

**Dr Sriram Krishnamoorthy**

**Emp No: 02444**

**PROFESSOR & HEAD OF DEPARTMENT**

**Senior Consultant Urologist, Andrologist**

**Laparoscopic and Renal Transplant surgeon**

**Department of Urology & Renal Transplantation**

**SRIHER**



**Education: MBBS, MS (Gen Surgery), M.Ch (Urology), DNB (Urology), FRCS (Glasgow).**

**Experience: More than 20 years of urology experience.**

**Consultation days: Monday, Thursday (*walk in appointment*)**

**Other days, on Prior Online/Telephonic Appointment**

**Consultation Time:**

**8.00 a.m. To 2.00 p.m.**

**For Appointment, Call:**

044-45928543

## EXPERIENCE

- PG Tutor : 21.03.2005 - 12.11.2007
- Assistant Professor (CMC) : July 2007 till 11.03.2009.
- Assistant Professor (SRMC) : 12.03.2009 till 31.01.2010.
- Associate Professor (SRMC): 01.02.2010 till 06.01.2016.
- Professor (SRMC) : 07.01.2016 till date.
- Professor & Head: 01.11.2023 onwards

## AREAS OF SPECIALIZATION

1. Reconstructive urology.
2. Redo Urethroplasty.
3. Paediatric Per Cutaneous Nephro Lithotomy (PCNL).
4. Micro puncture PCNL (Mini Perc) and Supine PCNL.
5. Laparoscopic urology
6. Renal transplantation.

**Reconstructive Urology** has been a challenging task. Having worked in teaching Institutions for more than 15 years we get referrals from various parts of the country for managing such difficult cases, especially those with complex Genito urinary tuberculosis, failed pyeloplasties, crippled hypospadias and restenosis after urethroplasties. Reconstructing such complex cases has not only been so challenging and daunting, but also sometimes technically extremely difficult to salvage these organs. SRMC, being a tertiary care referral centre, attracts many of such complex cases that need special expertise and attention.

**Stricture Urethra** has been yet another area that needs a special mention. Complicated strictures and re-strictures of urethra have been operated upon by me, initially under the watchful guidance of Prof Ganesh Gopalakrishnan at CMC, Vellore. My skills were further fine tuned by Prof Sunil Shroff at the present Institution and over time, I have accumulated adequate expertise to perform Redo urethroplasties independently.

**Per Cutaneous Nephro Lithotomy (PCNL)** has been yet another domain of my special interest. The standard of care for large volume kidney stones, these days, has shifted from traditional open surgical procedures like Pyelolithotomy and Nephro lithotomy towards PCNL. SRMC Institution has a dedicated pediatric urology division and many children with large and complex stones are referred to our centre for PCNL. **Our centre boasts one of the largest numbers of Supracostal PCNLs in our country** (Publication no: 40). Owing to the large numbers of stone disease patients that we get in our Institution, and with gaining more expertise and refinement in puncture techniques, we have now moved towards Supine PCNLs and micro puncture PCNLs that are minimally invasive forms of this technique.

**Renal Transplantation** has been yet another domain where I developed interest over time. During my stay at CMC hospital, I had involved myself in more than 500 Renal allograft transplants, both Live and Deceased. Till date, I have associated myself with more than 1000 Renal transplants and have performed more than 150 renal transplants independently. SRMC is one of the centres that boasts high numbers of both live related and cadaveric organ transplantation. Of late laparoscopic organ retrieval from the donor has been the standard of care in our hospital.

## CLINICAL TRIALS & RESEARCH ACTIVITIES

### A. Phase IV trial

Involved in Phase IV post marketing surveillance study on the efficacy of Tolterodine in overactive bladder, 2005.

Principal Investigator: Prof. M G Rajamanickam

### B. Joint projects with IIT MADRAS, Chennai

It was a proud moment for our Institution (SRMC) to be associated in the field of research, with one of the top Institutions in the world, the Indian Institute of Technology, Madras, Tamil Nadu, India. Joint projects were carried out in the field of urolithiasis and polyurethane double J stents, where research was undertaken to identify and categorize the materials that cause least bacterial colonization.

**Under the Principal Investigator**, Prof. Sunil Shroff, the following research activities were carried out.

1. Coating of bioactive on Polyurethane urinary stent to reduce bacterial adhesion
2. Correlation between clinical and explanted stent characteristics
3. Surface modification of polyurethane stent for better biocompatibility Adsorption of inorganic salts on polyurethane stents
4. Comparison of chemical stone analysis with infrared spectroscopy.

**C. Joint projects with College of Engineering, Guindy, Anna University, Chennai**

Anna University, Chennai, India, is one of the premier Institutions in this part of the world. In Collaboration with the University, research was undertaken in the field of Renal Cancer, with an aim to identify certain Radiological parameters that could help us to make a pre operative diagnosis of Renal Cell carcinoma.

The research was carried out on: "**Texture analysis of Kidney Computed Tomography Images as a new method for assessment of Primary solid renal mass Heterogeneity**".

This research helped us to identify and define certain radiological CT parameters that were helpful to identify the renal mass as a malignant one, obviating the need for a renal biopsy.

**The following are the publications made in this field of research:**

1. Feature Extraction by Gray Level Co-occurrence Matrices Parameters in Computed Tomography of Renal Cell Carcinoma.
2. Feature Extraction of kidney Tumor implemented with Fuzzy Inference System. (Ref 24, International)
3. Texture analysis of Kidney Computed Tomography Images: a new method for assessment of Primary solid renal mass Heterogeneity - a prospective study.

## **LIFE MEMBERSHIP OF PROFESSIONAL BODIES**

1. Life member of Urological Society of India.
2. Life member of Urological Society of India - Southern Chapter.
3. Life member of Urological Society of Tamil Nadu & Pondicherry Chapter.
4. Life member of Madras Urological Society.
5. Life Member of Indian Medical Association - Porur, Chennai.

## MERITS AND AWARDS

1. **Gold Medalist** in MBBS -
  - Anatomy,
  - Physiology,
  - Pathology,
  - Forensic Medicine.
2. **National Topper & Gold Medalist** in DNB Urology Final Examination, 2005
  - *Dr. H.S. Bhat Gold Medal for the National Topper in the Diplomat of National Board Final Examination.* Dr H S Bhat (Late) was one of the senior most urologists in India, who had been a great mentor and role model for many of the senior urologists in the country today. The candidate who stands first in the country in DNB examinations every year is awarded this much coveted Gold medal.
3. **Best paper presentation award** in the Indian Society of Organ Transplantation 2007, for the presentation on '*Post transplant renal artery stenosis*'. This presentation was adjudged the best as it represented data from one of the largest series of transplant related vascular complications from India and world literature. The design and methodology of the study fetched award for this presentation.
4. **IJU best publication first prize award**
  - *Posttransplant renal artery stenosis*: published as original article in Indian Journal of Urology, was adjudged the best of all the publications for the year 2009.
5. **Peer reviewer** for
  - Indian Journal of Urology (2005 - 2010),
  - Journal of Urology
  - Annals of urologic oncology
  - Austin Journal of Urology
  - South Asian Journal of Nephrology, Urology and Transplantation
  - Journal of Clinical and Diagnostic Research (till date).
6. **Member of Editorial board** for
  - *South Asian Journal of Nephrology, Urology and Transplantation (The Open Urology & Nephrology Journal), SAARC Countries.*
  - *Austin Journal of Urology, USA*

7. **Invited speaker** for TAPASU State level midterm CME programme, delivered a talk on, “*Screening and Active Surveillance in Ca prostate - where do we stand?*”, held at Trichy in May 2014.
8. **PG Examiner** for M.Ch Urology examinations of various universities since 2013.
  - Sri Ramachandra University
  - Rajiv Gandhi University, Karnataka, India.
  - Dr. NTR University of Health Sciences, Andhra Pradesh, India.
9. **Examiner** for B.Sc Allied Health Sciences Urology University Examinations since 2009 till date.
10. **Invited speaker for CME programmes** in various Medical Colleges in Tamil Nadu.
11. Invited speaker for CUE programme organized by Muthukumaran Medical College & RI, Chennai on “*Recent developments in Benign Prostatic Hyperplasia management*” - Jan 2018.
12. **Core Faculty Member** for Uro-Oncology meet organized by Global Hospitals, Chennai on “*Role of Mitomycin C as an Intra vesical agent in Non muscle Invasive Bladder Cancer*” - March 2018.
13. Invited Faculty to deliver a Guest Lecture for the “**Pan African e-Network Project for Telemedicine**” on
  - Evaluation & Management of Patients with Haematuria, June 2014.
  - Management of Ureteric Colic, November 2016
14. Chairperson for Uro Oncology meet organised by Govt. Royapettah Hospital, Chennai, India on
  - *Symposium on Carcinoma Prostate*- April 2018.
  - *Symposium on Stricture Urethra*- June 2018.
15. **National Faculty** for UROCON 2018 - an update in Urology, July 7<sup>th</sup> 2018.
16. Invited as a **Guest Speaker for ESMED Assembly (European Society of Medicine)** - Nov 2022

## ACADEMIC ACHIEVEMENTS

Sri Ramachandra Medical College and Research Institute is ranked among the top health sciences universities in India. The consistent quest for excellence in medical education, health care and research has earned the University many notable accreditations, recognitions and awards. In order to keep pace with the growth of this Institution, faculties are motivated and encouraged to set very high standards for themselves and the Institution.

- **PROFESSOR**, Department of Urology & Renal Transplantation, SRMC.
- **SENIOR CONSULTANT**, Department of Urology & Renal Transplantation, SRMC.
- Involved in Post graduate and Under graduate teaching for the past 20 years.
- Serving as External & Internal Examiner for various Super speciality M.Ch Post graduate Examinations since 2013.
- Actively involving myself in various Institutional committees like National Assessment and Accreditation Council (NAAC), Hospital Quality Assurance Division (HQAD), Internal Quality Assurance Cell (IQAC) and National Board of Accreditation of Hospitals (NABH).
- Played a dynamic role as Urology Department Coordinator, in Joint Commission International (JCI) Accreditation for Sri Ramachandra University. JCI accreditation is considered the gold standard in global health care. In SRMC, JCI trained consultants are considered to be the most skilled and experienced in the industry, where challenges are taught to be looked into as opportunities and not as obstacles. This helped us to greatly improve patient safety and quality of health care.
- Member of Organ Transplantation committee and Operation Room committee from 2009 till date.
- Guided about 40 M.Ch post graduate students and 3 PHD scholars.
- Published **more than 80 publications** in various National and International peer reviewed indexed journals.
- Serving as **Peer reviewer** and **Editorial committee member** for various international journals.
- Contributed to several book sub-chapters in Urology and Nephrology.
- Interview Committee Panelist for selecting Urologists for Government jobs, Telengana State, India.
- Credited with one of the largest national audit conducted in the practice of Percutaneous Nephro lithotomy for Renal stones amongst the practising urologists all over the country. The same was subsequently presented in the National Conference in 2007, Agra, India.
- Invited Chairperson for various CMEs organized by the Urology Society of Tamil nadu, India.

Course Co-director for various Continuous urological education programmes organized by the Government Medical Colleges of Chennai, India.

## ACADEMIC AND PROFESSIONAL CONTRIBUTIONS TO SRMC

Dr Sriram Krishnamoorthy (Emp No: 02444)

1. Serving this institution for the 14<sup>th</sup> consecutive year, since 2009.
2. Serving as Additional Professor and Professor for the past 10 years.
3. Received the certificate and medal of appreciation from our beloved Chancellor for completing a decade of tenure at SRMC.
4. Appreciated and awarded by the SRH-HQAD for my excellent commitment and passionate care towards our patients.
5. **Actively involving myself as a coordinator/member over the past 13 years in various Institutional committees, wherever and wherever given an opportunity.**
  - a. *National Assessment and Accreditation Council (NAAC).  
(Served as NAAC coordinator for 11 years from 2010 to 2020).*
  - b. *Hospital Quality Assurance Division (HQAD),*
  - c. *Internal Quality Assurance Cell (IQAC),*
  - d. *National Board of Accreditation of Hospitals (NABH).*
  - e. *Operation room committee - both G block and Medical Centre*
  - f. *Human Organ Transplant Committee*
  - g. *Infection control committee*
  - h. *PG curriculum committee*



6. Have actively involved myself and represented the urology department in all the previous JCI, NABH and NAAC inspections.
7. **Played active role in various SRMC health camps conducted by our Institution at Thanjavur and Kumbakonam.**
8. Regularly attend medical camps conducted by our university in North-Eastern states including Siliguri, Dinhata, Guwahati and Kolkata camps from 2014 onwards.
9. Regularly conducting medical consultations to patients from North-East states through Telemedicine department.
10. Regularly participating in all academic/teaching activities for UG/PG/M.Ch medical students and Allied Health Sciences students.
11. Involved in AETCOM sessions for undergraduate medical students in the competency-based medical curriculum.
12. Served as a guide for more than 30 M.Ch students for their PG dissertation work and currently guide 2 postgraduate students.
13. **Currently serving as a RAC member for 3 PhD scholars of our university.**
14. **Having a total of 67 publications from SRMC, with an overall 83 publications to my credit.**
  - i. *47 international publications*
  - ii. *13 national publications*
  - iii. *7 book chapters in ISBN-indexed books*

*iv. Also have contributed to the SRMC journal and The TN Dr MGR Medical university journals.*

In most of my publications, I have guided my post graduates and junior faculties to publish them as First authors and I being the corresponding author.

15. Have published original research articles in renowned peer-reviewed journals with the highest impact factor (Q1 indexed journals) like the British Journal of Urology, British Medical Journal Case reports, Life Sciences and Nature reviews urology.
16. Invited Chairperson for CMEs organized by the Urology Society of India.
17. Course Co-director for various Continuous urological education programmes organized by the Government Medical Colleges of Chennai, India.
18. Interview Committee Panelist for selecting Urologists for Government jobs, Telangana State, India.
19. Serving as a Peer reviewer and Editorial committee member for various international journals.
20. Have collaborated with Departments of Anatomy, Biomedical sciences, Human Genetics and Pathology in publishing research papers across many indexed journals.

21. PG Examiner for M.Ch/DNB Urology examinations of various universities since 2013.

- i. *Sri Ramachandra University*
- ii. *Rajiv Gandhi University, Karnataka, India.*
- iii. *Dr NTR University of Health Sciences, Andhra Pradesh, India.*
- iv. *DNB examiner for Urology NB examinations.*

## 22. JOINT PROJECTS (IIT Madras and Anna University)

### A. ANNA UNIVERSITY

*Anna University, Chennai, India, is one of the premier Institutions in this part of the world. In Collaboration with the University, research was undertaken in the field of Renal Cancer, with an aim to identify certain Radiological parameters that could help us to make a pre operative diagnosis of Renal Cell carcinoma.*

- a. *Had four publications in UGC indexed journals, jointly with Anna University, related to Texture analysis of Kidney Computed Tomography Images as a new method for assessment of Primary solid renal mass Heterogeneity.*

### B. IIT MADRAS

*a proud moment for our Institution (SRMC) to be associated in the field of research, with one of the top Institutions in the world, the Indian Institute of Technology, Madras. Joint projects were carried out in the field of urolithiasis and polyurethane double J stents, to categorize the materials that cause least bacterial colonization.*

*a. Coating of bioactive on Polyurethane urinary stent to reduce bacterial adhesion*

*b. Surface modification of polyurethane stent for better biocompatibility adsorption of inorganic salts on PU stents*

### **23. COLLABORATIVE PROJECTS (with University College of London, UK)**

**Involved in collaborative projects with Sir Alimuddin Zumla (Professor of Infectious Diseases and International Health, University College of London) and Mr Asif Muneer, BAUS secretary, United Kingdom, resulting in Q1 journal publications.**

- i. Published the largest ever series of patients with Emphysematous pyelonephritis in British J of Urology - Q1 indexed journal.

- a. This publication was appreciated and awarded with a certificate during the Science week 2023 celebrations in our Institution.*
- ii. Published an invited review article on Genitourinary Tuberculosis in Nature reviews Urology (one of the top Pubmed Indexed Q1 Journal in urology).
- a. This is an extensive review article on GUTB, published in a top urology Q1 journal with an impact factor of 16.43 and H index of 92.*
- iii. Published our Institutional experience on Latent Tuberculosis infections (LTBI) in Renal transplant patients in International J of Infectious Diseases, official journal of European Society of Medicine (ESOM).
- a. An invited review article, published in a theme issue of IJID, for World Tuberculosis Day.*
- b. The same was presented in ESMED Assembly 2022, madrid, Spain.*

#### **24. COLLABORATIVE PROJECTS, LECTURES, PUBLICATIONS (with ESOM, The European Society of Medicine)**

**Involved in collaborative projects with Prof Dr L Smith, Editorial Board, Medical Research Archives, an official publication of European Society of Medicine, Europe, resulting**

in conference presentations, Editorial reviews and invited review articles in Q1 journals.

a. *Delivered a talk in the ESMED ASSEMBLY, 2022, Madrid, Spain (European Society of Medicine) on LTBI in transplant patients.*

b. *Published a paper on, “National Tuberculosis Elimination Program Guidelines and its Relevance to the Indian Population in the Post-COVID-19 Pandemic Era”, Medical Research Archives, [online] 10(12). DOI: <https://doi.org/10.18103/mra.v10i12.3440>, an official publication of ESOM.*

c. *Forthcoming manuscript on “Changing Trends in the Diagnosis of Genitourinary Tuberculosis In Post Covid-19 Pandemic Era, Medical Research Archives, [online] 11(8). <https://doi.org/10.18103/mra.v11i8>. 4318.”, for World Tuberculosis day, 2023, in a special theme issue titled, “New Perspectives on Tuberculosis”, in Medical Research Archives, an official publication of ESOM.*

25. Invited speaker for CME programmes in various Medical Colleges in Tamil Nadu.

26. Invited speaker for CUE programme organized by Muthu Kumaran Medical College & RI, Chennai on "Recent developments in Benign Prostatic Hyperplasia management"

27. Core Faculty Member for Uro-Oncology meets organized by Global Hospitals, Chennai on "Role of Mitomycin C as an Intra vesical agent in Non-muscle Invasive Bladder Cancer".
28. Invited Faculty to deliver a Guest Lecture for the "Pan African e-Network Project for Telemedicine" on
- a. *Evaluation & Management of Patients with Hematuria.*
  - b. *Management of Ureteric Colic.*
  - c. Chairperson for Uro Oncology meet, Govt Medical College, Chennai on *Symposium on Carcinoma Prostate & Stricture Urethra.*
29. National Faculty for UROCON 2018 - an update in Urology, Mumbai.
- 30. Conferred with FRCS degree from Royal College of Surgeons and Physicians, Glasgow, United Kingdom - 2018.**
31. Received a commendation certificate and a cash prize from our vice-chancellor for being conferred with an FRCS degree.
- 32. Guest Speaker for ESMED (European Society of Medicine) Assembly, Madrid, Spain - Nov 2022.**
33. Guest speaker at Odyssey 2023, organized by the Department of Obstetrics & Gynecology, SRMC.
- 34. Received certificate of commendation for publishing in Q1 journals, as a part of Science week celebrations, March 2023.**

35. Examiner for B.Sc AHS Urology University Examinations.

36. Dissertation guide for the M.Ch urology residents and MSc Allied health Sciences Urology students.

## SPECIAL SURGERIES PERFORMED AND DEVELOPED IN SRMC

### I. **RECONSTRUCTIVE URETHRAL SURGERIES**

a. Buccal mucosal dorsal onlay graft urethroplasties and Female urethroplasties using vaginal flaps and buccal mucosal grafts.

b. Have performed the largest numbers of urethroplasties in our hospital. Male Patients from North Bengal and North-East states specifically come to our center to get this highly challenging procedure done. Also, poor women of our state, who have been suffering from this distressing problem for many years have utilized our TNCMCHIS facility and got benefitted in our institution.

### II. **URETEROSCOPE ASSISTED CHOLEDOCHOSCOPY**

a. For stone basketing, laser lithotripsy and retrieval of stones from common bile duct. This innovative approach is a minimally invasive one, where, a flexible ureteroscope or a flexible cystoscope is passed through



*the 10 mm port to locate the stone in the CBD, basket it and retrieve through the port, obviating the need for an open exploration of the CBD.*

*b. A big revolution in the field of Endo-laparoscopy. Have readily assisted general surgeons and surgical gastroenterologists in performing this highly complex endo-laparoscopic procedure, thus obviating the need for open surgeries.*

### **III. MINIPERC AND SUPINE PCNL - (Advanced kidney stone surgeries)**

*a. A very recent innovation in PCNL. Very few centres perform this complex procedure. We have performed more than 100 such advanced and hi-tech procedures in our institution. Miniature tracts, usage of Laser for stone fragmentation, complete stone clearance, reduced hospital stay, shorter convalescence period and early road to recovery are the advantages of this procedure. Very soon, we shall come up with our publication of this data too.*

### **IV. SUPRACOSTAL PUNCTURES FOR PCNL**

*a. One of the largest series of this complex and high-risk surgical procedure, being performed by us in the last 8 years.*

b. *Our institution is credited with one of the largest numbers of supra-costal punctures, where multiple punctures are done above the 11<sup>th</sup> or 12<sup>th</sup> rib. We have also published our data in a PubMed indexed journal.*

V. **FLEXIBLE URETEROSCOPY (RIRS)**

a. *One of the state-of-the-art procedures, where stones less than 1 cm, located within the pelvi-calyceal system are identified, basketed, fragmented using Holmium Laser and removed in toto, obviating the need for a percutaneous puncture of the kidneys.*

b. *I and my unit have performed nearly 100 such cases in the last 18 months. This procedure considerably minimizes the morbidity, shortens the hospital stay and reduces the convalescence period significantly. Moreover, RIRS has become the standard of care in our institution, especially for those patients who present with renal stones less than 1 to 1.5 cms in size.*

VI. **HOLMIUM LASER ENUCLEATION OF PROSTATE (HoLEP)**

a. *The usage of Laser in prostate has revolutionized the surgical treatment for prostate enlargement in high-risk patients where Glycine could not be used as irrigation fluid. After attending workshops and personalized*

*training in HoLEP, we have performed nearly 50 HoLEP surgeries in our Institution.*

*b. Very soon, we shall compile our data and get it published in one of the Q1 indexed journals.*

**VII. LAPAROSCOPIC SURGERIES**

- *Varicocelectomy,*
- *simple nephrectomy,*
- *radical nephrectomy,*
- *uretero-ureterostomy,*
- *Dismembered pyeloplasty,*
- *ureteric reimplantation.*



## **LIST OF PUBLICATIONS**

**INTERNATIONAL**

1. "Is Laparoscopic Ureterolysis a Panacea for Retroperitoneal Fibrosis? Urology (Gold journal) vol.71, Issue 4, April 2008, p: 757-758. DOI: 10.1016/j.urology.2007.11.149 PMID: 18308377.
2. Primary localized retroperitoneal Amyloidosis - A rare cause of obstructive uropathy, Singapore Med J Case Report 2009; 50(9): e332. PMID: 19787164
3. Prostatic utricle cyst - a case report and review of current literature, The Internet Journal of Urology. 2010 Volume 6 Number 2. DOI: 10.5580/1551.
4. Spontaneous bladder perforation in a young male, presenting as Anuria - a case report and review of literature, published in South Asian Journal of Nephrology, urology and Transplantation (The Open Urology & Nephrology Journal), June 2013, vol.1. p: 66-69. DOI: 10.2174/1874303X01407010064
5. Medical Expulsive therapy in Acute Ureteric colic - Are we justified? published in South Asian Journal of Nephrology, urology and Transplantation (The Open Urology & Nephrology Journal), June 2013, vol.1. p: 70-72. DOI: 10.2174/1874303X01407010060
6. Lymphoepithelioma-Like Carcinoma (LELC) of the kidney presenting as non functioning kidney - a case report. Published in Austin Journal of Urology, Feb 2015; 2(1): 1020.
7. Nephrocalcinosis - an overview. Published in Austin Journal of Urology, Feb 2015; 2(2): 1021.
8. Primary hyperoxaluria and renal cortical nephrocalcinosis - as a cause of renal failure, Published in Austin Journal of Urology, 2015;2(2): 1023.
9. Paraganglioma of the urinary bladder: A case report and review of literature, published in Austin J Urol. 2015;2(3): 1028-1030.
10. Steatocystoma Multiplex of scrotum, published in Austin J Urol. 2015; 2(4): 1033-34.
11. Duplication renal anomalies in children - a single centre experience, published in International journal of Scientific study (IJSS), vol.3, Issue 10, January 2016, p: 12-17. DOI: 10.17354/ijss/2016/03
12. A clinico-pathological study of Bladder Cancer in a tertiary care centre of South India and Impact of Age, gender and Tobacco in causing bladder cancer - a single centre experience, published in International journal of Scientific study, vol.3, Issue 10, January 2016, p: 72-77. DOI: 10.17354/ijss/2016/15

13. Role of infection and inflammation as possible causative factors for raised serum creatinine in patients with unilateral ureteral calculus obstruction - a prospective case control study, published in International journal of Scientific study, vol.3, Issue 10, January 2016, p: 87-93. DOI: 10.17354/ijss/2016/18.
14. Analysis of Outcomes of Surgical Treatment for Varicocele in Primary Infertility Based on Seminal Parameters and Pregnancy Rate, DOI: 10.17354/IJSS/2016/407. published in International Journal of Scientific study, vol.4, Issue 4, July 2016, p: 205-210.
15. Urodynamic evaluation in men over 50 years with diabetes mellitus and lower urinary tract symptoms - a single center experience, published in Austin J Urol. 2015;4(1): 1052.
16. Genito-Urinary Tuberculosis, a great mimicker and atypical manifestations: an interesting case series: published in Austin J Urol. 2015;4(1): 1051.
17. Comparative study of stone free rate, morbidity and need for retreatment procedures between various surgical modalities for 10 to 20 mm upper urinary tract calculi, published in International journal of Scientific study, vol.4, Issue 10, January 2017, p: 37 - 43. DOI: 10.17354/IJSS/2017/08.
18. Comparison of Silodosin with Tamsulosin in patients with symptomatic benign prostatic hyperplasia - a prospective randomised double blinded cross over drug trial, published in International journal of Scientific study, vol.4, Issue 10, January 2017, p: 5 - 13. DOI: 10.17354/IJSS/2017/02.
19. Feature Extraction by Gray Level Co-occurrence Matrices Parameters in Computed Tomography of Renal Cell Carcinoma. International Journal for Research in Applied Science & Engineering Technology (IJRASET) [UGC approved journal] Volume 5 Issue X, October 2017- Page No. : 2202-2209.
20. Feature Extraction of kidney Tumor implemented with Fuzzy Inference System. International Journal for Research in Applied Science & Engineering Technology (IJRASET) [UGC approved journal] Volume 5 Issue X, October 2017- Page No. : 224-235.
21. Female Cancer Control Diagnosis by Decision Making using Image Processing - A Prospective Study', International Journal of Science and Research (IJSR) Volume 7 Issue 1, January 2018, 1320 - 1328.

22. Comparative study of mental stress score between various surgical modalities for treatment of 10 to 20 mm renal calculi: accepted in International Journal of Scientific Study (IJSS) Feb 2018 Vol 5 (11): 170 - 173. DOI: 110.17354/ijss/2018/70.
23. Role of minimally invasive urological intervention in Acute Pyelonephritis - a prospective study: International Journal of Scientific Study (IJSS) March 2018 Vol 5 (12): 115 - 120. DOI: 10.17354/ijss/ 2018/96.
24. Primary Tuberculosis of Glans Penis - Mimicker of Malignancy: A Case Report and Review of Literature - published in International journal of Scientific study, vol.6, Issue 3, June 2018, p: 131 - 133. DOI: 10.17354/ijss/2018/190.
25. Placenta Percreta with urinary bladder infiltration: a modified posterior approach - a case report and lessons learnt, published in International journal of Scientific study, vol.6, Issue 3, June 2018, p: 134 - 136. DOI: 10.17354/ijss/2018/191.
26. Urolithiasis and Nephrocalcinosis in Medullary sponge kidney - urologist's perspective, vol.1, Issue 1, Dec 2019, p: 1-3, Annals of Oncology and Radiology.
27. Latent tuberculosis infection and renal transplantation - Diagnosis and management, Int J Infect Dis. 2019 Mar; 80 S:S73-S76.
28. Urogenital tuberculosis - epidemiology, pathogenesis and clinical features. Nature Reviews urology. 2019 Oct;16 (10):573-598. doi: 10.1038/s41585-019-0228-9.
29. IgG4 Related Disease of Epididymis, Mimicking Testicular Malignancy - A Rare Entity. Annals of Urologic Oncology 2019, 2(1): 46-49.
30. Bilateral spontaneous urinoma - a common condition due to uncommon cause, published in J Surg Urol, 2020 p: 1-3.
31. A Study of the Surgical Outcome and Impact on Semen Parameters after Laparoscopic Varicocelelectomy and Sub Inguinal Varicocelelectomy, published in Journal of Evolution of Medical and Dental Sciences (JEMDS), 2020. 9(14). 1202-1207.
32. Emphysematous Pyelonephritis: not that lethal anymore, published in Ann Clin Cases. 2020;1(3):1011.

33. Male infertility and Varicocele: an update, published in *Global J of Reproductive Medicine* 2020.7(5) p: 106-110.
34. Prognostic scoring system and Risk Stratification in Patients with Emphysematous pyelonephritis - an 11-year prospective study at a tertiary referral centre. Accepted for publication in *BJUI*, 2020. doi.org/10.1111/bju.15225.
35. Post TURP urethral strictures: Are they often under reported? A single centre retrospective observational cohort study, *Urology Annals*. Oct-Dec 2021;13(4):329-335. doi: 10.4103/UA.UA\_165\_19..
36. Cellular growth factors as prospective therapeutic targets for combination therapy in androgen independent prostate cancer (AIPC), *Life Sciences*. 2020 Oct 15;259: 118208.
37. Clinico pathological comparison of VHL Expression as a Prognostic Tumor Marker in Renal Cell Carcinoma. *Niger J Clin Pract*. 2021 Apr;24(4):614-620..
38. Bilateral acute pyelonephritis with left renal artery aneurysm as a cause of bilateral spontaneous sub capsular hematoma: lessons learnt, *BMJ Case Rep*. 2021 Mar 31;14(3):e238678.
39. Multilocular cystic renal neoplasm of low malignant potential- urologist prospective, published in *Annals of Urologic Oncology* 2020, 3(1):22-26.
40. Subclinical Varicocele: what the urologists need to know. *World J Surg Surgical Res*. 2021; 4: 1281.
41. Emphysematous Pyelonephritis with gas containing stag horn matrix renal stone, *Clinics in Surgery*. 2021; 6: 3242.
42. Emphysematous pyelonephritis: changing trends in last two decades. *Clin Surg*. 2021; 6: 3243.
43. Tuberculous Epididymitis presenting as testicular mass - a case report, *Annals of Urologic oncology* 2021, 4(1): 1-4. doi.org/10.32948/auo.2021.05.21.
44. Emphysematous pyelonephritis with perinephric collection due to calculus obstruction: points to ponder, *Annals of Clinical Case reports Rep*. 2021; 6: 1946
45. Catheterisation techniques and iatrogenic urethral injury: points to ponder. *Clin Surg*. 2021; 5(12): 1-5.

46. Isolated ureteral extrauterine endometrial stromal sarcoma: an unusual presentation, *BMJ Case Rep.* 2021 Sep 20;14(9): e245099. doi: 10.1136/bcr-2021-245099.
47. National Tuberculosis Elimination Program Guidelines and its Relevance to the Indian Population in the Post-COVID19 Pandemic Era. *Medical Research Archives*, [online] 10(12). p 1-9. <https://doi.org/10.18103/mra.v10i12.3440>.
48. Nut-cracker Phenomenon Masquerading as Loin Pain Micro-hematuria Syndrome: Anatomical and Urological Perspectives. *Int J Sci Stud* 2023;10(10):1-4.
49. Pseudoepitheliomatous Hyperplasia: Harbinger of Underlying Squamous Cell Carcinoma - Lessons Learnt. *Ann Urol Oncol* 2022; 5: 10: 1-4. <https://doi.org/10.32948/auo.2022.12.22>.
50. Changing Trends in the Diagnosis of Genitourinary Tuberculosis in Post Covid-19 Pandemic Era. *Medical Research Archives*, [accepted for publication online, European Society of Medicine] 11(8). <https://doi.org/10.18103/mra.v11i8.4318>.

## NATIONAL

51. Virilizing tumors of testes- a case report. - *Indian Journal of Urology*, Year 2004 | Volume: 20 | Issue: 2 | Page: 164-165.
52. The nested variant of transitional cell carcinoma of urinary bladder: an aggressive tumour with a bland morphology, *Indian Journal of Urology*, Year 2006, Volume 22, Issue 4 [p. 378-380]. DOI: 10.4103/0970-1591.29133.
53. Primary hyperoxaluria and systemic oxalosis, *Indian Journal of Urology*, Year 2007, Volume 23, Issue 1 [p. 79-80]. DOI: 10.4103/0970-1591.30276 PMID: 19675772.
54. *Paecilomyces* pyelonephritis in a patient with urolithiasis. *Indian Journal of Urology*, Year 2007, Volume 23, Issue 2 [p.195-197]. DOI: 10.4103/0970-1591.32075 PMID: 19675801.
55. Surgical management of renal tuberculosis - Invited Review article for a symposium on Tuberculosis, *Indian Journal of Urology*, Year 2008, Volume 24, Issue 3 [p. 369-375]. DOI: 10.4103/0970-1591.42620 PMID: 19468471.



56. Detection and Treatment of Transplant Renal Artery Stenosis - Indian Journal of Urology, Year 2009, Volume 25, Issue 1 [p. 56-61]. DOI: 10.4103/0970-1591.45538 PMID: 19468430.
57. Detrusor underactivity - To Tone or not to tone the bladder, published under Evidence Based Urology, Indian Journal of Urology, Year 2009, Volume 25, Issue 3 [p. 407-408]. DOI: 10.4103/0970-1591.56186 PMID: 19881143.
58. Primary intrarenal teratoma in an adult: A case report and review of literature, Indian Journal of Urology, Year 2009, Volume 25, Issue 3 [p. 404-406]. DOI: 10.4103/0970-1591.56184 PMID: 19881142.
59. Hematuria: an uncommon presentation of Glanzmann's thrombasthenia - lessons learnt, Indian Journal of Urology, Year 2010, Volume 26, Issue 1 [p. 115-117]. DOI: 10.4103/0970-1591.60456 PMID: 20535297.
60. Isolated tuberculous orchitis: A mimicker of testicular malignancy, Indian Journal of Urology, Year 2010, Volume 26, Issue 2 [p. 284-286]. DOI: 10.4103/0970-1591.65404 PMID: 20877610.
61. Letters to the editor: Authors reply for Detection and treatment of transplant renal artery stenosis, Indian Journal of Urology, Year 2011, Volume 27, Issue 2 [p. 290-291]. PMID: 21814331.
62. Extra vesical (Modified Gregoir Lich) versus Intra vesical (Cohen's) ureteric reimplantation for vesico-ureteral reflux in children - a single centre experience, published in Indian Journal of Urology vol. 32 Issue 4, p: 306 - 309. 2016. DOI. 10.4103/0970-1591.189721.
63. Supracostal punctures for PCNL: Factors that predict safety, success and stone free rate in Stag horn and Non-stag horn stones - a single centre experience and review of literature, DOI: 10.7860/JCDR/2016/21875.8505. published in Journal of Clinical and Diagnostic Research. 2016 Sep, Vol-10(9): PC17-PC21.
64. Mucinous cystadenocarcinoma in a horse shoe kidney - A case report, published in Journal of Clinical and Diagnostic Research. 2016 Nov, Vol-10(11): PD12-PD14 DOI: 10.7860/JCDR/2016/22057.8834.
65. Unusual presentation of gonadal vein aneurysm - thrombosis and hydronephrosis: a rare case report and review of literature, DOI.

- 10.7860/JCDR/2017/25188.10358. Journal of Clinical and Diagnostic Research. 2017 Aug, Vol-11(8): PD01-PD02.
66. Bilateral synchronous paratesticular leiomyoma - a rare entity, published in Journal of Clinical and Diagnostic Research. 2017 April, Vol -11(4): PD05 - PD06 DOI: 10.7860/JCDR/2017/25109.9518.
67. Aspects of evolving tuberculosis: a study of GUTB in 110 patients - published in Journal of Clinical and Diagnostic Research. 2017 Sep, Vol-11(9): PD01-PD05. 10.7860/JCDR/2017/25882.10557. DOI: 10.7860/JCDR/2017/25882. 10557.
68. Texture analysis of Kidney Computed Tomography Images: a new method for assessment of Primary solid renal mass Heterogeneity - a prospective study: accepted and awaiting publication in Journal of Clinical & Diagnostic Research (JCDR). 2018 Jul, Vol-12(7): 5-9.
69. Isolated pendulous urethral injury following coitus: an uncommon urological emergency - a rare case report and mini review. Biomedicine, 40(2):115-118.
70. Urothelial carcinoma presenting as gross hydronephrosis with secondary calculi - an unusual presentation, Biomedicine 40(2): 257-261.
71. Posterior Nut-cracker syndrome: urologist's perspective - a review. Biomedicine: Apr-Jun 2021; 41(2): 185-188. DOI: <https://doi.org/10.51248/.v41i2.780>.
72. Varicocele and male infertility: Historical, Anatomical and urological perspectives - a review. Biomedicine: Apr-Jun 2021; 41(2) Supplementary issue: 333-336. DOI: <https://doi.org/10.51248/.v41i2.1033>.
73. Renal Fascia in normal and ectopic pelvic kidneys: Evidence based clinical and anatomical review, National J of Clinical Anatomy 2021; 10:240-5. DOI:10.4103/NJCA.NJCA\_46\_21.
74. Duplex kidney with calculus obstruction of lower moiety lessons learnt. Journal of medical pharmaceutical and allied sciences, Volume 11 - Issue 2, 2335, March - April 2022, Page - 4718 - 4720.
75. Sarcomatoid and rhabdoid dedifferentiation in clear cell renal cell carcinoma, a rare combo: Does that have a dismal prognosis? Biomedicine: 2023; 43(4): 1357-1360.

## REGIONAL (University Publications)

76. Bilateral Synchronous Renal malignancies of varied histology (BSRMVH): Ipsilateral renal pelvic urothelial carcinoma and contra-lateral chromophobe type renal cell carcinoma - a rare case report and review of literature, published online in Sri Ramachandra Journal of Medicine vol. 8, Issue 1, Jan - June 2015, p: 1-3.
77. Horse Shoe Kidney: a case report and review of its embryological, clinical and radiological significance, published in the University Journal of Pre and Para clinical Sciences, The Tamil Nadu Dr MGR Medical University, vol 4(4), 2018.

## BOOK CHAPTERS & SUB CHAPTERS

78. Co-authored a sub-chapter for a Nephrology book on Serum PSA, published in Essential Questions and Answers in Nephrology, by Dr. Georgie Abraham, 2012 edition.
79. Co-authored a sub-chapter for a Nephrology book on Pre Mature Ejaculation, published in Essential Questions and Answers in Nephrology, by Dr. Georgie Abraham, 2012 edition.
80. Co-authored a sub-chapter for a Nephrology book on Erectile Dysfunction, published in Essential Questions and Answers in Nephrology, by Dr. Georgie Abraham, 2012 edition.
81. Authored a book chapter on transplant related vascular complications. Transplant Renal Artery Stenosis - an update. Kidney Transplantation. ISBN: 978-93-87500-55-6.
82. Authored a book chapter on urinary tract tuberculosis. Genitourinary Tuberculosis - an overview. Text book on tuberculosis, Diagnosis and management of Tuberculosis. ISBN: 978-81-935757-5-8.
83. Authored a book chapter, "Subclinical and Adolescent varicocele". ISBN: 978-93-91215-14-9 (Print) 978-93-91215-22-4 (eBook).
84. Authored a book chapter, "Varicocele: Anatomical background and Uroradiological aspects". Print ISBN: 978-93-91595-08-1, eBook ISBN: 978-93-91595-17-3. DOI: 10.9734/bpi/nfmmr/v8/11917D.

## MANUSCRIPTS UNDER PROGRESS

85. Ureteropelvic Junction Obstruction Masquerading As A Lower Abdominal Lump, awaiting acceptance in BMJ case reports.
86. Gall bladder perforation during Percutaneous nephrolithotripsy - lessons learnt, awaiting acceptance in Biomedicine.
87. Glanular ischemia following circumcision: a rare but perilous complication, awaiting acceptance in Biomedicine.
88. Relationship between catheter care and catheter related infections - a single center prospective observational study
89. Ureteropelvic Junction Obstruction Masquerading As A Lower Abdominal Lump
90. Penile garrotting - an interesting case series.
91. Penile calciphylaxis
92. An Array of Adrenal Lesions - Case series
93. Images in Urology: Autosomal dominant polycystic kidney disease
94. Dual primary malignancies with varied histological pattern: A 6-year-experience from a tertiary care urology centre.
95. Spontaneous idiopathic non venereal cavernosal abscess: a rare case report and review of literature
96. Supine PCNL: safety, efficacy and stone clearance rate. A single centre experiences
97. Supine vs Prone PCNL: a comparative study
98. Miniperc vs standard PCNL. A single centre experience.
99. HoLEP vs monopolar TURP in management of benign prostatic hyperplasia: single centre experience.
100. Catheter care and catheter related infections (CAUTI) - A single centre prospective observational study.
101. The Efficacy of PCNL using the Holmium Laser vs Pneumatic Lithotripsy: a single centre experience.
102. Flexible ureteroscopy and laser lithotripsy for multiple unilateral intrarenal stones.
103. A comparison among RIRS and MiniPerc for renal stones between 8 and 15 mm using Holmium laser: a randomized controlled trial.

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