

INTRODUCTION

- Left renal vein (LRV) compression, also known as Nutcracker Syndrome (NCS) can present with a large constellation of clinical symptoms
- Multiple surgical approaches for NCS treatment have been described

CASE PRESENTATION

- 48 Y F with PMHx of PCOS, nephrolithiasis, hysterectomy and bilateral salpingo-oophorectomy presenting with six years of chronic pelvic pain and hematuria
- CT abdomen/pelvis and catheter venogram revealed L renal vein compression with L gonadal vein engorgement
- Patient underwent L gonadal-external iliac vein transposition with end-to-side anastomosis
- Two week follow up – flank pain and hematuria completely resolved

DISCUSSION

- NCS is essentially a diagnosis of exclusion
- Endovascular, laparoscopic, and open techniques can be used to treat NCS
- LRV-IVC transposition is the most frequently used surgical approach
- Gonadal-external iliac vein transposition is a viable alternative due to anatomic proximity

FIGURES

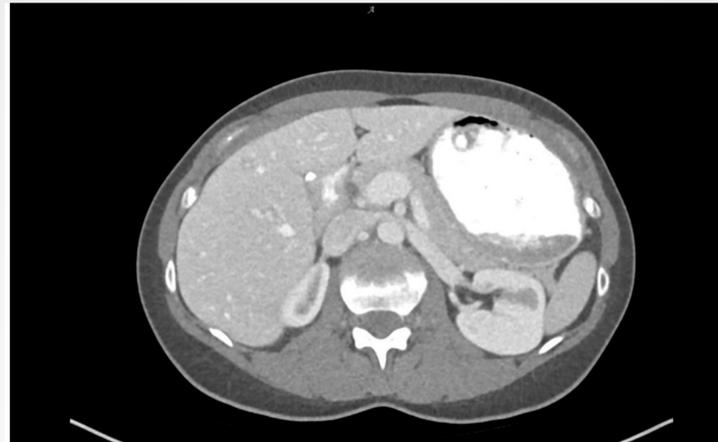


Figure 1: CT demonstrating LRV compression



Figure 2: Coronal CT showing gonadal vein engorgement

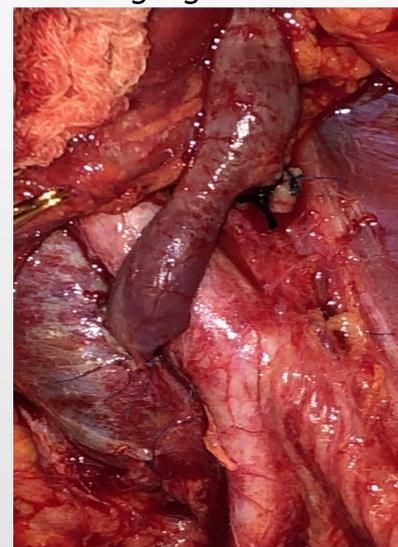


Figure 3: L Gonadal vein – External iliac anastomosis

CONCLUSIONS

- Gonadal-external iliac vein transposition was a favorable approach for our patient given her previous pelvic surgeries
- NCS should be considered in the differential for patients with chronic pelvic pain
- Surgical treatment is effective

COMPARISON OF RELEVANT LITERATURE

Velasquez et al. (2018)	Systematic review of management approaches for NCS LRV transposition is most common and has good results, but other approaches need further investigation
Wu et al. (2016)	Evaluation of outcomes for patients who underwent endovascular stenting for NCS Stent migration was not as rare as previously thought
Our Case Report	Gonadal vein was favorable for transposition due to prior oophorectomy

REFERENCES & ACKNOWLEDGEMENTS

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Wu Z, Zheng X, He Y, Fang X, Li D, Tian L, et al. Stent migration after endovascular stenting in patients with nutcracker syndrome. J Vasc Surg Venous Lymphat Disord. 2016 Apr;4(2):193–9.

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