ureteric calculus removal

ureteric calculus removal is a critical medical procedure designed to eliminate kidney stones that obstruct the ureters, the tubes connecting the kidneys to the bladder. These stones can cause severe pain, urinary complications, and even kidney damage if not addressed promptly. This article explores the various methods of ureteric calculus removal, the indications for surgery, the preparation involved, and the potential risks and complications associated with these procedures. Additionally, we will discuss post-operative care and recovery, providing a comprehensive overview of the entire process.

- Understanding Ureteric Calculi
- Indications for Ureteric Calculus Removal
- Methods of Ureteric Calculus Removal
- Preparation for Surgery
- Post-operative Care and Recovery
- Risks and Complications
- Conclusion

Understanding Ureteric Calculi

Ureteric calculi, commonly known as kidney stones, are hard deposits made of minerals and salts that form inside the kidneys. These stones can vary in size and may remain in the kidney or travel down the urinary tract, where they can cause blockages. The composition of these stones can include calcium oxalate, uric acid, struvite, and cystine, with each type presenting unique challenges for treatment and prevention.

When stones obstruct the ureters, they can lead to intense pain, known as renal colic, which often radiates from the back to the lower abdomen and groin. Other symptoms may include hematuria (blood in urine), frequent urination, and nausea. The diagnosis of ureteric calculi typically involves imaging studies such as ultrasound or CT scans, which help in determining the size and location of the stones.

Indications for Ureteric Calculus Removal

The decision to perform ureteric calculus removal is influenced by several factors. Typically, surgical

intervention is necessary when the stones cause significant pain, obstruction, or infection. Here are some common indications:

- **Severe Pain:** Unmanageable pain that does not respond to conservative treatment is a primary indication.
- Urinary Tract Infections (UTIs): Recurrent UTIs associated with ureteric obstruction may necessitate removal.
- **Hydronephrosis:** Swelling of the kidney due to urine buildup, often caused by an obstructing stone, may require surgical intervention.
- Large Stone Size: Stones larger than 5 mm are less likely to pass spontaneously and often require removal.
- **Kidney Function Impairment:** If kidney function is compromised due to obstruction, urgent surgery may be warranted.

Methods of Ureteric Calculus Removal

Various techniques are employed for ureteric calculus removal, each tailored to the size, location, and composition of the stone. The most common methods include:

1. Ureteroscopy

Ureteroscopy is a minimally invasive procedure that involves the insertion of a thin, flexible tube (ureteroscope) through the urethra and bladder into the ureter. This approach allows the surgeon to locate and directly remove the stone using specialized instruments. Ureteroscopy is particularly effective for stones located in the lower ureter and for those that are less than 2 cm in size.

2. Extracorporeal Shock Wave Lithotripsy (ESWL)

ESWL utilizes high-energy shock waves generated outside the body to break stones into smaller fragments, which can then be passed through the urinary tract. This non-invasive method is ideal for patients with larger stones and those who prefer to avoid surgery. However, it may not be suitable for all patients, especially those with certain anatomical abnormalities.

3. Percutaneous Nephrolithotomy (PCNL)

PCNL is a more invasive procedure recommended for larger stones or when other methods have failed. It involves making a small incision in the back to access the kidney directly. A nephroscope is used to visualize and remove the stone. This method is typically reserved for stones larger than 2 cm or for patients with complex stone disease.

4. Open Surgery

Open surgery is rarely performed today but may be necessary in cases where other techniques are ineffective or when there are anatomical challenges. This approach involves a larger incision and longer recovery time, making it less favorable compared to other minimally invasive techniques.

Preparation for Surgery

Preparing for ureteric calculus removal involves several important steps to ensure the best possible outcomes. Patients should follow their healthcare provider's instructions closely, which may include:

- **Pre-operative Assessment:** A thorough evaluation, including imaging and laboratory tests, to assess kidney function and stone characteristics.
- **Medication Review:** Discussing current medications with the healthcare provider to manage any anticoagulants or other drugs that may affect surgery.
- **Fasting:** Avoiding food and drink for a specified period before the procedure, as advised by the medical team.
- **Arranging Transportation:** Organizing a ride home post-procedure, as patients may be under anesthesia and unable to drive.

Post-operative Care and Recovery

After ureteric calculus removal, patients will typically experience some discomfort and may require pain management strategies. Recovery protocols may include:

- **Hydration:** Increased fluid intake to help flush out any remaining stone fragments.
- **Follow-up Appointments:** Scheduling visits to monitor recovery and ensure no complications arise.
- Activity Restrictions: Avoiding strenuous activities for a recommended period, as advised by the healthcare provider.

• **Medication Compliance:** Following prescribed medication regimens, including pain relievers and antibiotics if necessary.

Risks and Complications

While ureteric calculus removal is generally considered safe, potential risks and complications can arise. Some of these include:

- Infection: Post-operative infections may occur, necessitating antibiotic treatment.
- **Bleeding:** Some patients may experience bleeding during or after the procedure.
- **Urinary Retention:** Difficulty urinating can occur after certain procedures, especially if swelling occurs.
- **Stone Recurrence:** Patients are at risk of developing new stones, necessitating lifestyle changes and preventive measures.

Conclusion

Ureteric calculus removal is a vital intervention for alleviating the complications associated with kidney stones. Understanding the various methods, indications, and post-operative care can empower patients to make informed decisions regarding their treatment options. With advancements in medical technology, many patients can now undergo minimally invasive procedures that offer shorter recovery times and fewer risks. It is crucial for individuals to stay vigilant about their urinary health and consult healthcare professionals for timely intervention.

Q: What are ureteric calculi?

A: Ureteric calculi, commonly known as kidney stones, are solid mineral deposits that form in the kidneys and can travel to the ureters, causing pain and obstruction.

Q: How are ureteric calculi diagnosed?

A: Diagnosis typically involves imaging techniques such as ultrasound or CT scans, along with a review of symptoms and urine tests to analyze stone composition.

Q: What are the symptoms of ureteric calculi?

A: Symptoms may include severe pain (renal colic), blood in urine (hematuria), frequent urination, and nausea, often depending on the stone's location and size.

Q: What is the recovery time after ureteric calculus removal?

A: Recovery time varies by procedure but generally ranges from a few days to several weeks, depending on the method used and individual health factors.

Q: Are there any dietary recommendations to prevent kidney stones?

A: Yes, drinking plenty of water, reducing salt intake, and avoiding excessive oxalate-rich foods can help prevent the formation of new stones.

Q: What is the role of ESWL in ureteric calculus removal?

A: Extracorporeal Shock Wave Lithotripsy (ESWL) is a non-invasive method that uses shock waves to break stones into smaller pieces, allowing for easier passage through the urinary tract.

Q: Can ureteric calculi recur after removal?

A: Yes, patients can experience recurrent kidney stones, making lifestyle changes and preventive measures essential to reduce the risk of future formations.

Q: What should I expect during a ureteroscopy procedure?

A: During ureteroscopy, a thin tube is inserted through the urinary tract to locate and remove stones, often performed under anesthesia with minimal recovery time.

Q: What are the risks associated with ureteric calculus removal?

A: Risks may include infection, bleeding, urinary retention, and the potential for stone recurrence, necessitating careful post-operative monitoring.

Q: How can I manage pain after ureteric calculus removal?

A: Pain management typically involves prescribed medications and strategies such as hydration and rest to facilitate recovery and minimize discomfort.

Ureteric Calculus Removal

Find other PDF articles:

https://ns2.kelisto.es/gacor1-13/Book?dataid=icW88-9668&title=factoring-polynomials-examples.pdf

ureteric calculus removal: Renal Calculus Leslie N. Pyrah, 2012-12-06 Stone in the urinary tract has fascinated the medical profession from the earliest times and has played an important part in the development of surgery. The earliest major planned operations were for the removal of vesical calculus; renal and ureteric calculi provided the first stimulus for the radiological investigation of the viscera, and the biochemical investigation of the causes of calculus formation has been the training ground for surgeons interested in metabolic disorders. It is therefore no surprise that stone has been the subject of a number of monographs by eminent urologists, but the rapid development of knowledge has made it possible for each one of these authors to produce something new. There is still a technical challenge to the surgeon in the removal of renal calculi, and on this topic we are always glad to have the advice of a master craftsman; but inevitably much of the interest centres on the elucidation of the causes of stone formation and its prevention. Professor Pyrah has had a long and wide experience of the surgery of calculous disease and gives us in this volume something of the wisdom that he has gained thereby, but he has also been a pioneer in the setting up of a research department largely concerned with the investigation of this complex group of disorders, so that he is able to present in terms readily intelligible to the general medical reader the results of extensive biochemical investigation in this area.

ureteric calculus removal: $Smith's\ Textbook\ of\ Endourology\ Arthur\ D.\ Smith,\ 2007$ Endourology is a dynamic subspecialty involving closed, controlled manipulation within the genitourinary tract. In the past decade the creative efforts of many urologists, radiologists, and engineers have vastly expanded endoscopic technique, to the great benefit of patients with stones, obstruction, cancer, diverticula, cysts, adrenal disease, varices, and diseases of the bladder. This definitive text addresses every aspect of endourologic procedure including methods of access, operative techniques, complications, and postoperative care. The reader is taken, step-by-step, through cutaneous surgery, ureteroscopy, extracorporeal shock wave lithotripsy, laparoscopy, and lower urinary tract procedures. The principles and function of state-of-the-art endourologic instruments are outlined for each procedure. The authorship reads like a Whoâ \mathfrak{E}^{TM} s Who in endodurology. The breadth and depth of their experience is evident throughout the text.

ureteric calculus removal: Opcs Classification of Interventions and Procedures Version 4.5 (April 2009) Connecting for Health (Organization), 2009 Contains four distinct sections. This title features The Alphabetical Index of Surgical Eponyms section that includes a brief description of various interventions, principally to distinguish between those of the same name.

ureteric calculus removal: Diseases of the kidneys, ureters and bladder v. $\bf 2$ Howard Atwood Kelly, 1914

ureteric calculus removal: Radiology of the Upper Urinary Tract Erich K. Lang, 2012-12-06 The advent in recent years of several new imaging modalities for the application in diag nosis and patient management has had an unprecedented impact on patient care. By per mitting the acquisition of information without intervention, these new modalities have made the diagnostic process more humane. They have also made possible the treatment of many disorders of the upper and lower urinary tract by means of interventional tech niques, replacing a number of surgical procedures. The editor of this volume has engaged international experts in radiology to describe the state of the art of radio log y of the upper urinary tract. Local and regional abnormalities are

covered, but so too is the involvement of urinary structures in systemic disease. The radiologic approach and interpretation are combined with the presentation of pertinent clinical observations and important pathophysiologic concepts. The text is concise and the illustrations are appropriate. Up-to-date international bibliographies are provided. Both the text and the illustrations will serve as sources of information for the radiologists, urol ogists, nephrologists, gynecologists, and oncologists. Most importantly, the material is presented in such a way that practicing specialists dealing with urologic disorders, as well as physicians in training will benefit. We feel that it is timely to publish a present day treatise on urinary tract radiology in order to convey the contributions made by various newer imaging modalities to the diagnosis of urinary disorders.

ureteric calculus removal: Diseases of the Kidneys, Ureters and Bladder Howard Atwood Kelly, Curtis Field Burnam, 1914

ureteric calculus removal: The Ureter H. Bergman, 2012-12-06 This volume, focusing on the ureter and the diseases which involve it, is an updated second edition. Many journals and textbooks deal with the physiology, pathology, diagnosis, and therapy of derangements of the urinary tract. In most instances, however, the discussion properly centers on the disease process itself and its primary aspects, with only a tan gential description of effects on the ureter. The editor is therefore correct that the ureter itself should be considered a major organ. Though it has been regarded in the recent past as a simple muscular tube, reacting to stretching or filling by contraction, this simplistic view of ureteral physiology is changing fast. With expanded knowledge of ureteral physiology, a pharmacology is developing which is becoming useful to the clinician in many ways. One of the most interesting aspects of the ureter is its role in inducing the permanent kidney, the metanephros. Relatively slight displacements in the origin of the ureteral bud result in ectopic ureteral orifices and a wide range of congenital anomalies. An ureteral bud which arises medial to the normal position at the genu of the mesonephric duct results in a lateral, and usually incompetent, ureterovesical junction after the duct is taken up to form a portion ofthe trigone. This appears certainly to be the developmental mechanism which results in primary reflux.

ureteric calculus removal: *Index-catalogue of the Library of the Surgeon-General's Office, United States Army* National Library of Medicine (U.S.), Library of the Surgeon-General's Office (U.S.), 1898 Collection of incunabula and early medical prints in the library of the Surgeon-general's office, U.S. Army: Ser. 3, v. 10, p. 1415-1436.

ureteric calculus removal: Federal Register, 2007-11

ureteric calculus removal: Index-catalogue of the Library of the Surgeon-General's

Office, United States Army Library of the Surgeon-General's Office (U.S.), 1914

ureteric calculus removal: International Abstracts of Surgery, 1916

ureteric calculus removal: Surgery, Gynecology & Obstetrics , 1906

ureteric calculus removal: Hunt & Marshall's Clinical Problems in Surgery - eBook Julian A. Smith, Jane G. Fox, Alan C. Saunder, Ming Kon Yii, 2015-10-01 - A new Chapter 14, titled Ophthalmological Problems, expands the latest advancements in surgical treatments of such problems. - Many line drawings from the previous edition have been replaced with clinical photos to emphasise real-life clinical scenarios which surgeons encounter on a daily basis. - This edition will be available as a Student Consult eBook along with the print book. The eBook will include enhancements to the images within the book, as enabled by the Inkling platform.

ureteric calculus removal: *Principles and Practice of Urology* MA Salam, 2013-09-30 The second edition of this two volume set has been fully revised to provide the most recent advances in the field of urology. Divided into 20 sections, this comprehensive guide begins with an introduction to the basics of urology and presentation and investigation of associated diseases. The following sections provide extensive coverage of the various aspects of urology, including emergency urology, paediatric urology, female urology and urinary tract obstruction. Volume two discusses surgical aspects, including reconstructive urology, transplant, uro-oncology and reproductive urology. Each section includes the various approaches such as open, laparoscopic, endourologic, microsurgical, prosthetic, tissue and genetic engineering, and robotic surgeries. This new edition is well-illustrated

with nearly 1000 images and tables. Key points Fully revised, new edition presenting latest advances in urology Covers diagnosis and treatment of many diseases and disorders Volume two provides extensive coverage of surgical aspects Previous edition published in 2003

ureteric calculus removal: <u>Medical Record</u> George Frederick Shrady, Thomas Lathrop Stedman, 1920

ureteric calculus removal: Berry & Kohn's Operating Room Technique - E-Book Nancymarie Phillips, 2012-02-29 NEW! Over 50 new and revised illustrations reflect the latest perioperative procedures, techniques, and equipment. Updated content ensures you have the latest information on key topics, including: Computerized documentation Never Events and reimbursement Credentialing and certification Bioterrorism and prion contamination Surgical hand hygiene, gowning, and gloving Wound healing and hemostasis Surgical instrumentation NEW! References throughout the text highlight the importance of evidence-based practice. Expanded coverage in the Administration of Perioperative Patient Care Services chapter features managerial approaches to TeamSTEPPS and SCIP, as well as magnet status. Updated physical plant information offers the latest 2011 updates concerning air-flow and room size according to AAMI standards.

ureteric calculus removal: Atlas of Robotic Urologic Surgery Li-Ming Su, 2017-06-20 As a consequence of rapid changes in surgical technique and incorporation of new robotic technology and advanced intraoperative imaging, the second edition of this important textbook reflects these rapid changes in the field of robotic urologic surgery. The goals of this textbook are three-fold. First, it provides a comprehensive update on surgical techniques pertinent to each robotic urologic procedure being performed worldwide, spanning procedures performed for both upper urinary tract (e.g. adrenal, kidney, ureter) and lower urinary tract (e.g. bladder, prostate, seminal vesicle, vagina) as well as adult and pediatric conditions. Second, advances in new robotic instruments and technology as well as advanced intraoperative imaging modalities used for surgical navigation are incorporated. Third, to further improve upon the first edition, this textbook is highly illustrated with schematic drawings to aid an understanding of the surgical techniques. Links to online video content is presented throughout. Atlas of Robotic Urologic Surgery will serve as a vital step-by-step, highly illustrated comprehensive yet concise resource to urologic surgeons, trainees and robotic surgical assistants embarking on robotic surgery as part of their surgical armamentarium for treatment of urologic diseases.

ureteric calculus removal: *Renal and Electrolyte Disorders* Robert W. Schrier, 2017-06-13 For more than 40 years, this well-regarded reference has bridged the gap between basic and clinical sciences for the many disorders associated with electrolyte imbalances and kidney dysfunction. Authoritative and easy to read, the eighth edition has been thoroughly updated by experts in the field to reflect recent developments in renal pathophysiology. Each chapter first introduces normal physiology, then covers each disorder's clinical features, diagnosis, and treatment. Helpful diagrams, algorithms, and tables further explain the complex concepts.

ureteric calculus removal: Textbook of Adult Emergency Medicine E-Book Peter Cameron, Mark Little, Biswadev Mitra, Conor Deasy, 2019-05-23 Since the first edition of Textbook of Adult Emergency Medicine was published twenty years ago, there has been enormous change in the way emergency care is delivered. This has occurred both in countries where emergency medicine was originally developed and in those where its application was limited because of cost. Emergency medicine is now perceived as the cornerstone of response to acute illness regardless of resources. This fully revised Fifth Edition provides clear and consistent coverage of this constantly evolving specialty. Building on the success of previous editions it covers all the major topics relevant to the practice of emergency medicine. The book will prove invaluable to professionals working in this setting – including nurse specialists and paramedics – who require concise, highly practical guidance, incorporating the latest best practice and evidence-based guidelines. This edition comes with an enhanced electronic version with video and self-assessment content, providing a richer learning experience and making rapid reference easier than ever before, anytime, anywhere. - A comprehensive textbook of adult emergency medicine for trainee doctors - covers all the problems

likely to present to a trainee in the emergency department. - Chapters are highly readable and concise - boxes summarise chapter key points and highlight controversial areas of treatment. - The content is highly practical, clinically orientated and thoroughly updated in all the core subjects - There have been major updates in topics such as airway, shock and sepsis where guidelines have changed rapidly. - The imaging chapters have also evolved with changing practice and improved technology, to be concordant with evidence on the importance of image interpretation by emergency clinicians. - There are major sections on other skills and issues of key importance to today's advanced emergency medicine practitioner, such as staffing, overcrowding, triage, patient safety and quality measures. - In addition, difficult topics such as death and dying, the challenging patient, ethics, giving evidence and domestic violence are covered. Governance, training, research and organisational subjects such as disaster planning and response, humanitarian emergencies and refugee medicine are included to give the reader a framework to understand the complexity of managing major emergency systems of care.

ureteric calculus removal: *Short Textbook of Surgery* Roy, 2010-11 Concise step by step guide to surgeries in all areas of the body, with numerous well illustrated photographs, figures and line diagrams.

Related to ureteric calculus removal

Home | National Museum of American History 5 days ago The Smithsonian's National Museum of American History preserves our nation's collections and tells a full and complex history of the United States

Collections - National Museum of American History The National Museum of American History collects artifacts of all kinds—from gowns to locomotives—to preserve for the American people an enduring record of their past. We have

Visit - National Museum of American History The National Museum of American History is open every day, except December 25, from 10:00 a.m. to 5:30 p.m. Admission is free

History | National Museum of American History The National Museum of American History opened to the public in January 1964 as the Museum of History and Technology. It was the sixth Smithsonian building on the National Mall in

Explore | National Museum of American History Entertainment Nation Through the National Museum of American History's extraordinary collection of theater, music, sports, movie and television objects, the exhibition

Exhibitions - National Museum of American History American Democracy American Democracy: A Great Leap of Faith explores the history of citizen participation, debate, and compromise from the nation's formation to today

About - National Museum of American History The National Museum of American History serves as the custodian of our national treasures and is honored to hold the public's trust. At the heart of the museum are the

American Enterprise - National Museum of American History American Enterprise chronicles the tumultuous interaction of capitalism and democracy that resulted in the continual remaking of American business—and American life

The Price of Freedom - National Museum of American History The Price of Freedom: Americans at War surveys the history of America's military from the French and Indian Wars to the present day, exploring ways in which wars have been defining episodes

FAQ—Visiting the Museum - National Museum of American History The National Museum of American History has more than 1.7 million objects in its collection, and only a small fraction—perhaps less than 1%—is on view at any one time

Facebook Marketplace: Buy and Sell Items Locally or Shipped | Facebook Buy or sell new and used items easily on Facebook Marketplace, locally or from businesses. Find great deals on new items shipped from stores to your door

Buy and Sell in Grand Junction, Colorado | Facebook Marketplace | Facebook Marketplace is

a convenient destination on Facebook to discover, buy and sell items with people in your community **New and Used Cars, Trucks & Motorcycles For Sale | Marketplace | Facebook** Find great deals on new and used Cars, Trucks & Motorcycles for sale in your area on Facebook Marketplace. New & used sedans, trucks, SUVS, crossovers,

Classified Items For Sale in Grand Junction, Colorado - Facebook New and used Classifieds for sale in Grand Junction, Colorado on Facebook Marketplace. Find great deals and sell your items for free

Cars, Trucks & Motorcycles For Sale in Grand Junction - Facebook Find local deals on Cars, Trucks & Motorcycles in Grand Junction, Colorado on Facebook Marketplace. New & used sedans, trucks, SUVS, crossovers,

Free Stuff in Grand Junction, Colorado | Facebook Marketplace | Facebook Find stuff for free in Grand Junction, Colorado on Facebook Marketplace. Free furniture, electronics, and more available for local pickup

Facebook Marketplace Category Directory | Facebook Buy and sell new and used items on Facebook Marketplace. See popular categories

New and used Home Goods for sale | Facebook Marketplace | Facebook New and used Home Goods for sale near you on Facebook Marketplace. Find great deals or sell your items for free Marketplace | Facebook Help Center You can use Marketplace to buy and sell items with people in your community on Facebook

How to Use Facebook Marketplace: A Comprehensive Guide Get the most out of Facebook Marketplace with our expert advice. This guide covers everything from creating listings to safe transactions

What is YouTube TV? - YouTube TV Help - Google Help What is YouTube TV? YouTube TV is a TV streaming service that includes live TV from 100+ broadcast, cable, and regional sports networks Start a YouTube TV free trial - YouTube TV Help - Google Help Get the most out of a YouTube TV free trial To get the most value out of a current free trial, use the limitless DVR feature to record shows, movies and sports to your YouTube TV Library

Watch shows, sports, events, & movies on YouTube TV - YouTube Home is where you'll find recommendations for what to watch on YouTube TV. These recommendations are based on your watch history on YouTube TV and YouTube—learn how

YouTube TV Help - Google Help Official YouTube TV Help Center where you can find tips and tutorials on using YouTube TV and other answers to frequently asked questions

Download & control YouTube TV on your TV - YouTube TV Help To watch on select TV devices, you can download our TV app, watch by opening YouTube TV inside the YouTube app on your TV, or stream YouTube TV from your mobile device or

Sign up for YouTube TV - Computer - YouTube TV Help - Google YouTube TV is a paid membership that offers live TV from major networks, unlimited DVR space, and popular cable and premium networks. This article will help you sign up and customize a

YouTube TV & YouTube Premium - YouTube TV Help - Google Help YouTube TV & YouTube Premium YouTube TV is a paid membership that brings you live TV from major broadcast networks, popular cable networks, and premium networks, along with popular

Watch YouTube TV on supported devices - Google Help Watch YouTube TV on supported devices You can watch YouTube TV on a computer, smart TV, streaming device, or mobile device, including certain phones and tablets

TV YouTube TV		YouTube T	V 0000 000 7], TV[
YouTube ∏∏∏ YouTube	e TVN NN NN	חחח חחח חחח		∏ YouTube 🤇	$\Gamma V \cap \cap \cap \cap \cap \cap$

Back to Home: https://ns2.kelisto.es