# Short Term Outcomes of Laparoscopic Donor Nephrectomy: From a Tertiary Care Centre of India

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## Introduction

- Laparoscopic donor nephrectomy (LDN) – current standard of care in live renal allograft transplants
- Evidence shows better surgical outcomes of LDN - shorter hospital stay, lesser post-operative pain, earlier return to daily activity

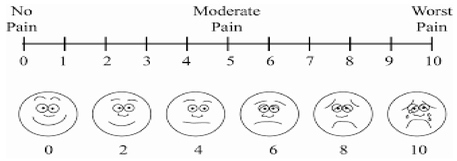
## Objectives

To assess the short-term outcomes of Laparoscopic Donor Nephrectomy in terms of-

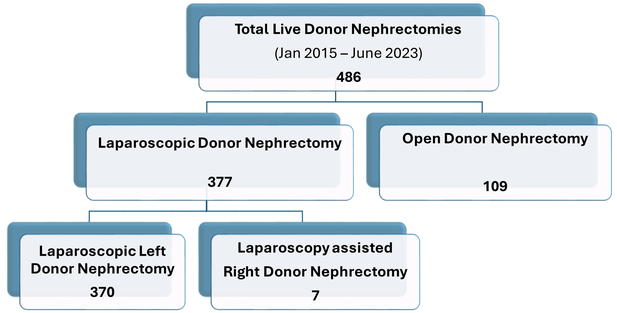
- Peri-operative complications
- Hospital stay
- Post operative pain
- Re-admissions
- Serum creatinine at follow up
- Proteinuria at follow up

## Materials and Methods

- Retrospective analysis of a prospectively maintained database
- Study Population – LDN performed in a single unit between January 2015 to June 2023
- Follow Up : 1 week, 2 weeks, 1 month, 6 months



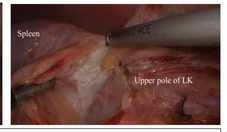

## Study Population




## Steps of surgery



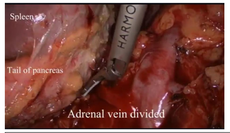

Separating Colon and attachments of Kidney







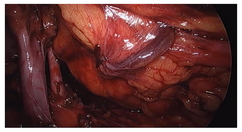
Identifying ureter





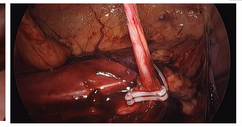


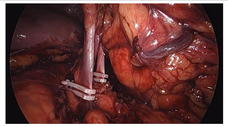
Division of adrenal vein, adrenal gland separation



Renal Vessels Skeletonized

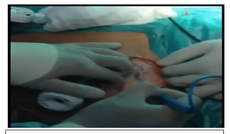




Gonadal Vessels Clipped

Clipping of Ureter, Renal Artery and Renal Vein



Pfannensteil Incision



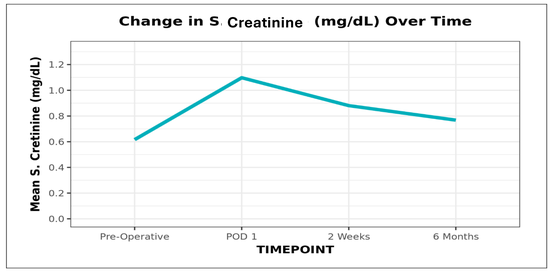
Double Artery

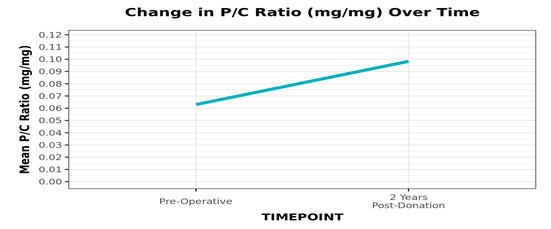


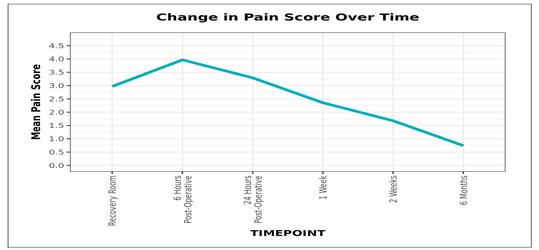

Complex Venous Anatomy

## Results

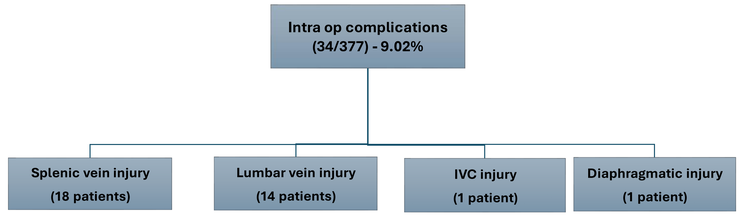
| Variables | Values |
|---|---|
| Gender – Females/Male | 305 (81%)/ 72 (19%) |
| Age | 46.28 (±0.92) years |
| **Hospital stay** | 3.41 days (2 -10 days) |
| Pre-op Hemoglobin | 12.2 g% (±1.41) |
| Post op hemoglobin | 11.01 g% (±1.75) |




## Complications

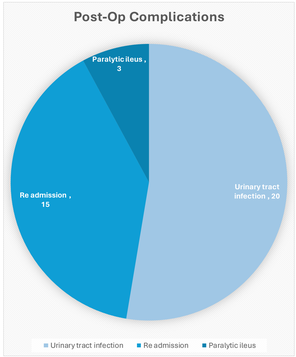



***All Procedures were completed laparoscopically – No open conversions***

**Post operative complications**
**(38 patients – 10.08%)**

- Urinary tract infections 20 (5.3% )
- Re admission 15 (3.9%)
- Paralytic ileus 3 (0.8%)

***No Re-explorations***




## Conclusion

In Experienced Hands, Laparoscopic Donor Nephrectomy is a minimally invasive procedure with lesser complication rates, shorter hospital stay, lesser post-operative pain, minimal conversion rate and complications or re-admissions offering live donors an earlier and better post-operative recovery.