



In Person + Live Streaming

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Management Urologic Complications

After Kidney Transplants

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Introduction:

- Urologic complications are most common surgical complications encountered after kidney transplant, causing significant morbidity and mortality.
- Rates of urologic complications after kidney transplant range between 2% and 12.5%.
- In parallel with the evolution of minimally invasive percutaneous techniques and acquired experience, there has been a major shift from surgery to interventional radiologic procedures in the management of these complications.
- In these study we aimed to evaluate our urologic complications and their management retrospectively.



Material and Methods:

- Between November 1975 and April 2024 our transplant team has performed 3538 kidney transplant.
- From 1975 to 1983, we performed ureteroneocystostomies using the modified Politano-Leadbetter technique.
- From 1983, we began using the extravesical Lich-Gregoir technique in combination with temporary ureteral stenting in 1141 patients.
- We have been using our own corner-saving technique in a total of 2100 patients from September 2003 to the present day
- We analyzed types of urologic complications, mean time to diagnose from kidney transplant, management of complications and their long term results.



Results:

- Urologic complications occurred in 98 (2.7%) kidney transplant recipients.
- Of these patients;
 - 47(1.3%) had urine leakage,
 - 37 (1%) had urinary obstruction due to ureteral stricture,
 - 6 (0.1%) had distal ureter necrosis,
 - 4 (0.1%) had urine leakage and obstruction
 - 2 (0.05%) developed renal calculi in the late postoperative period.
- Twenty-five out of 98 required reoperation for urologic complications.
- The remaining 23 patients were treated conservatively in our interventional radiology department with excellent results.
- Our interventional treatment methods are
 - percutaneous nephrostomy with a double J stent,
 - percutaneous nephroureterostomy,
 - ballon dilatation or double J stent only.

Conclusion:

- Urological complications are common after kidney transplantation.
- These complications; It can be managed by experienced personnel with early diagnosis, use of interventional radiology, and surgical treatment when necessary.
- Thanks the early diagnose and treatment graft kidney functions can be successfully preserved.

