

National Histopathology Service for Transplantation Implications for your centre

The PITHIA Trial

A stepped-wedge cluster registry randomised trial



Practical Aspects

- Once a centre is enrolled – request biopsy as clinically indicated
- No mandatory component
- If a biopsy is re-offered after being biopsied, the result will be available.
- No formal sharing system for kidneys with moderate scores.
- By 1st June 2020 all transplant centres will have access.

What would PITHIA do for each centre?

- Two primary end-points:
- Several positive outcomes:
 - a) Numbers of transplants increased, with better outcomes
 - b) Numbers of transplants increased, outcomes unchanged
 - c) Numbers unchanged, but outcomes better.
- Transplant numbers probably most important?
- If so, then for the trial to be successful:

Availability of biopsy service needs to engender change in practice

Pre-implantation Biopsy Service - potential

- Provide greater confidence in selection of 'marginal' donors
- Opportunity to further expand donor selection

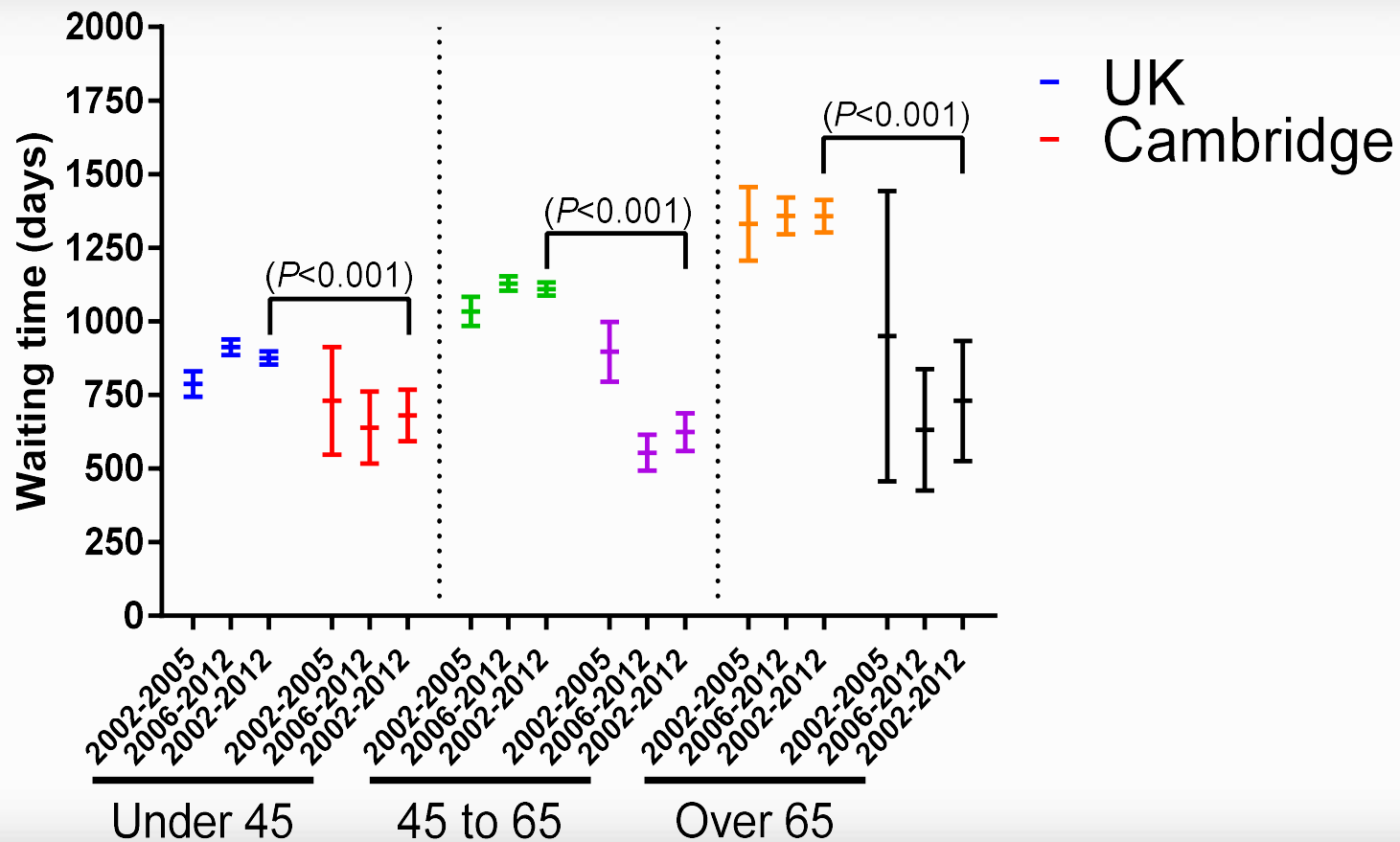
Long-term outcome of renal transplantation from octogenarian donors: A multicenter controlled study

Piero Ruggenenti, Cristina Silvestre, Luigino Boschiero, Giovanni Rota, Lucrezia Furian, Annalisa Perna, Giuseppe Rossini, Giuseppe Remuzzi ✉, Paolo Rigotti

'Biopsy-guided allocation of kidneys from octogenarian donors permits further expansion of the donor organ pool and faster access to a kidney transplant, without increasing the risk of premature graft failure'.

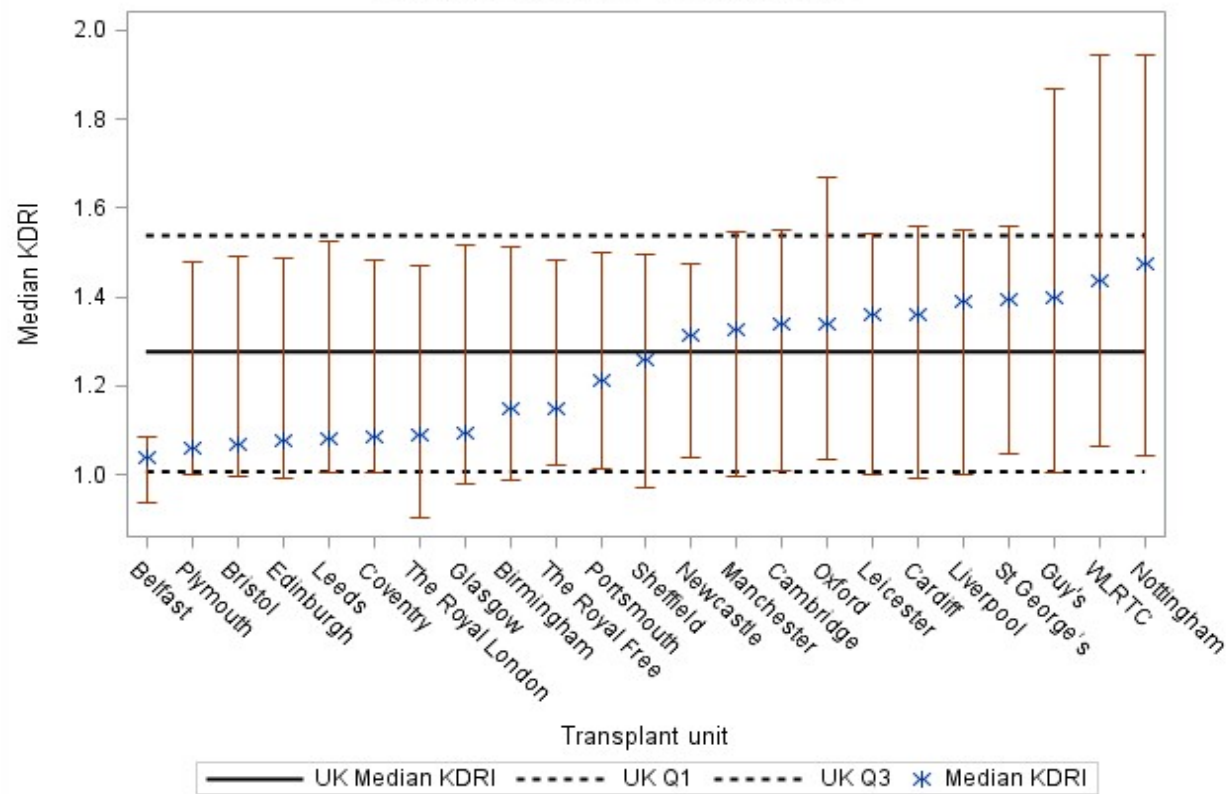
- Particularly useful in conjunction with new KAS
- Fast track scheme
- Address the inequity of transplant for elderly listed patients.

Waiting times by recipient age



What would PITHIA do for you?

Median (Q1 and Q3) UK Kidney Donor Risk Index of transplanted DCD donor kidneys,
3 September 2014 - 31 March 2017



Universal centre-specific selection criteria?

Kidney Centre Criteria

Transplant Centre	Centre Code	DBD Min. Age	DBD Max. Age	DCD Min. Age	DCD Max. Age	Accepts En Bloc kidneys? (<5 years)	Included in Positive Virology scheme?
Addenbrookes	D0101	0	85	0	85	Y	Y
Belfast	02020	5	80	5	75	N	Y
Birmingham	M1202	0	85	0	75	Y (DBD only)	N
Bristol	L1330	0	75	0	75	Y	Y
Cardiff	W7001	0	85	0	85	Y	Y
Coventry	M1701	15	75	15	65	N	Y
Edinburgh	SS226	0	85	0	85	Y	Y
Glasgow (Queen Elizabeth)	SG516	0	85	0	85	Y	Y
Guys	G1501	0	85	0	85	Y	Y
Hammersmith (WLRTC)	T0701	5	85	5	85	N	Y
Leeds	B6313	0	85	0	85	Y	N
Leicester	C0301	0	85	0	85	Y	Y
Liverpool	N2117	0	85	0	85	Y	Y
Manchester	P1101	0	85	0	85	Y (DBD only)	Y
Newcastle	A1313	0	85	0	75	Y	Y
Nottingham	C0851	1	85	1	80	Y	Y
Oxford	K4102	0	85	0	85	Y	Y
Plymouth	L3395	10	75	10	70	N	Y
Portsmouth	J2102	0	85	0	70	Y	Y
Royal Free	F0708	0	80	0	75	Y	Y
Royal London	F1212	0	85	0	85	Y	Y
Sheffield	C1201	0	85	0	85	Y	Y
St Georges	H1202	0	85	0	75	Y	Y

- Primary end point – Increase in proportion of primary kidney offers from deceased donors over 60 transplanted.
- Alter criteria *before* receiving access to the biopsy service.