

# ENDOSCOPE CLEANING GUIDE

EVIS (140/240), EXERA (160), EXERA II (180) & EXERA III (190) GI Endoscopes

Refer to companion ENDOSCOPE DISINFECTION GUIDE for disinfection information

**WARNING:** This guide is only a summary of the steps necessary to properly clean your endoscope. Be sure to follow the detailed steps outlined in the ENDOSCOPE REPROCESSING MANUAL that was included with your endoscope when purchased.

## PREDCLEANING – Immediately After Use

**1**

Wipe down insertion tube and air/water control side.

**2**

Aspirate water from air through air suction channel.

**3**

Attach air channel cleaning adapter. Flush water through air/water channels.

**4**

Flush water from air into suction with channel/suction water control. Alternatively, the suction water channel may be flushed using the term pump; this auxiliary water tube should remain attached during transport to reprocessing room.

**5**

Disconnect air defunction parts.

**6**

Attach water-resistant cap over plug to protect the eye endoscope. Transport to the reprocessing room in a device container. Always ensure that the eye cap is removed prior to use, loading into generator scope.

**7**

**CAUTION:** Do not re-attach the endoscope until the operator fully understands the instructions.

Ensure the end valve and the top cap are not on water traps. Connect auxiliary water tube and suction channel. Turn on air source and control defunction of the cleaning section. Immerse entire endoscope in clean water. Perform suction test. Aspirate test during test. Remove from water. Turn on air source and detach suction leader from air source. After the test is complete, detach suction leader from endoscope.

**8**

**While Immersed:**

Immerse in freshly prepared detergent solution. Clean all air control surfaces. Insert endoscope into tip and, if applicable, clean and flush foreign material.

**9**

**While Immersed:**

Brush the insertion tube portion of the suction channel. Repeat until air source is finished.

**10**

**While Immersed:**

Clean the universal joint portion of the suction channel. Repeat until air source is removed.

**11**

**While Immersed:**

Scrub the suction channel and instrument channel port. Repeat until air source is finished.

**12**

Aspirate detergent solution into suction channel.

**13**

Attach injection tube and channel pump. Flush detergent solution into the air and water channels. Flush the endoscope. If applicable.

**14**

**While Immersed:**  
Do not immerse in solution or brush after testing only.

Flush detergent solution into auxiliary water / suction water channel.

**15**

Wipe an external surface of endoscope and control accessories, then soak in detergent solution for the time recommended by the detergent manufacturer.

## FLUSHING

**16**

Immerse the entire instrument in clean water and gently agitate to rinse.

**17**

**While Immersed:**

Flush clean water through air channels, including auxiliary water / suction water, if applicable. Remove from water. Then flush air through air channels.

**18**

Use a soft, anti-static cloth to remove excess moisture from endoscope and control accessories, in preparation for disinfection.

## IMPORTANT

- wear an appropriate personal protective equipment
- successful cleaning is essential for effective disinfection/sterilization
- be sure to reproduce all warnings and cautions in the reprocessing manual
- visually inspect the equipment after cleaning - if defects remain, repeat the procedure
- inspect the air- and water-tight connections for signs of damage prior to use

# Olympus Endoscope Reprocessing Manuals

**Xiang Xie**



## **Olympus Endoscope Reprocessing Manuals:**

**ERCP E-Book** Todd H. Baron, Richard A. Kozarek, David Leslie Carr-Locke, 2018-01-19 Over the past 40 years ERCP has become an effective therapeutic modality with diagnostic purposes that are continually improved The 3rd Edition of this practical reference helps you make the most of today's endoscopic retrograde cholangiopancreatography in your practice You'll find authoritative highly illustrated guidance on every aspect of ERCP including coverage of the latest techniques Clearly depicts each step of ERCP procedures in dozens of step by step videos including Needle Knife Sphincterotomy Biliary Sphincterotomy Cannulation and Fistulotomy Provides clear guidelines on when and when not to perform ERCP Features superb full color images and a wealth of illustrative diagrams Includes new chapters that cover duodenoscope reprocessing endomicroscopy EUS guided endotherapy related to pancreatobiliary disorders and CT and MRCP related to pancreatobiliary disorders Contains updated information on radiofrequency ablation for cancer percutaneous vs endoscopic drainage scope cleaning practices and pancreatic necrosis Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices [Clinical](#)

[Gastrointestinal Endoscopy E-Book](#) Vinay Chandrasekhara, B. Joseph Elmunzer, Mouen Khashab, V. Raman Muthusamy, 2018-01-17 Now thoroughly up to date Clinical Gastrointestinal Endoscopy 3rd Edition by Drs Vinay Chandrasekhara Mouen Khashab B Joseph Elmunzer and V Raman Muthusamy ensures that you stay current with the latest technology and techniques in GI endoscopy An all new editorial team newly updated images and a reorganized format make this reference an easy to use source of reliable information on a full range of topics including anatomy pathophysiology and therapeutic management options in addition to the latest GI procedures and technologies Offers state of the art coverage of bariatric surgery therapeutic EUS device assisted enteroscopy image guided therapy intramural endotherapy and much more Features 100 updated videos with author voiceovers as well as 1 000 revised photographs endoscopic images and anatomical drawings Provides a fresh perspective and expert guidance from an entirely new editorial team Includes many more references per chapter as well as further references online Presents material in a newly restructured organ based format for quick reference Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices **Decontamination and Device**

**Processing in Healthcare** Gerald E. McDonnell, Georgia Alevizopoulou, 2025-05-27 Prevent infections within healthcare spaces with safe and effective device decontamination and processing Prevention is the first line of defense against infection particularly in a world where microbial resistance to anti-infectives like antibiotics is a growing threat Few aspects of managing a healthcare facility are more immediately important to patient care than the safe use of equipment and devices Although some devices are designed for single use many more are designed to be reused and there have been increasing reports of infections and other adverse patient reactions due to these devices in particular when regarding surgical and

endoscopic procedures The decontamination or processing of various surfaces spaces and devices associated with patient care is a life saving discipline demanding dedicated resources and education Decontamination in Healthcare meets this demand as a comprehensive training and reference manual for the decontamination and processing of equipment and devices used in patient care environments This book is ideal for medical staff involved in the management of devices within healthcare facilities including those purchasing using and processing devices on patients and those responsible for their safety Now fully updated to reflect the latest international regulations standards and best practices this text is an invaluable tool for meeting the challenges of the modern medical facility Readers of the second edition of Decontamination in Healthcare will also find within the text Up to date information based off the current guidelines standards and regulations of Regulatory organizations include the US FDA EU MDR NMPA and other similar international organizations Standard organizations including ISO CEN AAMI BSI DIN and international professional organizations in device processing WFHSS HPSA CAMDR etc nursing AORN EORNA ESGENA infection prevention WHO CDC ECDC and more Detailed discussion of topics including surgical suite management infection prevention and control essentials of anatomy and microbiology safety endoscopy and outpatient areas quality management and many more Description of the steps in device processing ranging from equipment to surgical devices including cleaning disinfection and sterilization Information written to be of value to healthcare educators and administrators as well as clinical professionals Written by experienced professionals with a systematic grasp of key methods and their advantages Decontamination in Healthcare offers a wealth of information for every member of a clinical team

Endoscopy Procedures at the U.S. Department of Veterans Affairs United States. Congress. House. Committee on Veterans' Affairs. Subcommittee on Oversight and Investigations,2009

The SAGES Manual Operating Through the Endoscope Matthew Kroh,Salvatore Docimo Jr.,Sofiane El Djouzi,Amber Shada,Kevin M. Reavis,2023-03-13 In 2016 the first edition of the SAGES Manual Operating through the Endoscope was published At the time this represented a review of cutting edge new technologies that were being introduced within the field of flexible endoscopy Largely based on applications and data up to 2013 this served as a unique resource for clinicians and researchers to learn about this expanding field Since then there has been a significant expansion of new technologies and procedures within this discipline that have meaningfully changed this entire sub specialty In addition large numbers of high quality data have emerged that support more heartily the safety and efficacy of these techniques Major international societies now routinely include hands on training and scientific content of this field in meetings and educational efforts and many trainees and practitioners are looking for resources to improve their knowledge and technical skills sets For these reasons an update on this rapidly advancing field seems appropriate at this time given the enormous amount of new content available Endoscopic surgical procedures allow for less invasive access for performing increasingly complex procedures This results in maximal benefit for patients with fewer complications faster recovery and less pain Endoscopy allows access to the

gastrointestinal tract without transgressing the abdominal or chest walls by means of a truly less invasive route. These technologies and skills are being sought out by practitioners and asked for by patients. The proposed textbook is designed to present a comprehensive and state of the art approach to the diverse applications of surgical techniques and procedures through the endoscopic platform. Written by experts and emerging specialists in that field, each of these sections will address patient selection, pre-operative considerations, technical conduct of the most common operations and avoiding complications. A review of the existing literature addressing the particular topic will follow in each section. Extensive endoscopic images and illustrations will make this an interactive text. In addition to updates on most topics in the previous manual, this edition will include exciting new fields of advanced imaging, artificial intelligence and augmented imaging, applications of robotics to endoscopy and more robust exposure of endoscopic applications for treatment of obesity, a worldwide epidemic. The subject of surgical endoscopy has changed meaningfully since publication of the first edition; now a substantial focus of major journals, scientific meetings and online platforms. A timely update can capture this broad subject in an accessible manual focused on technologies and data supporting these interventions.

*Manual of Clinical Microbiology* Patrick R. Murray, Ellen Jo Baron, 2003. Includes information on infection detection and prevention and control, diagnostic technologies, bacteriology, antibacterial, antiviral, antifungal and antiparasitic agents and susceptibility test methods, virology, mycology and parasitology.

**Infection Prevention and Control in the Hospital, An Issue of Infectious Disease Clinics** Keith S.

Kaye, 2011-03-28. Over the past several decades, infection control has become a rapidly growing multidisciplinary field of incredible importance with regard to the safety of patients and healthcare workers, regulation and accreditation of healthcare facilities and finances. The focus of this field has increasingly turned to prevention rather than control of hospital-acquired infections. This issue will bring the infectious disease specialist up to date on important topics such as hand hygiene, sterilization, methicillin-resistant *Staphylococcus aureus*, antibiotic stewardship and specific infections of particular concern.

Pocket Guide to Advanced Endoscopy in Gastroenterology Adrian Săftoiu, 2023-12-18. The book offers a comprehensive and didactic overview of both advanced diagnostic and therapeutic endoscopy, imaging techniques with a clinical impact correspondent in major gastroenterology, hepatology and pancreatology diseases. It includes state of the art techniques like endoscopic ultrasound and confocal laser endomicroscopy as well as endoscopic retrograde cholangio pancreatography. Divided into 9 main chapters, the book covers the examination techniques, the sedation and monitoring and investigates the clinical impact of endoscopy. Specific chapters are dedicated to the upper gastrointestinal tract, the lower gastrointestinal tract, to pancreaticobiliary diseases and to liver diseases. Enriched by more than 400 original images based on 25 years experience in the field of advanced endoscopy, imaging and accompanied by carefully selected videos, this volume will be a reference guide for residents and trainees in gastroenterology, hepatology, pancreatology and surgery with emphasis on endoscopy techniques.

**Handbook of Robotic Surgery** Stênio de Cássio Zequi, Hongliang Ren, 2024-10-02. Handbook of

Robotic Surgery serves as a primer covering the main areas of knowledge in robotic surgery. This comprehensive book provides essential information on all aspects related to robotic surgery from the present up to the future. The discussion presented in sections ranges from the historical background of robotic surgery up to more recent and future technological innovations such as remote controls, surgically distant collaboration, simulators, modern surgical robotics, fluorescence-guided surgery, and virtual reality. The book also contains sections dedicated to the safety conditions in surgery and patient protection, which will be suitable for surgeons, health professionals, biomedical engineering professionals, healthcare administrators, and students. There are specific chapters for all areas in which robotic surgery has been used in daily clinical practice or is under development. Written by doctors, engineers, and nurses, thus eliminating communication barriers and making it accessible for health and engineering professionals. Provides initial literature offering a broad overview of all aspects of robotic surgery that will serve as a solid theoretical base for future developments in robotic subfields. Analyzes cost effectiveness of robotic surgery, discussing its use in developing countries, ethics, medical legal aspects, education, training, mentorship, leadership, certification of professionals, and credentialing of robotic centers. Contributed to by key opinion leaders from several nations and continents, taking into account different socioeconomic and cultural regional realities, which can influence the widespread use of robotic surgery in the world.

Advances in Human Factors and Ergonomics in Healthcare Vincent G. Duffy, 2010-06-11 Based on recent research, this book discusses how to improve quality, safety, efficiency, and effectiveness in patient care through the application of human factors and ergonomics principles. It provides guidance for those involved with the design and application of systems and devices for effective and safe healthcare delivery from both a patient and a provider perspective.

Health Devices, 1994 *Practical Manual of Operative Laparoscopy and Hysteroscopy* Ricardo Azziz, Ana A. Murphy, 2012-12-06 In the past decade, the future of gynecologic surgery has arisen. Mastery is imperative. One cannot do endoscopic surgery; it has been largely unpredictable. Master these techniques by mimicking what is able. Now it is obvious that time has changed; other surgeons do but must understand the gynecology in such a way to make many of the principles of the technological advances. Laser procedures that were commonly done, obsolet physics and properties must be understood. At no other time in the history of gynecology and in addition, optics and television technology. Logic surgery has such an explosion occurred; optics are critical to performing excellent endoscopy, thus changing the face of this specialty to such a degree. But in addition to solving many old problems, the past decade has left us with the young that are the leaders and pioneers in many new and novel dilemmas in our field. It is for this reason that this text represents one of the ways in which our field has resented all that is important in endoscopic surgery. It not only has some degree but it is tremendously evolved. One of the ways in which our field has resented all that is important in endoscopic surgery is not only have some degree but it is tremendously evolved. One of the ways in which our field has resented all that is important in endoscopic surgery is not only have some degree but it is tremendously evolved. One of the ways in which our field has resented all that is important in endoscopic surgery is not only have some degree but it is tremendously evolved.

*Vignettes in Patient Safety* Michael S. Firstenberg, Stanislaw P. Stawicki, 2017-09-13 It is clearly recognized that medical

errors represent a significant source of preventable healthcare related morbidity and mortality Furthermore evidence shows that such complications are often the result of a series of smaller errors missed opportunities poor communication breakdowns in established guidelines or protocols or system based deficiencies While such events often start with the misadventures of an individual it is how such events are managed that can determine outcomes and hopefully prevent future adverse events The goal of Vignettes in Patient Safety is to illustrate and discuss in a clinically relevant format examples in which evidence based approaches to patient care using established methodologies to develop highly functional multidisciplinary teams can help foster an institutional culture of patient safety and high quality care delivery

**Diagnostic and Therapeutic Procedures in Gastroenterology** Subbaramiah Sridhar, George Y. Wu, 2018-02-01 This new edition provides a comprehensive overview of procedures for the gastrointestinal tract The volume describes the indications contraindications and precise method of a procedure under normal anatomical conditions and when the gastrointestinal tract is surgically altered In addition to revised chapters from the previous edition the latest edition features new chapters that cover such topics as endoscopic accessories cleaning and disinfecting gastrointestinal endoscopes tissue sampling removal of foreign bodies and confocal endoscopy and robotic endoscopy Each chapter is also accompanied by photographs diagrams tables and algorithms to precisely and easily display complex information Written by leading authorities from around the globe **Diagnostic and Therapeutic Procedures in Gastroenterology An Illustrated Guide Second Edition** is a valuable resource for gastroenterologists primary care physicians and gastroenterology fellows in training who treat and manage patients with gastrointestinal disorders

**Hospital Epidemiology and Infection Control** C. Glen Mayhall, 2012-02-20 Thoroughly revised and updated for its Fourth Edition this highly acclaimed volume is the most comprehensive reference on hospital epidemiology and infection control Written by over 150 leading experts this new edition examines every type of hospital acquired nosocomial infection and addresses every issue relating to surveillance prevention and control of these infections in patients and in healthcare workers This new edition features new or significantly increased coverage of emerging infectious diseases avian influenza governmental regulation of infection control and payment practices related to hospital acquired infections molecular epidemiology the increasing prevalence of community acquired MRSA in healthcare facilities system wide infection control provisions for healthcare systems hospital infection control issues following natural disasters and antimicrobial stewardship in reducing the development of antimicrobial resistant organisms

Advanced Color Image Processing and Analysis Christine Fernandez-Maloigne, 2012-07-11 This volume does much more than survey modern advanced color processing Starting with a historical perspective on ways we have classified color it sets out the latest numerical techniques for analyzing and processing colors the leading edge in our search to accurately record and print what we see The human eye perceives only a fraction of available light wavelengths yet we live in a multicolor world of myriad shining hues Colors rich in metaphorical associations make us purple with rage or green with envy and cause

us to see red Defining colors has been the work of centuries culminating in today's complex mathematical coding that nonetheless remains a work in progress only recently have we possessed the computing capacity to process the algebraic matrices that reproduce color more accurately With chapters on dihedral color and image spectrometers this book provides technicians and researchers with the knowledge they need to grasp the intricacies of today's color imaging

*Successful Training in Gastrointestinal Endoscopy* Jonathan Cohen, 2022-04-19 *Successful Training in Gastrointestinal Endoscopy* Teaches trainee gastroenterologists the endoscopic skills needed to meet the medical training requirements to practice gastroenterology and helps clinical specialists refresh their skills to pass their recertification This book provides all gastroenterologists with the exact set of skills required to perform endoscopy at the highest level Featuring contributions from internationally recognized leaders in endoscopy education and an endorsement by the World Organization of Digestive Endoscopy it examines the specific skill sets and procedure related tasks that must be mastered when learning a particular technique including specific descriptions of accessories required standard training methods for the procedure optimal utilization of novel learning modalities such as simulators quality measures and objective parameters for competency and available tools for assessing competency once training has been completed *Successful Training in Gastrointestinal Endoscopy* Second Edition features 400 high quality outstanding color photos to assist with comprehension It is also complemented by a website containing over 130 annotated teaching videos of both actual procedures and ex vivo animal model simulations These videos illustrate step by step the proper techniques to be followed highlighting clinical pearls of wisdom from the experts and the most common mistakes to avoid Offers comprehensive and practical training guidelines in all the endoscopy procedures and techniques trainee gastroenterologists are required to learn Provides trainees with the skills required to perform endoscopy to the level required by the ACGME in order to practice gastroenterology Presents seasoned gastroenterologists with an outstanding tool to brush up their endoscopy skills and to familiarize them with new trends in safety and competence Includes website with video clips visually demonstrating all the endoscopic procedures step by step highlighting common mistakes Endorsed by the World Organization of Digestive Endoscopy *Successful Training in Gastrointestinal Endoscopy* Second Edition is an excellent book for all trainee gastroenterologists particularly endoscopists and colonoscopists training for board exams It will also greatly benefit gastroenterology specialists especially those training for re certification as well as internal medicine physicians and trainees

**Endoscopy in the Era of Antibiotic Resistant Bacteria, An Issue of Gastrointestinal Endoscopy Clinics** Jacques Van Dam, 2020-09-15 Together with Consulting Editor Dr Charles Lightdale Dr Jacques Van Dam has put together the first ever monograph that tackles the challenges of infection prevention by endoscopists and interventional endoscopists Dr Van Dam has selected authors who have learned valuable lessons in hospitals where antibiotic resistant infections occurred as well as regulating bodies like the Food and Drug Administration FDA and the Centers for Disease Control and Prevention CDC who are trying to both resolve what happened and create as



much as possible an evidenced based response in an effort to protect the public Articles are specifically devoted to the following topics Introduction to Transmission of Infection Potential Agents Transmitted by Endoscopy Genetic Mutation and Natural Selection of Resistant Bacteria How did We Get Here Nosocomial Infections A History of Hospital Acquired Infections Endoscope as Vector for Transmission Methods for Endoscope Reprocessing Novel Algorithms for Reprocessing Drying and Storing Quality Systems Approach for Endoscope Reprocessing You Don t Know What you Don t Know Role of the FDA From Device Regulation to Crisis Management Hospital Outbreaks Patient as Vector and Victim Society Guidelines Where is the Consensus New Age Antibiotics Role of the CDC From Hospital Outbreak to Crisis Management Readers will come away with latest information they need to prevent infections in their endoscopy suites and hospitals *Prevention and Control of Infections in Hospitals* Bjørg Marit Andersen,2019-02-25 This volume offers extensive information on preventive and infection surveillance procedures routines and policies adapted to the optimal infection control level needed to tackle today s microbes in hospital practice It especially focuses on preventive measures for serious hospital infections Each chapter includes a practical section that addresses the main aspects of procedures and treatment and a theoretical section that contains updated documentation that can be used for further study or to help select infection control measures Infection control concerns all healthcare professional working directly or indirectly with patients in diagnosis treatment isolation measures operations equipment drugs cleaning textiles transport porter service food and water building and maintenance etc Hygiene and environmental control is central to infection prevention for patients visitors and staff alike Good hygienic practices individual infection control well implemented and frequent environmental cleaning and a high professional standard of hygiene in the treatment and care of patients are essential to patient safety and a safe working environment Addressing this essential topic this book is intended for doctors nurses and other healthcare workers students in health related subjects hospital managers and health bureaucrats as well as patients and their families **Multi-drug resistant *Klebsiella pneumoniae* strains circulating in hospital setting** Eleonora Cella,2022-11-30 Carbapenems resistant Enterobacteriaceae infections are increasing worldwide representing an emerging public health problem The application of phylogenetic and phylodynamic analyses to bacterial whole genome sequencing WGS data have become essential in epidemiological surveillance of MDR pathogens to discern outbreak from non outbreak strains in both community and hospital settings In this study *K pneumoniae* strains circulating within different wards of university hospital were collected and WGS applied Moreover a microbiological surveillance on duodenoscopes was performed to evaluate their reprocessing The aim was to infer the origin and the spread of *K pneumoniae* nosocomial strains and to clarify the epidemiological transmission as so as the eventual reservoir in the hospital setting supporting the epidemiological surveillance and infections control strategies Winner of the Competition Prize for PhD Thesis 2020 arranged by Sapienza University Press

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