



In Person + Live Streaming

TTS 2024 **ISTANBUL TURKEY**
September 22-25
+ Virtual October 21-23

Are Renal Cysts a Barrier to Donation and Kidney Transplantation?

Adem ŞAFAK¹, Emre KARAKAYA¹, Cihad Burak SAYIN², Burak YAĞDIRAN³, Sedat YILDIRIM¹, Mehmet HABERAL¹

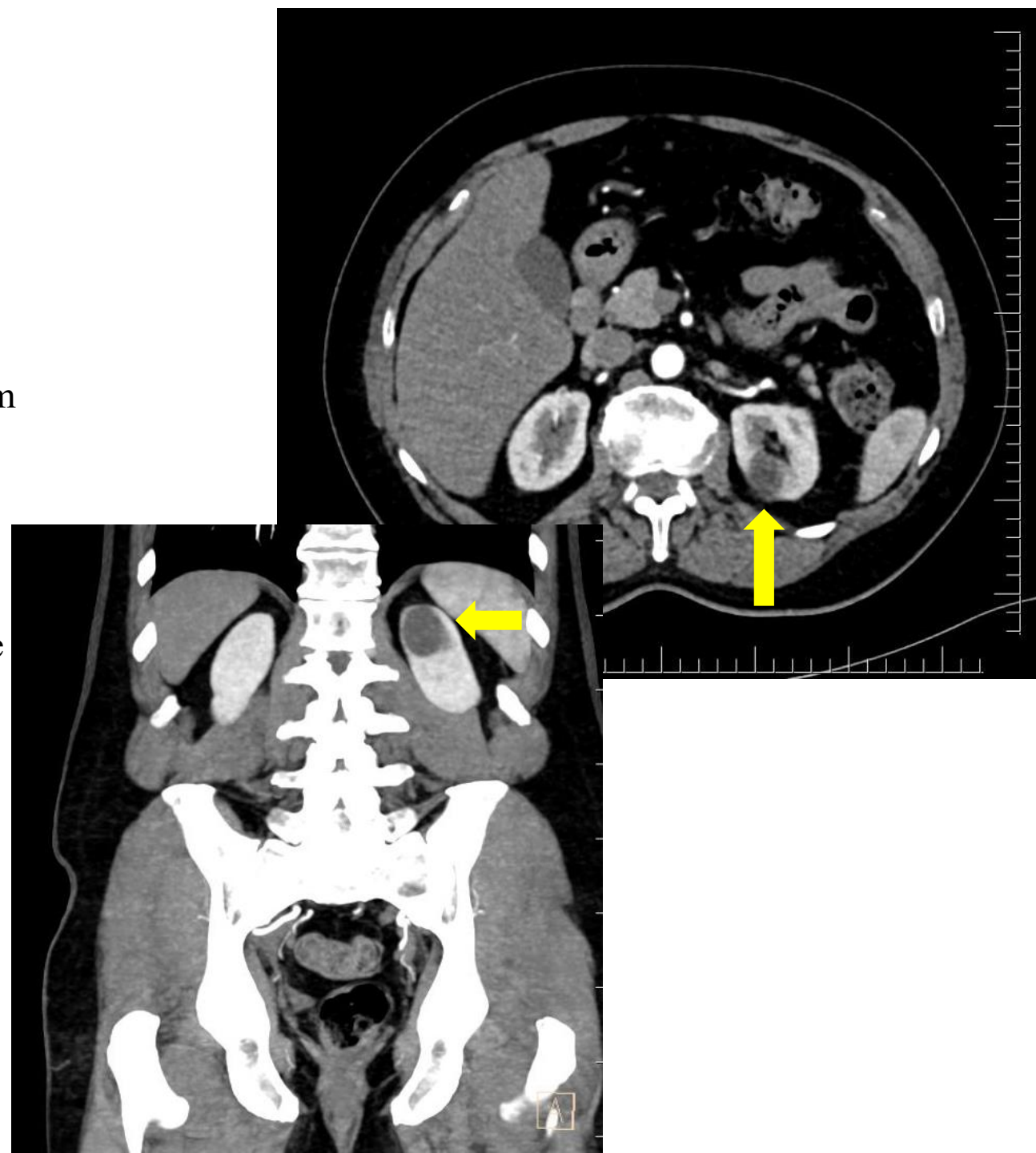
¹Baskent University, Department of General Surgery, Division of Transplantation

²Baskent University, Department of Nephrology

³Baskent University, Department of Radiology

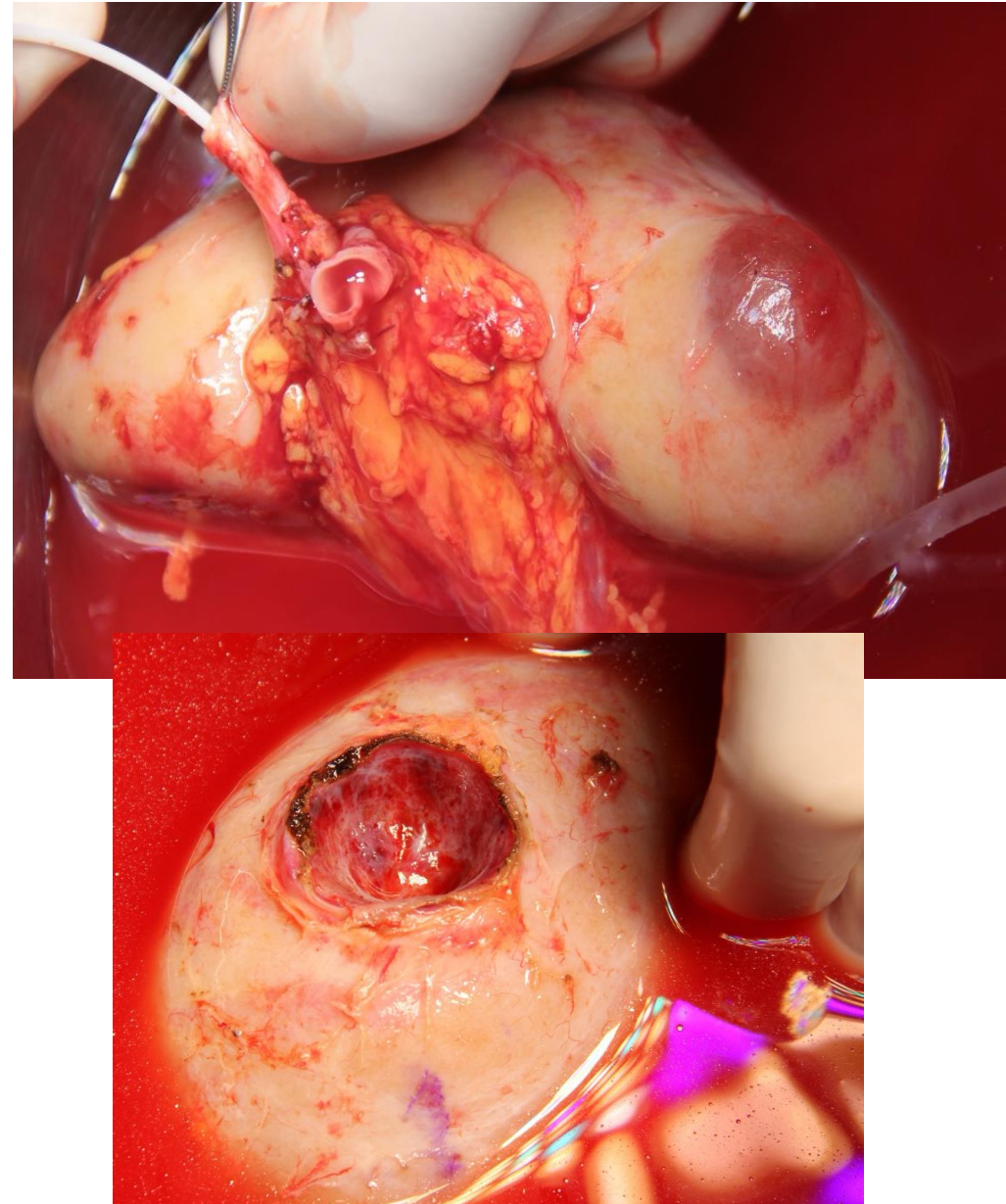
Introduction:

- In order to expand the donor pool in kidney transplantation, it has been reported that there is no contraindication kidneys with simple cysts below 3cm transplanting them.
- On the other hand, there are also studies suggesting that simple cysts increase in size and number over time, disrupt the renal structure and cause an increase in creatinine values.
- In this study, we aimed to evaluate the long-term outcomes of transplanted kidney grafts with cysts..



Material and Methods:

- Since 1978, 3517 kidney transplants have been performed by our team for the first time in Turkey and the region.
- Among these kidney transplants performed by our team between February 2012 and August 2023, those whose grafts contained simple cysts were retrospectively analyzed.
- Demographic characteristics, cyst size, perioperative complications, postoperative creatinine levels and cyst size during the follow-up period were recorded.



Results:

- Between February 2012 and August 2023, 65 kidney transplants were included in the study.
- The mean age of the recipients was 50.3 years (31-71) and 38 (58%) were women.
- All donors were related to their recipients.
- The mean cyst size was 14 mm.
- Of the grafts,
 - 8 (12.3%) had cysts <5 mm,
 - 17 (26.1%) had cysts between 5-10 mm,
 - 40 (61.5%) had cysts >10 mm.
- No intraoperative complications were observed in any of the donors or recipients.
- Urinary tract infection developed in 8 patients within 1 week postoperatively, but recovered completely with iv. antibiotic treatment.
- In the control ultrasonography performed at the 6th postoperative month, 43 of 65 patients showed a decrease in the size of the cyst in the graft kidney, while 15 patients had enlarged cysts.
- Except for 1 patient, the enlarged cysts did not require additional intervention except for follow-up.
- Only 1 patient's cyst was >5cm and excision was performed.
- Postoperative day 1, week 1, month 1 and year 1 values were 2.48 mg/dl, 1.42 mg/dl, 1.23 mg/dl and 1.42 mg/dl, respectively.

Conclusion:

- Kidney grafts with simple cysts do not constitute an obstacle for kidney transplantation provided that the transplantation is performed by experienced centers and they are followed up regularly.

