Paediatric donation
1 April 2016 to 31 March 2018
Paediatric patients (aged 15 years or under)

2016/17 – 2017/18
Flow of paediatric patients through donation pathway (PDA data)

Paediatric patients (age<16 years)

- Audited deaths in 2016/17 YTD (n=1033)
  - Met referral criteria (n=265, 26%)
  - Eligible donor (n=226, 85%)
  - Family approached (n=111, 49%)
  - Consent/authorisation given (n=45, 41%)
  - Actual solid organ donors (n=35, 78%)

- Audited deaths in 2017/18 YTD (n=1066)
  - Met referral criteria (n=260, 24%)
  - Eligible donor (n=216, 83%)
  - Family approached (n=112, 52%)
  - Consent/authorisation given (n=51, 46%)
  - Actual solid organ donors (n=38, 75%)
Units of death for all audited deaths

- **Paediatric ICU:**
  - 1 April 2016 - 31 March 2017: 518
  - 1 April 2017 - 31 March 2018: 551

- **A+E:**
  - 1 April 2016 - 31 March 2017: 463
  - 1 April 2017 - 31 March 2018: 464

- **Other units:**
  - 1 April 2016 - 31 March 2017: 52
  - 1 April 2017 - 31 March 2018: 51

Legend:
- Red: 1 April 2016 - 31 March 2017
- Blue: 1 April 2017 - 31 March 2018
Units of death for patients meeting referral criteria

- **Paediatric ICU**
  - 1 April 2016 - 31 March 2017: 242
  - 1 April 2017 - 31 March 2018: 238

- **A+E**
  - 1 April 2016 - 31 March 2017: 4
  - 1 April 2017 - 31 March 2018: 3

- **Other units**
  - 1 April 2016 - 31 March 2017: 19
  - 1 April 2017 - 31 March 2018: 19

NHS Blood and Transplant
Units of death for eligible donors

Number of eligible donors

Unit where patient died

- Paediatric ICU: 208 (1 April 2016 - 31 March 2017), 194 (1 April 2017 - 31 March 2018)
- A+E: 1 (1 April 2016 - 31 March 2017), 3 (1 April 2017 - 31 March 2018)
- Other units: 17 (1 April 2016 - 31 March 2017), 19 (1 April 2017 - 31 March 2018)
Paediatric patients (aged 15 years or under)

2017/18
Unit where patient died, April 2017 – March 2018

- Paediatric ICU: 551 deaths, of which 238 were audited, 194 were eligible donors, 44 had families approached, 33 had families consented to organ donation.
- A+E: 464 deaths, of which 51 were audited, 19 eligible donors, 19 had families approached, 10 had families consented to organ donation, 7 proceeded to organ donation.
- Other units: 51 deaths, of which 19 were audited, 19 eligible donors, 10 had families approached, 7 had families consented to organ donation, 5 proceeded to organ donation.

Legend:
- Red: Audited deaths
- Yellow: Eligible donors
- Green: Eligible donors whose families were approached
- Purple: Eligible donors whose families consented to organ donation
- Light blue: Eligible donors proceeding to organ donation
Age distribution, April 2017 – March 2018

- Audited deaths: 1
- Meeting referral criteria: 1
- Eligible donors: 216
- Eligible donors whose families were approached: 112
- Eligible donors whose families consented to organ donation: 51
- Eligible donors proceeding to organ donation: 38

N: 1066

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

2017/18
Flow of paediatric patients who died in a PICU through donation pathway (PDA data)

Paediatric patients who died in a PICU

- Audited deaths in 2016/17 YTD (n=518)
  - Met referral criteria (n=242, 47%)
  - Eligible donor (n=208, 86%)
  - Family approached (n=103, 50%)
  - Consent/authorisation given (n=42, 41%)
  - Actual solid organ donors (n=33, 79%)

- Audited deaths in 2017/18 YTD (n=551)
  - Met referral criteria (n=238, 43%)
  - Eligible donor (n=194, 82%)
  - Family approached (n=102, 53%)
  - Consent/authorisation given (n=44, 43%)
  - Actual solid organ donors (n=33, 75%)
Age distribution, April 2017 – March 2018

<table>
<thead>
<tr>
<th>Category</th>
<th>N</th>
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</thead>
<tbody>
<tr>
<td>Audited deaths</td>
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<tr>
<td>Meeting referral criteria</td>
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<tr>
<td>Eligible donors</td>
<td>2</td>
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<tr>
<td>Eligible donors whose families were approached</td>
<td>7</td>
</tr>
<tr>
<td>Eligible donors whose families consented to organ donation</td>
<td>9</td>
</tr>
<tr>
<td>Eligible donors proceeding to organ donation</td>
<td>9</td>
</tr>
</tbody>
</table>

N = 551
Grouped cause of death, April 2017 – March 2018

Number of deaths

CVA (intracranial haemorrhage) 37 27 5 8 8 1 149
Hypoxic brain damage 14 6 25 17 16 3 91
Trauma 45 3 3 2 6 0 45
Respiratory failure 14 9 5 2 0 0 0
Pneumonia 38 2 1 0 0 0 38
Cardiothoracic 51 1 7 1 0 0 51
Multi-organ failure 64 1 6 1 0 0 64
Septicemia 3 22 0 0 0 0 3
Cancer 0 0 0 0 0 0 0
Other 22 22 7 6 0 0 22

Legend:
- Audited deaths
- Eligible donors
- Eligible donors whose families were approached
- Eligible donors whose families consented to organ donation
- Meeting referral criteria
- Eligible donors proceeding to organ donation
Audited deaths by hospital, April 2017 – March 2018

National: 551 deaths

4 hospitals with 35 or more audited deaths
Neurological death suspected, by hospital, April 2017 – March 2018

National: 75 deaths where neurological death was suspected
Neurological death tests performed, by hospital, April 2017 – March 2018

National: 50 deaths where neurological tests were performed
Reason why neurological death tests were not performed for patients where neurological death was suspected, April 2017 – March 2018

National: 25 deaths where neurological death was suspected but neurological tests were not performed

- Family declined donation: 5 (20%)
- Family pressure not to test: 1 (4%)
- Patient haemodynamically unstable: 2 (8%)
- Continuing effects of sedatives: 1 (4%)
- Biochemical/endocrine abnormality: 4 (16%)
- Clinical reason/Clinicians decision: 4 (16%)
- SN-OD advised that donor not suitable: 1 (4%)
- Other: 4 (16%)
- Unknown: 6 (24%)
Neurological death tests performed, by age, April 2017 – March 2018

Median (IQR): 9 years (2, 13)
Eligible donors, by hospital, April 2017 – March 2018

National: 194 eligible donors
(45 eligible DBD and 149 eligible DCD)
Eligible donors, by hospital and whether the family were approached, April 2017 – March 2018

National: Families of 102 (53%) eligible donors were approached for organ donation (36 eligible DBD and 66 eligible DCD)
Reason families of eligible donors were not approached, April 2017 – March 2018

National: Families of 92 eligible donors were not approached for organ donation

- Family stated that they would not support donation before they were formally approached: 3 (3%)
- Family considered too upset to approach: 2 (2%)
- Coroner / Procurator Fiscal refused permission: 19 (21%)
- Patient's general medical condition: 20 (22%)
- Other medical reason: 10 (11%)
- Other: 24 (26%)
- Not identified as a potential donor / organ donation not considered: 14 (15%)
Proportion of approaches where a SNOD was present, by hospital, April 2017 – March 2018

National: SNOD present in 60 (59%) of the 102 approaches (21 (58%) eligible DBD and 39 (59%) eligible DCD)
Eligible donors whose families were approached, by hospital and whether the family consented/authorised organ donation, April 2017 – March 2018

**National**: Families of 44 (43%) eligible donors were approached and consented/authorised organ donation (22 eligible DBD and 22 eligible DCD)
Reason families of eligible donors did not consent/authorise organ donation, April 2017 – March 2018

National: Families of 58 eligible donors approached did not consent to organ donation

- Family felt it was against their religious/cultural beliefs: 17 (29%)
- Family were divided over the decision: 4 (7%)
- Family felt the patient had suffered enough: 11 (19%)
- Family did not want surgery to the body: 3 (5%)
- Family wanted to stay with the patient after death: 1 (2%)
- Family felt the length of time for donation process was too long: 13 (22%)
- Family felt the body needs to be buried whole (unrelated to religious or cultural reasons): 2 (3%)
- Families concerned about organ allocation: 1 (2%)
- Strong refusal - probing not appropriate: 5 (9%)
- Other: 1 (2%)

17 29%
11 19%
13 22%
5 9%
4 7%
3 5%
2 3%
1 2%
1 2%
Eligible donors whose families consented/authorised, by hospital and whether the donor proceeded to organ donation, April 2017 – March 2018

National: 33 eligible donors whose families consented/authorised organ donation proceeded to organ donation (20 eligible DBD and 13 eligible DCD)
Reason eligible donors whose families consented/authorised organ donation did not proceed to organ donation, April 2017 – March 2018

National: 11 eligible donors whose families consented/authorised organ donation did not proceed to organ donation

- Family changed mind: 3 (28%)
- Coroner/Procurator Fiscal refusal: 1 (9%)
- Organs deemed medically unsuitable by recipient centres: 1 (9%)
- Prolonged time to asystole: 2 (18%)
- Logistic reasons: 1 (9%)
- Positive virology: 1 (9%)

Blood and Transplant
Transplants from eligible proceeding donors, by hospital, April 2017 – March 2018

National: 87 solid organ transplants were performed (60 from eligible DBD and 27 from eligible DCD)
Deceased paediatric donors
(aged 15 years or under)

2005/06 - 2017/18
Deceased paediatric donors (<16 yrs), by donor type, 1 April 2005 to 31 March 2018

Number

Financial year

2005/06
2006/07
2007/08
2008/09
2009/10
2010/11
2011/12
2012/13
2013/14
2014/15
2015/16
2016/17
2017/18

DBD

DCD

Blood and Transplant

NHS
Deceased paediatric donors (2 years old and under), by donor type, 1 April 2010 to 31 March 2018
Paediatric patients
(<18 years)

2017/18
Stages at which potential paediatric (<18 years) organ donors lost the opportunity to become actual donors, 1 April 2017 to 31 March 2018

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.