

What's Inside?

SYSTEMIC REVIEW OF URODYNAMICS IN EVALUATION OF LOWER URINARY TRACT

Men with bothersome lower urinary tract symptoms refractory to initial treatment require urodynamic study (UDS) for an appropriate diagnosis.^[1] Singh *et al.* evaluated 10 studies with 1474 patients in the age group of 18–50 years.^[2] In the review, 79% of patients who underwent conventional UDS had a demonstrable abnormality as compared to 97% of the patients who were subjected to video UDS. Detrusor underactivity was the most common abnormality in conventional UDS group (24%) and primary bladder neck obstruction was seen in 49% of the video UDS group. The authors conclude that the evidence for the use of UDS in these patients is sparse. Video UDS may provide a more precise diagnosis, but this may be due to bias in patient selection and characteristics.

INDICATIONS AND OUTCOMES OF PEDIATRIC ROBOTIC UROLOGICAL PROCEDURES

Robot-assisted laparoscopic surgery has been customized to meet the needs of pediatric urological procedures in recent years.^[3] Robot-assisted laparoscopic pyeloplasty is the most common procedure performed in the pediatric population with success ranging between 90% and 100%.^[4] Hou *et al.* review the current role of robot assistance for pediatric stone surgery, partial nephrectomy, nephroureterectomy, ureteral reimplantation and appendico-vesicostomy. Complex procedures such as augmentation cystoplasty, bladder neck reconstruction and Malone antegrade continence enema are also feasible with this approach. The authors conclude that in pediatric patients, robotic procedures improve cosmesis, hospital stay and postoperative pain and retrospective studies found the outcomes comparable to tradition open surgery.

A RANDOMIZED CONTROL TRIAL COMPARING THE EFFECT OF PREOPERATIVE ESTROGEN ON COMPLICATIONS OF PROXIMAL HYPOSPADIAS REPAIR

Repair of proximal hypospadias is associated with complications such as wound dehiscence, fistula formation and strictures. The effect of estrogen on wound healing has been studied and there is evidence to suggest that it may be beneficial.^[5] In an endeavor to minimize complications, Pati *et al.* report

a randomized control trial which included 60 patients.^[6] Both the groups (with and without preoperative estrogen cream application) had comparable incidence of wound dehiscence (41.4% vs. 45.2%) and urethro-cutaneous fistula (37.9% vs. 51.6%). The authors conclude that the application of topical estrogen on the ventral aspect of penis before hypospadias repair did not improve the complication rates of wound healing and fistula formation.

SURVIVAL OUTCOMES OF CANCER PROSTATE FROM TWO CANCER REGISTRIES IN PUNJAB

Cancer registries in India have shown an increasing trend of prostate cancer and reported a shift in its ranking among common cancers.^[7] This report by Budukh *et al.* from the Sangur and Mansa cancer registries in Punjab, India shows the trend of prostate cancer in the rural population of India. It highlights that the majority of the cases reported in advanced stages and have an overall 5 year, age-standardized survival of 30.3%.^[8] These figures are much lower than to the 61.9% reported from other Asian communities.^[9] Two additional findings in this study are that 12.9% patients were treated without a histological diagnosis and 37.3% patients did not complete treatment.

AUDIT OF PRACTICE PATTERNS OF ANTIBIOTIC USAGE IN ENDOUROLOGICAL SURGERY IN INDIA

In a multi-institutional cross-sectional audit, Nayyar *et al.* have described the practice patterns of antibiotic use for endourological surgery in India.^[10] This study was an initiative of the collaborative research committee of the Urological Society of India and included 1538 patients from 20 hospitals. The authors report that the majority (75.4%) of the patients undergoing endourological procedures receive more than one dose of prophylactic antibiotics. The authors also report a high rate of multi dose, multiple (51%), post-discharge (77.4%), and guideline discordant (75.4%) antibiotic use in endourological procedures.

COMPARISON OF TWO LAB PARAMETERS TO PREDICT THE MORTALITY OF FOURNIER'S GANGRENE

Fournier's gangrene (FG) is one of the most important acute infective urological emergencies with a mortality as high as 30%.^[11] Wirjopranoto *et al.* report a study evaluating the role of neutrophil-to-lymphocyte ratio (NLR) and platelet-to-lymphocyte ratio (PLR) as the predictors of mortality in cases with FG.^[12] An NLR >8 and PLR >140 were considered as the high risk features. In their cohort of

135 patients, 112 survived and the analysis of the patients who succumbed to their disease revealed that NLR of >8 was an independent risk factor for mortality and increased the risk by 12 fold. However, PLR was not predictive of outcomes of FG.

IS ACTIVE SURVEILLANCE A GOOD OPTION FOR SMALL RENAL MASSES IN DIABETICS?

While 80% of the small renal masses (SRM) may be malignant, only 25% have the potential to metastasize.^[13] Alcalá *et al.* retrospectively analyzed 111 patients who were on active surveillance for SRMs.^[14] The overall growth rate of tumours was nonsignificantly higher in the diabetic group (0.26 cm/year vs. 0.15 cm/year, $P = 0.24$) who also had worse overall survival ($P < 0.05$). Diabetes, low epidermal growth factor receptor, and high growth rate of tumor (>0.5 cm/year) were associated with a high all-cause mortality. The study highlights the importance of understanding patients factors and comorbidities in the management of SRMs.

RENAL REPLACEMENT LIPOMATOSIS

Dasgupta *et al.* present an image of renal replacement lipomatosis (RRL) in a patient with non-functioning kidney secondary to renal calculus disease.^[15] The histology was replacement of parenchyma by fat as the sinus fat proliferated and the parenchyma atrophied. RRL is a rare but important entity as it may be misinterpreted on a CT for a fat-rich renal tumor.

PENILE LESION AS SOLITARY MANIFESTATION IN CHRONIC LYMPHOCYTIC LEUKEMIA

In this case report, Hamid *et al.* describe a rare case of cutaneous infiltration of genital skin as a delayed manifestation of chronic lymphocytic leukemia (CLL) two decades after the initial presentation.^[16] *Leukaemia cutis* is a rare manifestation of indolent hematological malignancies such as CLL. The diagnosis is established by local excision.

PRIMARY RETROPERITONEAL FIBROSIS PRESENTING AS A RENAL MASS

Primary retroperitoneal fibrosis can rarely present as an atypical renal mass. Shrivastava *et al.*^[17] suggest that a biopsy

should be the first step. Steroids and rituximab can be used for the medical management of disease.

Abhishek Singh*

Department of Urology, Muljibhai Patel Urological Hospital, Nadiad, Gujarat, India

*E-mail: drabhisheksingh82@gmail.com

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