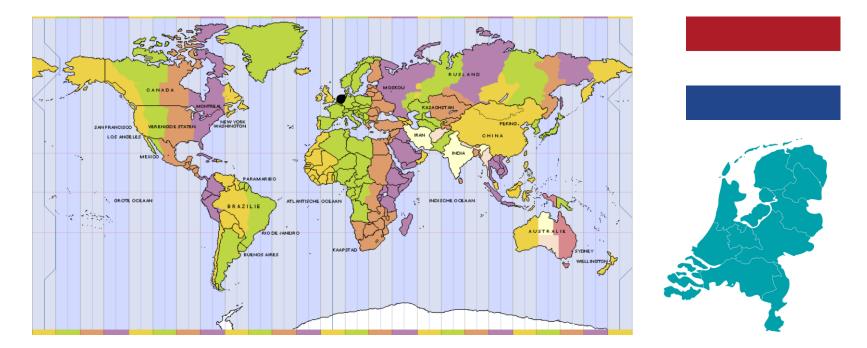
ALTRUISTIC KIDNEY DONATION

South Africa, 28th SATS & SATiBA September 2019

Willij Zuidema

Erasmus MC University Medical Center Rotterdam 2 a fmg

The Netherlands





South Africa and The Netherlands



121.912 km

55.000.000 inhabitants

11 languages

Football, cricket rugby and boxing

Desert, sub-tropical

Elephant, lion, rhino, hippopotamus, leopard



41.526 km

17.000.000 inhabitants

2 languages

Football, skating, cycling and swimming

Moderate maritime climate

Cow

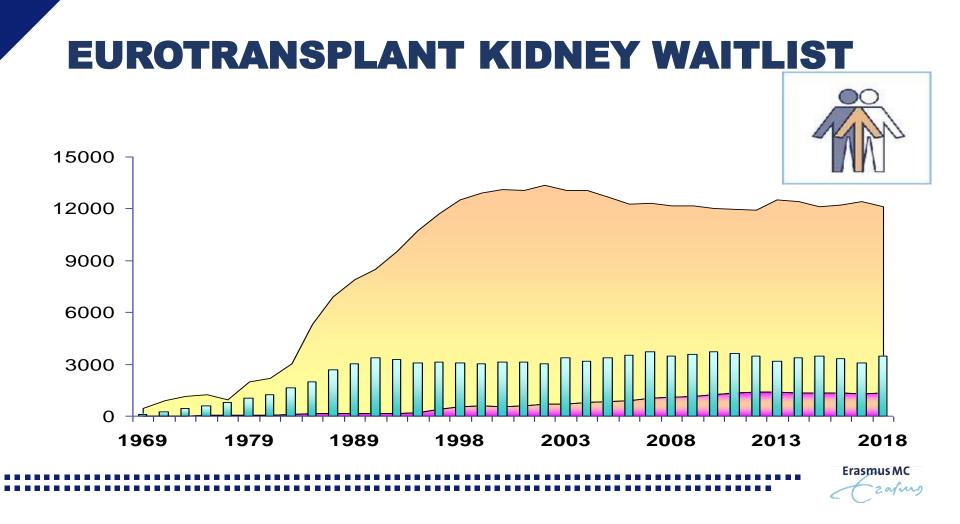


SCOPE OF THE EUROPEAN PROBLEM

- 120.000 On dialysis
 - 65.000 Waiting for a transplant
- 25.000 Transplanted per year
- 3-5 years Wait time
 - 5.500 Die on wait list per year
 - ?? Removed from wait list
 - ?? Not even on wait list







EUROTRANSPLANT KIDNEY WAITLIST 2018



Waitlist: 11.105 → 10.791

 Inflow:
 5.999

 Outflow:
 6.313

Outflow: 3.480+1.326 = 4.806 transplants 1.507 dead/delisted/NT (24%)

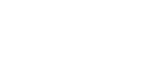


DUTCH KIDNEY WAITLIST 2018



Inflow:1.521Outflow:1.433

Outflow: 512+532 = 1.044 transplants 389 dead/delisted/NT (27%)



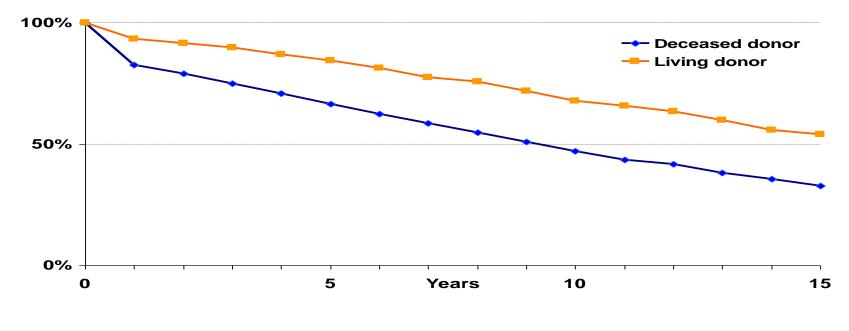


INCREASE THE DONOR POOL

- Expand deceased donor criteria
- Opt out legal system
- Active promotion of living donation

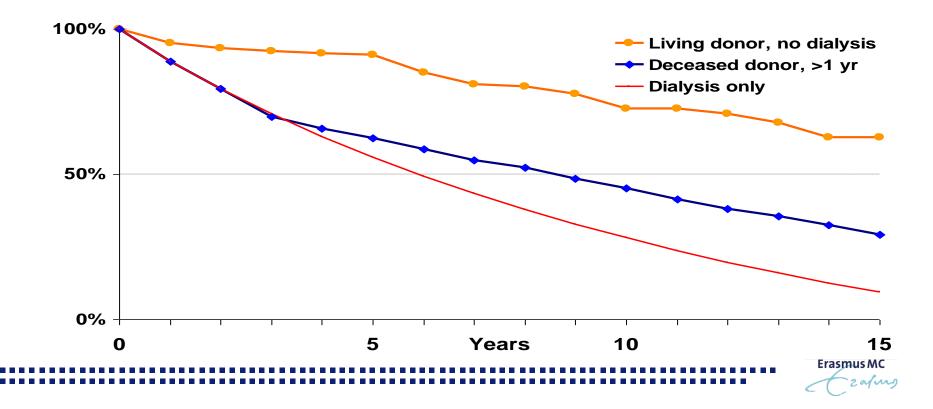


ALIVE WITH FUNCTIONING KIDNEY





PRE-EMPTIVE TRANSPLANTATION

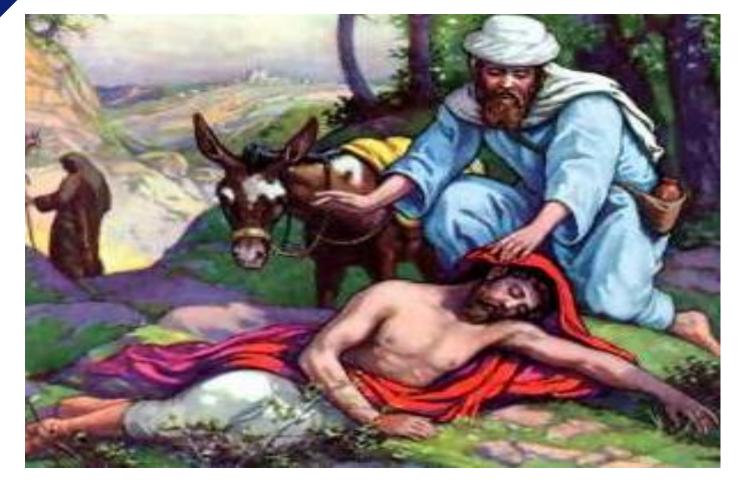


INCREASE THE LIVING DONOR POOL

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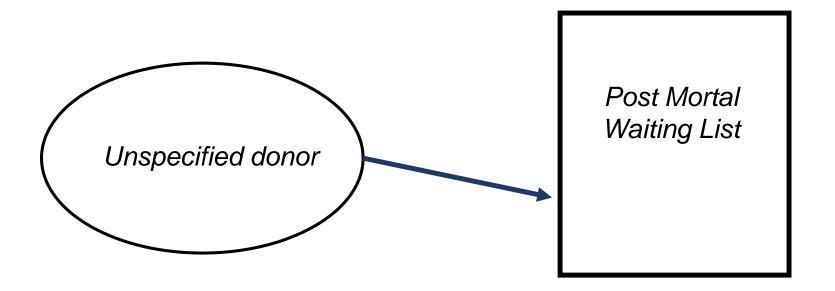
ALTERNATIVE PROGRAMS

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



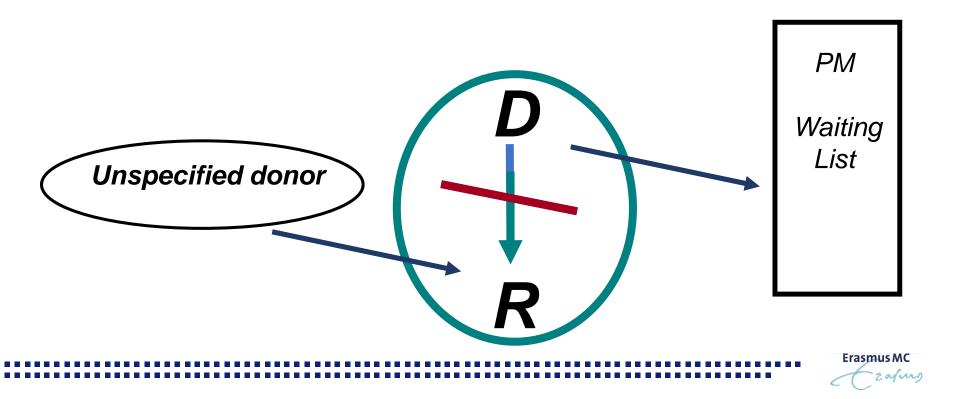


DIRECT TO WAITLIST RECIPIENT





DOMINO-PAIRED TRANSPLANTS



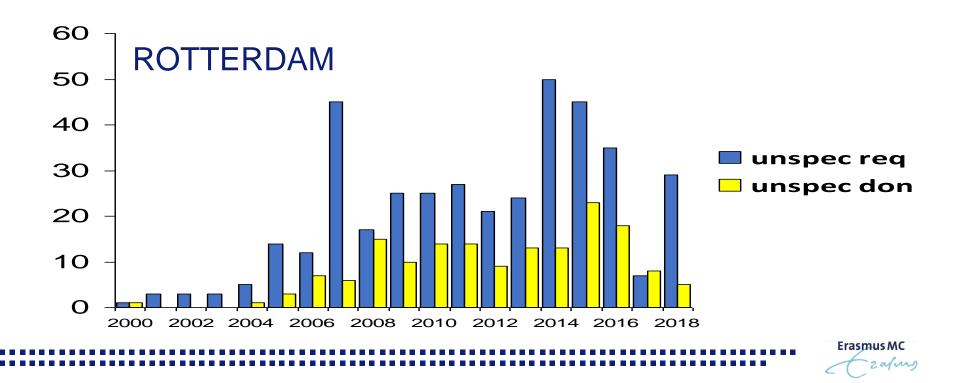
SMALL CITY IN BIG CITY





Erasmus MC Rotterdam





UNSPECIFIED DONATION ROTTERDAM (2000-2018)

REQUEST	SCREENING	ACCEPTED	DONATED
390			
	258		
		172	
			160



DONOR CHARACTERISTICS

	Unspecified	
Ν	160	
Male/Female	76/84	
Age of donor	58 (21-89)	

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



MOTIVATION

Way of life, blood donor, voluntary work

Kidney disease in their environment

Stories in the media about organ shortage

Serious illness in their environment

Prefer to give by life

Bereavement and give new life

Moral duty

Religion

Give something back to the medical staff as gratefulness



MENTAL HEALTH AMONG UNSPECIFIED LIVING KIDNEY DONORS AFTER DONATION

Willij Zuidema, Sohal Ismail, Willem Weimar, Louiza van Raalten, Jacqueline van de Wetering and Emma Massey





- 1. To investigate the mental health after anonymous kidney donation (quantitative)
- 2. To investigate the experience of anonymous donation (qualitative)
 > anonymity
 > impact on life, physical and mental health
 - attribution of problems to donation



RESEARCH QUESTIONS (quantitative)

- How many donors reported positive <u>psychological well-being</u> after donation?
- How many donors reported <u>psychological symptoms</u> after donation?
- How many donors received a <u>psychiatric diagnosis</u> after donation?
 - Which diagnoses are reported?
 - Did this develop before or after donation?
 - Does the donor attribute psychological problems to donation?



METHODS – PARTICIPANTS & PROCEDURE

Participants

> Anonymous donation between 2000-2016, > 18 years

Procedure

- IRB approval
- Invited for an interview & questionnaires
- ▶ Interviews in the hospital or at home (Feb 2018 August 2019)

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Audio recorded & transcribed

METHODS - MEASURES

Questionnaires

Psychological well-being

Dutch Mental Health Continuum short-form

Psychological complaints

The Symptom Checklist SCL-90

Interview

Psychiatric diagnosis Step 1. M.I.N.I. screen (interviewer)

 Step 2. on indication M.I.N.I. plus (*psychologist*)



METHODS - INTERVIEW

Recorded interview with open questions regarding 3 moments:



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	Frahms
ζ.	

DONATION 2000-2016

Performed	N altr	Totaal Transplants
Doublet	68	136
Triplet	10	30
Quartet	3	12
TOTAL	81	178
1-1	66	66
TOTAL	147	244

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147 unspecified donors in study period

11 donors died not related to the donation procedure, after a median follow-up of 51 (7-164) months

➤ 136 eligible

114 consented to participate

52 male and 62 female.

The age at time interview was median 66.5 years (25-94)

Follow up time median 76.5 (24-178) months



Results – positive well-being

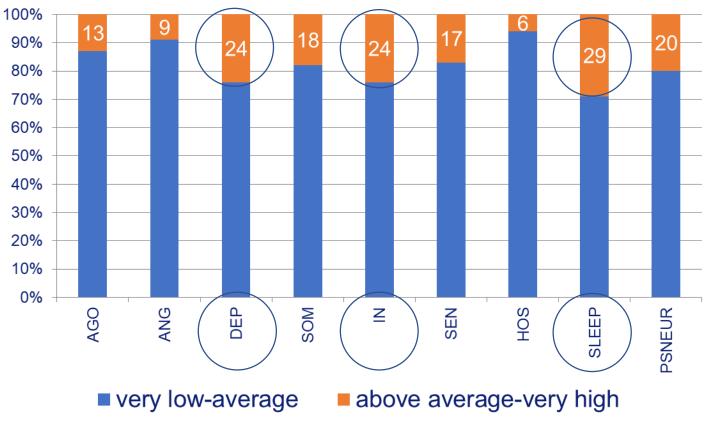
(Dutch) Mental Health Continuum (N=114)	Mean Unspec donors	Average score gen pop*
Emotional well-being (positive emotions and life satisfaction)	3.91	3.67*
Socal well-being (social acceptance, contribution, integration)	2.73	2.33***
Psychological well-being (personal growth, self-acceptance, autonomy)	3.31	3.18
Total positive well-being	3.24	2.98*

* p < .05 * p < .01

° p < .001

* Dutch norm scores for general population (N=1662) from Lamers et al 2011

Results – psychological symptoms



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Results – psychological symptoms

Responses to specific questions of interest:

% responding quite a lot / very much in the past week

- \succ Feeling lonely = 3
- \succ Feelings of guilt = 2
- > The idea that something is wrong with your mind = 2
- Thoughts about dead or dying = 7
- > Thoughts about ending your life = 4



RESULTS – MINI Screen

114 MINI Screen interviews completed

- **NO** indication for M.I.N.I. plus interview = 60 (53%)
- **YES** an indication for M.I.N.I. plus interview = 54 (47%)

• **Diagnosis** from Mini PLUS = 36 (32%)



Results – MINI Plus

36 (32%) actual diagnosis(es)

Sub-scales	Ν	% Yes
Depressive disorder - present	5	4.5
Depressive disorder -past	11	10
Dysthymia	10	9
Suicidality	10	9
(Hypo-) Manic episode - past	3	3
Panic disorder - present	1	1
Panic disorder - past	3	3
Agoraphobia - present	3	3
Agoraphobia - past	1	1
Social phobia	1	1

Sub-scales	Ν	% Yes
Obsessive Compulsive Disorder	0	0
Post-traumatic Stress Disorder	14	11
Alcohol abuse - present	1	1
Alcohol abuse - past	3	3
Substance abuse - past	1	1
Psychotic Disorder - NOS	1	1
Bulimia nervosa - past	1	1
Generalized Anxiety Disorder	7	6
ADHD	6	5
Adaptation disorder	2	2



6 Risk low 4 Risk moderate

RESULTS - TREATMENT

N=114	BEFORE DONATION	AFTER DONATION
Psychological/psychiatric treatment	45 (40%)	17 (15%)
Admission psychiatric clinic	19 (17%)	1 (1%)
Psychotropic medication	38 (33%)	31 (27%)



FIRST IMPRESSION

EXPERIENCES AND EXPECTANCIES

- 5 donors were guilty of serious crimes before donation
- A number of donors reported incest or sexual abuse before the donation
- One donor had planned euthanasia and cancelled this after the donation



CONCLUSION

- **High willingness** to participate (84%)
- Psychological symptoms and psychiatric diagnosis comparable with prevalence in general population / norm scores
- There is an underreporting before donation of psychiatric diagnosis and criminality
- Psychological well-being generally appears high
- No psychological harm, potentially benefits, even among those with a psychiatric diagnosis before donation



Thank you Any questions ?



You can donate a kidney or part of your liver to help someone in need of a transplant.

organdonation.nhs.uk/livingdonation

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