

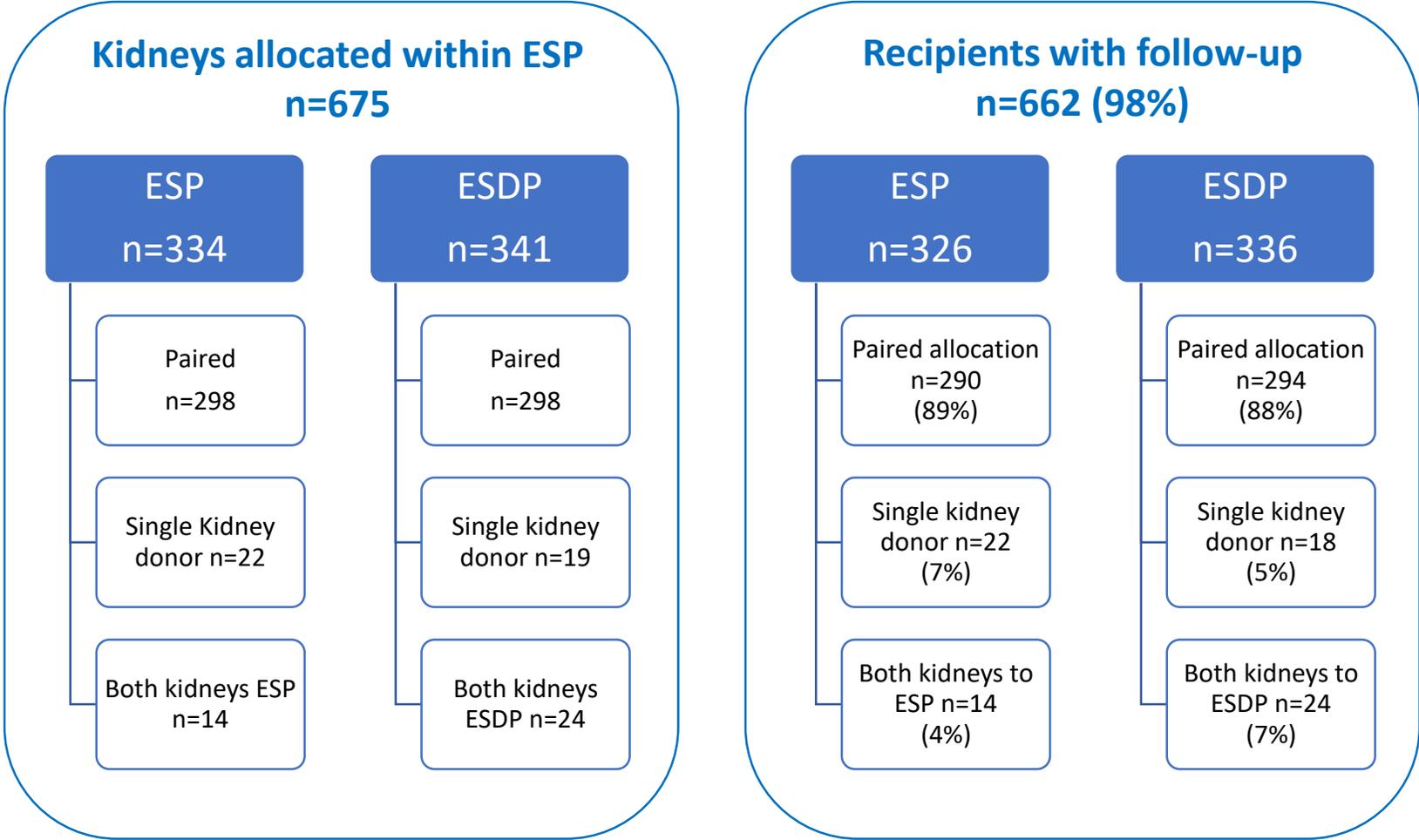
## **Supplementary Material**

**Figure S1:** A). Flow chart of the paired allocation algorithm within the Eurotransplant Senior Program; and B). transplant recipients included in the follow-up analyses.

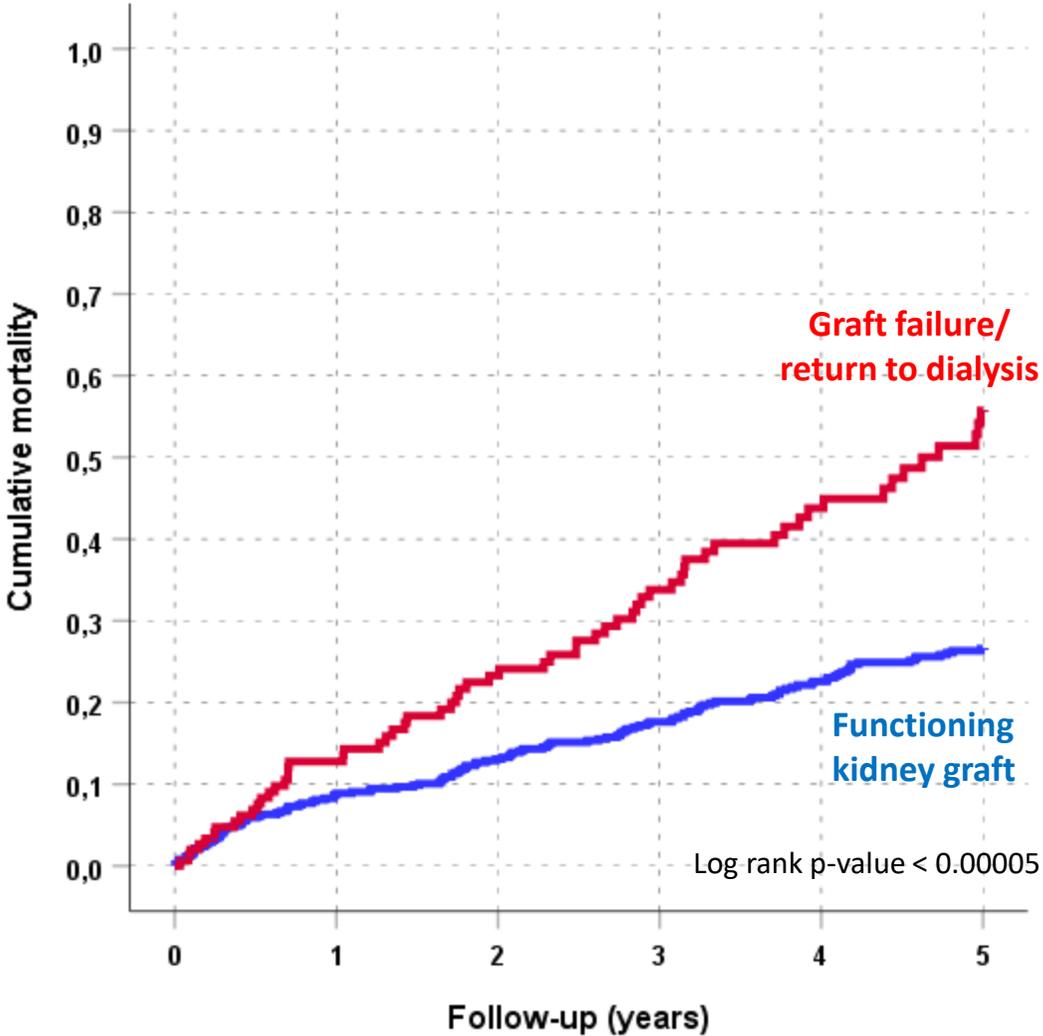
**Figure S2:** **Cumulative incidence of (all-cause) mortality** in old-for-old kidney transplant recipients, stratified by death with functioning kidney graft or return to dialysis within the first post-transplant year.

**Figure S3:** Kidneys transplanted by dialysis vintage  $<5$  or  $\geq 5$  years according to allocation of paired kidneys with (ESDP) or w/o (ESP) matching for HLA-DR antigens.

**Figure S1:** Flow chart of the paired allocation algorithm within the Eurotransplant Senior Program (a). and transplant recipients with follow-up at 5-years (b).



**Figure S2:** Cumulative incidence of (all-cause) mortality in old-for-old kidney transplant recipients, stratified by functioning kidney graft or return to dialysis



Patients at risk:

Number alive with functioning graft	512	459	430	397	344	295
Number alive with graft loss/return to dialysis	150	113	92	73	48	30

**Figure S3:** Kidney transplants by dialysis vintage, stratified by allocation with (ESDP) or w/o (ESP) matching for HLA-DR

