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# **Utilisation of deceased donor kidneys – an update**

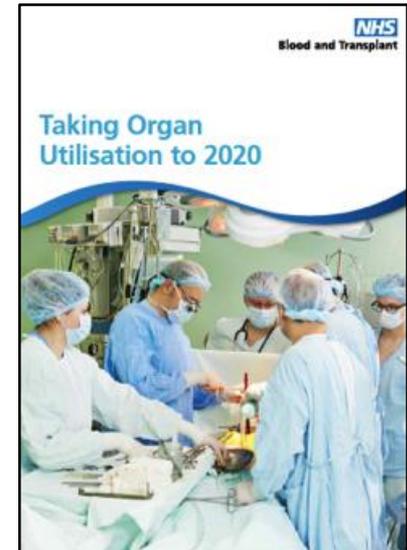
**Chris Callaghan**

**Abdominal Organ Utilisation Lead, NHSBT**

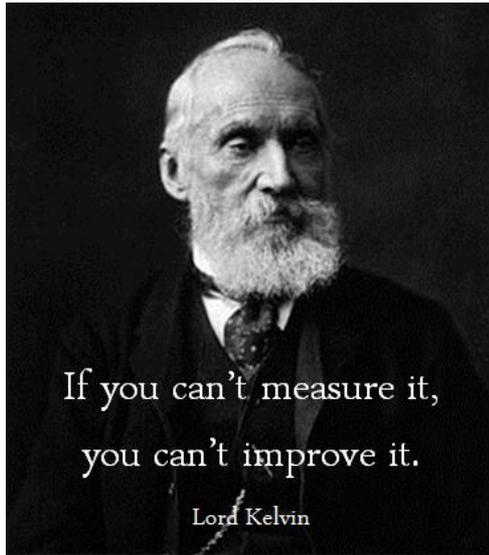
**Consultant Surgeon, Guy's Hospital**

# Overview

- Measurement of organ utilisation
- Deceased donor kidney offer scrutiny schemes
- Organ imaging pilot
- UK evidence-base



# Organ utilisation metrics

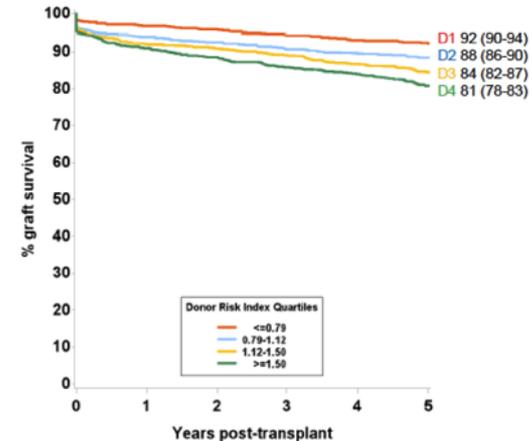


# Organ utilisation metrics

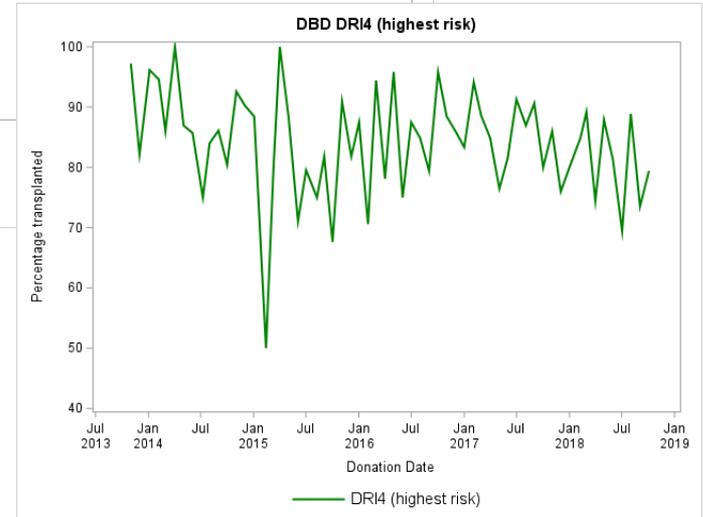
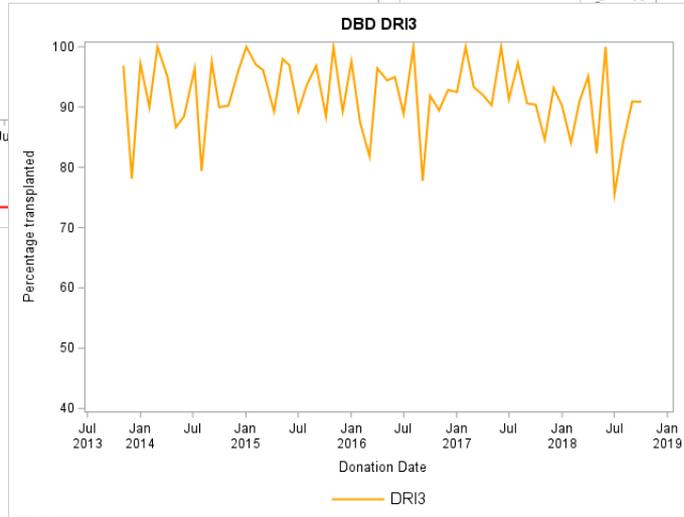
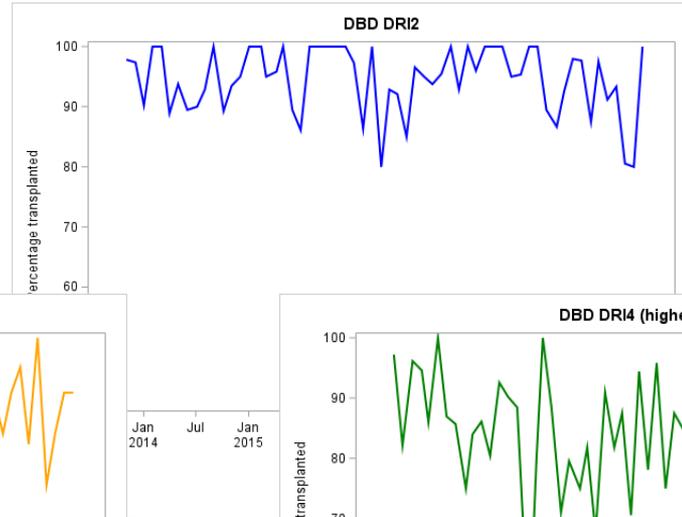
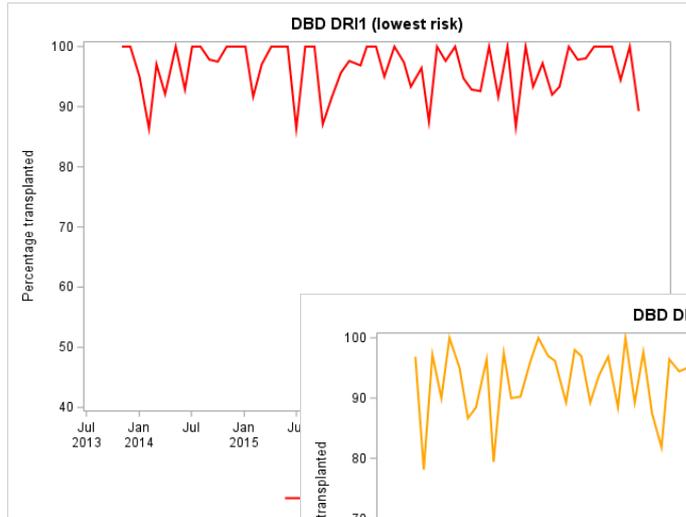
- 1) 'Ideal' deceased kidney donor, using CDDF variables
  - Age >10 and <50 years **AND**
  - No malignancy **AND**
  - HBsAg neg **AND** HCV Ab neg **AND** HIV neg **AND** HTLV neg **AND**
  - No hypertension **AND**
  - No diabetes **AND**
  - No UTIs in current admission

# Organ utilisation metrics

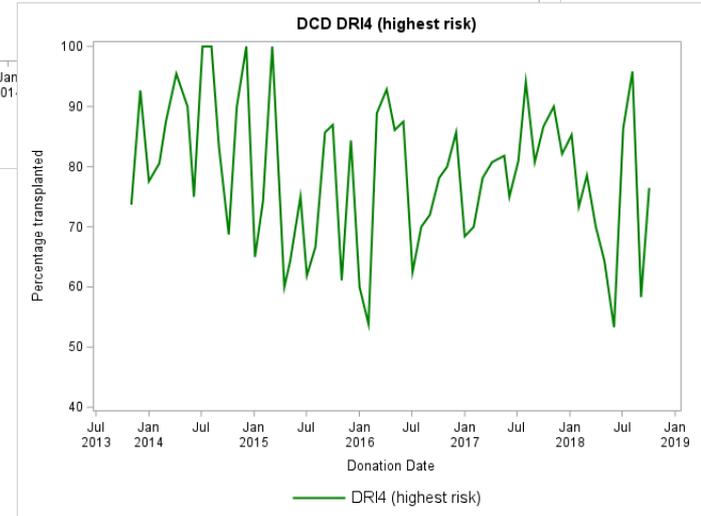
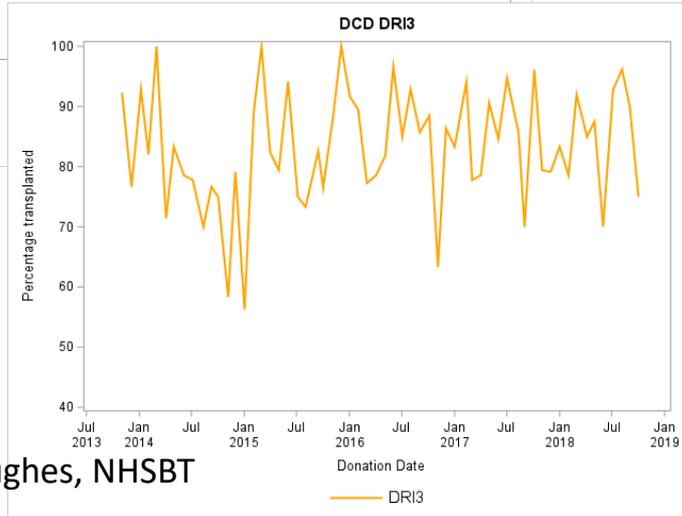
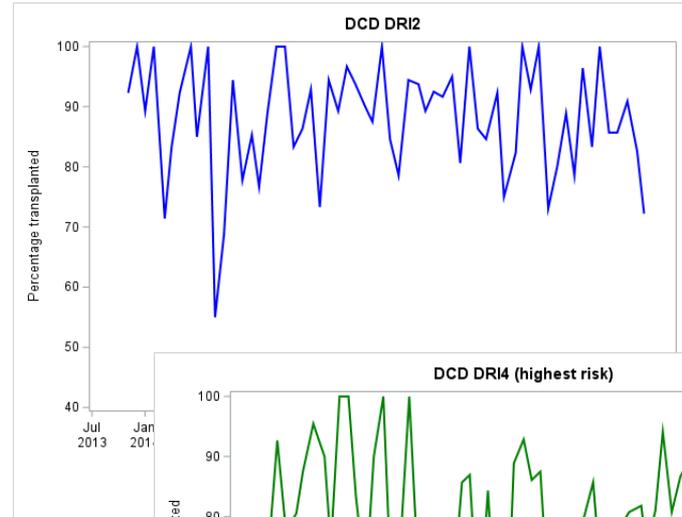
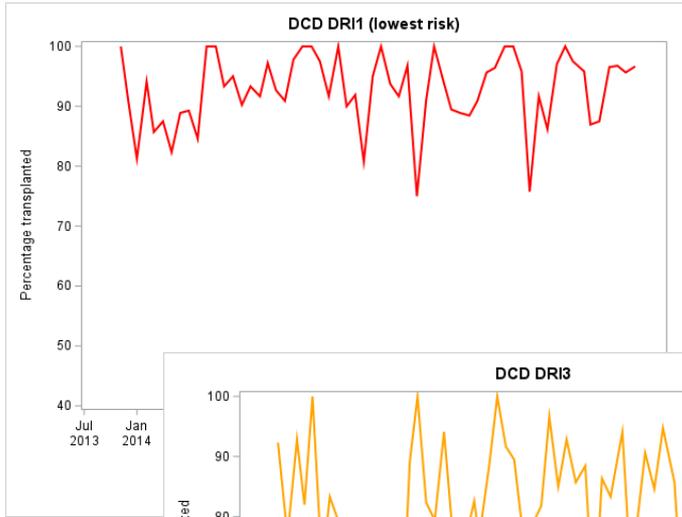
- 1) 'Ideal' deceased kidney donor, using CDDF variables
- 2) 'New UKKDRI' quartile (Mumford 2018)
  - Donor age, height, history of HT, CMV status, gender, hospital stay, eGFR at time of offering



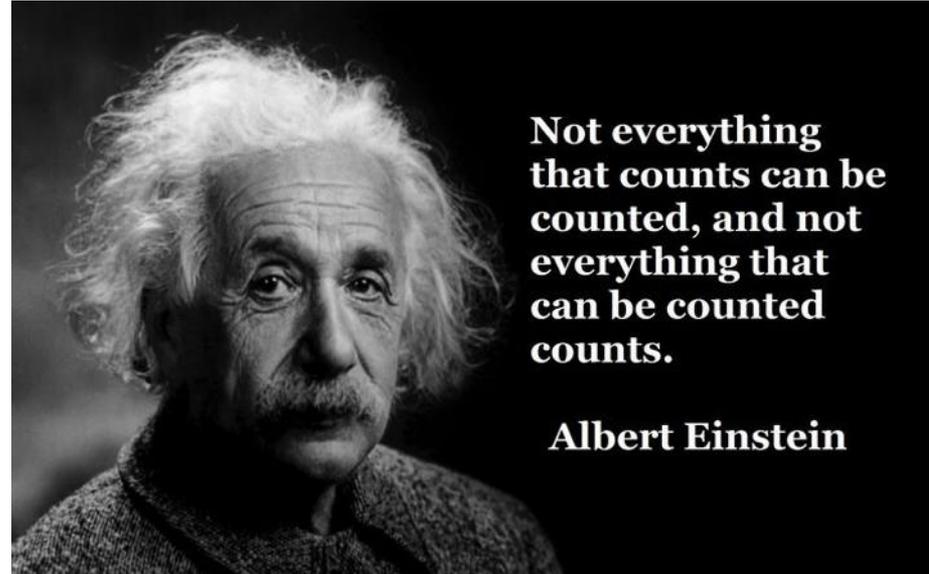
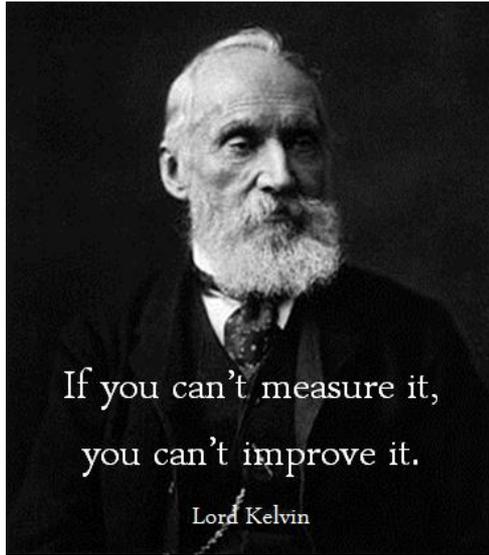
# Organ utilisation metrics



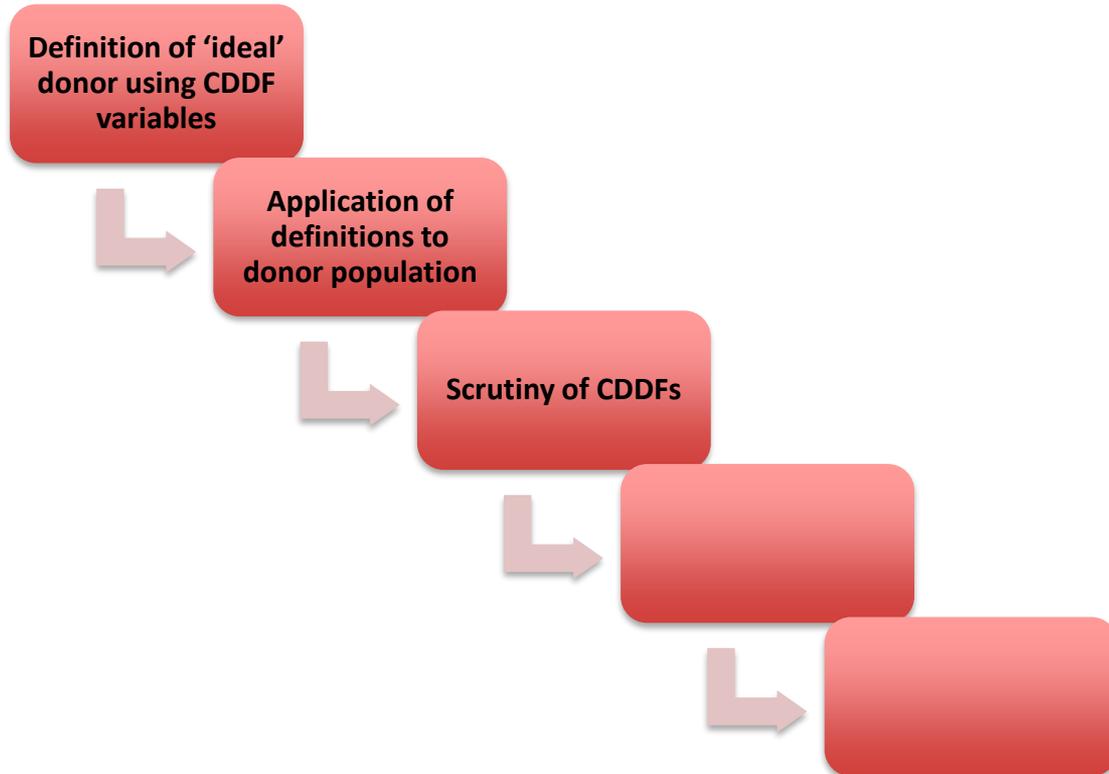
# Organ utilisation metrics



# Organ utilisation metrics

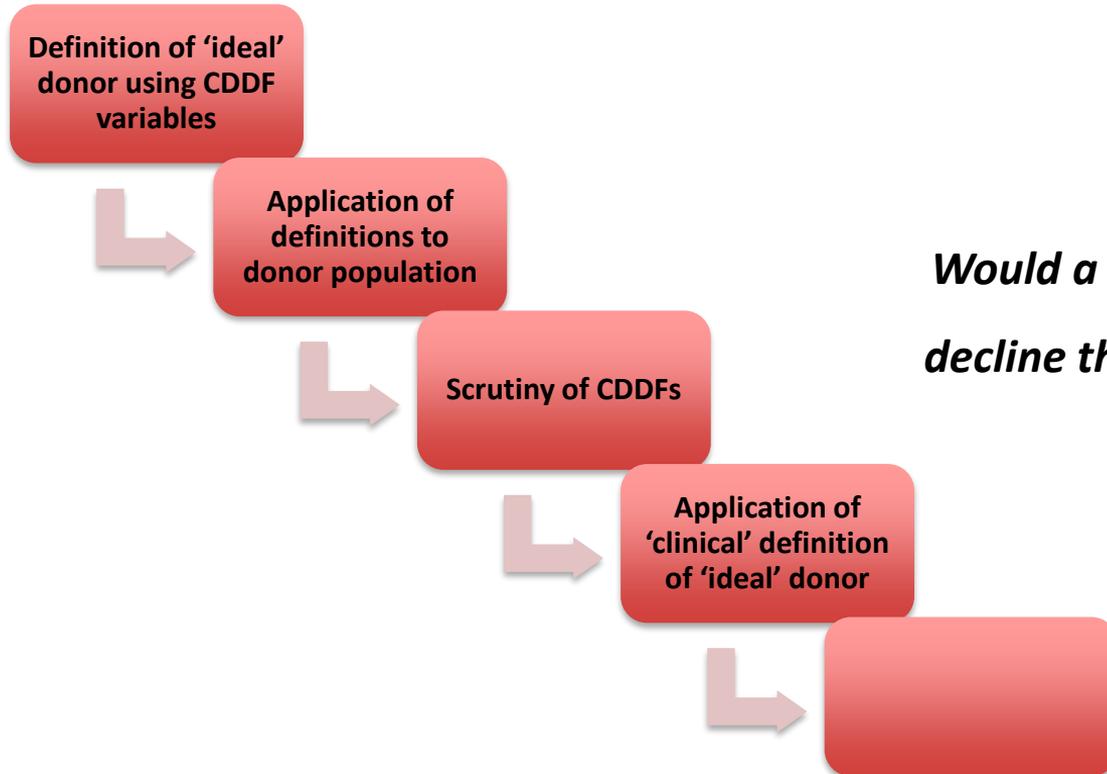


# Offer scrutiny schemes



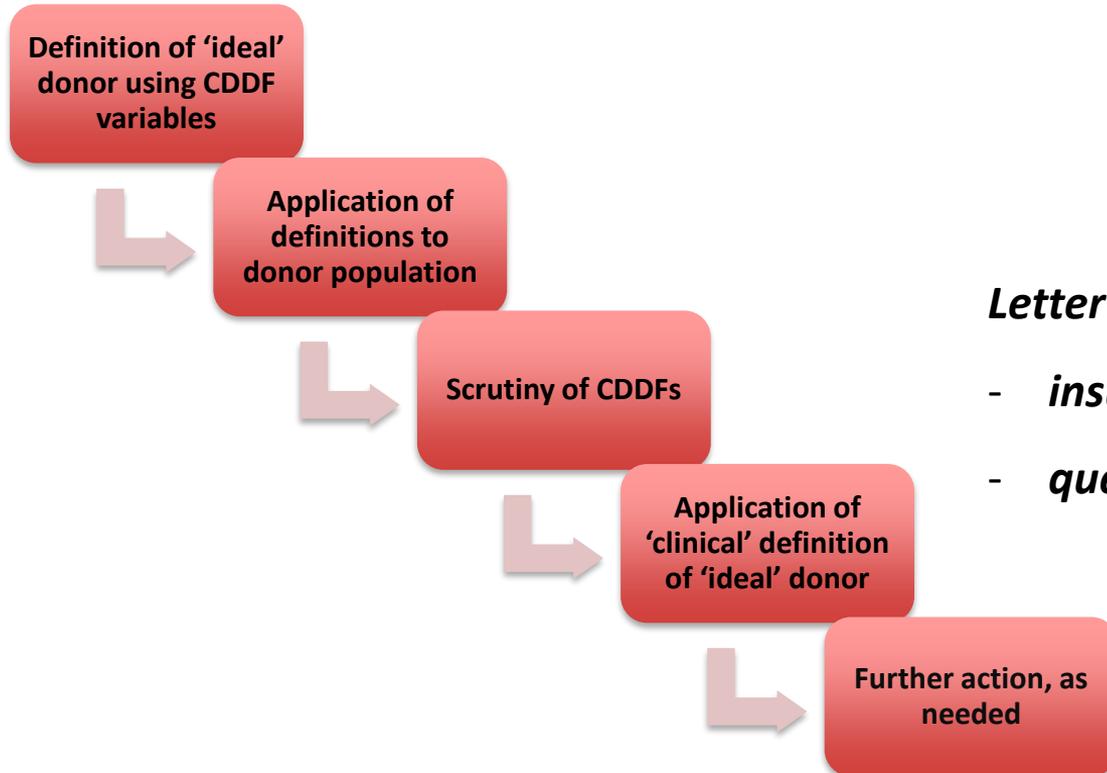
Kidney 'ideal' donor CDDF criteria
Age >10 and <50 years
No malignancy
HBs Ag neg
HCV Ab neg
HIV neg
HTLV neg
No hypertension
No diabetes
No UTIs in current admission

# Offer scrutiny schemes



*Would a reasonable transplant clinician decline this offer (or discard this organ)?*

# Offer scrutiny schemes



*Letter of enquiry to unit lead if:*

- *insufficient NHSBT data and/or*
- *queries about utilisation decisions*

# Offer scrutiny schemes

Donor group	Recipient group	Utilisation decision analysis	Scheme open	Letters sent
'Ideal' kidney donor	NKAS <sup>1</sup> named-patient offer	Organ <b><u>discard</u></b>	13.11.17	4 (4 units)

<sup>1</sup>National Kidney Allocation Scheme

<sup>2</sup>Port FK et al, *Transplantation* 2002

<sup>3</sup>Waiting time >7 years, cRF >85%, or 0-0-0 MM

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'Ideal' kidney donor	NKAS <sup>1</sup> named-patient offer	Offer <b><u>decline</u></b>	27.11.17	20 (9 units)

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# Offer scrutiny schemes

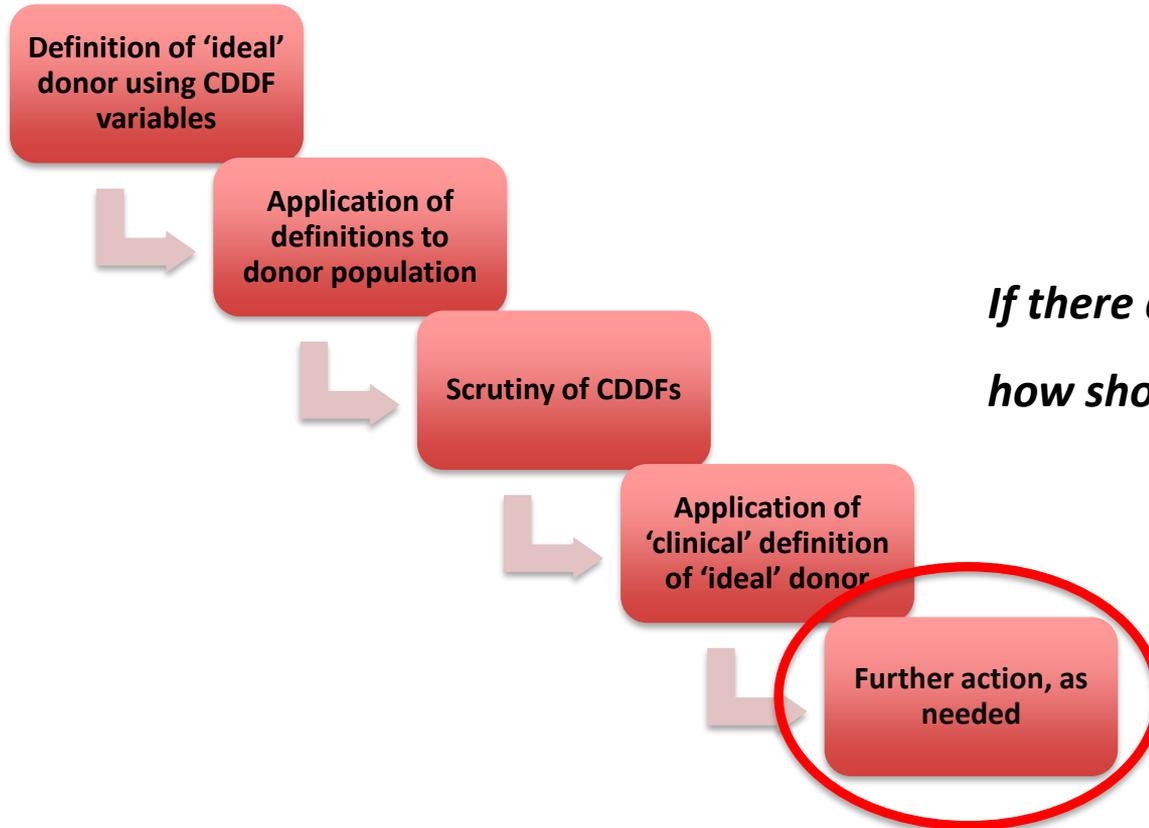
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'Ideal' kidney donor	NKAS <sup>1</sup> named-patient offer	Organ <b><u>discard</u></b>	13.11.17	4 (4 units)
'Ideal' kidney donor	NKAS <sup>1</sup> named-patient offer	Offer <b><u>decline</u></b>	27.11.17	20 (9 units)
Standard criteria kidney donor <sup>2</sup>	NKAS <sup>1</sup> named-patient offer to high priority patient <sup>3</sup>	Offer <b><u>decline</u></b>	5.2.18	12 (8 units)

<sup>1</sup>National Kidney Allocation Scheme

<sup>2</sup>Port FK et al, *Transplantation* 2002

<sup>3</sup>Waiting time >7 years, cRF >85%, or 0-0-0 MM

# Offer scrutiny schemes



*If there are residual or ongoing concerns, how should this be taken forward?*

# Offer scrutiny schemes

- KAG discussion
  - RED: major concerns (for escalation to John Forsythe) 
  - AMBER: residual concerns (defined as 'event' for CUSUM) 
  - GREEN: no concerns, not an 'event' 
  - Oversight group
    - Chris Callaghan (NHSBT / Guy's), Gareth Jones (RFH), Imran Saif (Plymouth), Adam Barlow (Leeds), Lorna Marson (Edinburgh), Julia Mackisack (lay member)

# Organ imaging pilot

- Delays due to IT issues with emails to non-nhs.net addresses
- Deceased donors
  - Aged 65 years+ **OR**
  - Anything other than ‘good’ perfusion after back-table flushing **OR**
  - Injuries / damage **OR**
  - Any other concerns from NORS surgeon
- **Start date March 28<sup>th</sup> 2019 (18 month pilot)**
- At the time of giving the anatomy, the Hub will inform your centre if images have been taken, and will email them to an nhs.net, hscni.net, or wales.nhs.uk address

# Evidence-base

- Criteria
  - Relevant to deceased donor kidney transplantation
  - Related to organ utilisation / recipient selection
  - Published after 2000, based on UK data
  - Accessible via PubMed



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ODT structure & standards

# Organ Donation and Transplantation

Matching world-class performance in organ donation and transplantation

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**Pancreas**

**Small bowel**

**Ocular**

**Tools, policies and guidance**

**Pathology services**

**Transplant units in the UK**

**Organ utilisation evidence**

Taking Organ



Annual Activity Report



Organ Specific Reports





## Pages



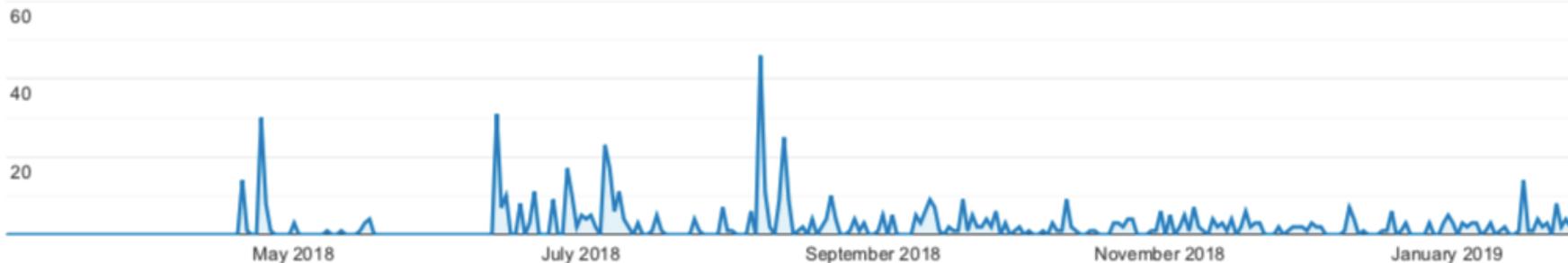
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# Summary

- Selected developments in deceased donor kidney utilisation
  - Better tracking of key organ utilisation metrics
  - Increasing scrutiny of decisions at the time of offering
  - More information prior to organ transport
  - Collation of relevant evidence
- Your support and feedback are appreciated

# Acknowledgements

## KAG

Chris Watson

## NHSBT

Jenny Mehew, Winter Hughes, Maria Ibrahim

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Maggie Stevens, Angie Scales, Mick Stokes

Sarah Belgium, Caroline Willis

Claire Williment, Liz Armstrong

John Forsythe