1. Extracorporeal shock wave lithotripsy (ESWL) is one of the major developments in Urology. A \textit{original technique} had been evolved in 1992 for facilitating the ESWL of calculi located in lower ureter using \textit{modified prone position}. The technique was published in \textit{British Journal of Urology} in 1992, 70: 456-457.

2. For the patients undergoing total penectomy for carcinoma penis, a technique of making “Nipple” like end urethrostomy was developed which allowed them an upright micturation. This \textit{was published in British Journal of Urology 1992, 70:576-577}. https://www.ncbi.nlm.nih.gov/pubmed/1467874

3. Percutaneous removal of kidney stones is now an established method of stone removal. Many a times residual stones were left inside the kidney. I along with Dr. R. Ahlawat developed a totally \textit{novel method} which was not only simple and effective but also reduced patients’ morbidity and cost of treatment. We labeled our technique as \textit{IPCI (Intraoperative Percutaneous Calyceal Irrigation)}, presented it in the 10th World Congress of Endourology and ESWL at Singapore in 1992 and thereafter published it in British Journal of Urology in 1993, 72: 990. https://www.ncbi.nlm.nih.gov/pubmed/8306185

4. The performance of urethroplasty for Post urethral distraction defect is a challenging operation because of inappropriate access of posterior urethra. I developed a simple technique of "\textit{Digital pushdown of Prostate}" to improvise the access of urethra and the same was published in \textit{Indian J. Urology} in 1999. http://www.indianjurol.com/showstats.asp?issn=0970-1591;year=1999;volume=15;issue=2;month=January-June

5. Large prostate glands are very common in rural India and transvesical prostatectomy is a common operation. I devised a technique called \textit{Transurethral circumapical incision of prostate (TUCIP)} for minimizing sphincteric injury during transvesical prostatectomy for large prostates and published it in \textit{Brit. J. Urology} in 2000; 996-997. https://europepmc.org/abstract/med/10792184

6. For cases of small and/or residual vesicovaginal fistula, I have evolved a original technique \textit{Transvaginal electrocauterization along with submucosal injection of autologous blood} which was published in \textit{BJU international} in 2002, 89:1-3


9. The performance of PCNL usually requires general anesthesia which adds cost and morbidity to our poor patients. I have developed a technique called “Renal Capsular Block” for performing PCNL under local anesthesia. The technique has been presented in National conference of USI in the section of innovations and later published in J. Endourology, 2006; 20 (9) DOI:10.1089/end.2006.20.620

10. A new technique has been developed by me to enhance the clearance rates during PCNL called “Guidewire Assisted Infundibular Tilt” (GAIT). A presentation of this technique has been made in 22nd World Congress on Endourology & SWL, 02 – 05 November 2004 Mumbai - India and later published in J. Endourology 2006, 20 (9) DOI:10.1089/end.2006.20.620


14. The use of double dartos wrap flap for reconstruction of hypospadias has been modified by us. A paper on “Limited” double dorsal dartos flap coverage: An effective alternative to conventional flap coverage of the neourethra following Mathieu repair for subcoronal hypospadias has been published in Int. Urol Nephrol 2008 March 5. doi: 10.1007/s11255-008-9354-7 https://www.ncbi.nlm.nih.gov/pubmed/18320341

15. We developed a surgical method to harvest buccal mucosa graft for urethroplasty under local anaesthesia only and then published our technique in Urology in 2008. DOI: 10.1016/j.urology.2008.04.047 https://www.clinicalkey.com/service/content/pdf/watermarked/1-s2.0-S0090429508005372.pdf?locale=en_US
16. A new operation has been developed to better manage bulbar urethral strictures: Ventral Bulbar Augmentation (VBA): a technique to enhance support of Buccal mucosal graft placed ventrally for proximal bulbar urethral strictures. This video of the technique was presented in Societe Internationalis Urologie at Paris, 2007. A paper on the same has been published in Urology 2010; 7(2): 115 -119. https://www.ncbi.nlm.nih.gov/pubmed/20535699


18. I was part of the team to have developed a midline scroto-perineal approach for improving urinary continence in patients of exstrophy bladder. The same was published by us in Urology in 2011. DOI: 10.1016/j.urology.2010.12.086 http://europepmc.org/abstract/med/21550650

19. I developed a method to dilate suprapubic tract over the preexisting suprapubic catheter to access the urinary bladder percutaneously. This technique was released as video by Endourology part B video Urology in 2012, DOI: 10.1089/vid.2012.0045. https://www.liebertpub.com/doi/abs/10.1089/vid.2012.0045?id=abstract.pdf&type=media&journalCode=vid

20. I developed a simple way to cystoscopically remove two DJ Stents simultaneously in one go. This was published in Journal of Surgical Technique and case report as a new surgical technique in 2012 DOI: 10.4103/2006-8808.110273 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3673361/
25. I was part of a team to have described *testicular rerouting* during orchiopexy without dividing the inferior epigastric artery. We published our technique in *Journal of Paediatric Surgery* in 2014. doi: 10.1016/j.jpedsurg.2013.12.017. https://www.ncbi.nlm.nih.gov/pubmed/25092097


27. I described a technical precautionary step of tugging out the urethral foley balloon to prevent intraurethral migration of guide wire during antegrade stenting. This was published in *BMJ Case Reports* in 2016. doi: 10.1136/bcr-2016-214921 https://www.ncbi.nlm.nih.gov/pubmed?term=26951444


29. I developed a new method of doing a safe suprapubic cystostomy in females using transurethral bougie guidance. The technique has been published in Urology in 2017. A video of the same has been uploaded on you tube in 2018.

30. I have developed a new & simple method of removing foley catheter impacted in bladder due to non-deflation of balloon. A video of the technique has been presented in NZUSICON in 2017. A paper on this has already been written and is in process of submission.

31. Currently, I am working on developing a surgical technique of 'Omega Pubectomy' for improving access of posterior urethra during urethroplasty for posterior urethral distraction defect. A paper on it has already been written and in process of submission.

32. I have recently developed a transurethral technique to burst the impacted balloon of foley catheter using a TURP resectoscope sheath and a long needle. A video of the technique has been presented in *North Zone Chapter USI* conference held at Meerut 2017. A paper on the same has been submitted for publication.