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FIFTEEN YEARS OF LIVING DONOR KIDNEY TRANSPLANTATION PROGRAMME IN ARMENIA

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Background, aims

The number of patients (pts) with end stage renal disease (ESRD) is continuously increasing. In 2002 thanks to the cooperation with European centers (University Hospitals of Antwerp and Zurich) a living-related kidney transplantation (LRKT) programme was established in Armenia. The **aim** of this study is to evaluate the results of LRKT in Armenia.

Results

The study includes 129 pts (2 had second transplant). Mean age at the time of LRKT was 35.0 ± 12.9 years (13.0-65.7), males – 69.8%. In 7

Conclusions

• KT is the optimal treatment

of ESRD in countries with

Methods

Between 2002 and 2016 overall 129 LRKT were performed. All donors and recipients were ABO-compatible and cross-match negative. HLA mismatches at the A, B and DR loci were taken into consideration. We evaluated the frequency of complications and pts and graft survival by Kaplan-Meier method. pts (5.4%) preemptive KT was performed. Mean age of the donors was 44.9 \pm 7.7 years with female predominance (67.4%). Pts received triple immunosuppression, which initially mainly (80; 62.0%) consisted of prednisolone, cyclosporine A (generics, oral solutions) and mycophenolate mofetil. Induction therapy used selectively (29; 22.5%), mainly in highly sensitized pts (ATG in 2 and Basiliximab in 27 pts). The main complication was acute rejection. Pts' non-compliance was the leading reason for the graft loss (*Table 1*). Overall, 1-, 3-, 5-year graft and pts survival rates were >92%. Ten-years graft and pts' survival rates were 88.5% and 89.8% -respectively (*Fig. 1, a, b*).

limited resources. non-compliance • Pts' was ruled of by out use of forms convenient medications. program alone is far • LRKT from covering all the demand KT be for and must complemented by deceased donor transplantation.

Table 1. Clinical outcomes after renal transplantation, n=129

Complications	n	%
Acute rejection	58	45.0
CMV disease	22	17.1
Acute tubulonecrosis	12	9.3
Herpes zoster	9	7.0
Oncological complications	9	7.0

Graft loss	n=16
Non-compliance	7
Chronic transplant nephropathy	3
Surgical complications	3
Reduction of immunosuppression due to complications	2
Hyperhomocysteinemia	1

Death with functioning grafts	n=9
Cardio-vascular complications	3
Oncological complications	2
GI bleeding	2
Systemic amyloidosis in pts with FMF	2

Fig. 1. Graft and pts' survival

a) graft survival





