

Paired Kidney Exchange the "GRAPE" in Hong Kong



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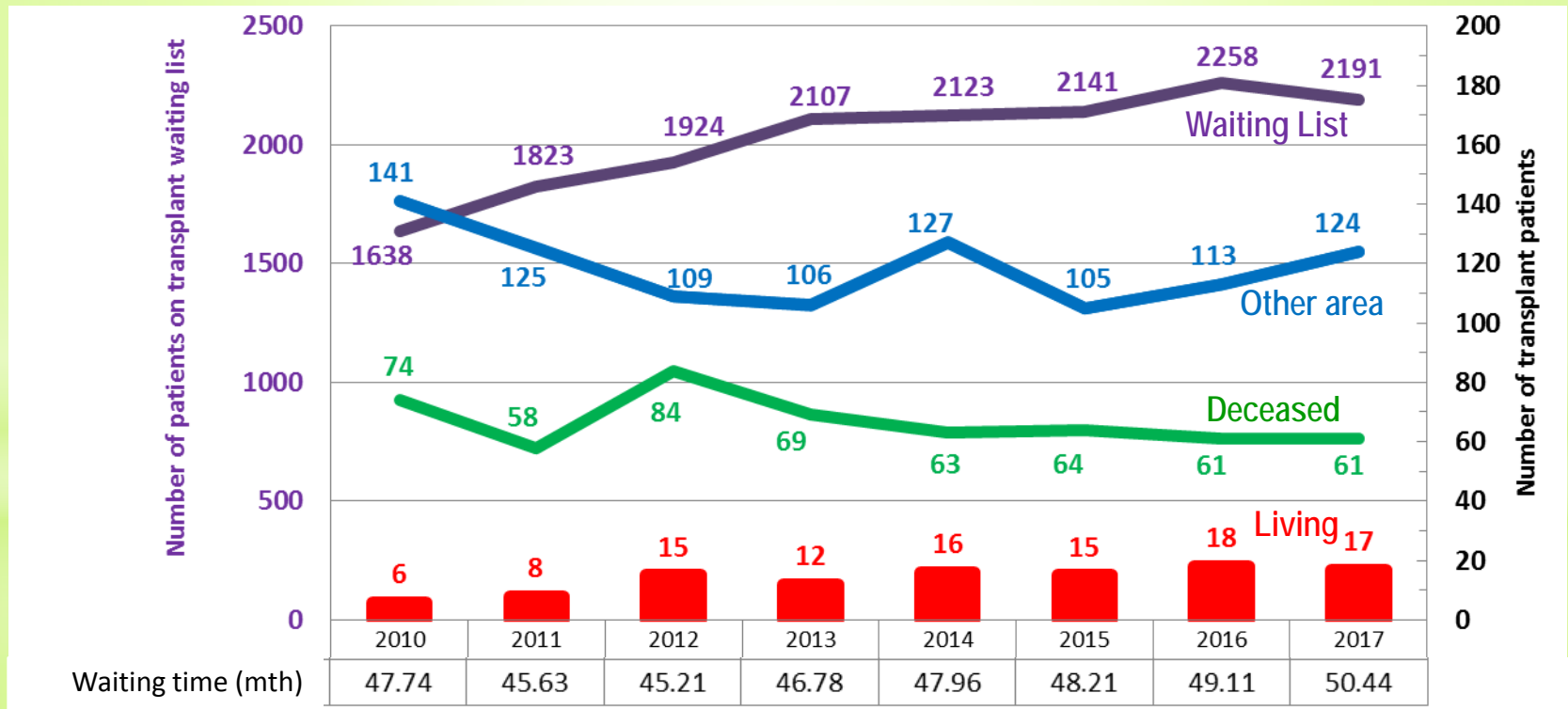
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G.R.A.P.E.

Getting Renal Alternative through Paired Exchange

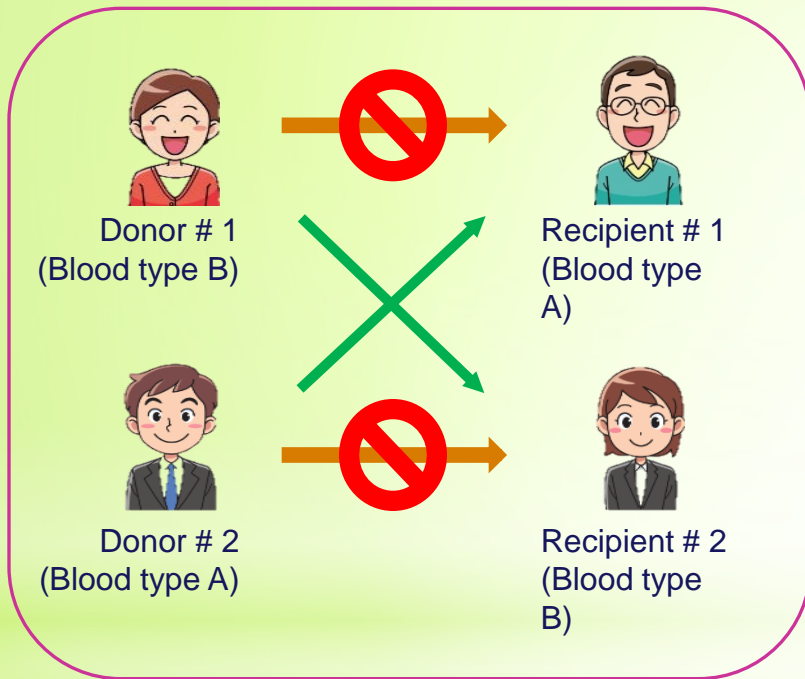
Statistic of Kidney Transplant from 2010 to 2017 in Hong Kong



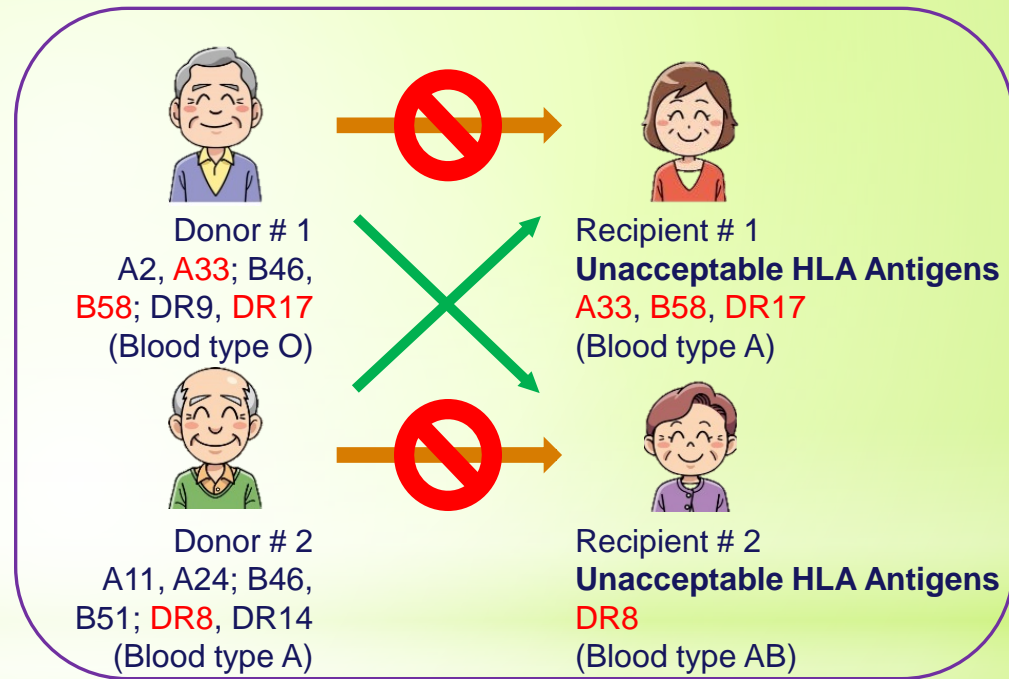
Data retrieved from Renal Registry (RR) & Organ Registry & Transplant. System (ORTS) on 20 Feb 2018

Hurdles

a) ABO incompatibility



b) HLA incompatibility



➔ eligible candidates ?



Feasibility Test

88 donor-recipient pairs for cross-match work up
(Jan 2012 - Dec 2013)



10 pairs (11.4%) were found to have
positive cross-match



Study the clinical history of the potential
donor-recipient pairs



HLA typing,
Blood group,
List of unacceptable antigens



Multiple permutations:
Simple two-way/
Multi-way exchange

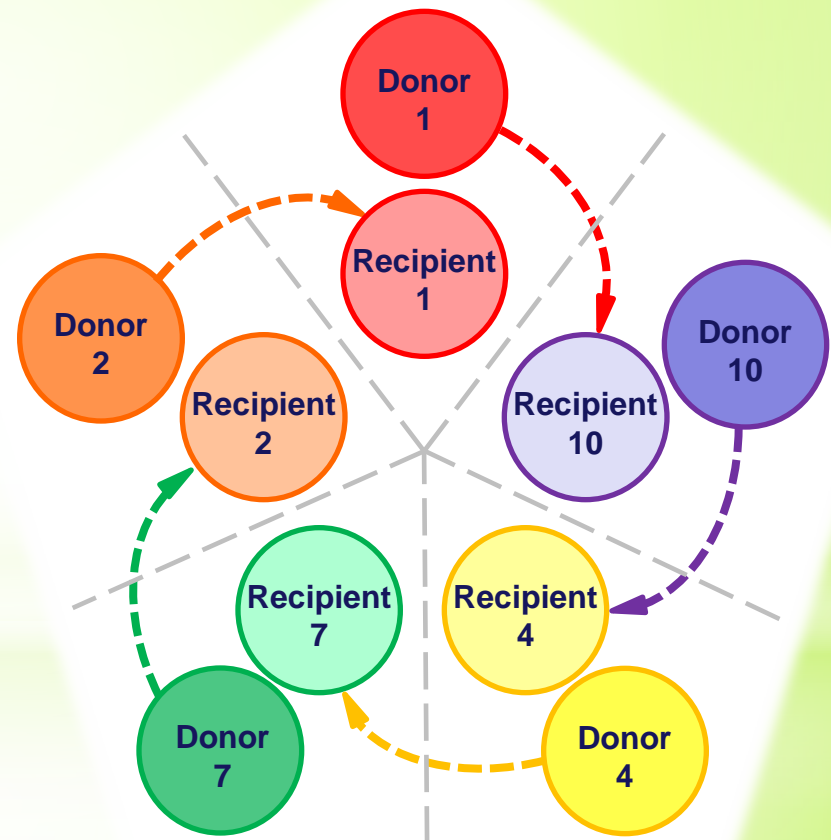
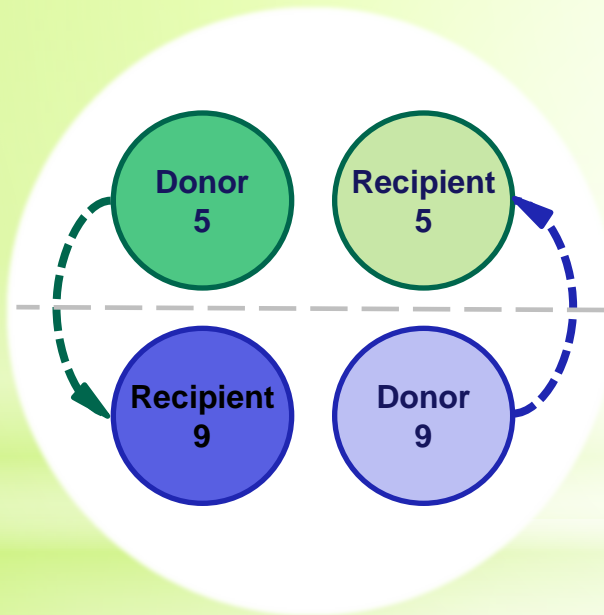


7 Potential Donor-Recipient Pairs

Virtual Match Run Test Results

a) Simple two-way exchange

b) Multi-way exchange



Conclusions

Through G.R.A.P.E. - we can

- increase the number of kidney transplant
- create legitimate, safe, effective transplant opportunities
- shorten waitlist

Current Progress



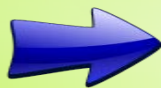
Recruitment



Documentation



Legislation
(By laws)



Anticipate to
start in 2018

ANNOUNCEMENTS

Human Organ Transplant (Amendment)
Bill 2018 gazette

The Government published in the
Gazette today (April 27) the Human Organ
Transplant (Amendment) Bill 2018, which
seeks to allow for paired/ pooled organ
donation arrangements in Hong Kong.

The Amendment Bill will be introduced
into the Legislative Council for scrutiny on
May 9.