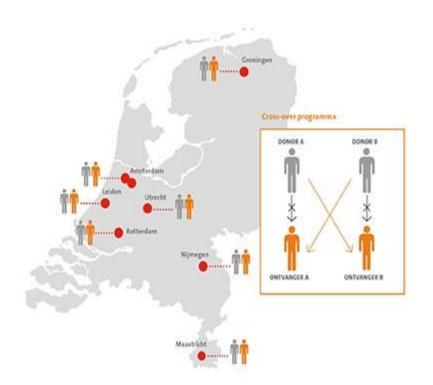


South Africa, 28th SATS & SATiBA September 2019

Willij Zuidema



#### **DUTCH CROSS-OVER PROGRAMME**





NEDERLANDSE TRANSPLANTATIE STICHTING

### **DUTCH WOMEN FOOTBALL TEAM**



#### **INCREASE THE DONOR POOL**

Expand deceased donor criteria

Opt out legal system

Active promotion of living donation

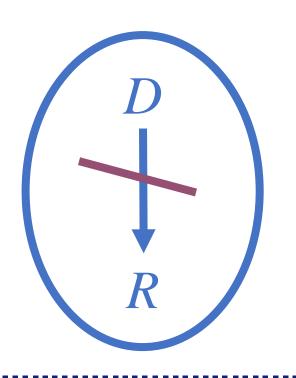


#### **INCREASE THE LIVING DONOR POOL**

- Genetically related
- Genetically unrelated
- Kidney exchange
- Unspecified donation
- Domino-paired chains
- ABOi, HLAi, densensitization



#### **NATIONAL CROSS-OVER PROGRAMME**



Blood type incompatibility

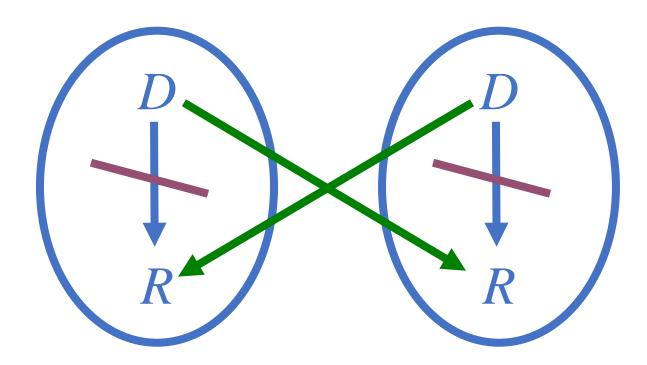
Positive cross-match



NEDERLANDSE TRANSPLANTATIE STICHTING

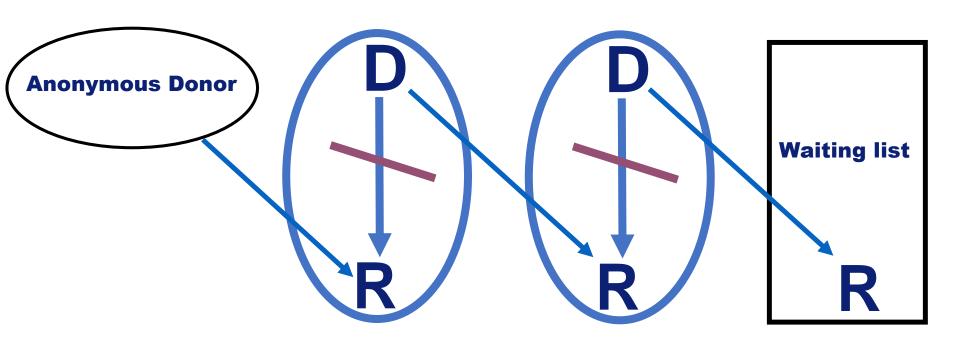


#### **SOLUTION: EXCHANGE**





#### **DOMINO PAIRED TRANSPLANTATION**





#### ETHICAL-PSYCHOLOGICAL CONSIDERATIONS

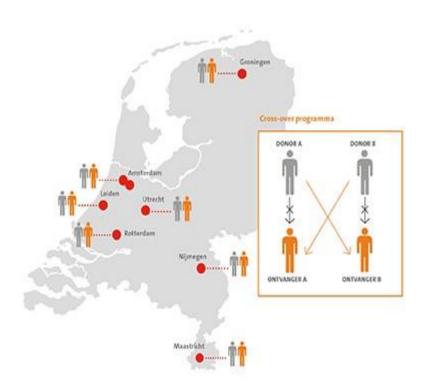
Donation via strangers

Anonymity

Loss of medical excuses

Next step to organ trade







#### **NEDERLANDSE TRANSPLANTATIE STICHTING**

#### **PROTOCOL**

- Allocation by an independent organization: Dutch Transplant Foundation
- Computerized matching four times a year
- Central cross-match laboratory: National Reference Laboratory for Histocompatibility in Leiden
- Donor travels to recipient center
- Procedures at the same time
- Anonymity for all participants



#### **ALLOCATION RULES**

- Maximum number matched couples
- 2. Blood type identical for blood type compatible match
- 3. Preference for recipients with a low match possibility
- 4. Short chains (better 2 doublets than 1 quartet)
- 5. Couples dividing in different centres
- 6. Waittime = first day start replacement therapy



#### **NATIONAL CROSS-OVER PROGRAM**

Start Program January 2004

Until dec 2018 60 match procedures

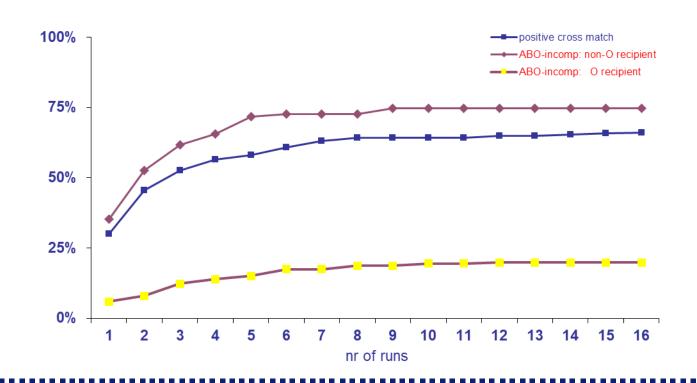
Participants 843 donor-recipient pairs

481 blood-type incompatible

362 positive cross-match

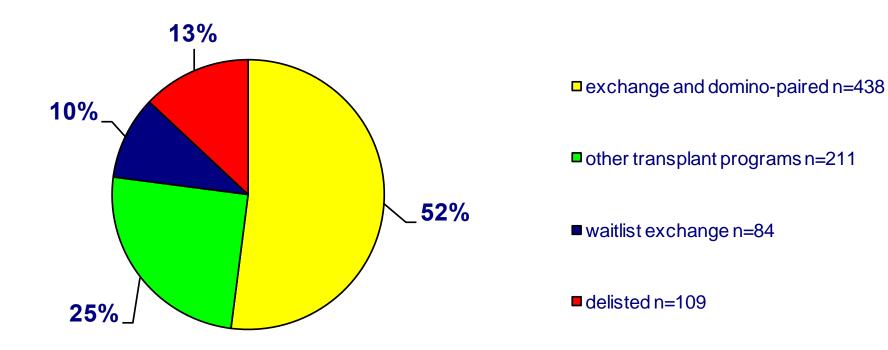


#### **CUMULATIVE SUCCESS RATE**





#### **OVERALL RESULTS FOR 843 COUPLES**



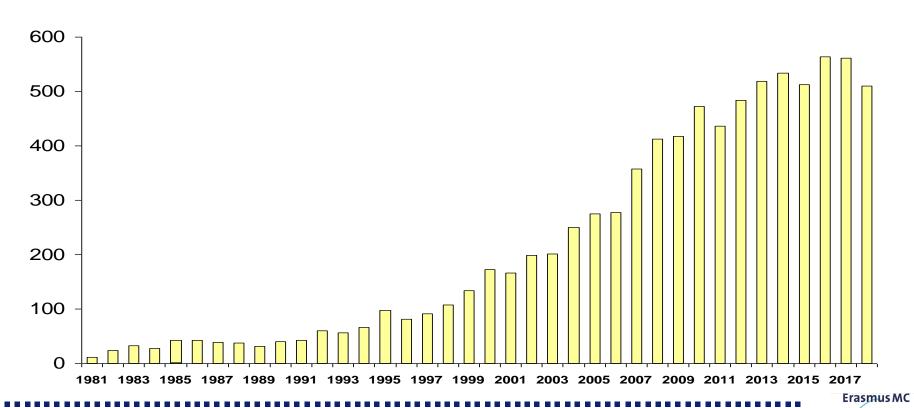


### **RESULTS**

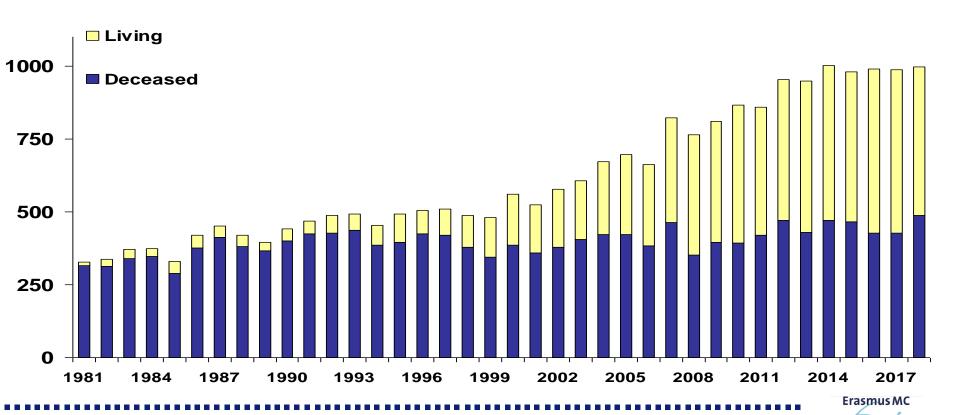
PERFORMED	N	TotaL TXP
Doublet	76	152
Triplet	12	36
Quartet	4	16
TOTAL	92	204
1-1	68	68
TOTAL	160	272



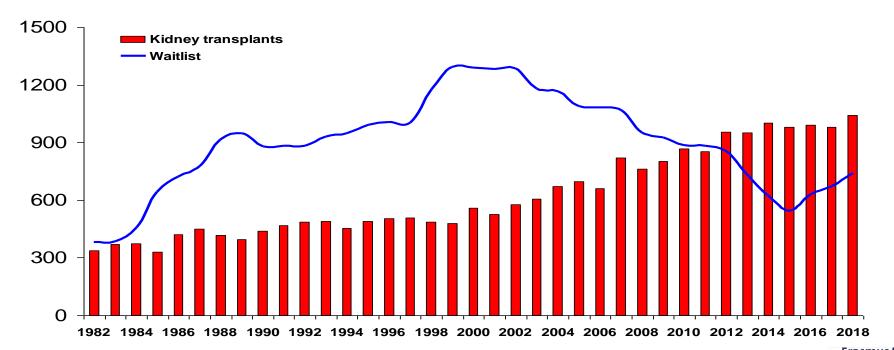
#### LIVING KIDNEY DONATION IN THE NETHERLANDS



#### **KIDNEY TRANSPLANTS IN THE NETHERLANDS**



### **KIDNEY TRANSPLANTS AND WAITLIST**





#### **CONCLUSION**

• A national cross-over programme is a good programme to increase the living donor pool.

 The programme is responsible for 15 % of the total living kidney transplants



# Thank you for listening

Questions & comments welcome



## Seriously Ill Patients as Living Unspecified Kidney Donors: Rationale and Justification

Yannick S. Rakké,<sup>1</sup> Willij C. Zuidema,<sup>1,5</sup> Medard T. Hilhorst,<sup>2</sup> Ruud A.M. Erdman,<sup>3</sup> Emma K. Massey,<sup>1</sup> Michiel G.H. Betjes,<sup>1</sup> Frank J.M.F. Dor,<sup>4</sup> Jan N.M. IJzermans,<sup>4</sup> and Willem Weimar<sup>1</sup>

- Ependymoma's
- Huntington's d
- Progressieve COPD stage III
- Oligodendroglioma



#### **NATIONAL CROSS-OVER PROGRAMME**

