

## Overview of Living Donor Liver Transplant Activity

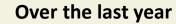
Rhiannon Taylor Statistics and Clinical Research, NHSBT

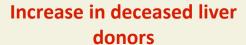


## **Summary of Activity**

# Deceased donors, transplants and transplant list







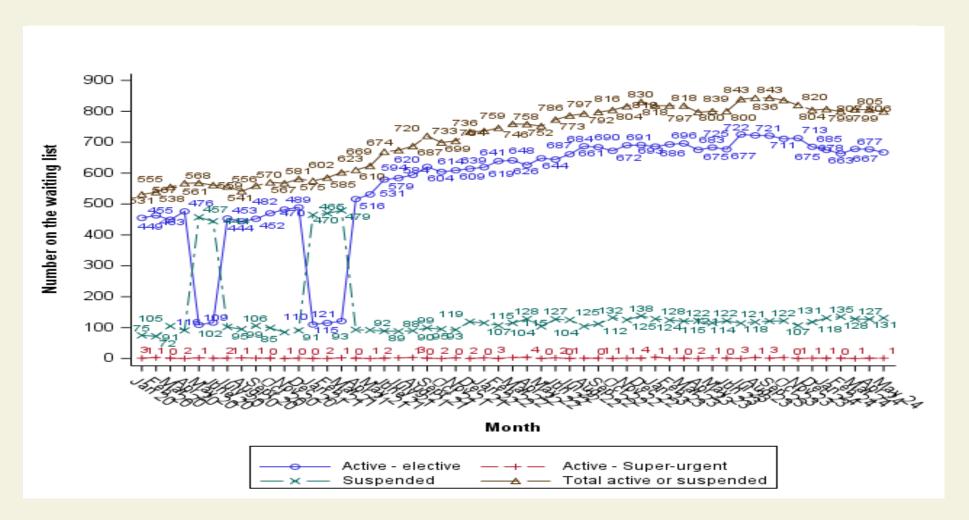
Slight decrease in number of transplants

Transplant list larger than 10 years ago



## **UK liver transplant list**

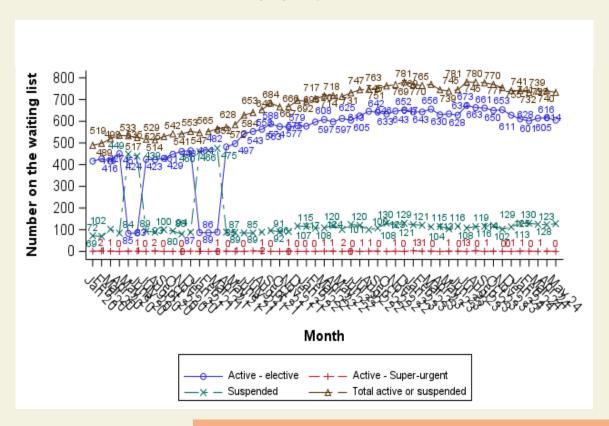




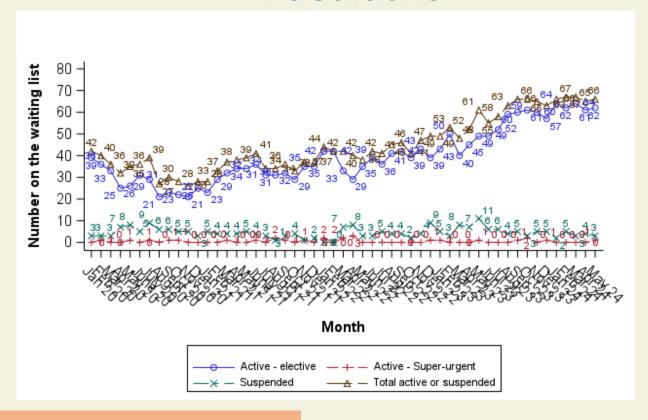
#### **UK liver transplant list**



#### **Adult**



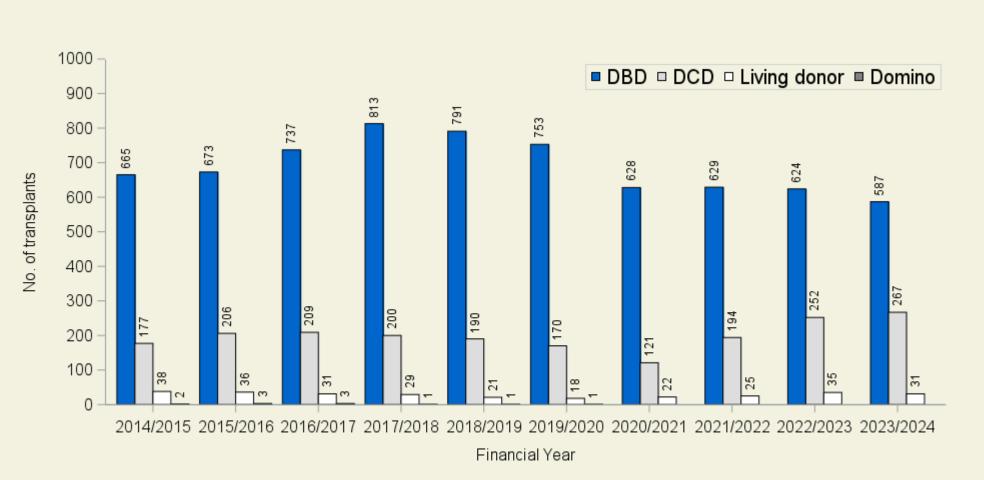
#### **Paediatric**



Increase in transplant list observed for both paediatric and adult patients

## **UK liver transplant activity**





Over the last year

**Decrease in DBD donors** 

**Increase in DCD donors** 

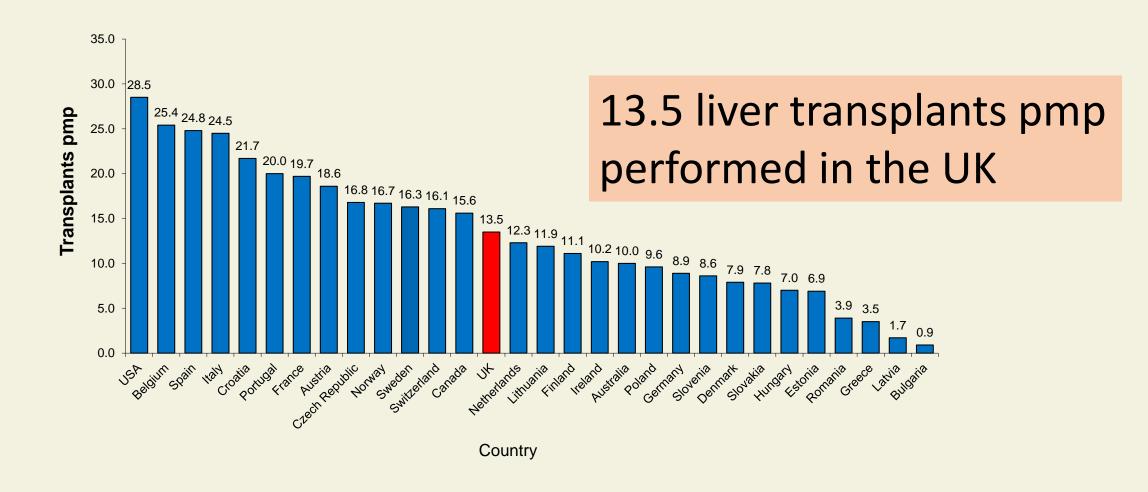
Living donation has remained static

Median: 30 per year

Range: 18 - 38

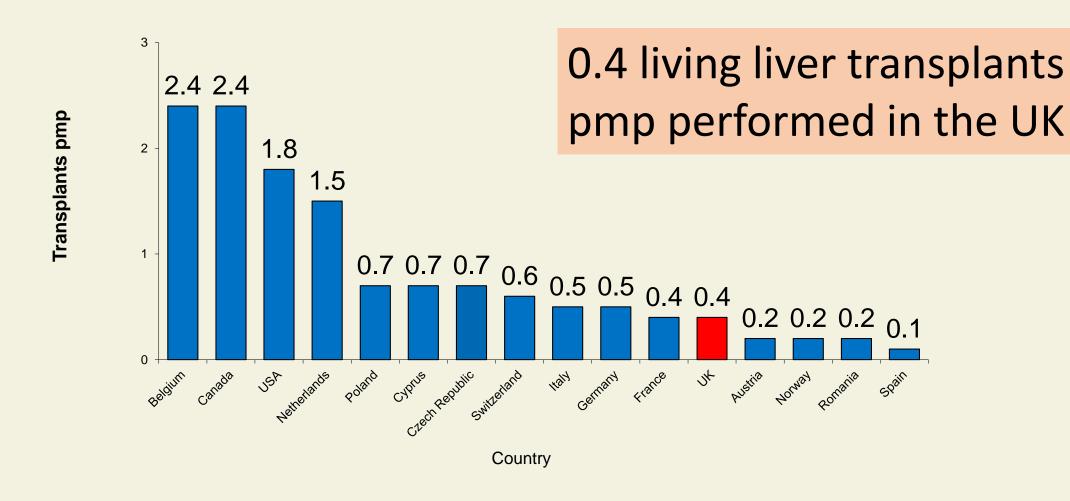
286 living donor transplants performed

#### International liver transplant rates, 2022



Source: Council of Europe - Transplant Newsletter

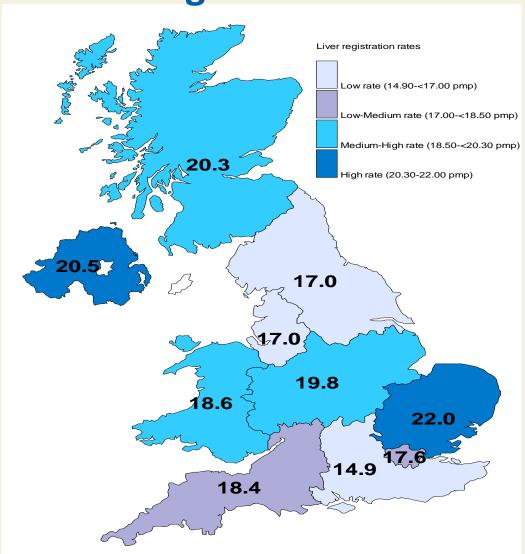
#### Living donor liver transplant rates, 2022



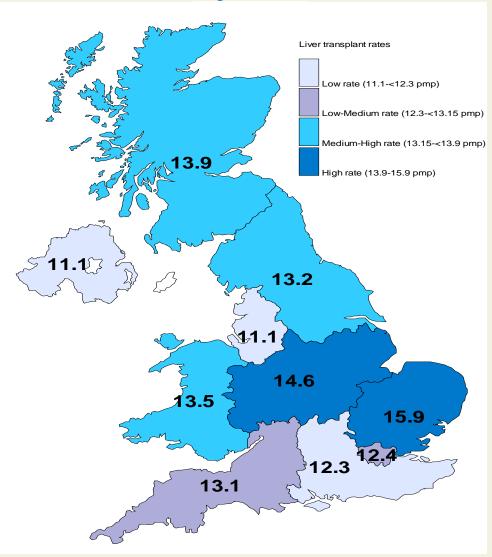
Source: Council of Europe – Transplant Newsletter

## Geographical variation - recipient

Registrations

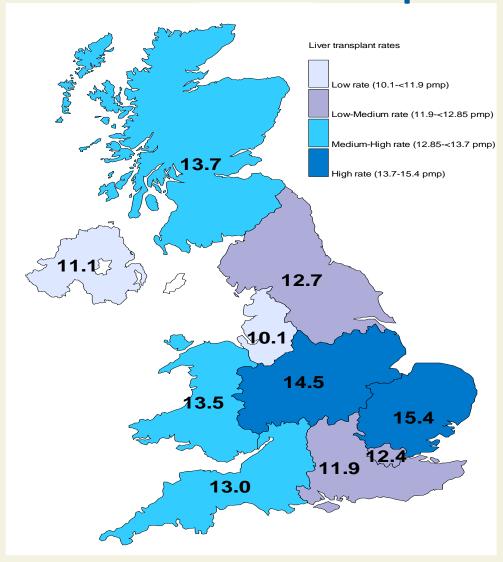


#### **Transplants**

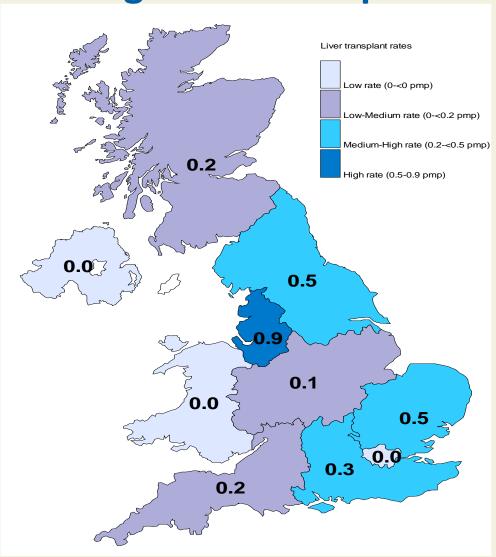


#### Geographical variation - recipient

#### **Deceased donor transplant**



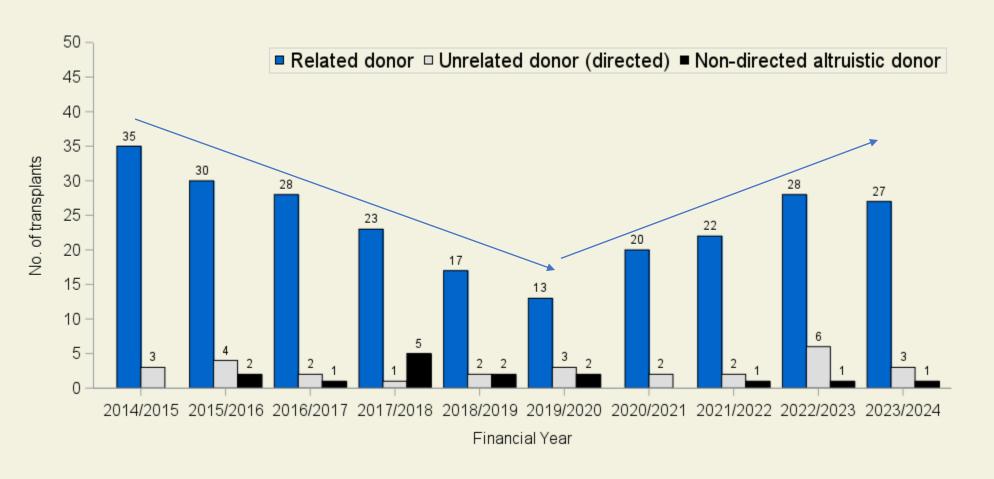
#### **Living donor transplants**



#### **UK** living liver transplant activity

- donor type





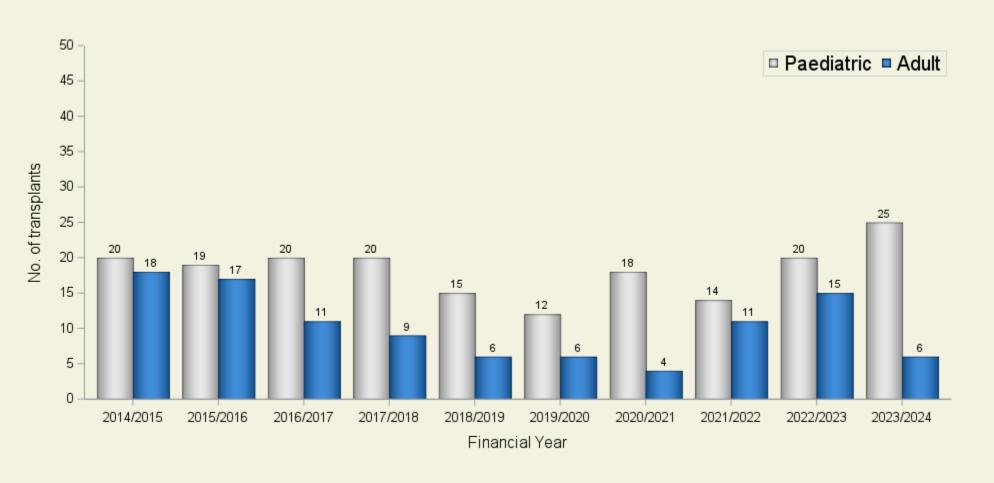
#### 286 living donor transplants

- 271 (95%) directed
   243 (90%) related
- 15 non-directed altruistic donors
  - 13 paediatric recipients

#### **UK living liver transplant activity**

- recipient age group



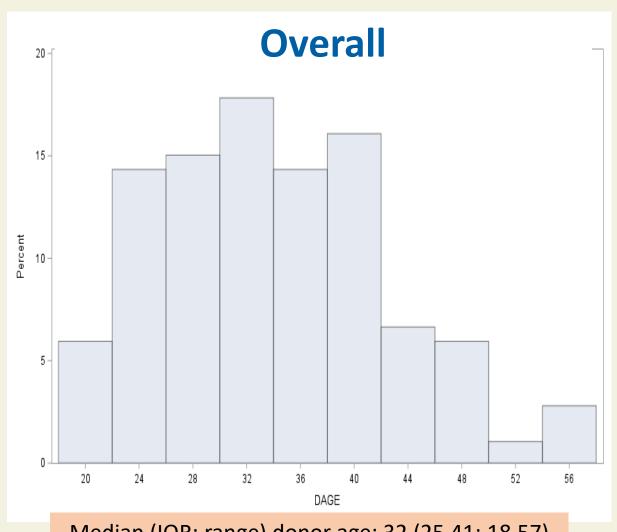


#### 286 living donor transplants

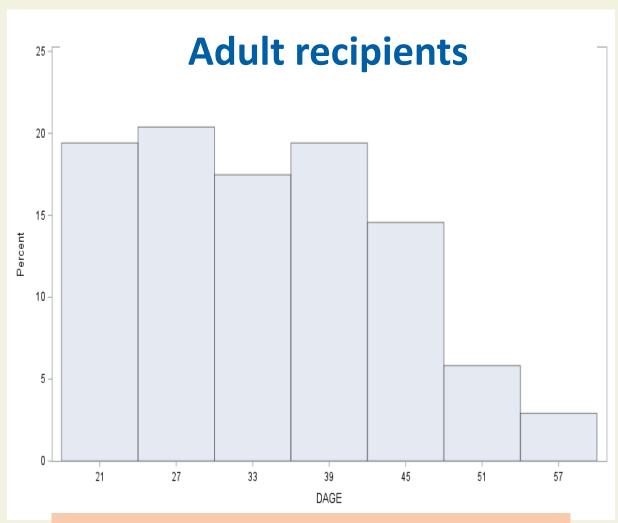
- 183 (64%) paediatric recipients
- 103 (36%) adult recipients
   Median: 10 per year
   Range: 4 18

## Living donor age





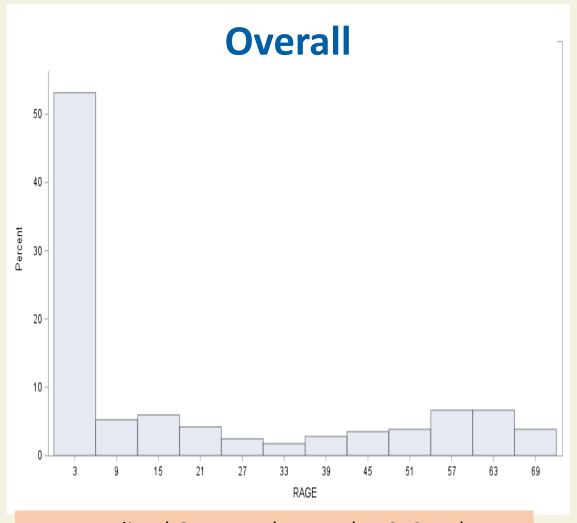
Median (IQR; range) donor age: 32 (25,41; 18,57)



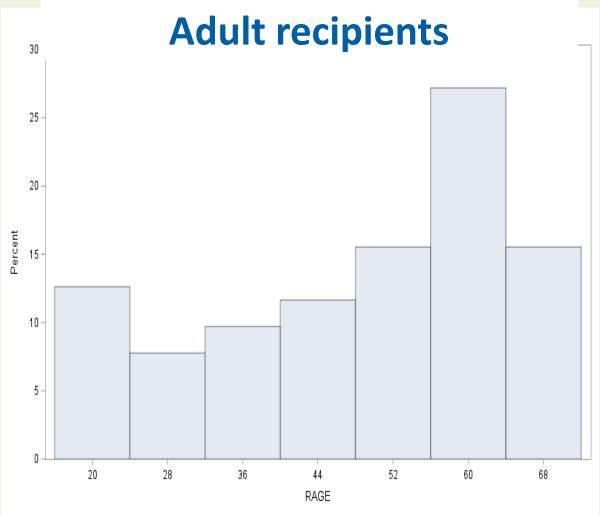
Median (IQR; range) donor age: 33 (27,39; 18,57)

#### Recipient age





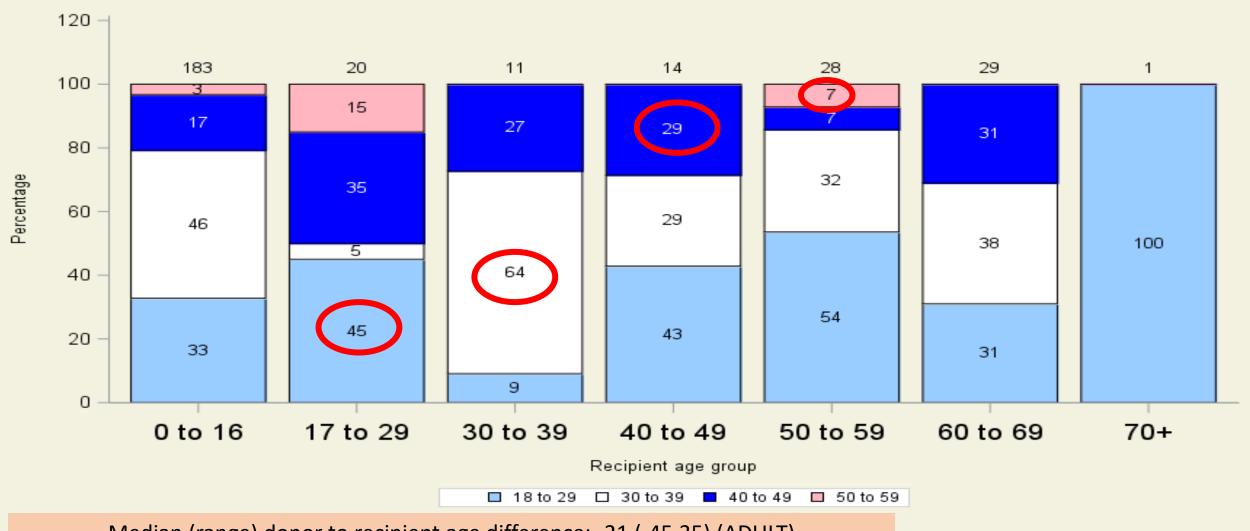
Median (IQR; range) age: 4 (1,40; 0, 71)



Median (IQR; range) age: 53 (36,60; 17,71)

## Donor to recipient age





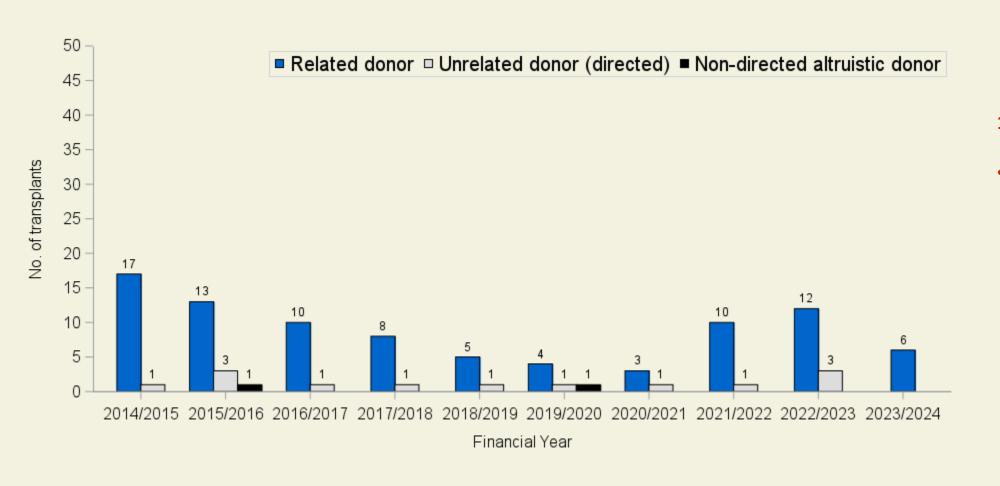
Median (range) donor to recipient age difference: -21 (-45,35) (ADULT) +31(9,56) (PAEDIATRIC)



## Adult recipient activity

## **UK adult living liver transplant activity**



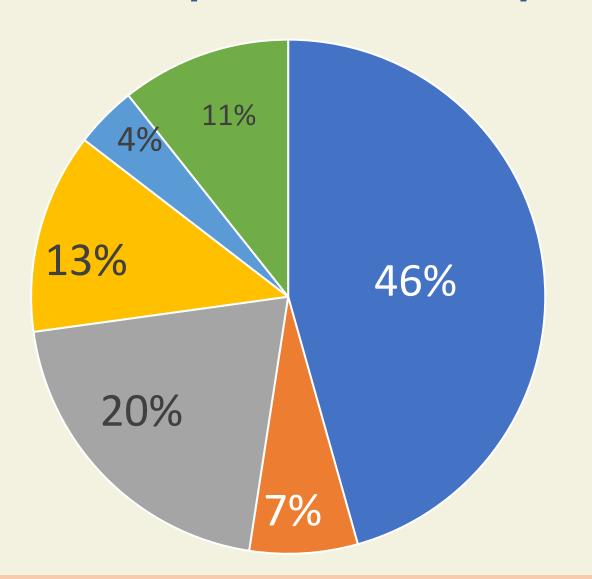


#### **103 living donor transplants**

101 (98%) directed
 88 (87%) related

#### Donor to recipient relationship

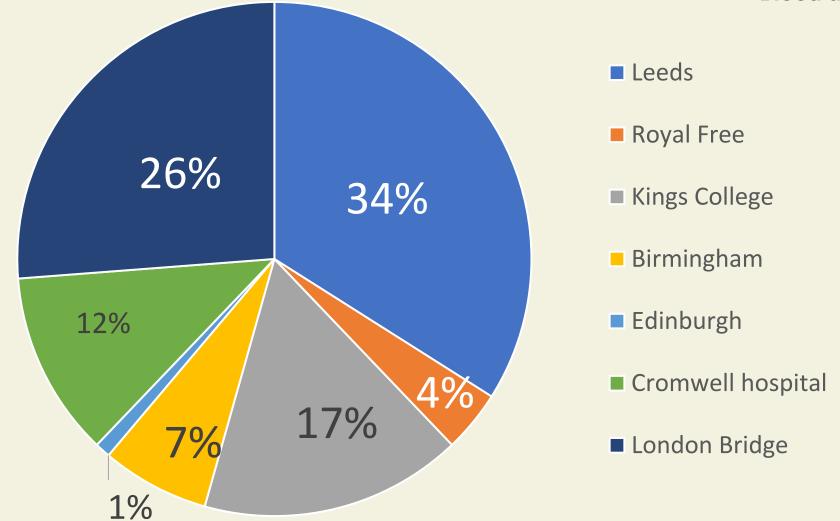




- Son or daughter
- Mother or father
- Sibling
- Other genetic relationship, please specify
- Spouse/ partner
- Other non-genetic relationship, please specify

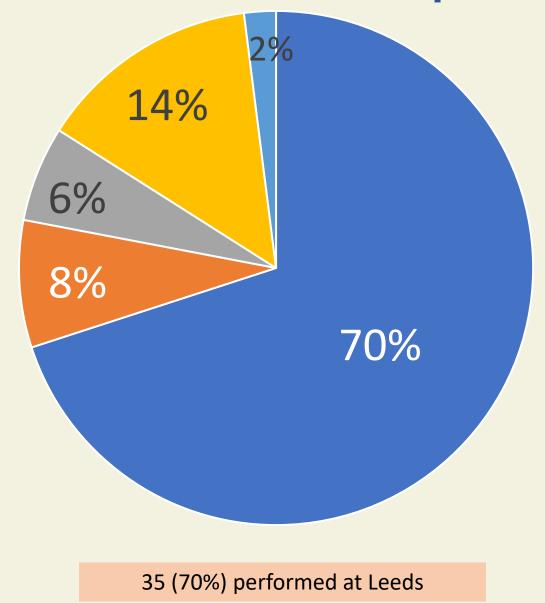
**Transplant centre** 





#### **Transplant centre for NHS Group 1**





Leeds

Royal Free

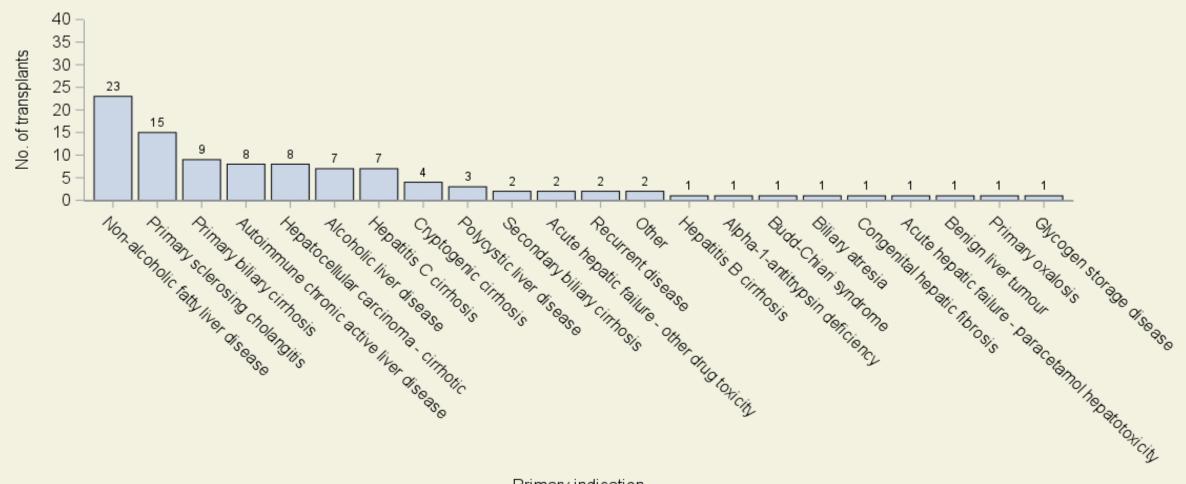
■ Kings College

Birmingham

Edinburgh

## **Primary indication**

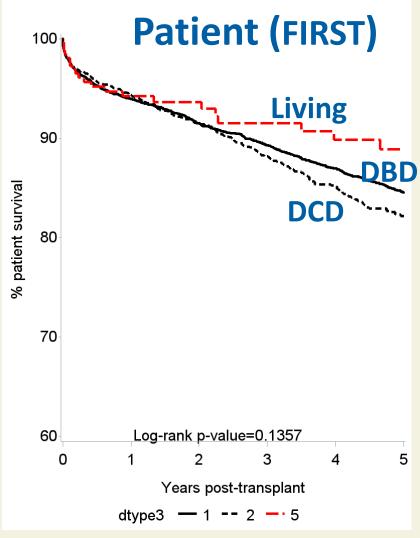


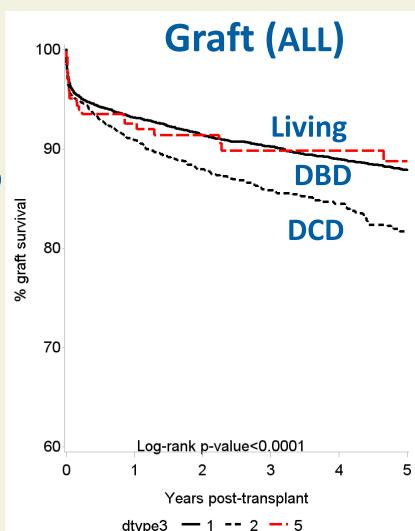


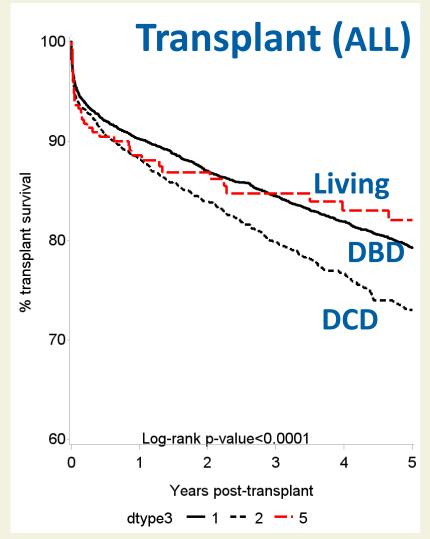
Primary indication

## 5 year survival post-transplant





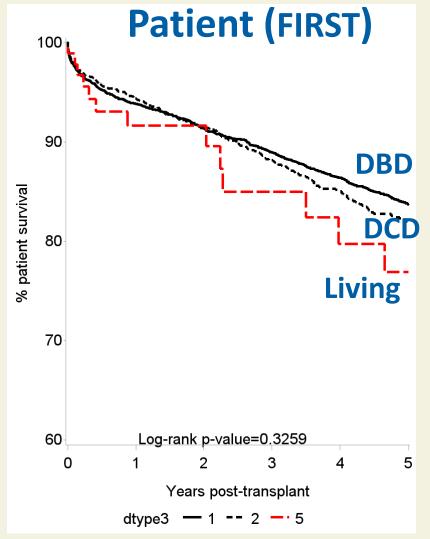


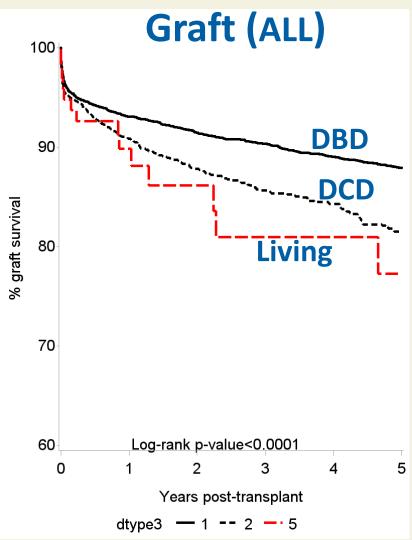


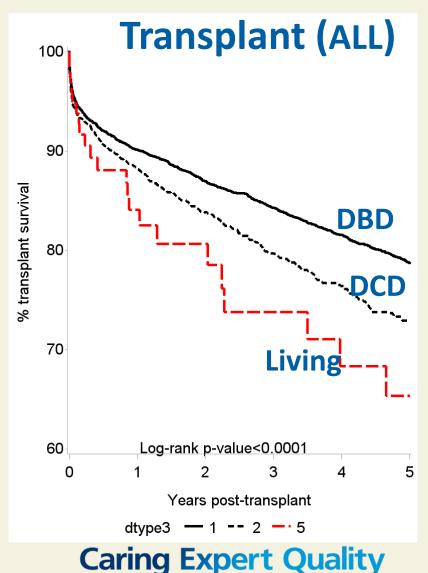
**Caring Expert Quality** 

## 5 year survival post-transplant - ADULT



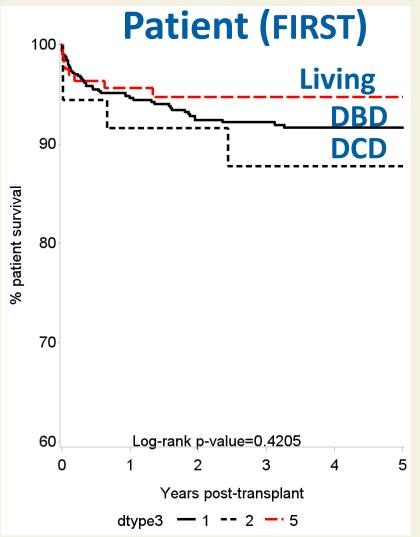


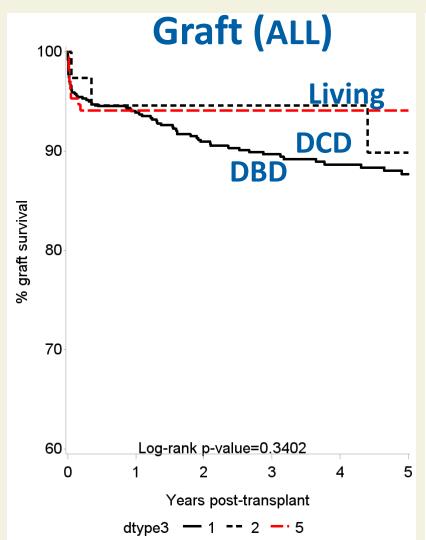


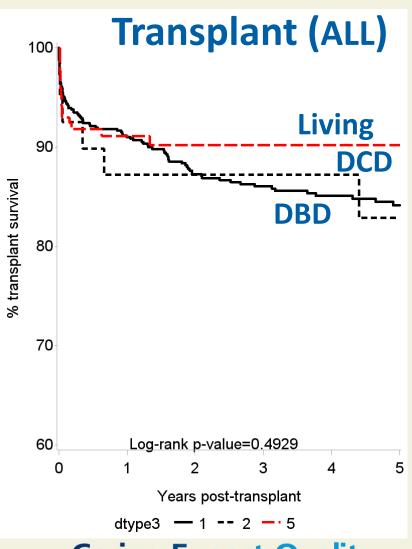


## 5 year survival post-transplant - PAEDIATRIC











## Non directed altruistic donors

#### Non directed altruistic donors (N=15)

- 13 (87%) performed at Leeds, 1 (7%) at Kings and 1 (7%) at Birmingham
- 12 (80%) left lateral segment, 3 (20%) right lobes
- 13 (87%) elective, 2 (13%) super-urgent
- 13 paediatric (age range 0 to 12) and 2 adult recipients (41 and 71)
- 9 blood group identical and 6 compatible
- 8 recipients resident in North East and Yorkshire, 4 North West, 1 London and 1 Midlands
- Median (range) time on the elective list: 164 days (7, 586)

#### Non directed altruistic donors (N=15)

- 10 patients alive with a functioning graft
- 5 patients relisted
  - 2 patients retransplanted (both 6 days post-transplant)
  - 2 patients removed from the list and alive with a functioning graft
  - 1 recipient death at 488 days post-transplant



## **Outcome of donors**

**UK TRANSPLANT REGISTRY** 



# Living Liver Donor Pre- and Post-operative Assessment

#### Directions for completion

- This four-page form should be completed for livers retrieved from living donors. Sections 1 and 2 should be completed at the time of the donor operation, and the retrieving surgeon should then sign it in the appropriate place, in order to comply with the Human Tissue Act (2004), the Human Tissue (Scotland) Act (2006) and the Quality and Safety of Organs Intended for Transplantation Regulations (2012), and a copy should then be faxed to ODT Hub: Information Services using the direct fax line 0117 975 7570 within 7 days of the retrieval taking place.
- 2 Sections 3-6 should be completed at the time of discharge of the donor.

NHSBT notified of transplant within 7 days of retrieval

• LD annual follow-up form

**UK TRANSPLANT REGISTRY** 



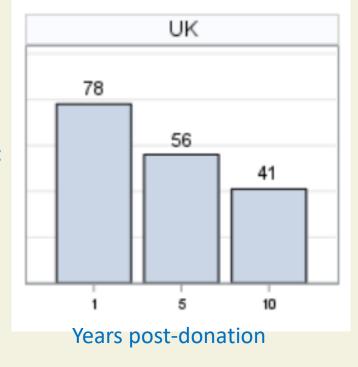
#### Kidney LIVING DONOR ASSESSMENT FOLLOW-UP

Where the donor is being followed up by their GP and not the transplant unit, the transplant unit is required to liaise with the GP in the completion of this form and its return to NHS Blood and Transplant.

Follow-up information for living kidney donors is requested by NHS Blood and Transplant one, two and five years after donation and then every five years thereafter.

#### Includes mortality, clinical data

Follow-up
Return rates (%):



• LD annual follow-up form

• Linkage with NHS SPINE for mortality data

• LD annual follow-up form

Linkage with NHS SPINE for mortal

• Donor Reported Outcome Measures - **DROMs** 

UK TRANSPLANT REGISTRY

Blood and Transplant

#### DONOR REPORTED OUTCOME MEASURES (DROMS) SURVEY

DONOR REPORTED OUTCOME MEASURES (DROMS) SURVEY						
Dear Donor,						
We would be grateful if you could complete this short survey to help us understand more about your donation experience. Your information will be held by NHS Blood and Transplant in the UK Living Donor Registry to help monitor the wellbeing of kidney donors over time and also inform people who are considering donating a kidney about what to expect.  Thank you for your support.						
ABOUT YOUR DONATION (Please answer all questions unless indicated)	Section 2					
1. How would you rate your health on a scale of 1-10 where 1 is "very poor" and 10 is "excellent"?						
Please circle: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10						
2. How would you rate your need to sleep on a scale of 1-10 where 1 is "almost all the time" and 10 is "as much as I expect":	2. How would you rate your need to sleep on a scale of 1-10 where 1 is "almost all the time" and 10 is "as much as I expect"?					
Please circle: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10						
3. How would you rate the way you feel about your eating on a scale of 1-10 where 1 is "poor" and 10 is "great"?						
Please circle: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10						
4. Do you feel that your health has had a negative impact on your family or social life on a scale of 1-10 where 1 is "significant effect"						
and 10 is "not at all"?  Please circle: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10  Don't know Not applicable						
5. How positive are you about your future on a scale of 1-10 where 1 is "not at all" and 10 is "very positive"?						
Please circle: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10						
6. Overall, what do people in your life think of you related to your decision to donate, on a scale of 1-10 where 1 is "they think very						
poorly of me" and 10 is "they think very highly of me"?  Please circle: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10  Don't know  Not applicable						
7. What is your view of your body image on a scale of 1-10 where 1 is "poor" and 10 is "excellent"?						
Please circle: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10						
8. What is your partner's perception (if applicable) of your body image on a scale of 1-10 where 1 is "poor" and 10 is "excellent"?						
Please circle: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10						

• LD annual follow-up form

Linkage with NHS SPINE for mo

UK TRANSPLANT REGISTRY

Blood and Transplant

#### DONOR REPORTED EXPERIENCE MEASURES (DREMS) SURVEY

Please return data to ODT Hub: Information Services along with Kidney Living Donor Assessment Follow-Up (FRM4191) form as appropriate. Data will be collected at 1 year post donation.

Donor Reported Outcome Measures - DROMS

• Donor Reported Experience Measures - **DREMs** 

1. Wa	. FEEDBACK  Is the donation process as you expected?  (res No Do Do, please comment on why the process was not as you expected it to be				Section (				
2. 0	erall, how would you rate the care and support you received from your care team at	t each of the foll	owing s	tages?					
a)	Pre-donation		_		_				
	Please circle: Very poor 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 Excellent	Don't know		Not applicable					
b)	Assessment Please circle: Very poor 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 Excellent	Don't know		Not applicable					
c)	Hospital stays Please circle: Very poor 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 Excellent	Don't know		Not applicable					
d)	Within 0-3 months of donation Please circle: Very poor 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 Excellent	Don't know	П	Not applicable	П				
e)	Between 4-12 months post-donation Please circle: Very poor 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 Excellent	Don't know	П	Not applicable	П				
3 ⊔	w would you rate your overall donation experience?		_						
J. 11	Please circle: Very poor 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 Excellent	Don't know		Not applicable					
4. Do	4. Do you have any suggestions that could have improved your living donation experience?								
1									

#### **Development of DROMs and DREMs**

Forms developed by members of the donor safety and welfare workstream on behalf of the LDKT 2020 Strategy Implementation Group

	Donor Reported Outcome Measures (DROMs)	Donor Reported Experience Measures (DREMs)
Development by	LDKT Strategy Implementation Sub-group, Vassilios Papalois, Maria Thedosopoulou	LDKT Strategy Implementation Sub-group, Janine Hawkins, David Wellsted
Forms live	2019	2020
Collected at	Pre-donation, 1 and 5 years post-donation	1 year post-donation

#### **DROMs and DREMs data collection**

- Paper forms
- Rely on centres to give to donors to complete, with forms returned via the centres
- Completed forms entered on to a spreadsheet by OTDT Hub Information Services and linked to UK Transplant Registry by Statistics team
- Returns: DROMs at 1 year 371 (17%)

DREMs - 486 (23%)

#### **Online Resources**

#### **Online resources**



#### ODT CLINICAL

Home Deceased Living donation Retrieval Transplantation Statistics and reports

Home / Living donation / UK Living Donor Liver Transplantation Network

#### UK Living Donor Liver Transplantation Network

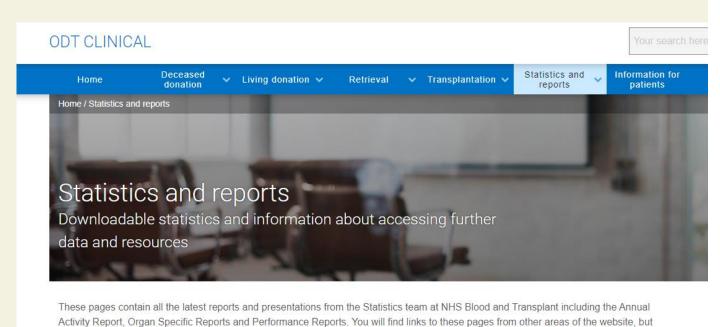
The UK Living Donor Liver Transplantation (LDLT) Network was established to support the expansion of the UK programme and equity of access to living donor liver transplantation for both adults and children, across all four UK countries.

The Network aims to engage all members of the multi-disciplinary teams, in transplant and non-transplant (referring) centres, to promote best practice in living donor liver transplantation.

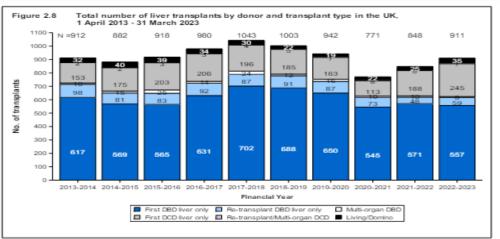
You can access the Terms of Reference (ToR) here (PDF 242KB)

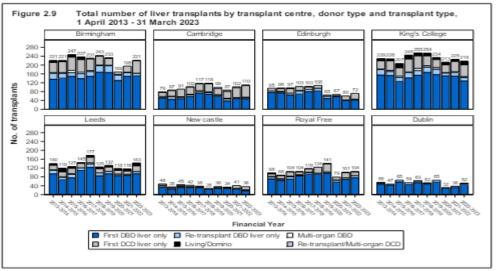
#### Online resources – Reports





all reports are collated here for ease of reference. We also retain archived reports so that historic data are available.





https://www.odt.nhs.uk/statistics-and-reports/

## **Acknowledgements**



- Statistics and Clinical Research
  - Maria Jacobs
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  - Rhiannon Wallis
- OTDT Hub Information Services
  - Matt Secker
- Lisa Burnapp

Transplant unit and other hospital staff, Specialist Nurses for Organ Donation, and OTDT HUB team for provision of data to the UK Transplant Registry





