NHS BLOOD & TRANSPLANT

RESEARCH, INNOVATION AND NOVEL TECHNOLOGIES ADVISORY GROUP

RESEARCH CONSENT/AUTHORISATION RATES

SUMMARY

INTRODUCTION

- 1 This paper summarises how generic research consent/authorisation rates have changed over the last ten years in the UK.
- 2 Families can give generic consent/authorisation for research use of any organs that are found to be unsuitable for transplantation. They are only asked this question if consent/authorisation for transplantation has been ascertained. No organ specific questions are asked regarding research consent/authorisation.

DATA AND METHODS

- 3 Research consent/authorisation rates were analysed for actual organ donors (where at least one organ was retrieved for the purposes of transplantation) in the UK from 1 January 2011 to 31 July 2020.
- 4 When considering organ specific consent/authorisation rates, donors with contraindications for specific organs were excluded where the data is available on the UK Transplant Registry.

CONCLUSION

The overall UK consent/authorisation rate for research was 83% in 2011 and has risen to 90% in the seven months from January to July 2020.

Consent/authorisation rates in 2020 so far have varied by nation from Scotland at 79% to Northern Ireland at 92%.

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October 2020

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INTRODUCTION

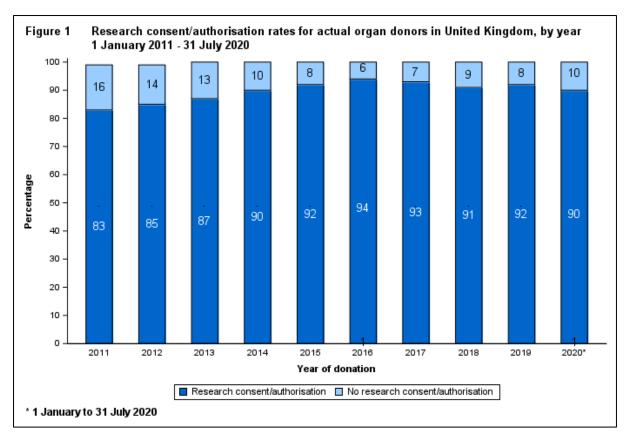
- 1 This paper summarises how generic research consent/authorisation rates have changed over the last ten years in the UK.
- 2 Families can give generic consent/authorisation for research use of any organs that are found to be unsuitable for transplantation. They are only asked this question if consent/authorisation for transplantation has been ascertained. No organ specific questions are asked regarding research consent/authorisation.

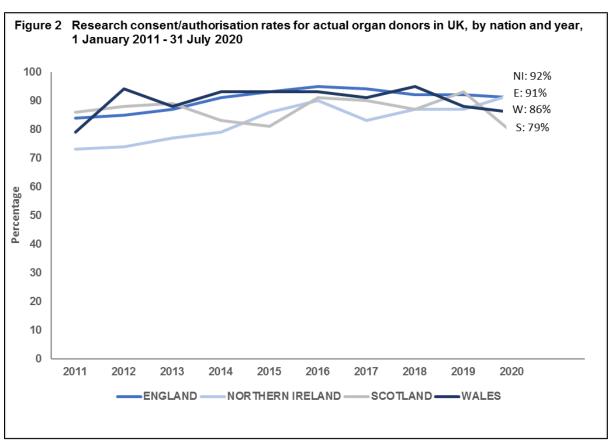
DATA AND METHODS

- 3 Research consent/authorisation rates were analysed for actual organ donors (where at least one organ was retrieved for the purposes of transplantation) in the UK from 1 January 2011 to 31 July 2020.
- 4 When considering organ-specific consent/authorisation rates, donors with the following organ-specific contraindications for transplantation were excluded:
 - Intestinal: all DCD donors, DBD donors aged ≥56 years or weighing ≥80kg excluded
 - Pancreas and islets: DBD donors aged ≥65 years, DCD donors aged ≥56 years, all donors with BMI >40kg/m², all donors with past history of diabetes excluded
 - Heart: DBD and DCD donors aged ≥65 years or died of myocardial infarction excluded.
 - Lung: DBD donors aged ≥70 years and who were a past smoker, or DBD donors aged ≥75 years and were not a past smoker, DCD donors aged ≥65 years and were a past smoker, or DCD donors aged ≥75 years and were not a past smoker.

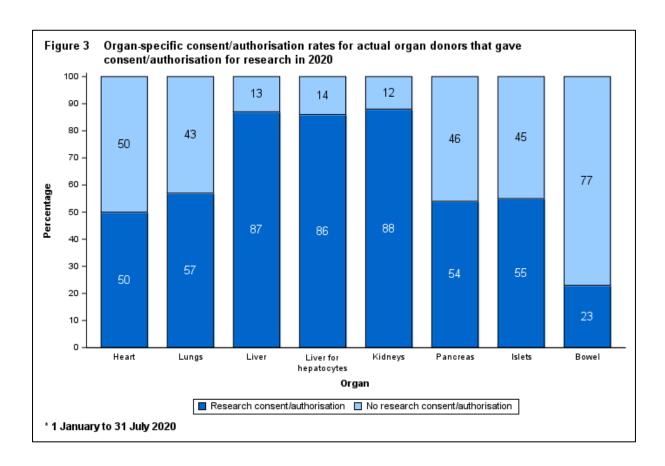
RESULTS

- Figure 1 illustrates that overall UK research consent/authorisation rates for solid organ donors increased from 83% in 2011 and has fluctuated above 90% since 2014. The UK generic consent/authorisation rate in 2020 for data up to 31 July was 90%. This shows that a large majority of donors that donate at least one solid organ also have consent/authorisation for research.
- Figure 2 breaks down research/authorisation rates for actual organ donors by nation and year. Consent/authorisation rates in 2020 so far have varied by nation from Scotland at 79% to Northern Ireland at 92%. Rates for Scotland, Northern Ireland and Wales fluctuate more than for England as there are fewer donors.

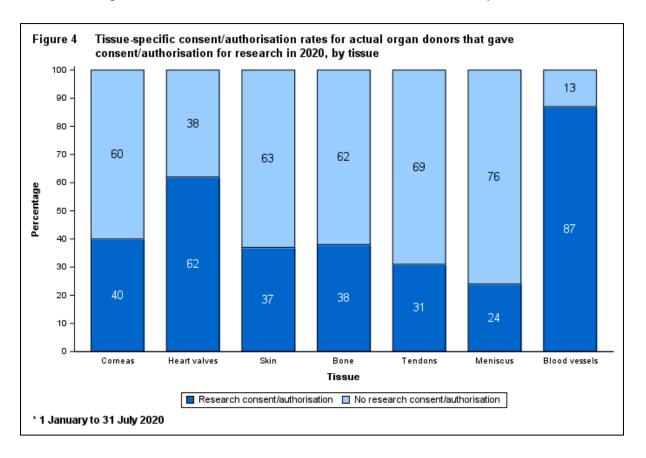




- 7 Figures 3 and 4 show consent/authorisation rates broken down by organ and tissue, respectively. These rates are shown for actual solid organ donors from January to July 2020 for which overall generic consent/authorisation for research had been ascertained. However, please note that when discussing organ/tissue-specific consent/authorisation, SNODs ask these questions in relation to donation for transplantation as opposed to research.
- 8 A list of organ-specific donor contraindications is provided in the **Appendix**. Where the associated data were available, donors with organ-specific contraindications have been excluded form **Figure 3**. However, many cases could not be identified using UK Transplant Registry data hence consent/authorisation rates may appear lower in **Figure 3** than in reality.
- 9 **Figure 3** shows that kidneys (88%) and liver (87%) gained the highest rates of consent/authorisation for actual donors with consent/authorisation for research.



10 **Figure 4** illustrates that tissues generally have lower consent/authorisation rates than solid organs. Please note that this cohort excludes tissue-only donors.



CONCLUSION

11 The overall UK consent/authorisation rate for research was 83% in 2011 and has risen to 90% for the seven months from January to July 2020.

Consent/authorisation rates in 2020 so far have varied by nation from Scotland at 79% to Northern Ireland at 92%.

Mark Jones Statistics and Clinical Studies October 2020

APPENDIX – Contraindications to organ donation as at October 2019

| Organ/contraindications | Excluded from Figure 3 (Y/N) |
|---|------------------------------|
| Liver | |
| Acute hepatitis of viral, drug or other known aetiology | N |
| Serum AST or ALT >10000 IU/L (if of liver origin) | N |
| Cirrhosis | N |
| Portal vein thrombosis | N |
| Metabolic diseases that would be of harm to the recipient and not treatable (such as haemophilia A and B, inborn errors of metabolism such as axaluria, tyrosinaemia) | N |
| Idiopathic Thrombocytopenia (ITP) (relative contraindication) | N |
| Bowel | |
| DCD donors | Υ |
| DBD donor age ≥56 years of age (on or after their 56th birthday) or weight of 80kg or more | Y |
| Underlying chronic intestinal disease | N |
| Intra-abdominal sepsis | N |
| For abdominal wall/fascia donation: Extensive surgical scars/damage to the abdominal wall/fascia | N |
| Pancreas | |
| Insulin dependent diabetes (excluding ICU associated insulin requirement | Y1 |
| Non-insulin dependent diabetes (Type 2) | Y1 |
| Any history of pancreatic malignancy | N |
| Donor BMI >40kg/m2 | Y |
| DBD donor age ≥66 years of age (prior to 1/10/2020) DBD donor age ≥61 years of age (from 1/10/2020) | Y |
| DCD donor age ≥56 years of age | Y |
| Heart | |
| Urgent: | |
| Age of 65 years or more (on or after their 65th birthday) | Υ2 |
| Non-urgent: | |
| Documented coronary artery disease (e.g. confirmed history of MI, CABG or percutaneous stenting) | Υ3 |
| Median sternotomy for cardiac surgery | N |
| LVEF ≤30% on more than one occasion | N |
| Massive inotropic or pressor support, but only if adequate circulating volume has been confirmed by monitoring | N |
| Myocarditis | N |
| Lyme disease | N |

¹ Data collected indicates past diabetes and not the type of diabetes ² Included for all heart donors ³ Only available where cause of death is myocardial infarction (MI)

APPENDIX – Contraindications to organ donation as at October 2019

| Organ/contraindications | Excluded from Figure 3 (Y/N) |
|---|------------------------------|
| Lungs | |
| DCD donor aged ≥65 years (on or after their 65th birthday) unless donor is a lifetime non-smoker, or has not smoked for 10 years or more, in which case donor age ≥75 years (on or after their 75th birthday) | Υ4 |
| DBD donor aged ≥70 years (on or after their 70th birthday) unless donor is a lifetime non-smoker, or has not smoked for 10 years or more, in which case donor age ≥75 years (on or after their 75th birthday) | Υ ⁴ |
| Previous intra-thoracic malignancy | N |
| Significant, chronic destructive or suppurative lung disease (those with controlled asthma are suitable donors) | N |
| Chest X-ray evidence of major pulmunary consolidation | N |
| Influenza with demonstrable lower respiratory tract infection | N |
| DCD Exclusion Criteria | |
| Patients aged >75 unless they are dying of a neurological condition | N |
| Patients aged 70-75 unless they are of either a neurological condition or respiratory disease | N |
| Patients aged >70 dependent on RRT | N |
| Patients aged >70 with CKD 3b or greater | N |
| Patients aged >40 with a current clinical diagnosis of multi organ failure *** | Υ ⁵ |
| Patients with a current clinical diagnosis of Septicaemia or Sepsis with severe multi organ dysfunction *** | Υ ⁶ |
| Patients with previous cancer in the last 5 years (except Primary CNS cancer, localised prostate, thyroid, in-situ cervical cancer or non-melanotic skin cancers) | N |
| ***If a potentially transplantable organ is unaffected by MOF or Sepsis the patient should not be excluded and organ offering should be undertaken as per age related offering guidance | |

NOTES

⁴Data collected only indicates past smoker
⁵ Only have cause of death not diagnosis
⁶ Only have cause of death not diagnosis and septicaemia not sepsis