

# Ideal Donor Audit Offer Decline Scheme

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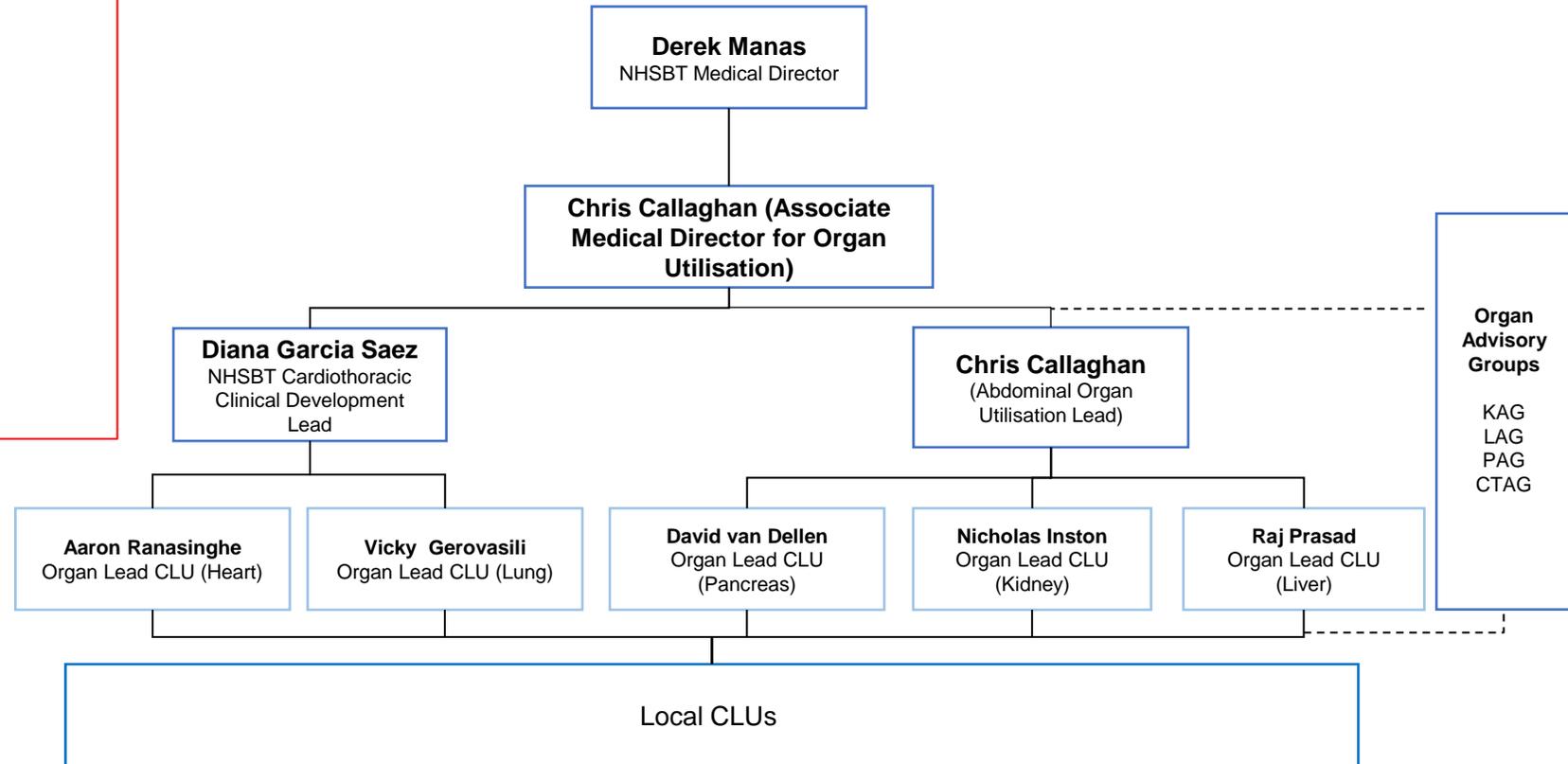
# Local and Lead CLUs and Key Initiatives of the CLU team

## Initiatives of the Lung CLU team

### National

- Agreement on the HQLD
- Offer decline schemes

### Regional Projects



# The Higher Quality Lung Donor

- Defined in Kidney/Liver/Pancreas
- Based on criteria available on CCDF and following a review of the lung donor characteristics/available data in the UK
- First priority of the Lung CLU team
  - Proposed and agreed at CLU engagement calls (all 6 centres)
- Presented and agreed CTAG Lung

Kidney 'HQ' donor CCDF 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

# Higher Quality (HQ) lung definition

Agreed by CTAG

- **Age** : 16 - 55 years
- **Smoking history**: age < 30 or smoking  $\leq$  20packs/year
- **pO<sub>2</sub>  $\geq$  40 kPA** with FiO<sub>2</sub> 1 and PEEP 5 at offering
- **Mechanical ventilation  $\leq$  7 days**
- **No history of malignancy**
- Virology negative

Note: Need to meet ALL criteria to meet definition of HQ lung donor

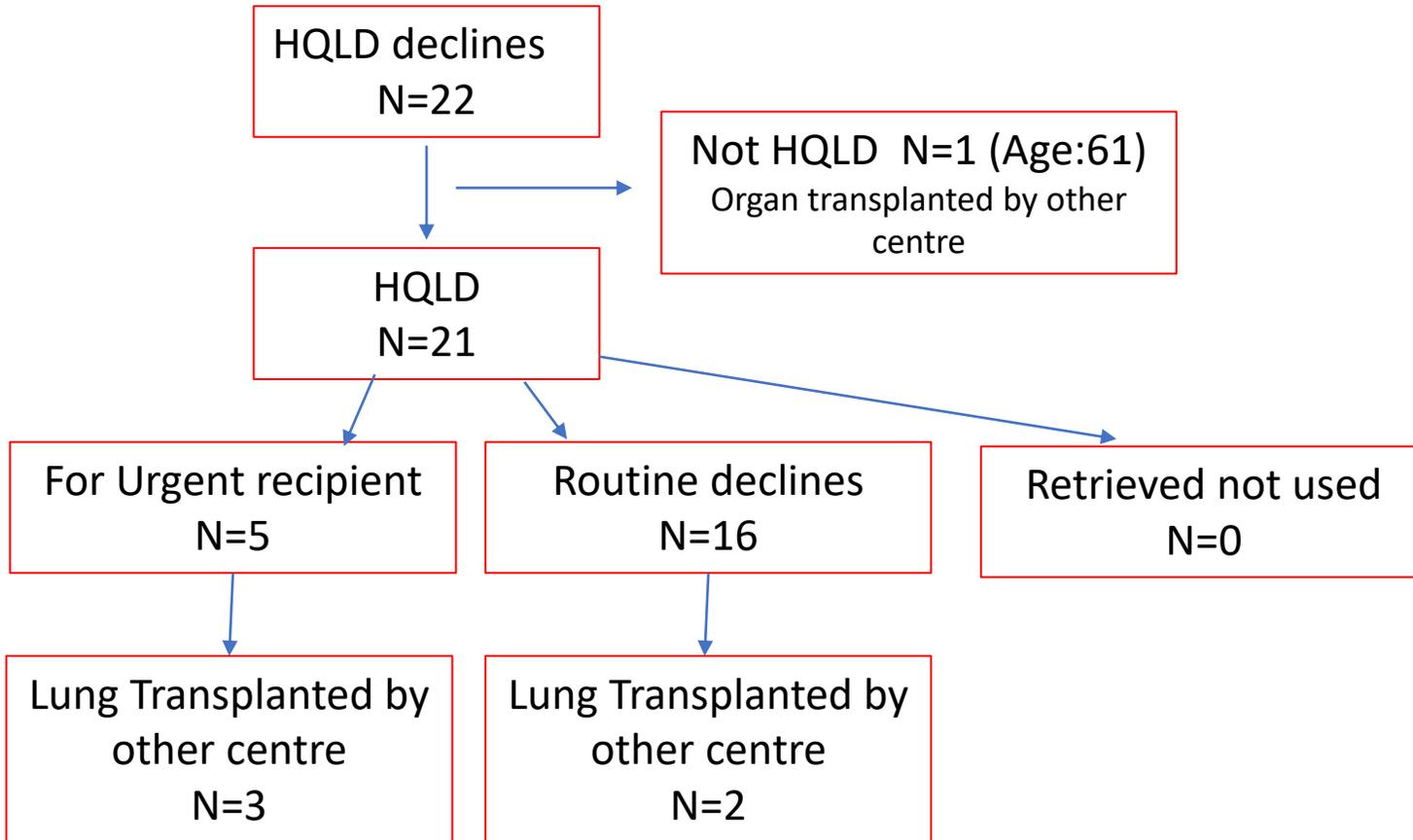
# Lung Offer Decline Scheme

- Offer decline schemes proposed by the Lung CLUs
- Already running in liver/kidneys/pancreas
- Presented and approved by Lung CTAG (April 2022)
  
- **Aim:** to identify barriers to lung utilisation, share common learning and support centres in increasing their lung utilisation rate
  
- **Q: *Would a reasonable transplant clinician decline this offer (or discard this organ)?***
- **Letter of enquiry to Centre Director/Chair of CTAG and Chief Exec (Trust):**
  - *insufficient NHSBT data and/or*
  - *queries about utilisation decisions*

# Lung Offer Decline Scheme

- Donors included:
  - **All HQLD declined due to:**
    - Donor factors (eg Poor Function / Past Medical History)
    - Logistics
  - **Groups of data:**
    - a. HQLD suitable for an urgent/superurgent recipient declined by centre but transplanted by another centre
    - b. HQLD declined on offer
    - c. HQLD declined on retrieval
- Pilot phase April – September 2022
  - HQLD declines where the organ was eventually transplanted: 4
  - HQLD declines : 12
  - 49/176 (28%) offers Smoking Hx (pack/years) – missing data

# Flow chart of HQLD declines from mid Nov to end of Jan (2.5 months)\* and reasons for declines



<b>Total of declines of HQLD (64) By all 6 centres</b>	
Centre transplanting/retrieving	14
No beds	3
No time	1
Poor function	22
Donor past medical history	23
Anatomical	1

\* Retrieval group data from Jan onwards

<b>Baseline Characteristics of Higher Quality Lung Offer Declined</b>	
<b>DBD/DCD (n)</b>	14/7
<b>Cause of death (n)</b>	
Hypoxic brain damage	15
Intracranial Haemorrhage	4
Other trauma (suicide)	1
Intracranial -type unclassified	1
<b>Gender (n) Male/Female</b>	10/11
<b>Age (years) Median (range)</b>	38 (19-51)
<b>Blood group</b>	
B	2
O	8
A	11
<b>Height (cm) Median (range)</b>	176 (157-188)
<b>Predicted TLC (L) Median (range)</b>	5.8 (4.57-7.94)
<b>Length of ventilation (days) Median (range)</b>	2 (1-7)
<b>Smoking History</b>	
Ex smoker yes/no	7/14
Pack years (median – range)	4 (0.15-11.25)

Profile of the HQLD declined:

DBD

Less than 40 years

Ventilated < 2 days

Non smoker

BG : A or O

**Other common themes:**

2 cases of previous cardiac or thoracic surgery

1 case of possible meningioma

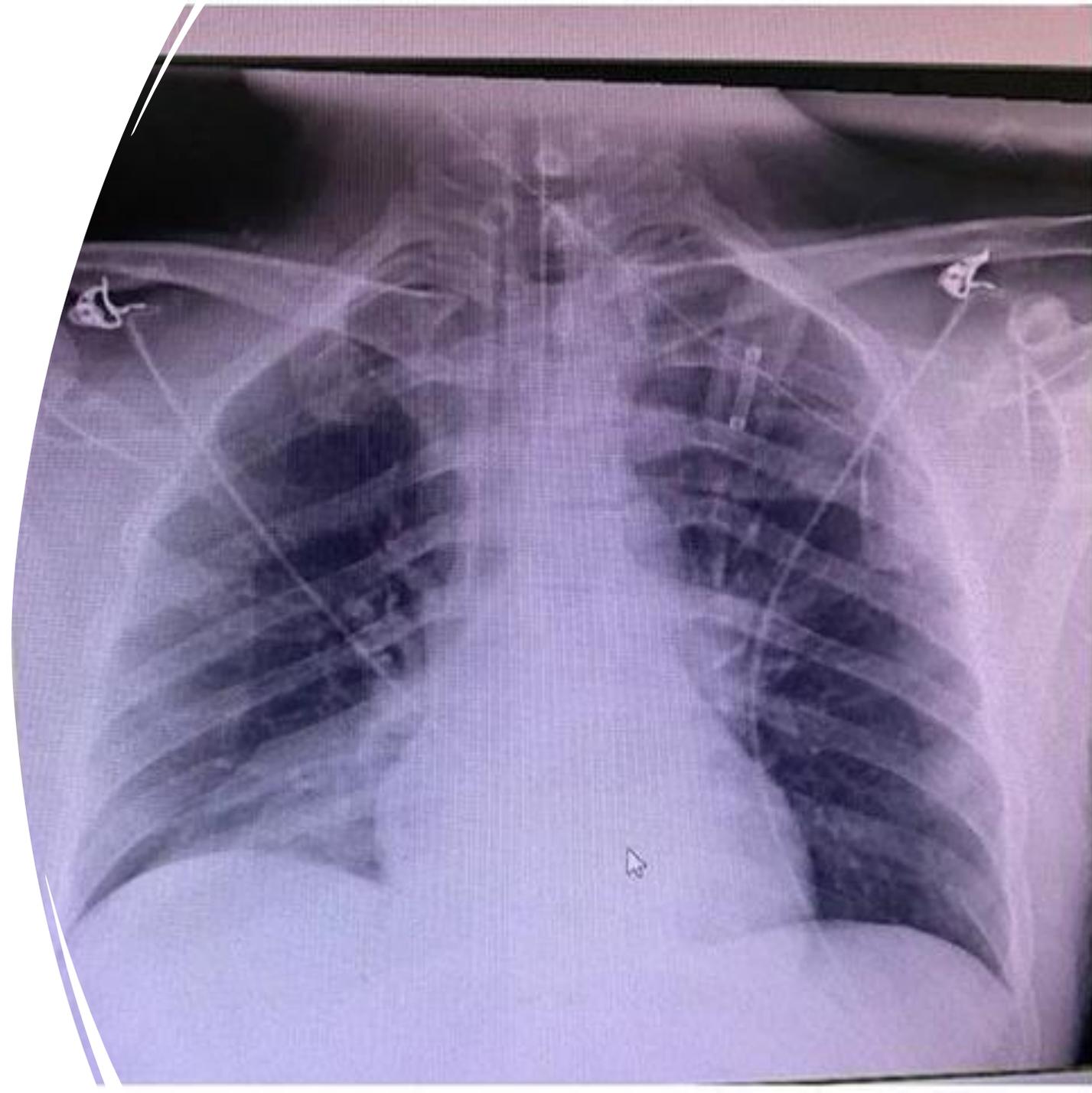
4 cases of all centre consensus on PMx

Infection common

## Q2: Would you transplant this organ

- 
- 28 M – DBD- Smoking Hx: 7.5py
  - Hypoxic brain injury
  - PO<sub>2</sub>: 47.4kPa (100% FiO<sub>2</sub>) – but declining to 22kPa on last gas
  - PCO<sub>2</sub>: 5.1kPa
  - CXR: Homogenous opacity medially in R lung base ?atelectasis
  - Creamy: secretions

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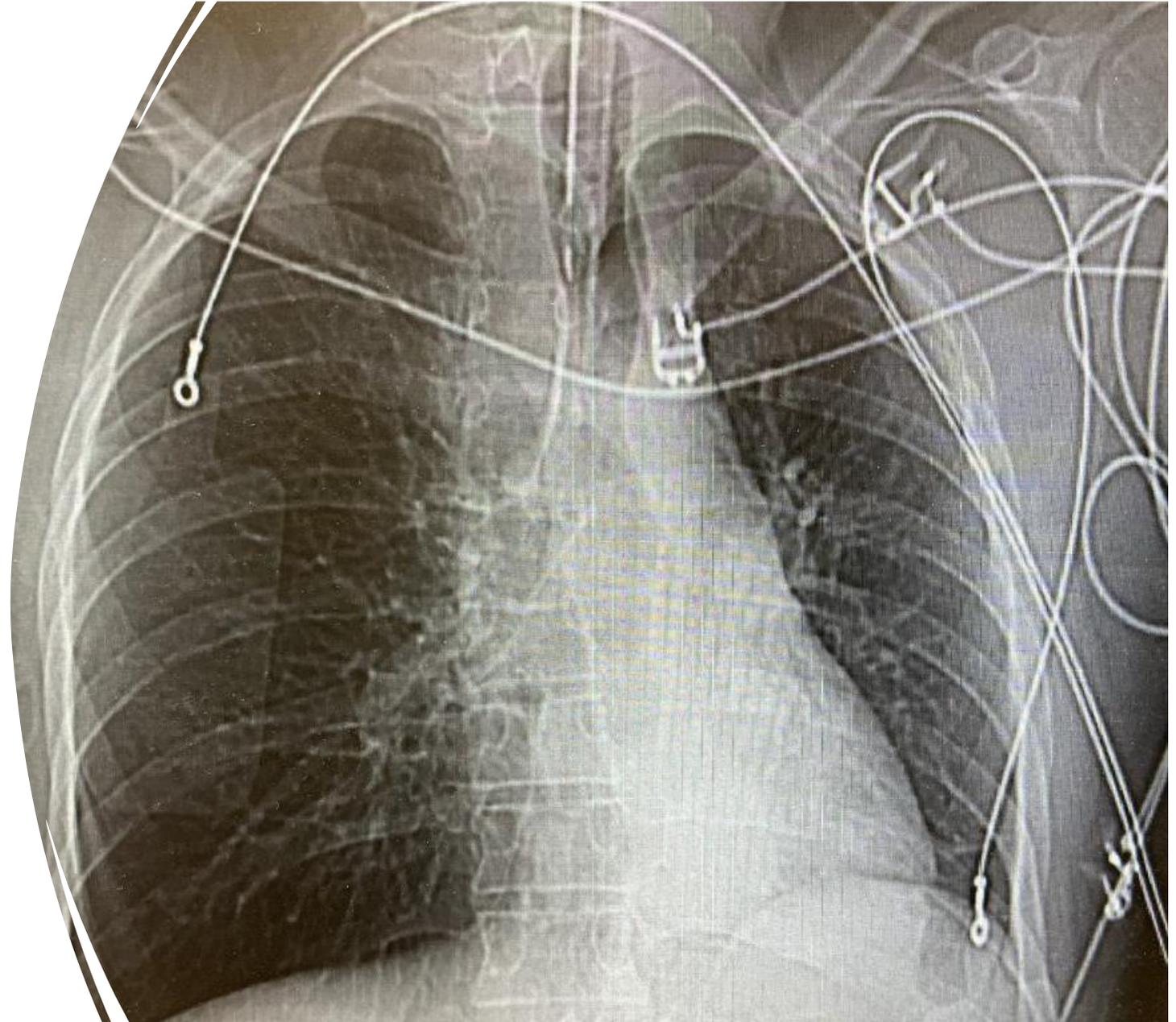
# Q1: Would you transplant this organ?

Mentimeter



## Q2: Would you transplant this organ

- 
- 40 M – DBD- Never smoker
  - Hypoxic brain injury - Hanging
  - PO<sub>2</sub>: 41.1 – 50.7kPa (100% FiO<sub>2</sub>)
  - PCO<sub>2</sub>: 6.0-6.2kPa
  - CT chest (48hrs prior to offer):  
left lower lobe  
consolidation/collapse and  
evidence of aspiration in main  
bronchi



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## Q2: Would you transplant this organ?

0	0
Yes	No

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# Summary

- National agreement on HQLD criteria
- ODS identified 22 HQLD/2.5month - > **Projection 105 HQLD declines/year**
  - Tip of the iceberg?
- 1/5 declined due to Logistics and 4/5 due to Donor related issues
- Opportunity to increase donor utilisation?
  - Shared learning through letters to centres and national MDTs?
  - Highlighting logistics at Trust and National level?