Paediatric donation
1 April 2015 to 31 March 2017
Paediatric patients (aged 15 years or under)

2015/16 – 2016/17
Flow of paediatric patients through donation pathway (PDA data)

- Paediatric patients (age<16 years)
  - Audited deaths in 2015/16 YTD (n=1151)
    - Met referral criteria (n=261, 23%)
      - Eligible donor (n=197, 75%)
        - Family approached (n=119, 60%)
          - Consent/ authorisation given (n=50, 42%)
            - Actual solid organ donors (n=38, 76%)
  - Audited deaths in 2016/17 YTD (n=1028)
    - Met referral criteria (n=261, 25%)
      - Eligible donor (n=223, 85%)
        - Family approached (n=109, 49%)
          - Consent/ authorisation given (n=43, 39%)
            - Actual solid organ donors (n=34, 79%)
Units of death for patients meeting referral criteria

- **Paediatric ICU**: 243
- **Other units**: 16 (2015-2016) vs. 18 (2016-2017)

Number of patients meeting referral criteria:
- 1 April 2015 - 31 March 2016
- 1 April 2016 - 31 March 2017

Legend:
- Red: 1 April 2015 - 31 March 2016
- Blue: 1 April 2016 - 31 March 2017
Units of death for eligible donors


1 April 2015 - 31 March 2016
1 April 2016 - 31 March 2017
Paediatric patients (aged 15 years or under)

2016/17
Unit where patient died, April 2016 – March 2017

- **Paediatric ICU**
  - Audited deaths: 515
  - Eligible donors proceeding to organ donation: 239
  - Eligible donors whose families consented to organ donation: 101
  - Eligible donors whose families were approached: 40
  - Eligible donors proceeding to organ donation: 32

- **A+E**
  - Audited deaths: 462
  - Eligible donors proceeding to organ donation: 18
  - Eligible donors whose families consented to organ donation: 17
  - Eligible donors whose families were approached: 8
  - Eligible donors proceeding to organ donation: 3

- **Other units**
  - Audited deaths: 51
  - Eligible donors proceeding to organ donation: 18
  - Eligible donors whose families consented to organ donation: 17
  - Eligible donors whose families were approached: 8
  - Eligible donors proceeding to organ donation: 3
Age distribution, April 2016 – March 2017

N  1028  261  223  109  43  34

Audited deaths
Meeting referral criteria
Eligible donors
Eligible donors whose families were approached
Eligible donors whose families consented to organ donation
Eligible donors proceeding to organ donation

Age (years)
Paediatric patients who died in a paediatric ICU

2016/17
Flow of paediatric patients who died in a PICU through donation pathway (PDA data)

Paediatric patients who died in a PICU

Audited deaths in 2015/16 YTD (n=618)
- Met referral criteria (n=243, 39%)
- Eligible donor (n=182, 75%)
- Family approached (n=111, 61%)
- Consent/authorisation given (n=45, 41%)
- Actual solid organ donors (n=33, 73%)

Audited deaths in 2016/17 YTD (n=515)
- Met referral criteria (n=239, 46%)
- Eligible donor (n=205, 86%)
- Family approached (n=101, 49%)
- Consent/authorisation given (n=40, 40%)
- Actual solid organ donors (n=32, 80%)
Age distribution, April 2016 – March 2017

<table>
<thead>
<tr>
<th>Category</th>
<th>N</th>
<th>515</th>
<th>239</th>
<th>205</th>
<th>101</th>
<th>40</th>
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<td>were approached</td>
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</tr>
</tbody>
</table>
Grouped cause of death, April 2016 – March 2017

- Audited deaths
- Meeting referral criteria
- Eligible donors
- Eligible donors whose families were approached
- Eligible donors whose families consented to organ donation
- Eligible donors proceeding to organ donation

Causes of death includes:
- Intracranial haemorrhage (CVA)
- Hypoxic brain damage
- Trauma
- Respiratory failure
- Pneumonia
- Cardiothoracic failure
- Multi-organ failure
- Septicemia
- Cancer
- Other
Audited deaths by hospital, April 2016 – March 2017

National: 515 deaths
2 hospitals with 35 or more audited deaths
Neurological death suspected, by hospital, April 2016 – March 2017

National: 82 deaths where neurological death was suspected
Neurological death tests performed, by hospital, April 2016 – March 2017

National: 56 deaths where neurological tests were performed
Reason why neurological death tests were not performed for patients where neurological death was suspected, April 2016 – March 2017

National: 26 deaths where neurological death was suspected but neurological tests were not performed

- Family declined donation: 8, 31%
- Family pressure not to test: 2, 8%
- Patient haemodynamically unstable: 2, 8%
- Continuing effects of sedatives: 2, 8%
- Biochemical/endocrine abnormality: 3, 11%
- Inability to test all reflexes: 6, 23%
- Clinical reason/Clinicians decision: 1, 4%
- SN-OD advised that donor not suitable: 2, 7%
Neurological death tests performed, by age, April 2016 – March 2017

Median (IQR): 9 years (3, 12)
Eligible donors, by hospital, April 2016 – March 2017

National: 205 eligible donors
(55 eligible DBD and 150 eligible DCD)
Eligible donors, by hospital and whether the family were approached, April 2016 – March 2017

National: Families of 101 (49%) eligible donors were approached for organ donation (43 eligible DBD and 58 eligible DCD)
Reason families of eligible donors were not approached, April 2016 – March 2017

**National:** Families of 104 eligible donors were not approached for organ donation

- Family stated that they would not support donation before they were formally approached: 7, 7%
- Family considered too upset to approach: 8, 7%
- Coroner / Procurator Fiscal refused permission: 3, 3%
- Patient’s general medical condition: 7, 7%
- Other medical reason: 20, 19%
- Other: 31, 30%
- Not identified as a potential donor / organ donation not considered: 28, 27%
Proportion of approaches involving a SNOD, by hospital, April 2016 – March 2017

National: SNODs involved in 72 (71%) of the 101 approaches (32 (74%) eligible DBD and 40 (69%) eligible DCD)
Eligible donors whose families were approached, by hospital and whether the family consented/authorised organ donation, April 2016 – March 2017

**National:** Families of 40 (40%) eligible donors were approached and consented/authorised organ donation (23 eligible DBD and 17 eligible DCD)
Reason families of eligible donors did not consent/authorise organ donation, April 2016 – March 2017

**National:*** Families of 61 eligible donors approached did not consent to organ donation

- **Family were not sure whether the patient would have agreed to donation**
- **Family did not believe in donation**
- **Family felt it was against their religious/cultural beliefs**
- **Family were divided over the decision**
- **Family felt the patient had suffered enough**
- **Family did not want surgery to the body**
- **Family wanted to stay with the patient after death**
- **Family felt the length of time for donation process was too long**
- **Family felt the body needs to be buried whole (unrelated to religious or cultural reasons)**
- **Family concerned that organs may not be transplanted**
- **Strong refusal - probing not appropriate**
- **Other**
Eligible donors whose families consented/authorised, by hospital and whether the donor proceeded to organ donation, April 2016 – March 2017

National: 32 eligible donors whose families consented/authorised organ donation proceeded to organ donation (20 eligible DBD and 12 eligible DCD)
Reason eligible donors whose families consented/authorised organ donation did not proceed to organ donation, April 2016 – March 2017

National: 8 eligible donors whose families consented/authorised organ donation did not proceed to organ donation

- Family changed mind: 1, 12%
- Coroner/Procurator Fiscal refusal: 1, 12%
- Organs deemed medically unsuitable by recipient centres: 2, 25%
- Prolonged time to asystole: 2, 25%
- Cardiac Arrest: 1, 13%
- Other: 1, 13%
Transplants from eligible proceeding donors, by hospital, April 2016 – March 2017

**National:** 93 solid organ transplants were performed (70 from eligible DBD and 23 from eligible DCD)
Deceased paediatric donors (aged 15 years or under)

2005/06 - 2016/17
Deceased paediatric donors (<16 yrs), by donor type, 1 April 2005 to 31 March 2017

<table>
<thead>
<tr>
<th>Financial Year</th>
<th>DBD</th>
<th>DCD</th>
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<tbody>
<tr>
<td>2005/06</td>
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<tr>
<td>2006/07</td>
<td>36</td>
<td>5</td>
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<td>2007/08</td>
<td>20</td>
<td>9</td>
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<tr>
<td>2008/09</td>
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<td>12</td>
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<tr>
<td>2009/10</td>
<td>18</td>
<td>8</td>
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<tr>
<td>2010/11</td>
<td>26</td>
<td>9</td>
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</tr>
<tr>
<td>2016/17</td>
<td>23</td>
<td>17</td>
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</table>
Deceased paediatric donors (2 years old and under), by donor type, 1 April 2010 to 31 March 2017

<table>
<thead>
<tr>
<th>Age Category</th>
<th>DBD</th>
<th>DCD</th>
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<td>&lt;2 months</td>
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<td>12-24 months</td>
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<td>&lt;1 month</td>
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<tr>
<td>12-24 months</td>
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</tbody>
</table>
Paediatric patients
(<18 years)

2016/17
Stages at which potential paediatric (<18 years) organ donors lost the opportunity to become actual donors, 1 April 2016 to 31 March 2017

1 Potential DBD donor - A patient who meets all four criteria for neurological death testing excluding those for which cardiac arrest occurred despite resuscitation, brain stem reflexes returned, and neonates less than 2 months post term.
Potential DCD donor - A patient who had treatment withdrawn and death was anticipated within four hours.