



Wessex Kidney Centre's PITHIA Journey

PITHIA Wave 2 Launch Party
1st March 2019

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I do have one disclaimer.....

.....we haven't actually
requested a biopsy yet!

Plan

- Why we think it's good?
- What have we discussed?
- What have we done?
- How we intend to use PITHIA?
- What are our concerns?

Why we think it's good?

Why we think it's good?

Table 4.2 compares individual centre offer decline rates for EOD over time. Nationally, the number of offers have increased, as has the offer decline rate (56% in 2015/16 to 63% in the first half of 2018/19).

Table 4.2 Adult extended criteria DBD donor kidney offer decline rates by transplant centre, 1 April 2015 and 30 September 2018

Centre	Code	2015/16		2016/17		2017/18		1 Apr - 30 Sep		Overall	
		N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Belfast	A	27	(44)	28	(43)	32	(44)	7	(57)	94	(45)
Birmingham	B	98	(53)	90	(69)	102	(49)	47	(64)	337	(58)
Bristol	C	89	(67)	73	(64)	72	(71)	25	(36)	259	(64)
Cambridge	D	24	(50)	18	(56)	32	(56)	18	(50)	92	(53)
Cardiff	E	21	(71)	31	(81)	28	(79)	16	(63)	96	(75)
Coventry	F	11	(55)	12	(67)	29	(34)	6	(33)	58	(45)
Edinburgh	G	32	(72)	32	(69)	55	(56)	31	(45)	150	(60)
Glasgow	H	58	(53)	67	(51)	96	(56)	39	(62)	260	(55)
Guy's	J	57	(47)	61	(59)	70	(60)	55	(76)	243	(60)
Leeds	K	29	(38)	30	(50)	56	(54)	28	(43)	143	(48)
Leicester	L	42	(62)	41	(49)	28	(46)	18	(56)	129	(53)
Liverpool	M	33	(64)	32	(56)	43	(74)	23	(74)	131	(67)
Manchester	N	106	(41)	79	(38)	83	(42)	42	(52)	310	(42)
Newcastle	O	29	(59)	33	(55)	36	(64)	33	(73)	131	(63)
Nottingham	P	24	(50)	24	(38)	24	(46)	7	(14)	79	(42)
Oxford	Q	37	(54)	49	(51)	53	(60)	14	(50)	153	(55)
Plymouth	R	12	(25)	15	(47)	17	(65)	13	(38)	57	(46)
Portsmouth	S	40	(58)	49	(45)	60	(65)	23	(61)	172	(57)
Sheffield	T	37	(68)	43	(72)	36	(61)	18	(61)	134	(66)
St George's	U	57	(60)	68	(62)	103	(72)	59	(78)	287	(68)
The Royal Free	V	37	(57)	44	(57)	74	(62)	17	(65)	172	(60)
The Royal London	W	57	(75)	76	(71)	96	(73)	67	(84)	296	(75)
WLRTC	X	94	(53)	90	(61)	114	(69)	55	(69)	353	(63)
UK		1051	(56)	1085	(58)	1339	(60)	661	(63)	4136	(59)

Centre has reached the upper 99.8% confidence limit
 Centre has reached the upper 95% confidence limit
 Centre has reached the lower 95% confidence limit
 Centre has reached the lower 99.8% confidence limit



What have we discussed?

What have we discussed?

- What to tell the patients?
 - Consent?
- Double transplants - Y/N?
- Which kidneys to biopsy?
 - Let's not become American!
- What will happen to our CITs?

What have we done?

What have we done?

National Histopathology Service for Transplantation

The PITHIA Trial

A stepped-wedge cluster registry randomised trial



What have we done?

- Informed the TxCOs
- Informed the patients
- Discussed as a consultant team



The graphic is a white rectangular box containing logos and text. At the top right is the NHS logo and the text 'Blood and Transplant'. Below that is the NHS logo and 'Portsmouth Hospitals NHS Trust'. In the center is a circular gold logo with a figure, followed by the word 'PITHIA'. Below that is the text 'Pre-Implantation Trial of Histopathology In renal Allografts'. A large orange rounded rectangle contains the text 'BETTER QUALITY ASSESSMENT IN TRANSPLANTATION'. At the bottom left is the University of Cambridge logo and 'Cambridge University Hospitals NHS Foundation Trust'. At the bottom right is the NHS logo. At the very bottom is the text 'PITHIA Information Sheet_v1.1_2018_06_08'.

NHS
Blood and Transplant

NHS
Portsmouth Hospitals
NHS Trust

 PITHIA

Pre-Implantation Trial of
Histopathology In renal Allografts

BETTER QUALITY
ASSESSMENT IN
TRANSPLANTATION

UNIVERSITY OF CAMBRIDGE Cambridge University Hospitals NHS
NHS Foundation Trust

PITHIA Information Sheet_v1.1_2018_06_08

How do we intend to use
PITHIA?

How do we intend to use PITHIA?

- Increase kidney utilisation
- Only biopsy kidneys we would otherwise decline
- Use it to re-open and drive a “science” based double transplant programme

PITHIA Blood and Transplant **NHS**

Histopathology (Remuzzi) Report

Donor Gender Number: Kidney: Left Right

Donor Year of Birth:

Donor Hospital:

Histopathology Specimen Number:

Processing (Scoring) Centre - please select:

Donoridge Haringey Haringey
 Lamb Merton Merton Royal Free London

GLOMERULUS (G)

Number of glomeruli	Number of glomeruli with crescentic glomerulonephritis	Number of glomeruli with crescentic glomerulonephritis
0-20%	<input type="checkbox"/>	<input type="checkbox"/>
3-40%	<input type="checkbox"/>	<input type="checkbox"/>
41-60%	<input type="checkbox"/>	<input type="checkbox"/>
>60%	<input type="checkbox"/>	<input type="checkbox"/>

Remuzzi Grade (R)

0-20%	<input type="checkbox"/>
3-40%	<input type="checkbox"/>
41-60%	<input type="checkbox"/>
>60%	<input type="checkbox"/>

TUBULAR ATROPHY (TA)

Proximal tubules	Distal tubules
0-20%	<input type="checkbox"/>
21-40%	<input type="checkbox"/>
41-60%	<input type="checkbox"/>
>60%	<input type="checkbox"/>

Remuzzi Grade (TA)

0-20%	<input type="checkbox"/>
21-40%	<input type="checkbox"/>
41-60%	<input type="checkbox"/>
>60%	<input type="checkbox"/>

INTERSTITIAL FIBROSIS (IF)

Proximal tubules	Distal tubules
0-20%	<input type="checkbox"/>
21-40%	<input type="checkbox"/>
41-60%	<input type="checkbox"/>
>60%	<input type="checkbox"/>

Remuzzi Grade (IF)

0-20%	<input type="checkbox"/>
21-40%	<input type="checkbox"/>
41-60%	<input type="checkbox"/>
>60%	<input type="checkbox"/>

ARTERIES (A)

Number of Arteries:

Remuzzi Grade (A)

Normal	<input type="checkbox"/>
Wall thickness less than (x) lumen diameter	<input type="checkbox"/>
Wall thickness equal to (x) lumen diameter	<input type="checkbox"/>
Wall thickness much greater than (x) lumen diameter	<input type="checkbox"/>

REMUIZZI SCORE = / 12

ADEQUACY

Is the biopsy adequate (≥ 25 glomeruli AND ≥ 1 artery)?

Yes No

What are our concerns?

What are our concerns?

- CITs - risk increasing it in the kidneys most susceptible to CIT
- Remuzzi scores or 5/6
 - Who should we tell?
- How to get the 2nd kidney if we want it?
- Who would we double transplant?

And finally.....

Check your offer/acceptance
criteria!!



PITHIA

Thanks

