CURRENT OPERATIVE UROLOGY

1992

E. DOUGLAS WHITEHEAD

J. B. Lippincott Company

CURRENT OPERATIVE UROLOGY / 1992

Edited by

E. Douglas Whitehead, M.D.

Assistant Clinical Professor of Urology Mount Sinai School of Medicine; Associate Attending Urologist Department of Urology Beth Israel Medical Center New York, New York

53 Contributors



Acquisitions Editor: Mary K. Smith Production Manager: Lori J. Bainbridge

Assistant Editor: Anne Geyer Indexer: The Manuscript Doctors

Production: The Bookmakers Incorporated Compositor: The Bookmakers Incorporated Printer/Binder: Arcata Graphics/Halliday

Copyright © 1992, by J. B. Lippincott Company. All rights reserved. No part of this book may be used or reproduced in any manner whatsoever without written permission except for brief quotations embodied in critical articles and reviews. Printed in the United States of America. For information write J. B. Lippincott Company, East Washington Square, Philadelphia, Pennsylvania 19105.

1 3 5 6 4 2

ISBN 0-397-51076-4 ISSN 0897-3814

The authors and publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new or infrequently employed drug.

CONTRIBUTORS

RANDAL A. AABERG, M.D.

Holladay Park Medical Center Good Samaritan Hospital Corballis, Oregon

PETER R. CARROLL, M.D.

Assistant Professor Department of Urology University of California, San Francisco School of Medicine San Francisco, California

ALEXANDER S. CASS, M.D.

Associate Professor of Urology University of Minnesota Staff Urologist Hennepin County Medical Center Minneapolis, Minnesota

BERNARD M. CHURCHILL, M.D., FRCS(S)

Professor of Surgery
University of Toronto Faculty of Medicine
Chief of Urology
Hospital for Sick Children
Toronto, Ontario
Canada

CHARLES J. DEVINE, JR., M.D.

Professor of Urology
Eastern Virginia Medical School
Devine Center for Genitourinary Reconstructive Surgery
Sentard Norfolk General Hospital
Children's Hospital of the Kings Daughters
Norfolk, Virginia

MICHAEL J. DROLLER, M.D.

Professor and Chairman
Department of Urology
The Mount Sinai Medical Center
New York, New York

JACKSON E. FOWLER, Jr., M.D.

Professor and Chairman
Division of Urology
University of Mississippi School of Medicine
Chief of Urology
University of Mississippi Medical Center
Veterans Administration Medical Center
Jackson, Mississippi

ISRAEL FRANCO, M.D.

Instructor of Urology Albert Einstein College of Medicine Assistant Professor of Urology New York Medical Center New York, New York

JOHN P. GEARHART, M.D.

Associate Professor of Pediatric Urology Johns Hopkins University School of Medicine Director of Pediatric Urology James Buchanan Brady Urological Institute Baltimore, Maryland

WILLIAM GRAHAM GUERRIERO, M.D.

Professor of Urology
Director of Abdominal Transplantation
Baylor College of Medicine
Surgical Director Kidney Transplantation
The Methodist Hospital
Texas Children's Hospital
Houston, Texas

EDWIN P. HARMON, M.D.

Associate Professor of Pediatric Urology Tulane University Medical Center Assistant Medical Director for Surgical Services Urology Department Children's Hospital New Orleans, Louisiana

W. HARDY HENDREN, M.D.

Robert E. Gross Professor of Surgery Harvard Medical School Children's Hospital Boston, Massachusetts

IRVIN H. HIRSCH, M.D.

Associate Professor of Urology Jefferson Medical College Thomas Jefferson University Hospital Philadelphia, Pennsylvania

DOUGLAS A. HUSMANN, M.D.

Assistant Professor
Department of Urology
Mayo Medical School
Consultant, Department of Urology
Section of Pediatric Urology
Mayo Clinic and Mayo Foundation
Rochester, Minnesota

DOUGLAS E. JOHNSON, M.D.

Professor of Urology
WA "Tex" & Deborah Moncrief, Jr. Chair in Urology
University of Texas Medical School at Houston
MD Anderson Cancer Center
Department of Urology
Houston, Texas

GERALD H. JORDAN, M.D.

Associate Professor of Urology
Eastern Virginia Medical School
Devine Center for Genitourinary Reconstructive Surgery
Sentard Norfolk General Hospital
Children's Hospital of the Kings Daughters
Norfolk, Virginia

GEORGE W. KAPLAN, M.D.

Clinical Professor of Surgery and Pediatrics University of California, San Diego, School of Medicine Chief of Urology Children's Hospital San Diego, California

ANTOINE E. KHOURY, M.D., FRCS(C)

Associate Professor of Surgery University of Toronto Faculty of Medicine Division of Urology Hospital for Sick Children Toronto, Ontario Canada

LESTER A. KLEIN, M.D.

Urologic Surgeon Scripps Clinic La Jolla, California

STANLEY KOGAN, M.D.

Clinical Professor of Urology New York Medical College Visiting Associate Professor of Pediatrics Albert Einstein College for Medicine Co-Director of Pediatric Urology Westchester County Medical Center Valhalla, New York

STEPHEN A. KRAMER, M.D.

Associate Professor of Urology and Consultant Department of Urology Mayo Clinic and Foundation Mayo Medical School Consultant St. Mary's Hospital Rochester, Minnesota

ELROY D. KURSH, M.D.

Associate Professor of Surgery/Urology Case Western Reserve University School of Medicine University Hospitals of Cleveland Cleveland, Ohio

ELLIOT LEITER, M.D.

Clinical Professor of Urology (retired) Mount Sinai School of Medicine New York, New York

SELWYN B. LEVITT, M.D., FAUA, FAAP, FACS

Director of Urology
New York Medical College
Valhalla, New York
Visiting Clinical Professor of Pediatrics
Albert Einstein Medical Center
Bronx, New York
Co-Director of Section of Urology
West Chester City Medical Center
Valhalla, New York

RONALD W. LEWIS, M.D.

Professor of Urology Mayo School of Medicine Consultant in Urology Mayo Clinic and Mayo Foundation Rochester, Minnesota

FRAY F. MARSHALL, M.D.

Professor of Urology Director, Division of Adult Urology Johns Hopkins University School of Medicine Johns Hopkins Hospital Baltimore, Maryland

JACK W. McANINCH, M.D.

Professor of Urology

University of California, San Francisco, School of Medicine

Chief of Urology

San Francisco General Hospital

San Francisco, California

W. SCOTT McDOUGAL, M.D.

Professor of Surgery

Harvard Medical School

Chief of Urology

Massachusetts General Hospital

Boston, Massachusetts

GORDON A. McLORIE, M.D. FRCS(C)

Associate Professor of Surgery

University of Toronto Faculty of Medicine

Division of Urology

Hospital for Sick Children

Toronto, Ontario

Canada

PAUL A. MERGUERIAN, M.D.

Associate Professor of Surgery, Urology and Maternal

and Child Health

Dartmouth Medical School

Staff Pediatric Urologist

Section of Urology

Dartmouth Hitchcock Medical Center

Lebanon, New Hampshire

JAMES E. MONTIE, M.D.

Cleveland Clinic Florida

Fort Lauderdale, Florida

WILLIAM R. MORGAN, M.D.

Assistant Professor Department of Surgery

Section of Urology

Yale University School of Medicine

New Haven, Connecticut

HARRIS M. NAGLER, M.D., FACS

Professor of Urology

Mount Sinai School of Medicine

Director, Department of Urology

Beth Israel Medical Center

New York, New York

LEROY M. NYBERG, M.D.

Director of Urology Program

Division of Kidney, Urologic and Hematologic Diseases

National Institutes of Health

Bethesda, Maryland

ALBERTO PEÑA, M.D.

Professor of Surgery

Albert Einstein College of Medicine

Bronx, New York

Chief, Pediatric Surgery

Schneider Children's Hospital

Long Island Jewish Medical Center

New Hyde Park, New York

PAUL C. PETERS, M.D.

E. E. and Greer Garson Fogelson Distinguished Chair

in Urology

Professor and Chairman, Division of Urology

University of Texas Health Science Center

Southwestern Medical School

Chief of Urology

Zale Lipshy University Hospital

Parkland Memorial Hospital

Dallas, Texas

J. EDSON PONTES, M.D.

Professor and Chairman

Department of Urology

Wayne State University

Chief of Urology

Harper Hospital/Detroit Medical Center

Detroit, Michigan

JOSEPH C. PRESTI, JR., M.D.

Fellow in Urologic Services

Department of Urology

Memorial Sloan Kettering Cancer Center

New York, New York

JACOB RAJFER, M.D.

Professor, Division of Urology

Department of Surgery

University of California, Los Angeles, School of Medicine

Chief of Urology

Harbor/UCLA Medical Center

Torrance, California

JACOB RAMON, M.D.

Associate Professor

Department of Urology

The Sheba Medical Center

Tel-Hashomer

Israel

BETH RAUCHER, M.D., FACP

Assistant Professor of Medicine

Mount Sinai School of Medicine

Attending, Infectious Disease

Hospital Epidemiologist

Beth Israel Medical Center

New York, New York

EDWARD F. REDA, M.D., FAAP

Assistant Professor of Urology New York Medical College Valhalla, New York Director of Pediatric Urology Lincoln Hospital Bronx, New York

PRATAP K. REDDY, M.D.

Professor of Urologic Surgery University of Minnesota Chief of Urology Veterans Affairs Medical Center Minneapolis, Minnesota

HAL C. SCHERZ, M.D., MS

Assistant Clinical Professor of Surgery/Urology University of California, San Diego, School of Medicine Senior Staff, Pediatric Urology Children's Hospital and Health Center San Diego, California

STANWOOD S. SCHMIDT, M.D.

Research Associate in Urology University of California Medical School Active Staff, Eureka General Hospital St. Joseph's Hospital, Eureka, California Courtesy Staff, Mad River Hospital, Arcata, California Redwood Hospital, Fortuna, California Sutter Coast Hospital, Crescent City, California

HOWARD McC. SNYDER III, M.D.

Associate Professor of Urology in Surgery University of Pennsylvania School of Medicine Associate Director, Division of Pediatric Urology Children's Hospital of Philadelphia Philadelphia, Pennsylvania

JOSÉ R. SOTOLONGO, JR., M.D.

Associate Professor of Urology Mount Sinai School of Medicine Associate Attending Mount Sinai Hospital New York, New York

RICHARD TURNER-WARWICK, CBE, DSc, Dr(Oxar), FRCP, FRCS, FRCOG, FACS, FRACS(Har)

Robert Luff Foundation Fellow in Reconstructive Urology Senior Surgeon The Middlesex Hospital The St. Peters Hospitals London, England

GEORGE D. WEBSTER, MB, FRCS

Associate Professor of Urology Duke University School of Medicine Duke University Medical Center Durham, North Carolina

ROBERT M. WEISS, M.D.

Professor and Chief Section of Urology Yale University School of Medicine Attending Yale-New Haven Hospital New Haven, Connecticut

RALPH W. DEVERE WHITE, M.D.

Professor and Chair, Department of Urology University of California, Davis UCD Medical Center Sacramento, California

JAMES C. H. WONG, M.D., BSc, MB, BS, FRACS

Consultant Urologist Associate Consultant Urologist Royal Prince Alfred Hospital Sydney, New South Wales Australia

Professor of Urology and Surgery

HORST ZINCKE, M.D.

Mayo Medical School Consultant Departments of Urology and Surgery Mayo Clinic and Rochester Methodist Hospital Rochester, Minnesota

FOREWORD

Urology is a vital specialty. Its growth and evolution warrant rapid dissemination of information. Current Operative Urology 1992, edited by E. Douglas Whitehead, M.D., provides the urologist with a novel and dynamic text format. Areas within urology in which significant new contributions have been made are identified and an article from the literature is reproduced. It is then commented on by an authority in the field. This is followed by an expanded overview of the topic written by an additional expert who attempts to weave a fabric of current information from related topics.

The current edition begins with a focus on surgery for renal carcinoma. The results of surgical extirpation with and without complete lymphadenectomy as well as the impact of vena caval extension are reviewed. This is followed by three articles that outline the results of therapeutic alternatives to radical surgery. This section provides the clinician with a current assessment of the surgical treatment of renal cell carcinoma.

The second section reviews surgery of genitourinary trauma. Each organ of the genitourinary tract is discussed in a separate chapter and is followed by reviews of three commonly seen pediatric anomalies. This section provides the clinician with the current status of the management of these complicated disease processes, perhaps not seen by the clinical urologist since completing a residency.

Management of benign prostatic hypertrophy is seminal to the practices of most urologists. Balloon dilation for prostatic obstruction will undoubtedly become a central part of the management algorithm in clinical practice. No volume on current operative techniques would be complete without its inclusion.

The growing demand for infertility services requires an update on the current approach to varicocele surgery. The anatomic basis for the selection of surgical technique is presented, and the management of the adolescent varicocele is also discussed. This represents one of the most controversial areas in urology.

Laparoscopy has almost instantly changed the practice of our general surgery colleagues, and one can only speculate as to its impact on urology. Therefore, laparoscopy is a technique that warrants the attention of any clinical urologist. The volume concludes with a discussion of laparoscopy as it applies to urologic practice. Laparoscopy has altered the face of general surgery and promises to have a dramatic impact on urology. This is a fitting conclusion to a volume dedicated to current operative urology.

Dr. Whitehead has again assembled a cadre of leaders in urology who will lead the field from 1992 into the future. Their thoughts on these relevant issues will be beacons for the future.

Harris M. Nagler, M.D.

PREFACE

The rapid expansion of knowledge in medicine and surgery demands rapid methods of dissemination and acquisition of information. One method is book form that allows the physician ample time to read, mull over, and consult with colleagues on a particular problem. We have come to believe that a voluminous tome is too long in production and frequently too expensive, and, therefore, ill-suited for rapid transmission of important information.

Because the first and second editions of Current Operative Urology, appearing in 1975 and 1984, were extremely well received by practicing urologists, urology residents, academic urologists, and Directors of urology training programs, both in the United States and abroad, we have decided to follow the original very successful format in Annual Editions. Therefore, highly respected and recognized authorities were invited to participate in this project. The authors of the Commentaries have selected a significant and outstanding recent paper in their area of expertise for reproduction in toto, have critically reviewed their assigned subjects in the Commentary, using the selected paper as the basis for the Commentary, and have provided an Annotated Bibliography. Finally, each subject and contribution has been reviewed by an Overviewer. With this format, newer operative procedures and surgical approaches to urologic problems have been personally evaluated, placed in perspective and, when appropriate, compared with other established surgical methods of management. This time-tested and successful format will be retained in future editions of this publication.

Particularly relevant new operative procedures

and technologies are noted in the current Annual Edition, with sections demonstrating techniques in the treatment of urologic trauma, the surgical management of renal carcinoma, ambiguous genitalia and prune belly syndrome, changing technologies in the evaluation and treatment of male infertility, and a discussion of the impact of both AIDS and hepatitis on the practicing urologist.

Thus, by reading Annual Editions, the practicing urologist and urologist in training will have the opportunity to quickly assess available information and decide which specific recommendations of the nationally and internationally recognized authorities he or she wishes to select for the surgical management of urologic disease.

I wish to extend my sincere gratitude and appreciation to all of the authors who have provided thoughtful, incisive, and, when necessary, provocative and controversial observations in presenting the current management of their subjects. All have unhesitatingly participated in this editorial project in spite of numerous other pressing commitments and have met extremely tight deadlines under difficult circumstances in order to make this Annual Edition possible and timely.

And finally, I wish to acknowledge the continual assistance and cooperation of Mary K. Smith, Acquisitions Editor, and Anne Geyer, Sponsoring Editor of Medical Books at J. B. Lippincott Company, in the preparation of this edition.

E. Douglas Whitehead, M.D.

CONTENTS

PART ONE	
SURGERY FOR RENAL CARCINOMA	1
1	
RESULTS OF 381 TRANSABDOMINAL RADICAL NEPHRECTOMIES FOR RENAL CELL CARCINOMA WITH PARTIAL AND COMPLETE EN BLOC LYMPH-NODE DISSECTION . A. Herrlinger, K. M. Schrott, A. Sigel, and J. Giedl	3
COMMENTARY:	
RADICAL SURGERY FOR UNILATERAL RENAL CELL CARCINOMA Douglas E. Johnson	12
2	
LONG-TERM RESULTS OF RESECTION OF RENAL CELL CANCER WITH EXTENSION INTO INFERIOR VENA CAVA	17
COMMENTARY: SURGERY FOR RENAL CELL CARCINOMA WITH VENA CAVA EXTENSION J. Edson Pontes	22
3	
THE FAILURE OF INFARCTION AND/OR NEPHRECTOMY IN STAGE IV RENAL CELL CANCER TO INFLUENCE SURVIVAL OR METASTATIC REGRESSION	26
COMMENTARY: SURGERY FOR RENAL CARCINOMA WITH REGIONAL AND METASTATIC DISEASE James E. Montie	31
OVERVIEW: RADICAL NEPHRECTOMY, LYMPHADENECTOMY, INTRACAVAL NEOPLASTIC EXTENSIONFray F. Marshall	35

4	
TREATMENT OF RENAL CELL CARCINOMA BY IN SITU PARTIAL NEPHRECTOMY AND EXTRACORPOREAL OPERATION WITH AUTOTRANSPLANTATION	38
COMMENTARY: SURGERY FOR RENAL CELL CARCINOMA IN THE SOLITARY KIDNEY	50
5 CONSERVATIVE SURGERY FOR RENAL CELL CARCINOMA: A SINGLE-CENTER EXPERIENCE WITH 100 PATIENTS	54
COMMENTARY: SURGERY FOR BILATERAL RENAL CELL CARCINOMARalph W. deVere White	61
OVERVIEW: SURGERY FOR RENAL CELL CARCINOMA IN THE SOLITARY KIDNEY AND FOR BILATERAL RENAL CELL CARCINOMA	64
PART TWO	
SURGERY FOR RENAL, URETERAL, BLADDER, URETHRAL, AND GENITAL TRAUMA	67
6	
SURGICAL MANAGEMENT OF RENAL TRAUMA: ANALYSIS OF RISK FACTORS, TECHNIQUE, AND OUTCOME	69
COMMENTARY:	
SURGERY FOR RENAL TRAUMA	76
7	
URETERAL AND RENAL PELVIC INJURIES FROM EXTERNAL TRAUMA: DIAGNOSIS AND MANAGEMENT	83
COMMENTARY:	
COMMENTARY: SURGERY FOR URETERAL TRAUMA	89
SURGERY FOR URETERAL TRAUMA	89
SURGERY FOR URETERAL TRAUMA	89 95

COMMENTARY: SURGERY FOR BLADDER TRAUMA	99
OVERVIEW: GENITO-URINARY INJURIES – RENAL, URETERAL, BLADDER AND URETHRAL Paul C. Peters	103
9	
PREVENTION OF COMPLICATIONS RESULTING FROM PELVIC FRACTURE URETHRAL INJURIES – AND FROM THEIR SURGICAL MANAGEMENT	106
COMMENTARY: PELVIC FRACTURE URETHRAL INJURIES	128
OVERVIEW: PREVENTION OF COMPLICATIONS RESULTING FROM PELVIC FRACTURE URETHRAL INJURIES	130
10	
MAJOR TRAUMATIC AND SEPTIC GENITAL INJURIES	132
COMMENTARY: SURGERY FOR GENITAL TRAUMAAlexander S. Cass	137
OVERVIEW: TRAUMA OF THE MALE EXTERNAL GENITALIAGerald H. Jordan	141
PART THREE	
SURGERY FOR PRUNE BELLY SYNDROME	147
11	
THE PRUNE BELLY SYNDROME: A COMPREHENSIVE APPROACH TO MANAGEMENT Mary E. Fallat, Steven J. Skoog, A. Barry Belman, Gloria Eng, and Judson G. Randolph	149
COMMENTARY: SURGERY FOR PRUNE BELLY SYNDROMELeroy M. Nyberg	155
OVERVIEW: PRUNE BELLY SYNDROMESelwyn Levitt, Israel Franco, Edward Reda, and Stanley J. Kogan	157

PA	۱R۶	ΓF	\cap	JR
$\Gamma \Gamma$	11		U	

SURGERY FOR VESICAL EXSTROPHY, EPISPADIAS, GENITAL LENGTHENING AND IMPERFORATE ANUS	161
12 A COMPARISON OF RENAL FUNCTION IN THE EXSTROPHY PATIENT TREATED WITH STAGED RECONSTRUCTION VERSUS URINARY DIVERSION	163
COMMENTARY: SURGERY FOR VESICAL EXSTROPHY, EPISPADIAS, AND GENITAL LENGTHENING Bernard M. Churchill, Paul A. Merguerian, Douglas A. Husmann, Antoine E. Khoury, and Gordon A. McLorie	168
OVERVIEW: EXSTROPHY AND EPISPADIASStephen A. Kramer	172
13	
THE SURGICAL MANAGEMENT OF PERSISTENT CLOACA: RESULTS IN 54 PATIENTS TREATED WITH A POSTERIOR SAGITTAL APPROACH	177
COMMENTARY: MANAGEMENT OF PERSISTENT CLOACAS, ULTIMATE CHALLENGE	187
OVERVIEW: CLOACAL MALFORMATIONS	197
PART FIVE	
SURGERY FOR AMBIGUOUS GENITALIA	215
14 A UNIFIED APPROACH TO EARLY RECONSTRUCTIVE SURGERY OF THE CHILD WITH	
AMBIGUOUS GENITALIA	217
COMMENTARY: SURGERY FOR AMBIGUOUS GENITALIA	222
OVERVIEW: AMBIGUOUS GENITALIA	225

PART SIX	
MINIMAL PROSTATE SURGERY FOR BENIGN DISEASE	237
15 BALLOON DILATATION FOR PROSTATIC OBSTRUCTION: LONG-TERM FOLLOW-UP. Lester A. Klein and Brian Lemming	239
COMMENTARY: TRANSCYSTOSCOPIC BALLOON DILATATION OF THE PROSTATELester A. Klein	243
OVERVIEW: BALLOON DILATATION OF THE PROSTATEPratap K. Reddy	249
PART SEVEN	
SURGERY FOR CARCINOMA OF THE PENIS	255
16	
PENILE CANCER: RELATION OF EXTENT OF NODAL METASTASIS TO SURVIVAL V. Srinivas, M. J. Morse, H. W. Herr, P. C. Sogani, and W. F. Whitmore, Jr.	257
COMMENTARY: PENECTOMY AND ILIOINGUINAL LYMPHADENECTOMY FOR CARCINOMA OF THE PENIS	260
OVERVIEW: MANAGEMENT OF PENILE CARCINOMA	268
PART EIGHT	
SURGERY FOR MALE INFERTILITY AND FERTILITY	273
17 THE VARICOCELE SYNDROME: VENOGRAPHY DETERMINING THE OPTIMAL LEVEL FOR SURGICAL MANAGEMENTB. L. R. A. Coolsaet	275
COMMENTARY: SURGERY FOR VARICOCELE IN THE ADULTElroy D. Kursh	279
18 VARICOCELE AND ITS SURGICAL MANAGEMENT	284

COMMENTARY: SURGERY FOR VARICOCELE IN THE CHILD	293
OVERVIEW: THE VARICOCELE	298
19	
THE TESTICULAR BIOPSY IN THE EVALUATION OF MALE INFERTILITY	300
COMMENTARY:	
TESTICULAR BIOPSY	307
OVERVIEW:	
TESTICULAR BIOPSY IN PERSPECTIVE	312
20	
VASECTOMY AND VASOVASOSTOMY	315
COMMENTARY:	201
VASECTOMY	321
OVERVIEW: VASECTOMY, THE MOST COMMON OPERATION IN THE ADULT MALE	323
Stanwood S. Schmidt	
PART NINE	
LAPAROSCOPY FOR NONPALPABLE TESTES	327
21	12.22
LAPAROSCOPY FOR LOCALIZATION OF NONPALPABLE TESTES D. Howard Lowe, William A. Brock, and George W. Kaplan	329
COMMENTARY:	222
LAPAROSCOPY FOR NONPALPABLE TESTES	332
OVERVIEW:	
LAPAROSCOPY FOR NONPALPABLE TESTES	336

PART TEN	
AIDS, HEPATITIS AND UROLOGIC SURGERY	339
22 THE ACQUIRED IMMUNODEFICIENCY SYNDROME: PRUDENT PRECAUTIONS FOR THE	
PRACTICING UROLOGIST (Editorial)	341
COMMENTARY:	
AIDS, HEPATITIS AND UROLOGIC SURGERY	344
OVERVIEW:	
AIDS, HEPATITIS, AND UROLOGIC SURGERY	349
INDEX	351

PART ONE

SURGERY FOR RENAL CARCINOMA