primary studies - published, non RCT

Peri-operative and long-term outcomes of kidney transplantation in patients with cystic fibrosis.

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Study design (if review, criteria of inclusion for studies)

Observational study.

Participants

All CF patients who received a kidney transplant at the national kidney transplant center between 1993 and 2022. 14 patients received a kidney transplant over the study period. Median age at transplantation was 35 (IQR 31, 40) years.

Interventions

Kidney transplantation. Recipients of the contralateral donor kidney were selected as a control group.

Outcome measures

The peri-operative and long-term outcomes of kidney transplantation. Primary outcomes included 1-, 5-, and 10- year death-censored graft survival and overall survival. Secondary outcomes included peri-operative morbidity, acute graft rejection, delayed graft function (DGF), and length of stay (LOS).

Main results

The 1-, 5-, and 10-year death-censored graft survival was 92, 74, and 74% in the CF group compared to 100, 92, and 92% in the control group ($p = .44$). The 1-, 5-, and 10-year overall survival in the CF group was 85, 66, and 57% compared to 100, 92, and 82% in the control group ($p = .036$). There was no significant difference in peri-operative outcomes including LOS (10 vs. 11 days, $p = .84$), ICU admission (1 vs. 0 patients, $p > .99$), acute rejection episodes (2 vs. 1 patients, $p > .99$), and DGF (1 vs. 2 patients, $p = .60$).

Authors' conclusions

CF patients have good long-term graft survival, however, overall survival was worse compared to a matched cohort. These data provide important information for transplant surgeons when considering suitable donor allografts in this unique patient population.

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See also

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Keywords

Adult; Caregivers; Home; Home Care Services; non pharmacological intervention - psyco-soc-edu-org; non pharmacological intervention - surg; telemedicine; transplantation; Organization;