

practical and useful guide and is well worth its price, because familiarity with these issues may help to prevent costly hemostasis and transfusion-related complications.

Perhaps in no other surgical field is hemostasis as important as in neurosurgery. Absolute hemostasis is paramount in preventing irreversible and life-threatening injury, partly because of the bony confines of the cranium and vertebral bodies. For these reasons, bleeding diathesis must be recognized and corrected preoperatively, avoided intraoperatively, and prevented postoperatively to avert bleeding-related complications. This book addresses many of the fundamental clinical problems of hemostasis and transfusion and is therefore a valuable reference text for the neurosurgeon.

Mick J. Perez-Cruet
Raymond Sawaya
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**Manual of
Endoscopic
Procedures in
Neurosurgery.**
J. Andre
Grotenhuis.
Nijmegen, The
Netherlands,
Uitgeverij
Machaon,
1995. Pages:
155. Price:

\$85. ISBN: 90-7557-1-01-4.

In recent years, endoscopic techniques, which had already made a tremendous impact on general surgery and most other subspecialties, gained widespread popularity in neurosurgery. On the basis of recent improvements in optics, miniaturization, and illumination, these instruments are now applicable for a broad range of neurosurgical procedures.

Grotenhuis, a skilled endoscopist from The Netherlands, has produced the first single-authored monograph on neuroendoscopy. It is beautifully written and illustrated and contains a wealth of basic information along with practical clinical information. The sim-

ple, clear, "how I do it" style is easy and enjoyable to read.

The volume begins with a review of general principles of neuroendoscopy, including a section on history and instrumentation and an exceptionally lucid description of endoscopic ventricular anatomy. The major focus of the book is on neuroendoscopic procedures, particularly those performed within the cerebral ventricles. Some of the procedures described include ventricular shunt placement and removal, cyst fenestration, ventricular tumor management, third ventriculostomy, and techniques for aqueductoplasty and aqueductal stenting.

The manual is especially useful for those who are planning to perform endoscopic neurosurgery. It provides a brief but comprehensive review of each of the various procedures, interspersed with numerous personalized nuances of operative technique. For example, Grotenhuis offers strategies for reaching the anterior and posterior portions of the third ventricle, using his matter-of-fact, step-by-step format to move the reader from Point A to Point B, anticipating the potential complications along the way. Many important topics covered in this book have not been addressed in previous publications. For example, there is an excellent section on troubleshooting that offers advice about such practical issues as how to correct a blurred endoscopic image, how to manage minor venous bleeding and interference from air bubbles, and how to steer around corners and regain lost orientation.

One problem in creating a manual of neuroendoscopy is that techniques change so rapidly that some descriptions may be obsolete by the time they come to print. The *Manual of Endoscopic Procedures in Neurosurgery* is written in such a way that it should stand the test of time. Although some of the instruments and surgical techniques will no doubt be modified, the basic surgical principles are solid.

The emphasis of this monograph is on therapeutic ventricular endoscopy, so-called ventriculostomy. Two newer applications not covered are endoscopic spine surgery (although there is a discussion of the treatment of syringomyelia) and the burgeoning field of

endoscope-assisted craniotomy, in which endoscopes have been used in conjunction with the operating microscope to minimize surgical trauma associated with cranial base procedures. These would be worthy of comment in a second edition.

Grotenhuis makes complex material easy to understand. Overall, this neuroendoscopy cookbook is outstanding and will be a useful addition to the library of anyone planning to perform intracranial endoscopic surgery.

Alan R. Cohen
Cleveland, Ohio

Pediatric Trauma: Initial Care of the Injured Child. Robert M. Aronson (Editor). New York, Raven Press, 1995. Pages: 272. Price \$59. ISBN: 0-7817-0360-7.

Pediatric Trauma is a book searching for an audience. It is a small, hard cover book that is too large to carry in one's pocket and too small to contain textbook quality information. Its subtitle is *Initial Care of the Injured Child*; however, very little information regarding initial care is presented in a manner of use to general pediatric surgeons or pediatric neurosurgeons. The book is a compilation of chapters from multiple authors, and the overall editing did not result in evenness of writing. Occasionally, there are two chapters with the same general title, written by different authors with different views on the same diseases.

The first chapter is an overview of the history of trauma care in children. Although it is brief, it is informative; however, the first paragraph of every subsequent chapter repeats the history, sometimes with inconsistencies. The first few chapters are on chest trauma, abdominal trauma, and extremity trauma. Each of these chapters is unfortunately too superficial for a physician to use to guide management and probably even inadequate for emergency medical service crews to actually evaluate patients in the field. Each of these chapters has a different author, and the dictums in one frequently conflict with those in another. Unfortunately, the diagrams are inconsistent and, more frequently than not, impossible to understand. X-rays are used infrequently. When they are used, they are mislabeled and sometimes wrong. In one of the two successive chapters on the

Manual Of Endoscopic Procedures In Neurosurgery

Hemanshu Prabhakar



Manual Of Endoscopic Procedures In Neurosurgery:

Manual of Endoscopic Procedures in Neurosurgery J. A. Grotenhuis,1995 Neuroendoscopy Spyros Sgouros,2013-11-22 As a result of technological improvements neuroendoscopy is now used in the treatment of many more patients enabling the performance of previously unavailable operations with low complication rates and rapid patient recovery This book presents the distilled experience of world experts in this evolving field Current applications in a wide variety of settings are explained in detail and likely future developments are identified In addition the available neuroendoscopic instruments are reviewed and the results of international trials and collaborative studies presented This book will fully acquaint the reader with the breadth and depth of available neuroendoscopy techniques and their impressive therapeutic potential It should serve as the reference book on neuroendoscopy for the next 10 years Keyhole Approaches in Neurosurgery Axel Perneczky,Robert Reisch,2009-12-18 Technological progress in neurosurgery preoperative investigation of the exact anatomy of the patient detailed planning of the procedure and use of endoscopes and videosurgery have made approaches for intracranial microsurgical procedures smaller compared to historically standard neurosurgical approaches Building on the previous works Endoscopic Anatomy for Neurosurgery and Keyhole Concept in Neurosurgery this book offers a systematic overview of keyhole approaches in the daily work of a neurosurgeon The approaches strategies indications and technical details described here are complemented by anatomical pictures schemes and artists illustrations and analyzed with regard to geometric boundaries and the topography of the target structures **Manual of Spine Surgery** Uwe Vieweg,Frank Grochulla,2023-10-16 This manual has been compiled in response to the rapid expansion of instrumented spinal surgery using minimally invasive and non fusion techniques with a view to meeting the needs of spinal surgeons orthopaedic and neurosurgeons The various open less invasive and minimally invasive techniques are presented step by step in a clear and instructive way with the aid of more than 600 high quality illustrations Careful attention is paid to all aspects vital to the success of any spinal operation precise definition of indications and contraindications technical and organizational factors good operating technique and correct preoperative preparation and positioning of the patient This second edition of the manual takes full account of the latest developments in spinal instrumentation and implants and new surgical techniques It is authoritative concise and portable ideal for use in a fast paced clinical setting and will serve as a daily companion for spinal surgeons and others who care for patients with spinal disorders **Cerebrospinal Fluid Disorders** Conor Mallucci,Spyros Sgouros,2016-04-19 Addressing the gap in the literature between pediatric medicine and geriatric medicine Cerebrospinal Fluid Disorders examines the disorders of the cerebrospinal fluid CSF pathways from birth to old age Highlights of the book include Comprehensive content detailing CSF disorders and their effects on the brain and spine at all developmental stage **Proceedings of Laser Surgery** ,1997 Master Techniques in Otolaryngology - Head and Neck Surgery: Skull Base Surgery Carl Snyderman,Paul Gardner,2014-09-29 This new volume in the MTOS Head and

Neck Surgery Series edited by Eugene Myers MD presents both the common and advanced procedures in skull base surgery and appeals to both the specialist and the generalist. It covers over 45 procedures and describes both open and minimally invasive approaches to the skull base. Key Features: Authors are world renowned experts in the field. Comprehensive coverage of open and minimally invasive techniques. Edited by pioneers and leaders in the development of the endoscopic endonasal approach. Each chapter follows a tightly designed format with a focus on how to do it. Includes step by step instructions for each procedure. Each technique is extensively supplemented with over 1500 color intraoperative photographs and line drawings.

Neurochirurgie Dag Moskopp, Hansdetlef Wassmann, 2014-12-29. Neurochirurgie up to date. Neurochirurgie kaum ein anderes Fachgebiet stellt so hohe Anforderungen an Geschick und aktuelle Kenntnisse des behandelnden Facharztes. Die neuen Ansätze in der Hightech Medizin eröffnen effektive Möglichkeiten für Diagnostik und therapeutische Interventionen. Darüber hinaus ist aber auch eine interdisziplinäre Kooperation unabdingbar, um die bestmögliche Behandlung des Patienten zu gewährleisten. Die Neurochirurgie von Moskopp und Wassmann bündelt die Fachexpertise von renommierten erfahrenen Klinikern aus Neurochirurgie und angrenzenden Gebieten und setzt mit der grundlegend aktualisierten und erweiterten 2. Auflage wieder Maßstäbe. Das umfassende Lehr- und Referenzwerk für den gesamten deutschsprachigen Raum. Handbuch für die Aus- und Weiterbildung zum Facharzt für Neurochirurgie und interdisziplinäres Nachschlagewerk. Hochrangige Fachvertreter aus Neurochirurgie und angrenzenden Spezialgebieten gesichertes und aktualisiertes Wissen von über 100 ausgewiesenen klinischen Experten. Neu in der 2. Auflage: Berücksichtigung neuropathologischer Belange, Ausweitung spezieller zerebrovaskulärer und spinaler Aspekte. Zahlreiche neue Beiträge zu Hirntumoren im Kindesalter, Glomustumoren, Thoracic outlet Syndrom, prä-chirurgische Epilepsiediagnostik, neurovaskuläre Dekompressionen bei Neuralgien, Abstimmung auf die aktuelle WHO und Empfehlung zur Ausbildung zum Facharzt für Neurochirurgie. Refresher Fragen zum Facharztwissen online.

Biomedical Photonics Handbook, 3 Volume Set Tuan Vo-Dinh, 2014-07-29. This handbook presents the most recent technological advances and applications in the areas of biomedical photonics. This second edition contains introductory material and covers the state of the art methods and instrumentation for biomedical photonic technologies. It integrates interdisciplinary research and development critically needed for scientists, engineers, manufacturers, teachers, students, and clinical providers to learn about the most recent advances and predicted trends in instrumentation and methods as well as clinical applications in important areas of biomedical photonics. Extensive references are provided to enhance further study.

Neuroendoscopy of the Central Nervous System George I. Jallo, James E. Conway, László Bognár, 2008-09-01

Handbook of Robotic and Image-Guided Surgery Mohammad Hossein Abedin Nasab, 2019-09-25. Handbook of Robotic and Image Guided Surgery provides state of the art systems and methods for robotic and computer assisted surgeries. In this masterpiece contributions of 169 researchers from 19 countries have been gathered to provide 38 chapters. This handbook is 744 pages, includes 659 figures and 61 videos. It also provides basic medical knowledge for engineers and

basic engineering principles for surgeons A key strength of this text is the fusion of engineering radiology and surgical principles into one book A thorough and in depth handbook on surgical robotics and image guided surgery which includes both fundamentals and advances in the field A comprehensive reference on robot assisted laparoscopic orthopedic and head and neck surgeries Chapters are contributed by worldwide experts from both engineering and surgical backgrounds

Essentials of Neuroanesthesia Hemanshu Prabhakar, 2025-07-18 Essentials of Neuroanesthesia Second Edition continues to offer valuable insights into the anesthetic management of neurosurgical and neurologic patients covering all topics related to neuroanesthesia and providing essential knowledge on the brain and spinal cord The book includes chapters on anatomy physiology and pharmacology along with specific chapters addressing various neurosurgical and neurological problems and their anesthetic management This updated edition introduces new chapters on artificial intelligence in neurosciences the role of simulation in clinical neurosciences robotic neurosurgery trigeminal neuralgia coexisting transplanted organs brain resuscitation after cardiac arrest and more In addition to the foundational knowledge the book addresses related issues such as the evidence based practice of neuroanesthesia sterilization techniques biostatistics and ethical issues It is a valuable resource for trainees clinicians and researchers in the fields of neuroanesthesia neurocritical care critical care neurosurgery and neurology The comprehensive coverage and updated content make it an indispensable guide for understanding and managing the complexities of neuroanesthesia Offers useful insights on the anesthetic management of neurosurgical and neurologic patients Discusses related issues such as the evidence based practice of neuroanesthesia sterilization techniques biostatistics and ethical issues Includes new chapters on neurocritical care including stroke and intracerebral hemorrhage Provides a vital resource for trainees clinicians and researchers in the fields of neuroanesthesia neurocritical care neurosurgery and neurology

Biomedical Photonics Handbook, Second Edition Tuan Vo-Dinh, 2014-07-29 Shaped by Quantum Theory Technology and the Genomics Revolution The integration of photonics electronics biomaterials and nanotechnology holds great promise for the future of medicine This topic has recently experienced an explosive growth due to the noninvasive or minimally invasive nature and the cost effectiveness of photonic modalities in medical diagnostics and therapy The second edition of the Biomedical Photonics Handbook presents recent fundamental developments as well as important applications of biomedical photonics of interest to scientists engineers manufacturers teachers students and clinical providers The third volume Therapeutics and Advanced Biophotonics focuses on therapeutic modalities advanced biophotonic technologies and future trends Represents the Collective Work of over 150 Scientists Engineers and Clinicians Designed to display the most recent advances in instrumentation and methods as well as clinical applications in important areas of biomedical photonics to a broad audience this three volume handbook provides an inclusive forum that serves as an authoritative reference source for a broad audience involved in the research teaching learning and practice of medical technologies What's New in This Edition A wide variety of photonic biochemical sensing technologies has already been

developed for clinical monitoring of early disease states and physiological parameters such as blood pressure blood chemistry pH temperature and the presence of pathological organisms or biochemical species of clinical importance Advanced photonic detection technologies integrating the latest knowledge of genomics proteomics and metabolomics allow sensing of early disease states thus revolutionizing the medicine of the future Nanobiotechnology has opened new possibilities for detection of biomarkers of disease imaging single molecules and in situ diagnostics at the single cell level In addition to these state of the art advancements the second edition contains new topics and chapters including Fiber Optic Probe Design Laser and Optical Radiation Safety Photothermal Detection Multidimensional Fluorescence Imaging Surface Plasmon Resonance Imaging Molecular Contrast Optical Coherence Tomography Multiscale Photoacoustics Polarized Light for Medical Diagnostics Quantitative Diffuse Reflectance Imaging Interferometric Light Scattering Nonlinear Interferometric Vibrational Imaging Nanoscintillator Based Therapy SERS Molecular Sentinel Nanoprobes Plasmonic Coupling Interference Nanoprobes Comprised of three books Volume I Fundamentals Devices and Techniques Volume II Biomedical Diagnostics and Volume III Therapeutics and Advanced Biophotonics this second edition contains eight sections and provides introductory material in each chapter It also includes an overview of the topic an extensive collection of spectroscopic data and a list of references for further reading

Principles of Neurological Surgery E-Book Richard G. Ellenbogen, Saleem I. Abdulrauf, Laligam N Sekhar, 2012-03-13 Principles of Neurosurgery by Drs Richard G Ellenbogen Saleem I Abdulrauf and Laligam N Sekhar provides a broad overview of neurosurgery ideal for anyone considering or training in this specialty From general principles to specific techniques it equips you with the perspectives and skills you need to succeed Comprehensive without being encyclopedic this new edition familiarizes you with the latest advances in the field neuroimaging the medical and surgical treatment of epilepsy minimally invasive techniques and new techniques in position and incisions and shows you how to perform key procedures via an online library of surgical videos at www.expertconsult.com No other source does such an effective job of preparing you for this challenging field Get comprehensive coverage of neurosurgery including pre and post operative patient care neuroradiology pediatric neurosurgery neurovascular surgery trauma surgery spine surgery oncology pituitary adenomas cranial base neurosurgery image guided neurosurgery treatment of pain epilepsy surgery and much more Gain a clear visual understanding from over 1 200 outstanding illustrations half in full color including many superb clinical and operative photographs surgical line drawings and at a glance tables Apply best practices in neuroimaging techniques minimally invasive surgery epilepsy surgery and pediatric neurosurgery Master key procedures by watching experts perform them in a video library online at www.expertconsult.com where you can also access the fully searchable text an image gallery and links to PubMed Keep up with recent advances in neurosurgery with fully revised content covering neuroimaging the medical and surgical treatment of epilepsy minimally invasive techniques new techniques in position and incisions deep brain stimulation cerebral revascularization and treatment strategies for traumatic brain injury in soldiers

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Youmans and Winn Neurological Surgery E-Book H. Richard Winn, 2022-01-21 Widely regarded as the definitive reference in the field Youmans and Winn Neurological Surgery offers unparalleled multimedia coverage of the entirety of this complex specialty Fully updated to reflect recent advances in the basic and clinical neurosciences the 8th Edition covers everything you need to know about functional and restorative neurosurgery deep brain stimulation stem cell biology radiological and nuclear imaging and neuro oncology as well as minimally invasive surgeries in spine and peripheral nerve surgery and endoscopic and other approaches for cranial procedures and cerebrovascular diseases In four comprehensive volumes Dr H Richard Winn and his expert team of editors and authors provide updated content a significantly expanded video library and hundreds of new video lectures that help you master new procedures new technologies and essential anatomic knowledge in neurosurgery Discusses current topics such as diffusion tensor imaging brain and spine robotic surgery augmented reality as an aid in neurosurgery AI and big data in neurosurgery and neuroimaging in stereotactic functional neurosurgery 55 new chapters provide cutting edge information on Surgical Anatomy of the Spine Precision Medicine in Neurosurgery The Geriatric Patient Neuroanesthesia During Pregnancy Laser Interstitial Thermal Therapy for Epilepsy Fetal Surgery for Myelomeningocele Rehabilitation of Acute Spinal Cord Injury Surgical Considerations for Patients with Polytrauma Endovascular Approaches to Intracranial Aneurysms and much more Hundreds of all new video lectures clarify key concepts in techniques cases and surgical management and evaluation Notable lecture videos include multiple videos on Thalamotomy for Focal Hand Dystonia and a video to accompany a new chapter on the Basic Science of Brain Metastases An extensive video library contains stunning anatomy videos and videos demonstrating intraoperative procedures with more than 800 videos in all Each clinical section contains chapters on technology specific to a clinical area Each section contains a chapter providing an overview from experienced Section Editors including a report on ongoing controversies within that subspecialty Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

Global Surgery and Anesthesia Manual John G. Meara, MD, DMD, MBA, FACS, FRACS, Craig D. McClain, MD, MPH, Selwyn O. Rogers, Jr., MD, MPH, FACS, David P. Mooney, MD, MPH, FACS, 2014-12-12 Highly Commended BMA Medical Book Awards 2015 In 2008 Paul Farmer and Jim Yong Kim described global surgery as the neglected stepchild of healthcare and now leaders from around the world are working to redefine it as a human right through the Lancet Commission on Global Surgery In order to help advance global surgery and anesthesia as a public

Oxford Handbook of Operative Surgery Anil Agarwal, Neil R. Borley, Greg

McLatchie, Greg R. McLatchie, 2017 This fully revised new edition provides a comprehensive concise and practical guide to all common operative equipment techniques procedures and surgical management of the patient Cerebrospinal Fluid Rhinorrhea - E-Book Raj Sindwani, Christopher Roxbury, 2023-01-19 Offering up to date multidisciplinary coverage of this nuanced and evolving field Cerebrospinal Fluid Rhinorrhea provides a comprehensive overview of the evaluation and diagnosis as well as the medical and surgical management options for all causes of cerebrospinal fluid CSF rhinorrhea It covers all aspects of CSF leaks synthesizing current knowledge on pathophysiology diagnosis perioperative care and operative techniques for this complex group of patients Leading experts in otolaryngology and neurosurgery as well as ophthalmology neurology and radiology provide detailed coverage of the distinctions between management of patients with differing etiologies of CSF rhinorrhea including spontaneous traumatic iatrogenic and tumor related Focuses exclusively on the comprehensive evaluation and management of patients presenting with CSF leaks from the anterior cranial base offering a reliable one stop resource for experienced clinicians as well as those in training Covers the full breadth of cerebrospinal fluid rhinorrhea with expert discussion of spontaneous CSF leaks including evolving management techniques for patients with idiopathic intracranial hypertension traumatic CSF leaks including advanced management of complex anterior cranial base trauma and up to date techniques for intraoperative skull base reconstruction after tumor resection Includes tips and pearls on surgical approaches and postoperative management strategies for this complex and varied patient population Features abundant high definition images of anatomy radiographic imaging and intraoperative techniques as well as videos that highlight intraoperative techniques in patients with spontaneous traumatic and tumor related CSF leaks Provides a detailed review of the different laboratory examination endoscopic nasal as well as ophthalmologic and imaging studies used to evaluate patients with CSF leaks Discusses the evaluation and growing medical and procedural management options for patients with idiopathic intracranial hypertension Offers state of the art reconstruction options for CSF leaks and complex skull base defects ranging from the nasoseptal flap and beyond Addresses the controversial role of lumbar drains in CSF leak management as well new and upcoming technological advances in operating room instrumentation **Anesthesiology Manual: Best Practices and Case Management** Admir Hadzic, MD, PhD, Catherine Vandepitte, MD, PhD, 2024-09-10 The Anesthesiology Manual Best Practices and Case Management is an authoritative resource that delivers the most up to date peer reviewed clinical practices and case management protocols in anesthesiology Designed for students residents and seasoned practitioners this manual provides essential knowledge and tools to navigate the complexities of anesthesiology with confidence and precision Comprehensive Coverage The manual covers more than 300 topics across the entire spectrum of anesthesiology and 400 images and decision making algorithms Each topic addresses critical aspects such as symptoms diagnosis and anesthetic management of various diseases and syndromes ensuring comprehensive preparation for all clinical scenarios Structured Learning Meticulously organized into chapters that offer a step by step approach to both foundational

concepts and advanced techniques This structure supports practical learning making it easy for practitioners to apply the knowledge directly in clinical settings Practical Protocols Actionable protocols designed to assist practitioners to enhance patient outcomes and streamline their practice The clear concise format ensures that essential information is readily accessible during clinical practice Reference Lists Accompanying each topic is a curated list of the most relevant references helping readers to delve deeper into specific areas of interest and stay abreast of current standards and practices in anesthesiology Board Examination Preparation Tailored content for those preparing for oral and written board exams providing the latest information and practical insights necessary to excel This manual is more than a collection of guidelines it is an educational tool shaped by the expertise of NYSORA s dedicated team and contributors worldwide Reviewed and written by leading experts in anesthesiology pain medicine musculoskeletal medicine MSK and point of care ultrasound POCUS the Anesthesiology Manual Best Practices and Case Management guarantees an unmatched level of precision and depth in its content Reviews The Anesthesiology Manual is an indispensable resource for anyone in the field Its clear concise and comprehensive approach makes it the perfect guide for both new and seasoned professionals The step by step instructions and detailed explanations have greatly enhanced my confidence and competence in the operating room I highly recommend this manual to all my colleagues Dr Sarah Thompson MD Anesthesiologist As a resident I have relied heavily on the Anesthesiology Manual throughout my training The practical insights and real world applications provided in this manual are unmatched It has not only helped me excel in my rotations but also provided a solid foundation for my future practice This is a must have for anyone serious about mastering anesthesiology Dr James Lin MD Anesthesiology Resident Manual práctico de instrumentación quirúrgica en enfermería Isabel Serra Guillén, Luis Moreno, 2022-11-15 La obra se convierte en una herramienta esencial para el personal de enfermería que trabaja en un quirófano o que aspira a hacerlo proporcionando todos aquellos conocimientos que han de manejar estos profesionales El contenido se presenta en un formato práctico y tremendamente visual lo que facilita el aprendizaje y ayuda al usuario a localizar de manera sencilla toda la información Presenta imágenes reales de instrumentación quirúrgica para acercar la realidad del quirófano a todos los lectores Incluye protocolos estandarizados en el uso del material quirúrgico Esta tercera edición incluye nuevos protocolos que se suman al ya extenso listado en la literatura enfermera que constituye un chuletero para tener en la taquilla de quirófano y poder consultar si instrumentamos una cirugía nueva afirman sus autores Otra novedad es la inclusión de capítulos donde se recogen los aspectos más relevantes de la seguridad del paciente en el bloque quirúrgico así como los contenidos más destacables de la cirugía endoscópica Obra redactada por expertos instrumentistas supervisores de quirófano y profesores universitarios todos ellos enamorados de una profesión que va avanzando y perfeccionándose cada día gracias a la constante investigación

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