsinki, Finland
Other Disorders of the Anus and Rectum, Anorectal Function

Keshav Pandurangi, MD

Vascular Surgery Fellow, Indiana University
School of Medicine, Indianapolis, Indiana
Venous Disorders in Childhood

Richard H. Pearl, MD, FACS, FAAP, FRCSC

Professor of Surgery and Pediatrics, University of
Illinois College of Medicine at Peoria; Surgeon-in-Chief,
Children's Hospital of Illinois, Peoria, Illinois
Abdominal Trauma

Alberto Peña, MD

Professor of Surgery and Pediatrics, University of
Cincinnati College of Medicine; Director, Colorectal
Center for Children, Cincinnati Children's Hospital
Medical Center, Cincinnati, Ohio
Anorectal Malformations

Rafael V. Pieretti, MD

Chief, Section of Pediatric Urology,
Department of Pediatric Surgery,
Massachusetts General Hospital, Boston, Massachusetts
Ambiguous Genitalia

Agostino Pierro, MD, FRCS(Eng), FRCS(Ed), FAAP

Nuffield Professor of Paediatric Surgery and Head of
Surgery Unit, Institute of Child Health, University
College London; Consultant Paediatric Surgeon, Great
Ormond Street Hospital for Children NHS Trust,
London, United Kingdom
Neonatal Physiology and Metabolic Considerations

William P. Potsic, MD, MMM

Professor of Otorhinolaryngology—Head and Neck
Surgery, University of Pennsylvania School of Medicine;
Director, Division of Otolaryngology, and Vice Chair for
Clinical Affairs, The Children's Hospital of
Philadelphia, Philadelphia, Pennsylvania
Otolaryngologic Disorders

Pramod S. Puligandla, MD, MSc, FRCSC

Assistant Professor of Surgery and Pediatrics,
McGill University Faculty of Medicine; Attending Staff,
Division of Pediatric Surgery and Pediatric Critical Care
Medicine, The Montreal Children's Hospital of the
McGill University Health Center, Montreal,
Quebec, Canada
Infections and Diseases of the Lungs, Pleura, and Mediastinum

Devin P. Puapong, MD

Senior Surgical Resident, Kaiser Permanente Medical
Center, Los Angeles, California
Duodenal Atresia and Stenosis—Annular Pancreas

Prem Puri, MS, FRCS, FRCS(Edin), FACS

Professor of Paediatrics, University College Dublin;
Consultant Paediatric Surgeon and Director of
Research, Children's Research Centre, Our Lady's
Hospital for Sick Children, Crumlin, Dublin, Ireland
Intestinal Neuronal Dysplasia

Judson G. Randolph, MD

Professor of Surgery Emeritus, George Washington
University School of Medicine and Health Sciences;
Former Surgeon-in-Chief, Children's National Medical
Center, Washington, DC
A Brief History of Pediatric Surgery

Frederick J. Rescorla, MD

Professor of Surgery, Indiana University School of
Medicine; Surgeon-in-Chief, Riley Hospital for
Children, Indianapolis, Indiana
The Spleen

Jorge Reyes, MD

Professor of Surgery, University of Washington School
of Medicine; Chief, Division of Transplant Surgery,
University of Washington Medical Center,
Seattle, Washington
Principles of Transplantation

Richard R. Ricketts, MD

Professor of Surgery, Emory University School of Medicine; Chief, Division of Pediatric Surgery, Children's Health Care of Atlanta at Egleston, Atlanta, Georgia
Mesenteric and Omental Cysts

Richard C. Rink, MD

Robert A. Garrett Professor of Pediatric Urologic Research and Professor of Urology, Indiana University School of Medicine; Chief, Pediatric Urology, Riley Hospital for Children, Indianapolis, Indiana
Incontinent and Continent Urinary Diversion

Risto J. Rintala, MD

Professor of Pediatric Surgery, University of Helsinki Medical Faculty; Chief, General Pediatric Surgery, Hospital for Children and Adolescents, Helsinki, Finland
Other Disorders of the Anus and Rectum, Anorectal Function

Albert P. Rocchini, MD

Professor of Pediatrics and Director of Pediatrics Cardiology, University of Michigan Medical School; Director of Pediatric Cardiology, University of Michigan Hospital, Ann Arbor
Neonatal Cardiovascular Physiology and Care

Heinz Rode, M Med(Chir), FCS(SA), FRCS(Edin)

Professor of Paediatric Surgery, University of Cape Town School of Child and Adolescent Health; Head of Pediatric Surgery, Red Cross Children's Hospital, Institute of Child Health, Cape Town, South Africa
Caustic Strictures of the Esophagus

Bradley M. Rodgers, MD

Professor of Surgery and Pediatrics, University of Virginia School of Medicine; Chief, Division of Pediatric Surgery, Department of Surgery, University of Virginia Medical Center; Chief, Children's Surgery, UVA Children's Hospital, Charlottesville, Virginia
Laryngoscopy, Bronchoscopy, and Thoracoscopy

A. Michael Sadove MD, MS

James Harbaugh Professor of Surgery (Plastic), Indiana University School of Medicine; Chief of Plastic Surgery, Riley Hospital for Children, Indianapolis; Chairman of Surgery, Clarian North Medical Center, Carmel, Indiana
Cleft Lip and Palate

Bob H. Saggi, MD

Assistant Professor of Surgery, Department of Surgery, Division of Immunology and Organ Transplantation, University of Texas Medical School at Houston; Staff Surgeon, Memorial Hermann Hospital, Houston, Texas
Liver Transplantation

Arthur P. Sanford, MD

Assistant Professor of Surgery, The University of Texas Medical Branch School of Medicine at Galveston; Staff Physician, Shriners Burns Hospital, Galveston, Texas
Burns

L. R. Scherer III, MD

Associate Professor of Clinical Medicine, Indiana University School of Medicine; Director of Trauma, Riley Hospital for Children, Indianapolis, Indiana
Peptic Ulcer and Other Conditions of the Stomach

Jay J. Schnitzer, MD, PhD

Associate Professor of Surgery, Harvard Medical School; Associate Visiting Surgeon, Massachusetts General Hospital, Boston, Massachusetts
Ambiguous Genitalia

Marshall Z. Schwartz, MD

Professor of Surgery and Pediatrics, Drexel University College of Medicine; Director, Pediatric Surgery Research Laboratory, and Surgical Director, Pediatric Renal Transplantation, St. Christopher's Hospital for Children, Philadelphia, Pennsylvania
Hypertrophic Pyloric Stenosis

Robert C. Shamberger, MD

Robert E. Gross Professor of Surgery, Harvard Medical School; Chief, Department of Surgery, Children's Hospital Boston, Boston, Massachusetts
Congenital Chest Wall Deformities

Nina L. Shapiro, MD

Associate Professor of Surgery/Pediatric Otolaryngology, David Geffen School of Medicine at UCLA; Attending Surgeon, UCLA Medical Center, Los Angeles, California
Salivary Glands

Curtis A. Sheldon, MD

Professor, University of Cincinnati College of Medicine; Professor and Director (Pediatric Urology), Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio
Structural Disorders of the Bladder, Augmentation

Stephen J. Shochat, MD

Professor of Surgery and Pediatrics, University of Tennessee School of Medicine; Surgeon-in-Chief and Chairman, Department of Surgery, St. Jude Children's Research Hospital, Memphis, Tennessee
Tumors of the Lung

Michael A. Skinner, MD

Associate Professor of Surgery and Pediatric Surgery, Duke University School of Medicine, Durham, North Carolina
Surgical Diseases of the Thyroid and Parathyroid Glands

C. D. Smith, MD, MS

Associate Professor of Surgery and Pediatrics,
Medical University of South Carolina College of
Medicine; Attending, Division of Pediatric Surgery,
MUSC Medical Center, Charleston, South Carolina
Cysts and Sinuses of the Neck

Jodi L. Smith, MD, PhD

Assistant Professor of Neurological Surgery,
Department of Neurological Surgery, Indiana University
School of Medicine; Pediatric Neurosurgeon,
Riley Hospital for Children, Indianapolis,
Indiana
*Management of Neural Tube Defects, Hydrocephalus,
Refractory Epilepsy, and Central Nervous System Infections*

Samuel D. Smith, MD

Professor of Surgery, University of Arkansas for
Medical Sciences College of Medicine; Chief of
Pediatric Surgery, Arkansas Children's Hospital,
Little Rock, Arkansas
Disorders of Intestinal Rotation and Fixation

Charles L. Snyder, MD

Associate Professor of Surgery, University of
Missouri-Kansas City School of Medicine,
Kansas City, Missouri; Clinical Assistant Professor of
Surgery, University of Kansas School of Medicine,
Kansas City, Kansas; Director of Clinical Research,
The Children's Mercy Hospital, Kansas City,
Missouri
Meckel's Diverticulum

**Lewis Spitz, MBChB, MD(Hon), PhD, FRCS, FRCPCH,
FAAP(Hon), FCS(SA)(Hon)**

Emeritus Nuffield Professor of Pediatric Surgery,
Institute of Child Health, University College London;
Consultant Paediatric Surgeon, Great Ormond Street
Hospital, London, United Kingdom
Esophageal Replacement

Thomas L. Spray, MD

Professor of Surgery, University of Pennsylvania School
of Medicine; Chief, Division of Cardiothoracic Surgery,
and Alice Langdon Warner Endowed Chair in Pediatric
Cardiothoracic Surgery, The Children's Hospital of
Philadelphia, Philadelphia, Pennsylvania
Heart Transplantation

Thomas E. Starzl, MD, PhD

Distinguished Service Professor of Surgery,
University of Pittsburgh School of Medicine;
Director Emeritus, Thomas E. Starzl Transplantation
Institute, Pittsburgh, Pennsylvania
Principles of Transplantation

Charles J. H. Stolar, MD

Professor of Surgery and Pediatrics, Columbia
University College of Physicians and Surgeons; Chief,
Pediatric Surgery, Morgan Stanley Children's Hospital
of New York-Presbyterian, New York, New York
Congenital Diaphragmatic Hernia and Eventration

Phillip B. Storm, MD

Assistant Professor of Neurosurgery, University of
Pennsylvania School of Medicine; Attending
Neurosurgeon, Hospital of the University of
Pennsylvania and The Children's Hospital of
Philadelphia, Philadelphia, Pennsylvania
Brain Tumors

Steven Stylianos, MD

Professor of Surgery, University of Miami Leonard
M. Miller School of Medicine; Chief, Department of
Pediatric Surgery, Miami Children's Hospital,
Miami, Florida
Abdominal Trauma

Wendy T. Su, MD

Fellow, Pediatric Surgical Service, Memorial
Sloan-Kettering Cancer Center, New York, New York
Hodgkin's Disease and Non-Hodgkin's Lymphoma

Riccardo Superina, MD, CM, FRCSC, FACS

Professor of Surgery, Northwestern University,
Director, Transplant Surgery, Children's Memorial
Hospital, Chicago, Illinois
Portal Hypertension

David E. R. Sutherland, MD, PhD

Professor of Surgery, University of Minnesota Medical
School; Head, Transplant Division, and Director,
Diabetes Institute for Immunology and Transplantation,
University of Minnesota Medical Center, Fairview,
Minneapolis, Minnesota
Pancreas and Islet Cell Transplantation

Leslie N. Sutton, MD

Professor of Neurosurgery, University of Pennsylvania
School of Medicine; Chairman, Division of Pediatric
Neurosurgery, The Children's Hospital of Philadelphia,
Philadelphia, Pennsylvania
Brain Tumors

Edward P. Tagge, MD

Professor of Surgery and Pediatrics, Division of
Pediatric Surgery, Medical University of South Carolina
College of Medicine; Attending Surgeon, MUSC
Children's Hospital, Charleston, South Carolina
Wilms' Tumor

Daniel H. Teitelbaum, MD

Professor of Surgery, University of Michigan Medical
School; Pediatric Surgeon, C.S. Mott Children's
Hospital, Ann Arbor, Michigan
*Nutritional Support; Hirschsprung's Disease and Related
Neuromuscular Disorders of the Intestine*

Claire L. Templeman, MD

Assistant Professor of Clinical Gynecology and Surgery,
Keck School of Medicine at USC; Pediatric Surgeon,
Children's Hospital Los Angeles, Los Angeles,
California
Ovarian Tumors

Gonca Topuzlu Tekant, MD

Associate Professor of Pediatric Surgery,
Istanbul University School of Medicine;
Pediatric Surgeon, Cerrahpasa Medical Faculty,
Istanbul, Turkey

Gastroesophageal Reflux Disease

Joseph J. Tepas III, MD

Professor of Surgery and Pediatrics, University of
Florida College of Medicine;
Staff Physician, Shands Jacksonville,
Jacksonville, Florida

Vascular Injuries

Patrick B. Thomas, MD

Pediatric Surgery Fellow, Texas Children's Hospital,
Baylor College of Medicine, Houston, Texas

Wilms' Tumor

Dana Mara Thompson, MD, MS

Associate Professor of Otorhinolaryngology,
Mayo Graduate School of Medicine;
Attending, Otorhinolaryngology Department,
Mayo Clinic, Rochester, Minnesota

Lesions of the Larynx, Trachea, and Upper Airway

Juan A. Tovar, MD, PhD

Professor of Surgical Pediatrics, Department of
Pediatrics, Universidad Autonoma de Madrid;
Head, Department of Pediatric Surgery,
Hospital Universitario LaPaz, Madrid, Spain

Disorders of Esophageal Function

Jeffrey S. Upperman, MD, MA

Assistant Professor of Surgery, Keck School of
Medicine of USC; Attending Surgeon, Children's
Hospital Los Angeles, Los Angeles, California

Sepsis and Related Considerations

Joseph P. Vacanti, MD

John Homans Professor of Surgery, Harvard Medical
School; Chief, Pediatric Surgery, Massachusetts
General Hospital, Boston, Massachusetts

The Impact of Tissue Engineering in Pediatric Surgery

Dennis W. Vane, MD, MS, MBA

Professor of Surgery, University of Vermont College
of Medicine; Chair, Pediatric Surgery, and Vice-Chair,
Clinical Affairs, Department of Surgery,
Fletcher Allen Health Care, Burlington,
Vermont

Child Abuse and Birth Injuries

Mirjana Vustar, MD

Assistant Professor of Anesthesiology and Pediatrics,
Vanderbilt University School of Medicine; Director,
Pediatric Anesthesia Education, Vanderbilt Children's
Hospital, Nashville, Tennessee

Pediatric Anesthesia

Brad W. Warner, MD

Professor of Surgery and Pediatrics, University of
Cincinnati College of Medicine; Attending Surgeon and
Director of Surgical Research, Division of Pediatric
General and Thoracic Surgery, Cincinnati Children's
Hospital Medical Center, Cincinnati, Ohio

Short-Bowel Syndrome

Thomas R. Weber, MD

Professor of Surgery, Saint Louis University School
of Medicine; Director, Pediatric Surgery, Cardinal
Glennon Children's Hospital, St. Louis, Missouri

Esophageal Rupture and Perforation

David E. Wesson, MD

Professor of Surgery and Chief, Division of Pediatric
Surgery, Baylor College of Medicine; Chief,
Pediatric Surgery Service, Texas Children's
Hospital, Houston, Texas

Thoracic Injuries

Karen W. West, MD

Professor of Surgery, Indiana University School of
Medicine; Director of ECMO, Riley Hospital for
Children, Indianapolis, Indiana

Primary Peritonitis

Ralph F. Wetmore, MD

Professor of Otorhinolaryngology-Head and Neck
Surgery, University of Pennsylvania School of Medicine;
Senior Surgeon, The Children's Hospital of
Philadelphia, Philadelphia, Pennsylvania

Otolaryngologic Disorders

Eugene Wiener, MD

Professor, Department of Surgery (Pediatric), University
of Pittsburgh School of Medicine; Executive
Vice President and Chief Medical Officer, Children's
Hospital of Pittsburgh, Pittsburgh, Pennsylvania

Testicular Tumors

Jay M. Wilson, MD

Associate Professor of Surgery, Harvard
Medical School; Attending, Children's Hospital Boston,
Boston, Massachusetts

Respiratory Physiology and Care

Russell K. Woo, MD

Instructor in Surgery, Department of Surgery,
Stanford University School of Medicine;
Staff Physician, Stanford Hospital and Clinic, Stanford,
and Lucile Packard Children's Hospital at Stanford,
Palo Alto, California

*New and Emerging Surgical Technologies and
the Process of Innovation*

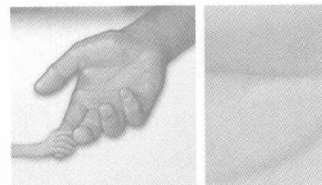
Hsi-Yang Wu, MD
 Assistant Professor of Urology, University of Pittsburgh
 School of Medicine; Director of Pediatric Urology
 Research, Children’s Hospital of Pittsburgh,
 Pittsburgh, Pennsylvania
Testicular Tumors

Elizabeth Yerkes, MD
 Assistant Professor of Urology,
 Feinberg School of Medicine at Northwestern
 University; Attending Urologist, Children’s Memorial
 Hospital, Chicago, Illinois
Incontinent and Continent Urinary Diversion

Daniel G. Young, MBChB, FRCS(Edin, Glasg), DTM&H
 Honorary Senior Research Fellow, University of
 Glasgow; Former Head (Retired), Department of
 Surgical Pediatrics, Royal Hospital for Sick Children,
 Glasgow, United Kingdom
A Brief History of Pediatric Surgery

Moritz M. Ziegler, MD
 Professor of Surgery, Division of Pediatric Surgery,
 University of Colorado School of Medicine;
 Surgeon-in-Chief, The Children’s Hospital, Denver,
 Colorado
Meconium Ileus

译校者名单



主 译

吴晔明 上海交通大学医学院附属上海儿童医学中心

副主译

施诚仁 上海交通大学医学院附属新华医院
蔡 威 上海交通大学医学院附属新华医院
刘锦纷 上海交通大学医学院附属上海儿童医学中心
刘国华 上海交通大学医学院附属上海第一人民医院
董其刚 上海交通大学医学院附属新华医院

主译助理

顾 松 上海交通大学医学院附属上海儿童医学中心

译校者 (按姓氏笔画排序)

重庆医科大学附属儿童医院 王 珊
南京医科大学附属南京市儿童医院 王 浩
郑州大学第一附属医院 文建国
天津市儿童医院 叶祖萍
复旦大学附属儿科医院 吕志葆
苏州大学附属儿童医院 朱锦祥
上海交通大学医学院附属上海第一人民医院 刘国华
上海交通大学医学院附属瑞金医院 许 恩
宁夏医学院附属医院 杜 勇
北京首都儿科研究所 李 龙
浙江大学医学院附属儿童医院 李民驹
安徽省立医院 李巍松
苏州大学附属儿童医院 汪 健