

ORGAN AND TISSUE DONATION AND TRANSPLANTATION IN SCOTLAND

FINANCIAL YEAR 01/04/2019 – 31/03/2020 = 1 ORGAN DONOR

Organ donation from children under 18 years remains a rare event, with less than 50 donors across the UK. In 2019-20, 7 paediatrics/neonates met criteria for organ donation in comparison to 50 actual donors across the UK (32 DBD, 18 DCD). Of the 7 patients who met criteria, Scotland had one proceeding donor resulting in two successful transplants. Another family authorised donation to proceed, but unfortunately the child became too unstable to proceed to donation. Of the other 5, we had 2 family declines, 1 PF decline and 2 screened out.

Many of our patients also require tissue for transplant and a total of 7 aortic valves were issued from Scottish National Blood Transfusion Service Tissue bank to the Royal Hospital for Children (Glasgow) between April 2019 and March 2020, of which 3 were used and 4 were unused and returned. A total of 6 pulmonary valves were also issued to RHC (Glasgow) between April 2019 and March 2020, of which 4 were used and 2 were unused and returned. The returned valves will have been taken back into the tissue bank and made available to other recipients.

In summary, seven children required a donated valve to improve their chances of survival or an provide improved quality of life. A further six children were identified as possibly needing a heart valve; however this was found not to be required clinically during their cardiac operation. Many donor families who donate heart valves are aware that there is a high chance the valves may be used in children and find great comfort in knowing their loved one has contributed in saving or improving the life of a child.

SNBTS received 7 paediatric/neonatal referrals for tissues, but no donors proceeded.

CURRENT FINANCIAL YEAR 01/04/2020 – 30/09/2020 = 0 ORGAN DONORS

To date for this financial year 2 paediatrics/neonates met criteria for organ donation in comparison to 7 in the same time period last year. The PF declined 1 case and 1 other was screened out by transplanting centre. The UK has progressed 17 actual donors (7DBD, 10DCD) in this timeframe, in comparison to 11 (7DBD/4DCD) in 2019.

SNBTS received 3 referrals for tissues, one referral is still active, no donors to date.

Despite the Covid pandemic Scotland has made an incredible impact in terms of paediatric transplant from adult donors as follows since April 2020:

- 4 paediatric cardiac recipients age 1-12yrs
- 6 paediatric liver recipients age 1-10yrs
- 1 paediatric live liver recipient using additional vessels from adult donor
- 2 paediatric kidney recipients age 12, 15yrs

Scottish Transplant waiting list numbers are from the waiting list as at the end of February 2020 as COVID has resulted in major fluctuation in current transplant lists since then.

| Organ | Number on waiting list |
|--------|------------------------|
| Kidney | 5 |
| Heart | 2 |
| Liver | 4 |

OTHER INFORMATION: THREE YEARS OF NEONATAL DATA HELD IN SCOTLAND

Data presented at the National Organ Donation Committee.

Neonatal PDA Scotland 2016-2020

8 Level 3 NICU

80-92% of cases each year from RHC Glasgow and Edinburgh (embedded SNOD in these units)

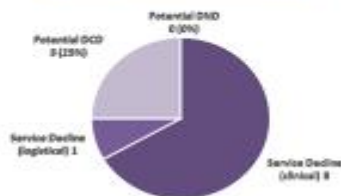
1 proceeding donor

Lessons Learned

- Neonatal potential established
- Good engagement with NICUs but referral rate not increasing
- No DND cases referred
- PF refusal x 1
- ?Rule out NEC



Outcome of Referred Cases



Outcome of Cases Not Referred

