

# Outcome of Patients after Second, Third and Fourth Kidney Transplantation

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**Introduction and Objective**: A debate exists whether patients after graft loss should be considered for a second and subsequent graft. Hence, a retrospective analysis was undertaken to assess outcomes of patients who underwent second, third and fourth transplantation.
**Materials and Methods:** A total number of 63 kidney transplantations, were included in the present study. 46 patients out of them underwent a second kidney transplantation, thirteen were third graft recipients and 3 were fourth graft recipients. Data and variables on patient and graft survival were retrieved and analyzed using Kaplan–Meier statistics. Postoperative complications were assessed and graded based on Clavien– Dindo classification.
**Results:** Patient survival was 97% after one year and 91.9% after 5 years (second graft). Graft survival was 100% after 5 years (second graft). Patient survival of third graft recipients was 92.3% after 1 year and 76.9% after 5 years. One year censored graft survival was 100% and a 5-year graft survival was 74.1% (third graft), respectively. In the cases of fourth transplantation, graft survivals of 33.3% at 1 and 2 years were noted among 3 patients. All fourth graft recipients have survived during our observation time. The overall rate of postoperative surgical complications among second graft recipients was 12.8%, 46.2% among third graft recipients and 66.7% among patients after fourth transplantation.
**Conclusions:** Results on second and third kidney transplantation showed satisfactory patient and graft survival with acceptable outcome for patients who underwent second and third transplantation. A fourth kidney transplantation offers also a survival advantage, however it is inferior to second and third transplantation.

## Biography

Supuni Patabendhi is a doctorand and a final year medical student in good standing at the Charité Medical University in Berlin, Germany. She is currently doing her doctoral thesis in the Department of Urology and Nephrology on the outcome of patients after second, third and fourth kidney transplantation under the supervision of PD Dr. med. Frank Friedersdorff. She has published a paper in a reputed journal and has been presenting her research work on several congresses.

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