

DCD Assessment (Triage) Update

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National Organ Donation Committee

2nd Feb. 2016

Organ Donation in the UK

*Blood and Transplant
Blood and Transplant*

1,961

Consenting organ donors in the UK

Brain death



804

Proceeding after brain death

51

Median Age



2,721

Organs transplanted

Circulatory death



505

Proceeding after cardiac death

56

Median Age



1,104

Organs transplanted

Caring Expert Quality

Efficiencies of the Clinical Pathways



Blood and Transplant

		Referred to SNOD	SNOD attended	Family approached	Actual donors ^{1,2}	Organs Transplanted
2014/15	DBD	1679	1563	1291	783	2604
	DCD	5718	3579	2131	496	1132

77% of referrals to a SNOD are DCD

70% of SNOD attendances are DCD

62% of approaches are DCD

39% of donors are DCD

30% of transplants from a DCD

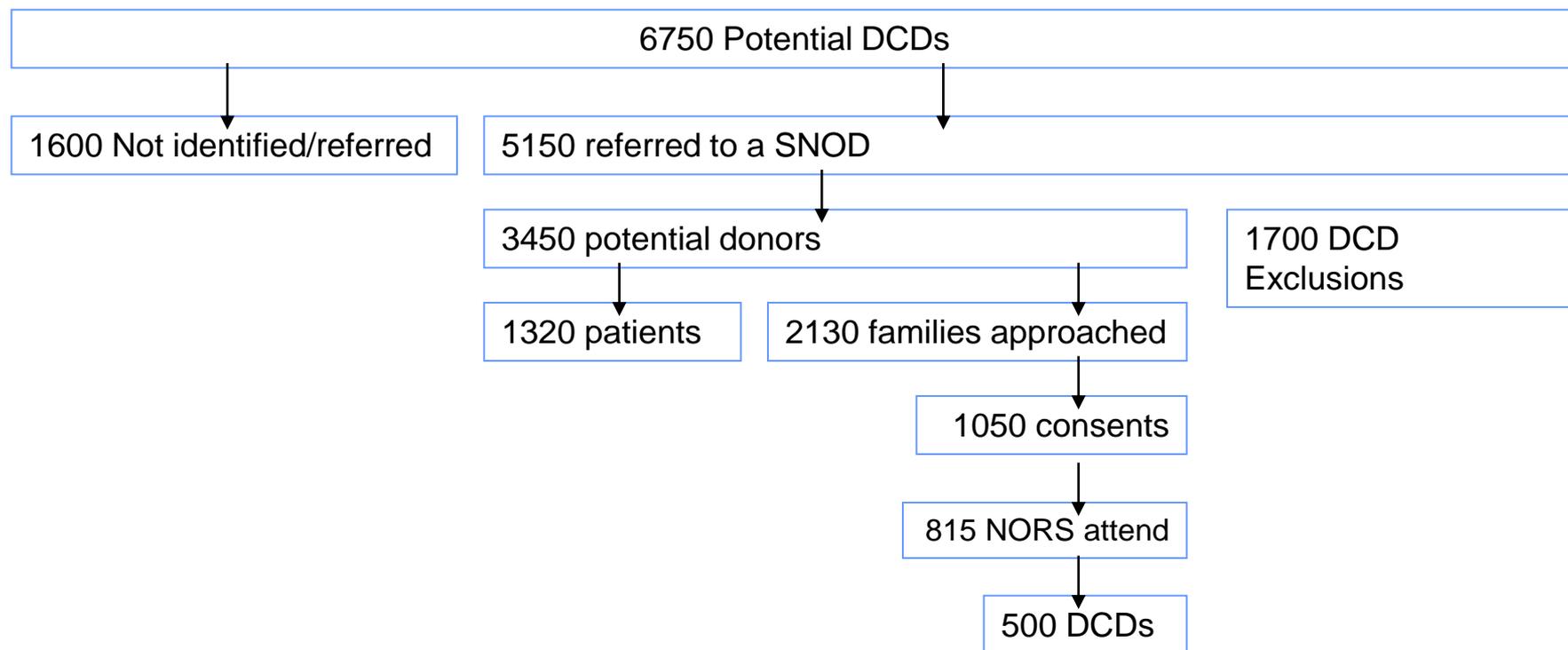
2007/08

For every 1 family approached for DCD, 1 patient benefited from transplantation.

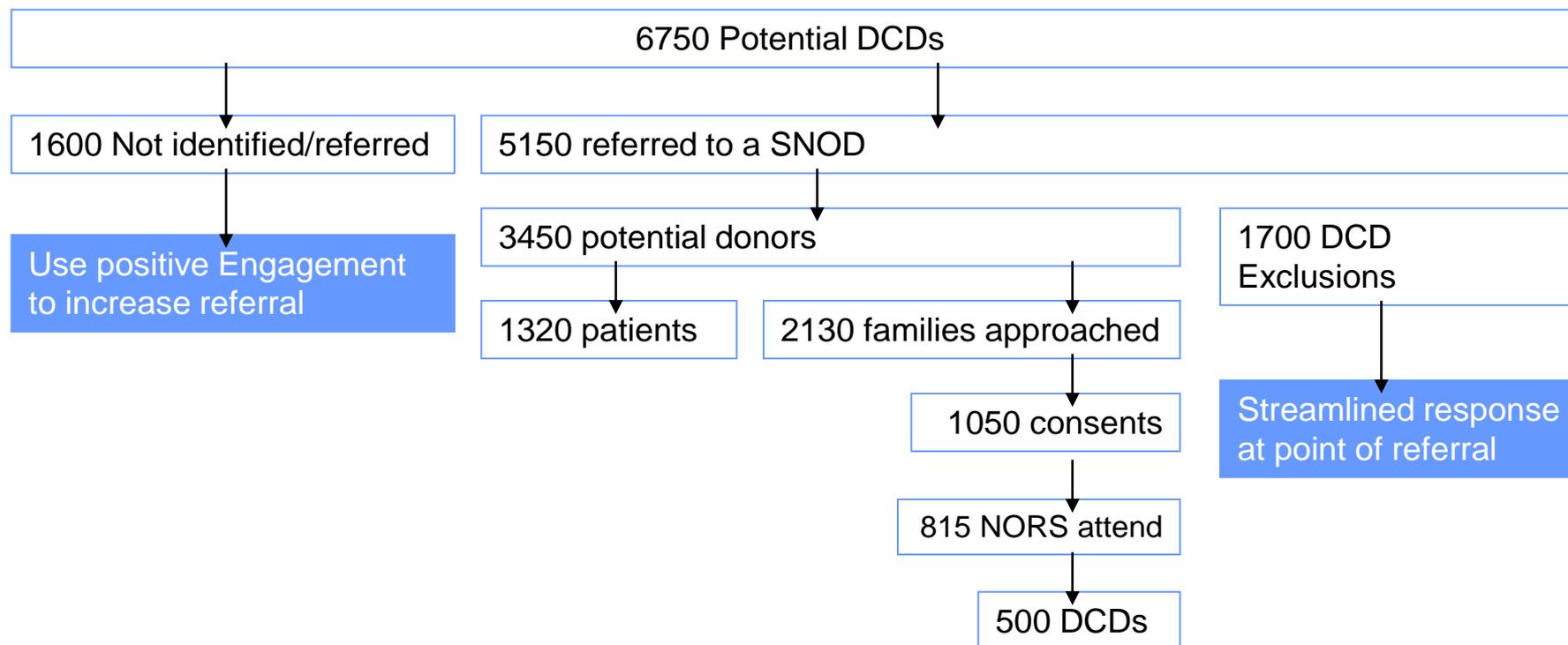
2014/15

For every 2 families approached for DCD, 1 patient benefited from transplantation.

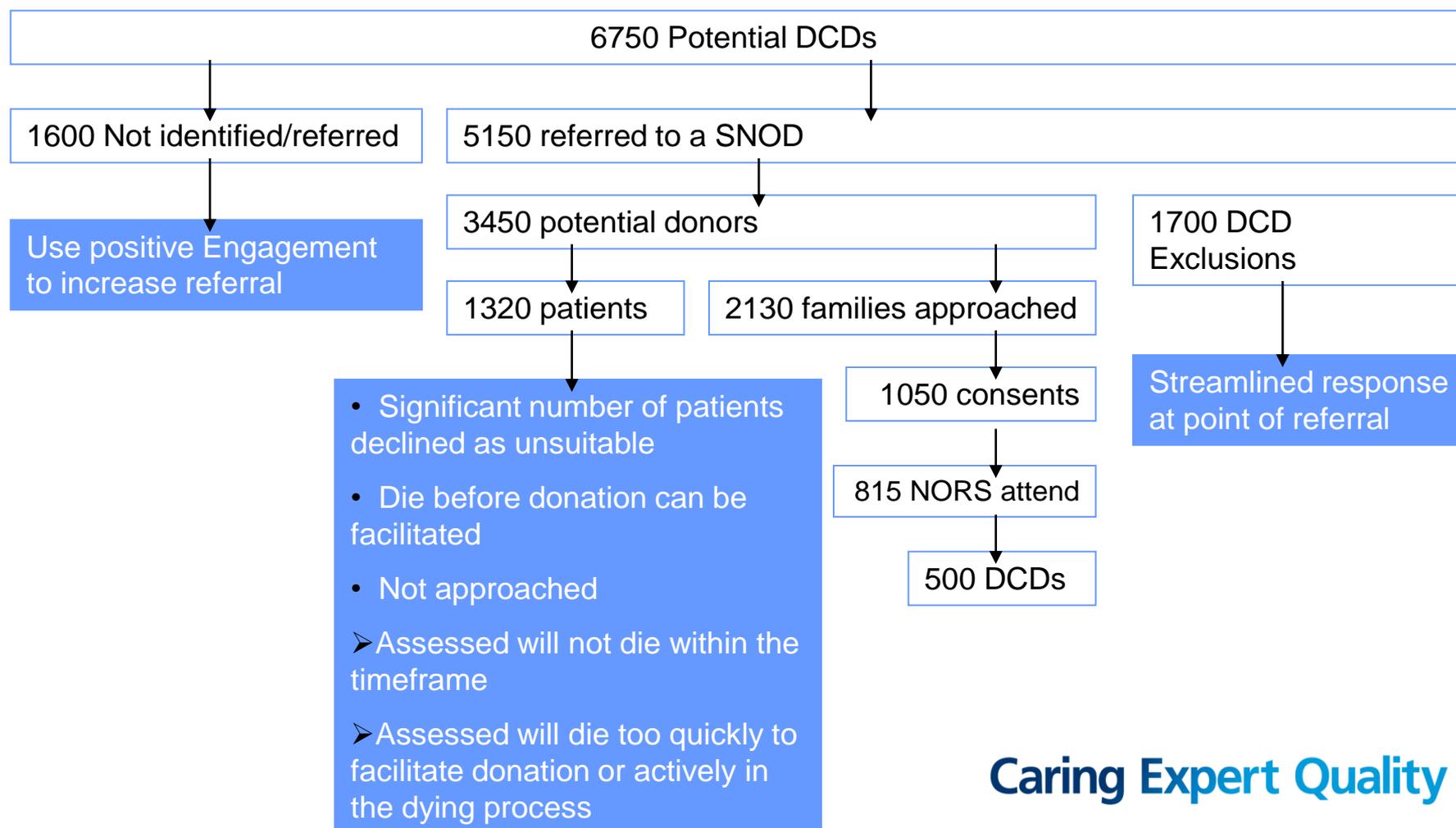
DCD Potential 2014/15



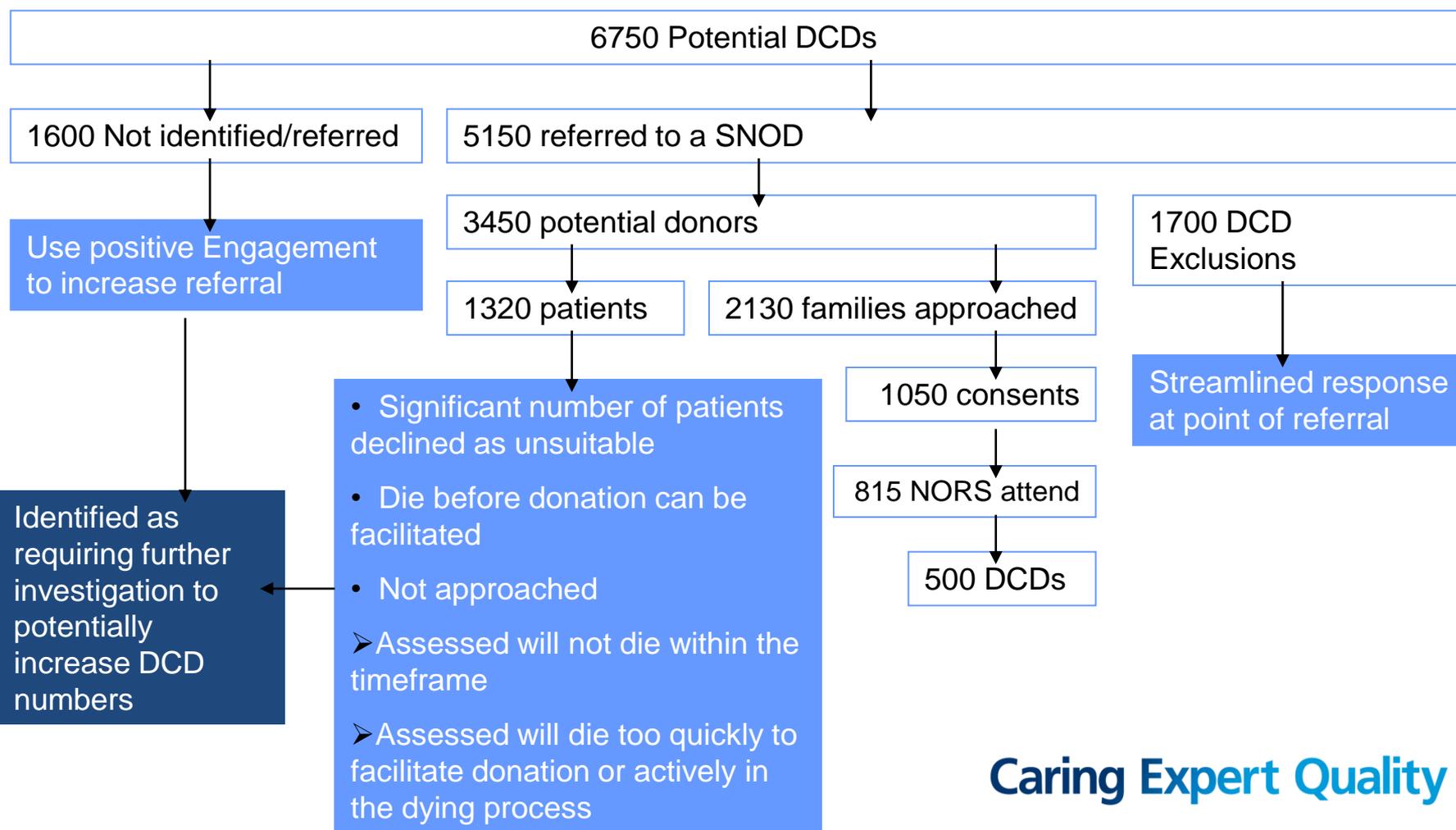
DCD Potential 2014/15



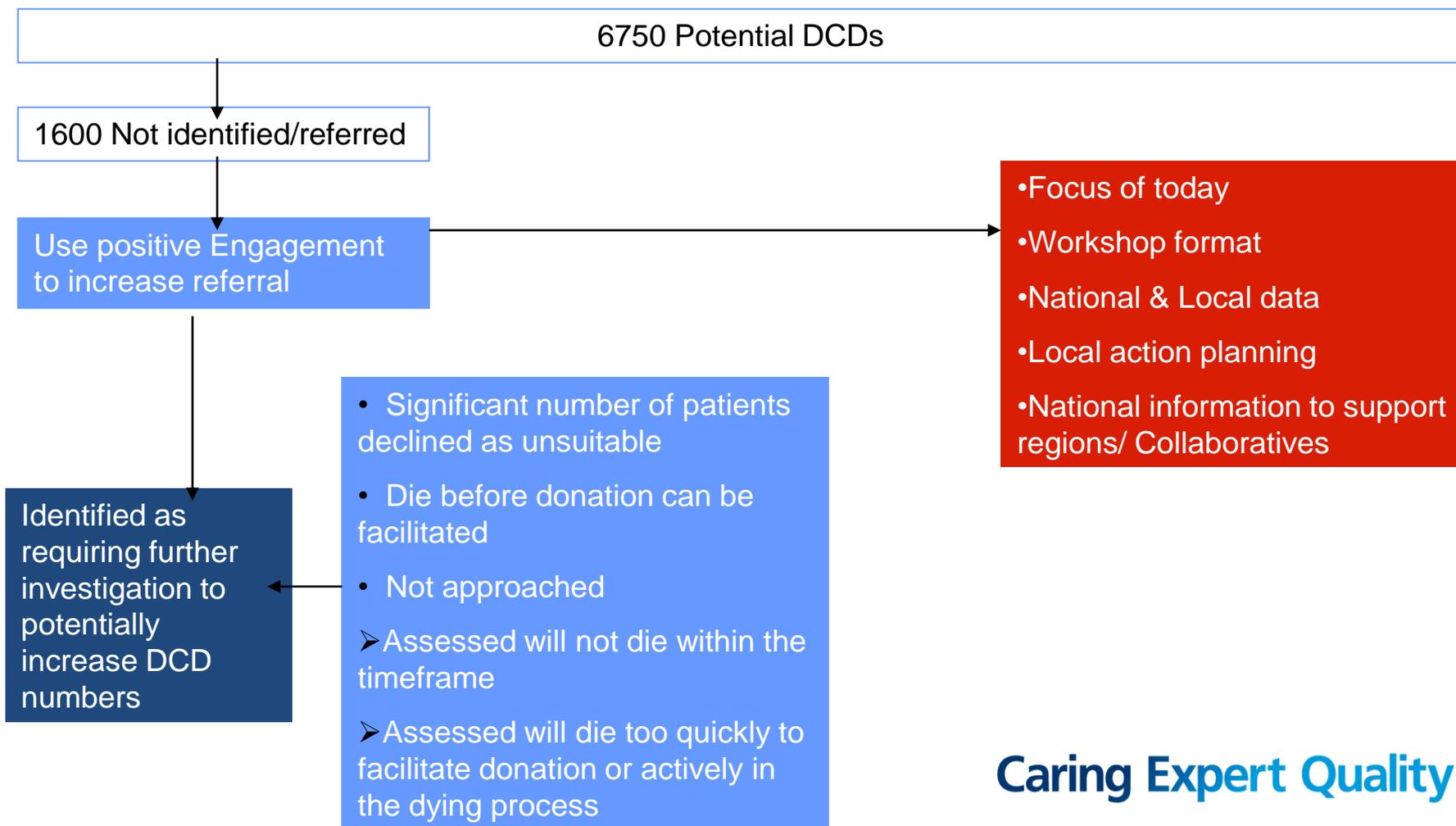
DCD Potential 2014/15



DCD Potential 2014/15



DCD Potential 2014/15



- DCD Assessment Pathway developed following data collection exercise during 2015
- Flexible and adaptable pathway implemented in Dec 2015 with clear process for SNODs at point of DCD referral
- Clarifies and improves the process of suitability assessment at point of referral
- Monitoring and evaluation on-going with a view to increasing the inclusion/exclusion criteria over time.
- Positive feedback received from the ODS teams and transplant centres. (Notable decrease in time taken to determine pts are unsuitable)

DCD Triage/ Assessment



Blood and Transplant

- 1st Months data reviewed 20th January
- Form return rate of 41% (data lag being addressed)
- 220 forms returned identifying 127 pts with Abs. Contraindication or DCD Exclusion
- Exclusion over-ruled 4 times – No proceeding donors on each occasion
- Referral rates and proceeding DCD donor numbers higher during December (No negative effect)
- Conversion rate broadly unchanged
- No donors from marginal groups (Septicaemia, MOF<40yrs and Aged >80)

DCD pools

Exploratory data analysis,

1 April 2014 to 31 March 2015

Rhiannon Taylor
Senior Statistician, ODT

Increasing the donor pool

Analysis of the DCD assessment data and PDA data identified three pools where there could be potential for donation

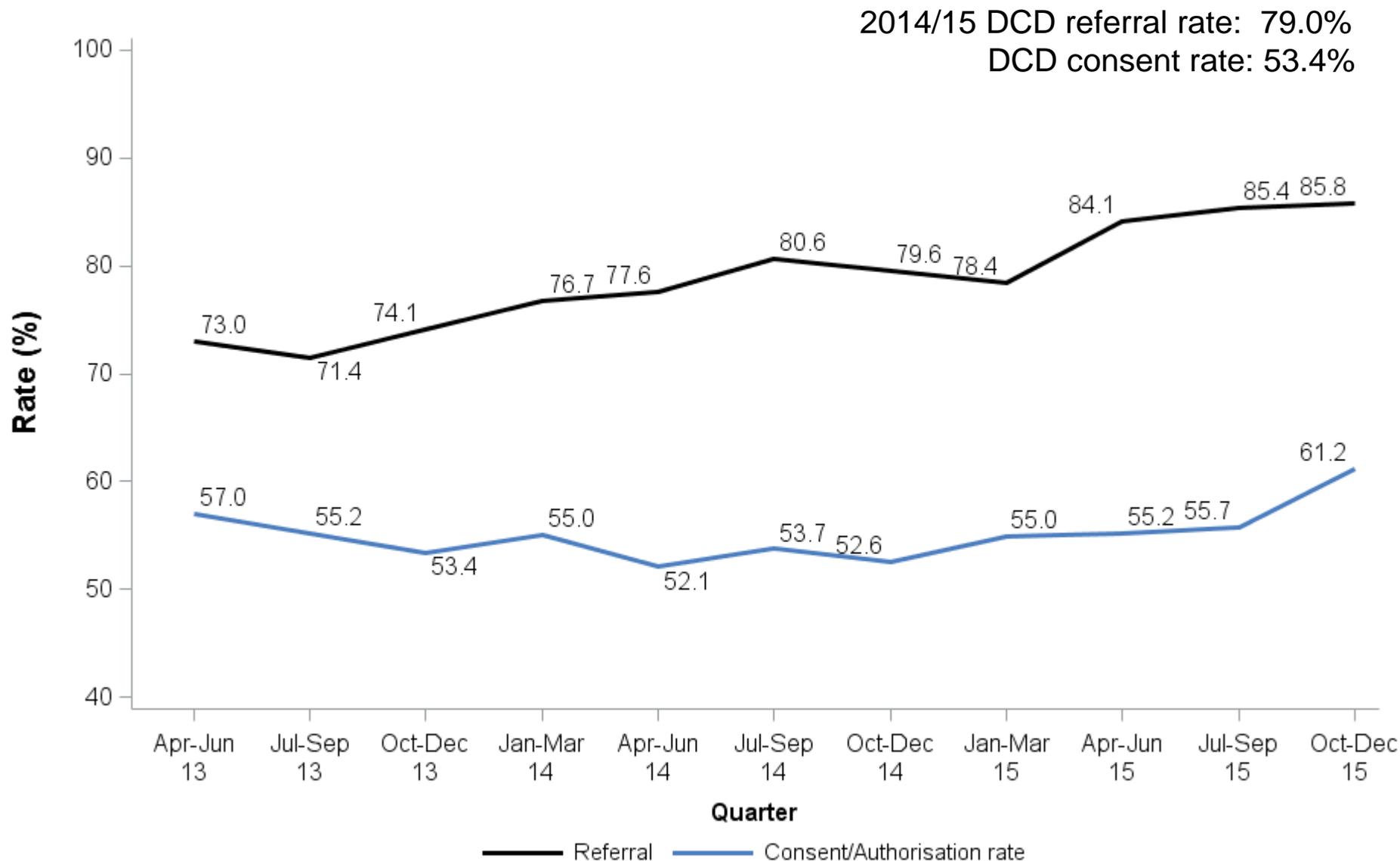
1. Patients that were not expected to live long enough for donation to proceed —————→ **Future work plan**
2. **Patients that were not referred** —————→ **Focus of today**
3. Patients where imminent death was not anticipated but did die within 4 hours of WLST —————→ **Future work plan**

Pool 2

Patients not referred

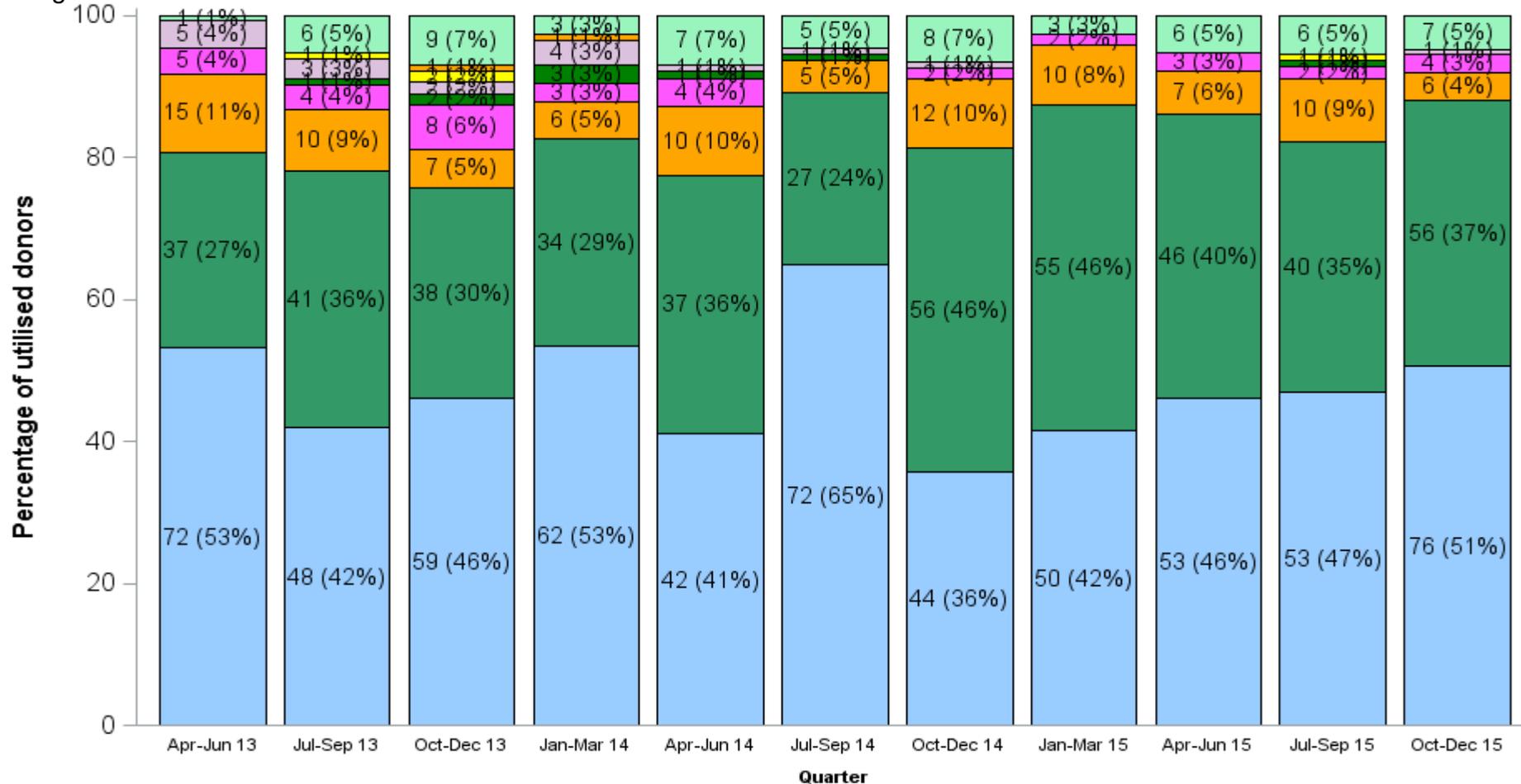
A decorative graphic at the bottom of the slide consisting of two overlapping blue waves. The top wave is a lighter shade of blue and the bottom wave is a darker shade, creating a layered effect.

DCD Referral rate and consent rate



Causes of death of utilised DCD donors

N	135	114	128	116	102	111	123	120	115	113	150
% neurological causes of death, hypoxic brain damage or trauma	91%	87%	81%	87%	87%	94%	92%	96%	92%	91%	92%

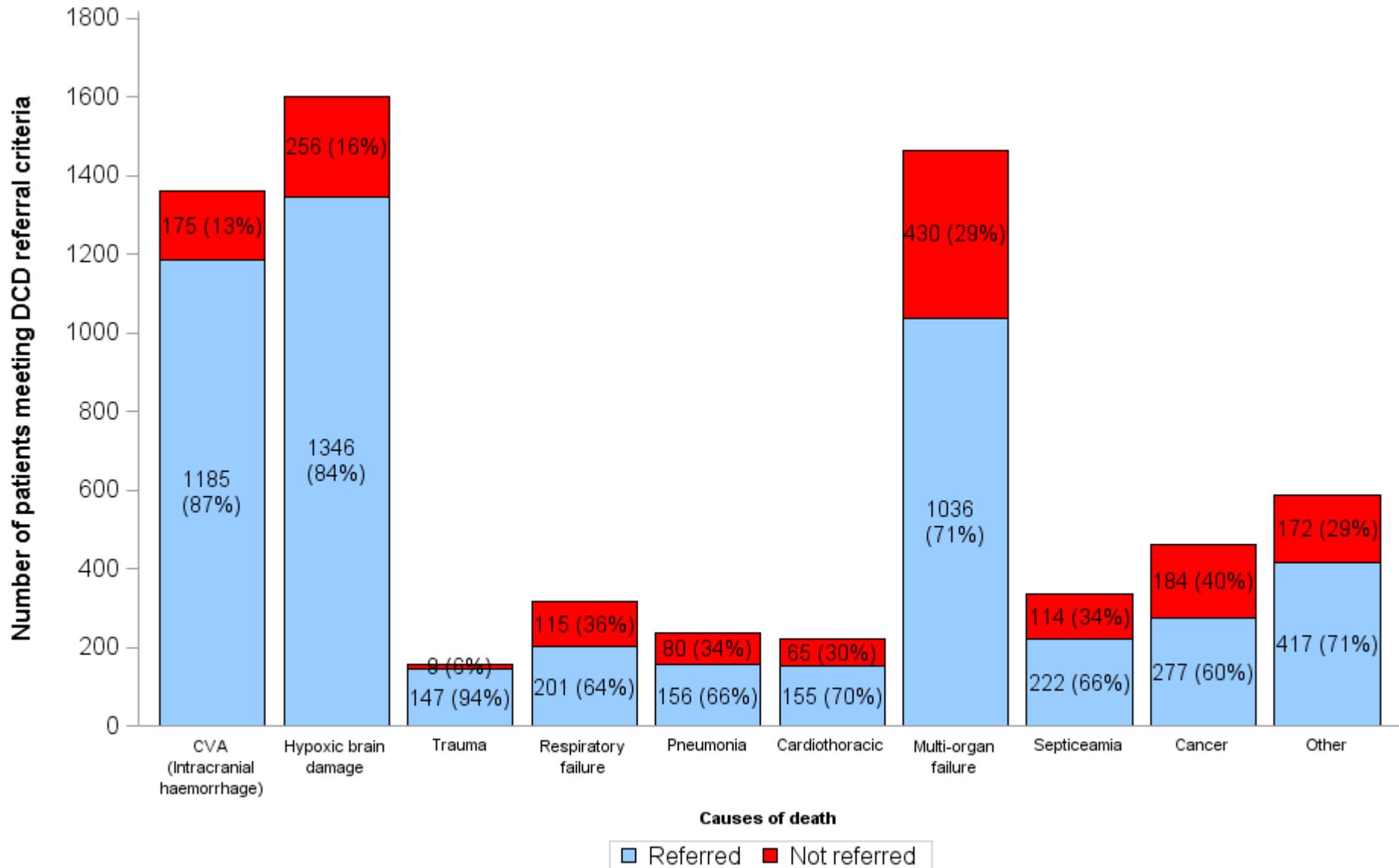


- CVA (Intracranial haemorrhage)
- Hypoxic brain damage
- Trauma
- Respiratory failure
- Cardiothoracic
- Other
- Pneumonia
- Multi-organ failure
- Septicemia

Patients meeting DCD referral criteria

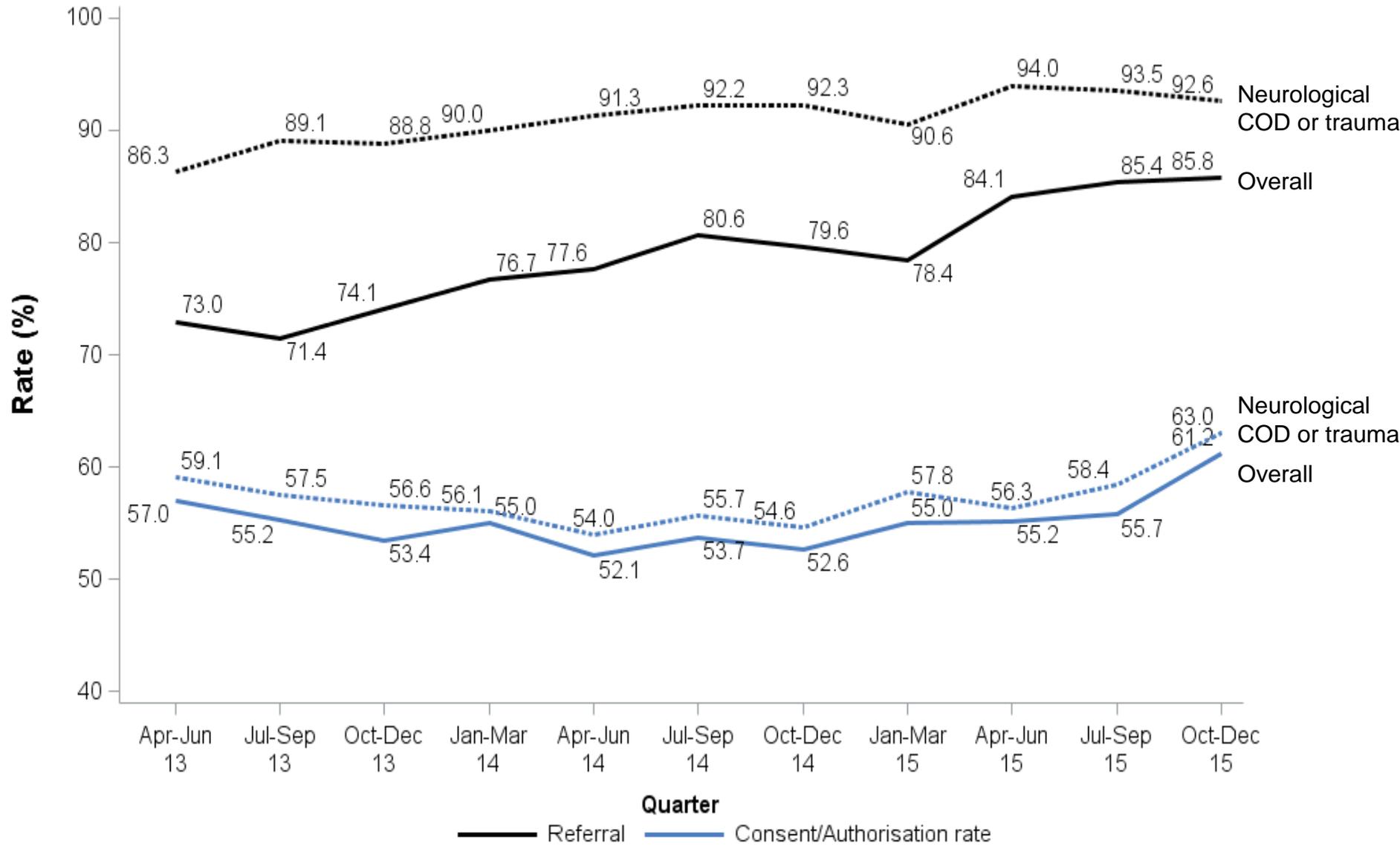
- 6742 patients in 2014/15 met the DCD referral criteria on PDA
 - 1600 (24%) patients not referred

Causes of death for patients meeting DCD referral criteria



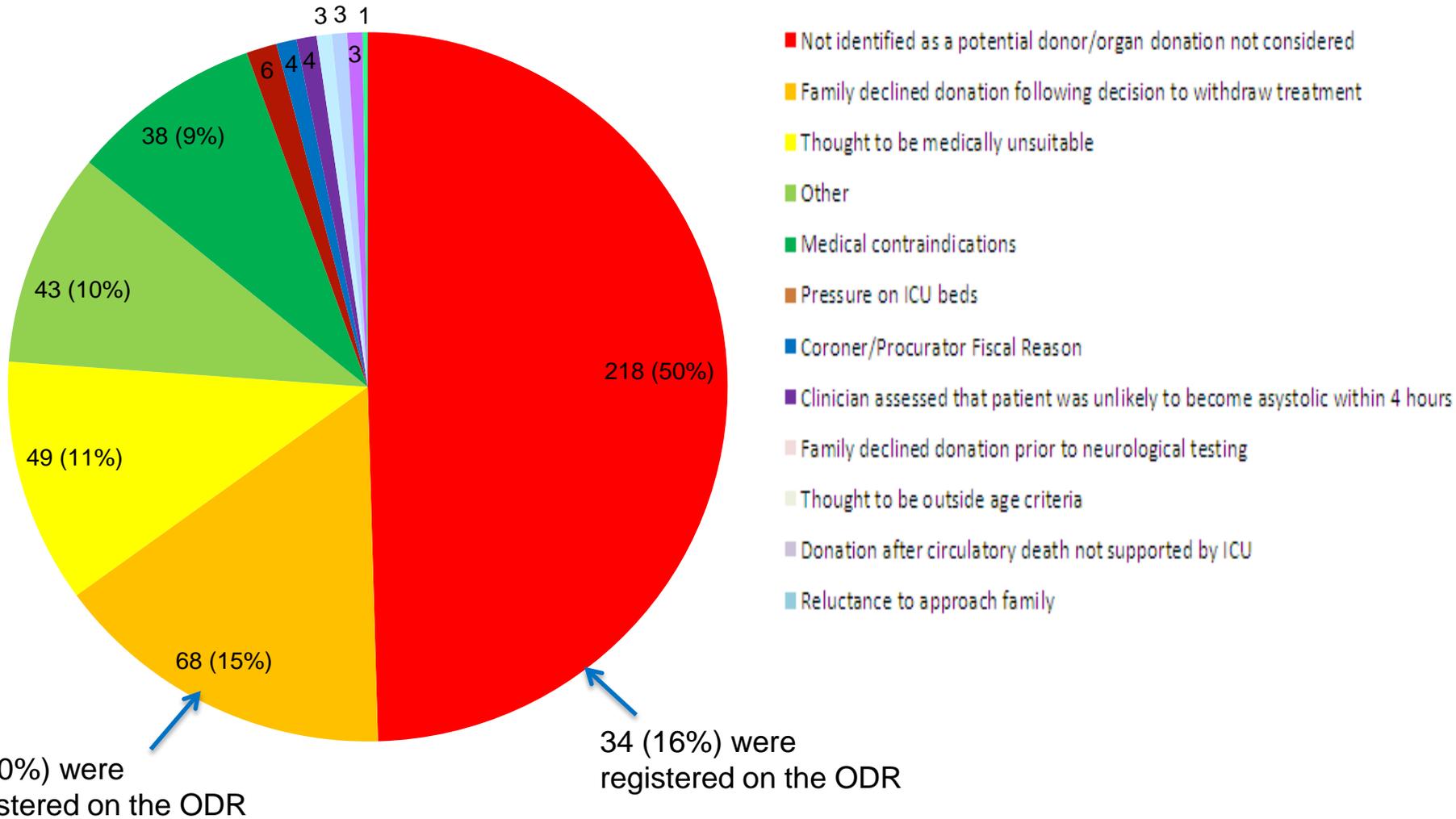
- 6742 patients in 2014/15 met the DCD referral criteria on PDA
 - 1600 (24%) patients not referred
 - 3118 (46%) died of neurological causes of death, hypoxic brain damage or trauma
 - 440 (14%) not referred
 - 175 died due to neurological causes of death (13% of all deaths due to neurological causes of death)
 - 256 due to hypoxic brain damage (16% of all deaths due to hypoxic brain damage)
 - 9 due to trauma (6% of all deaths due to trauma)
 - 2678 (86%) referred
 - 448 (17%) of the patients referred proceeded to become organ donors

DCD Referral rate and consent rate of patients who die of neurological causes of death or trauma

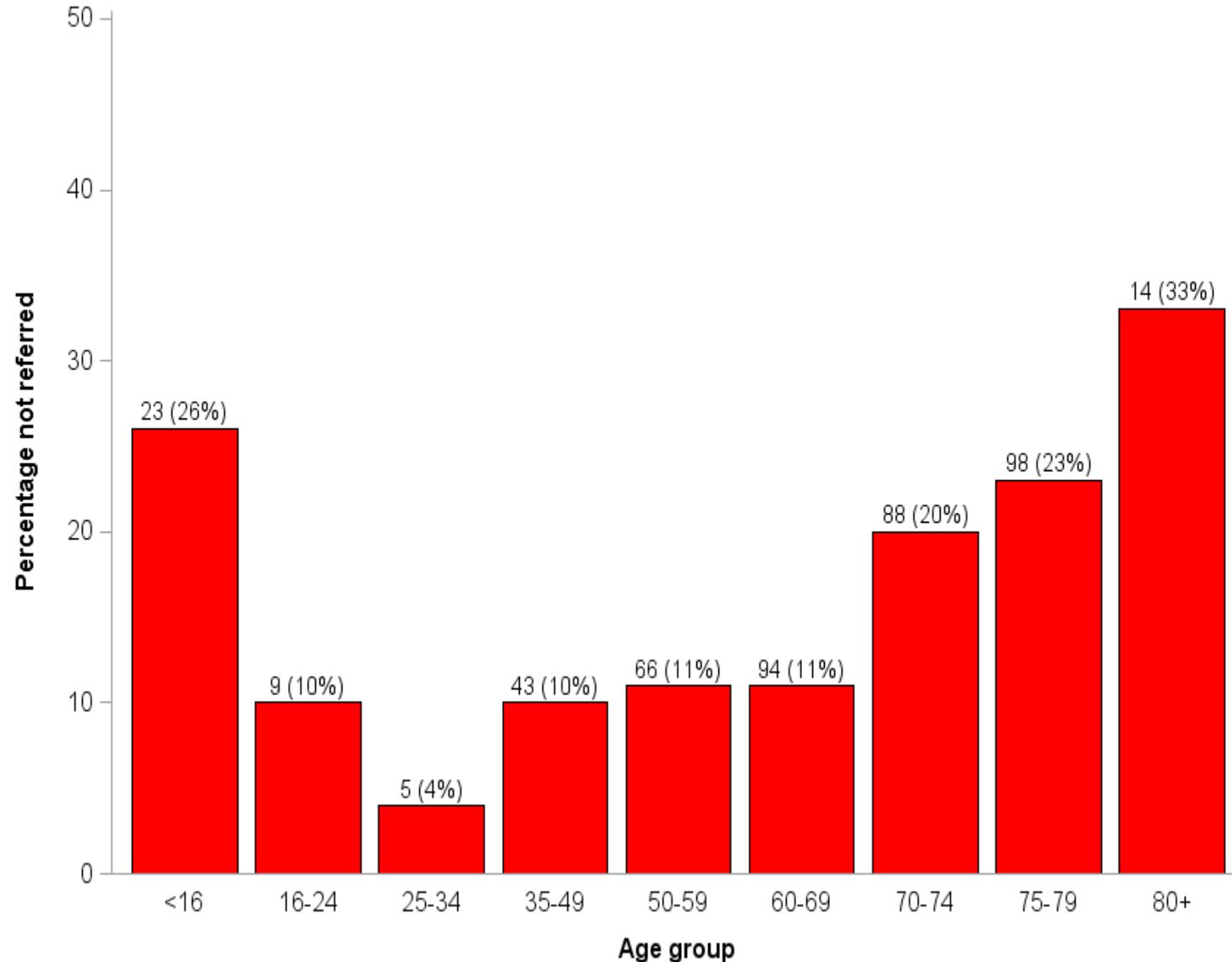


Patients not referred that died of neurological causes of death, hypoxic brain damage or trauma

Reason patient not referred to SNOD



Age group of patients that died of neurological causes of death, hypoxic brain damage or trauma



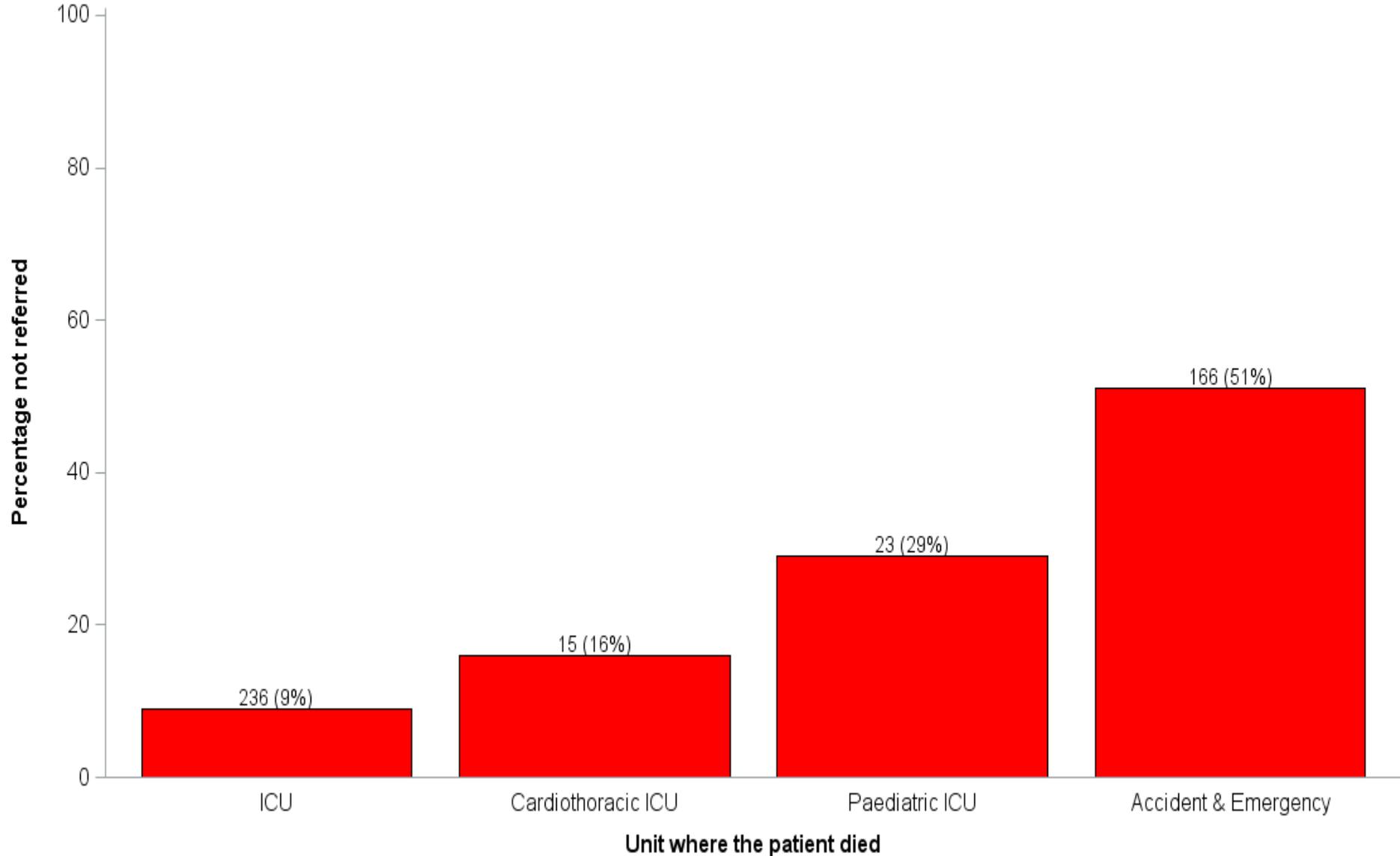
Median age

Patients not referred:
67 years (IQR: 55, 75)

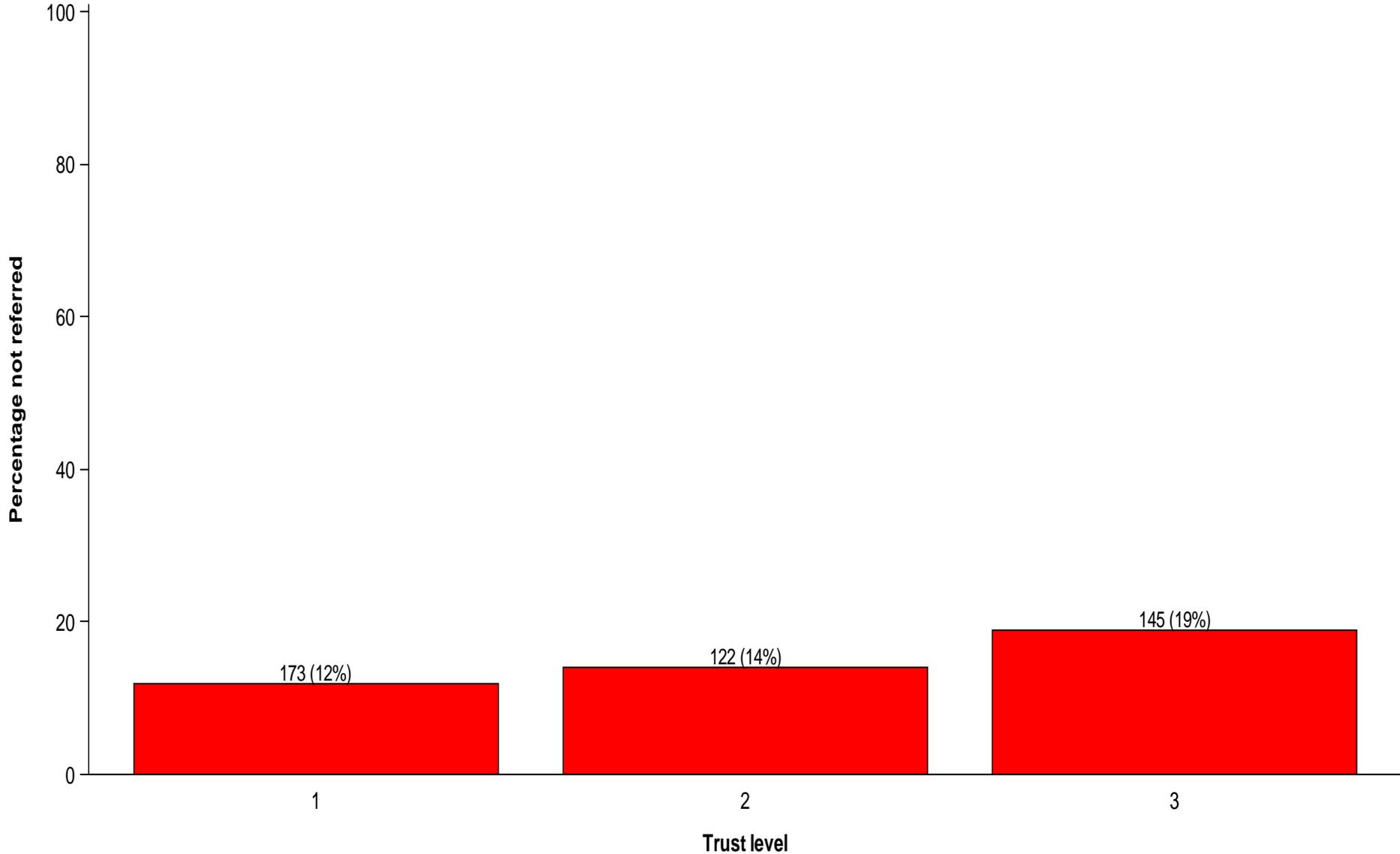
Patients referred
62 years (IQR: 49, 70)

Actual DCD donors
55 years (IQR 43, 65)

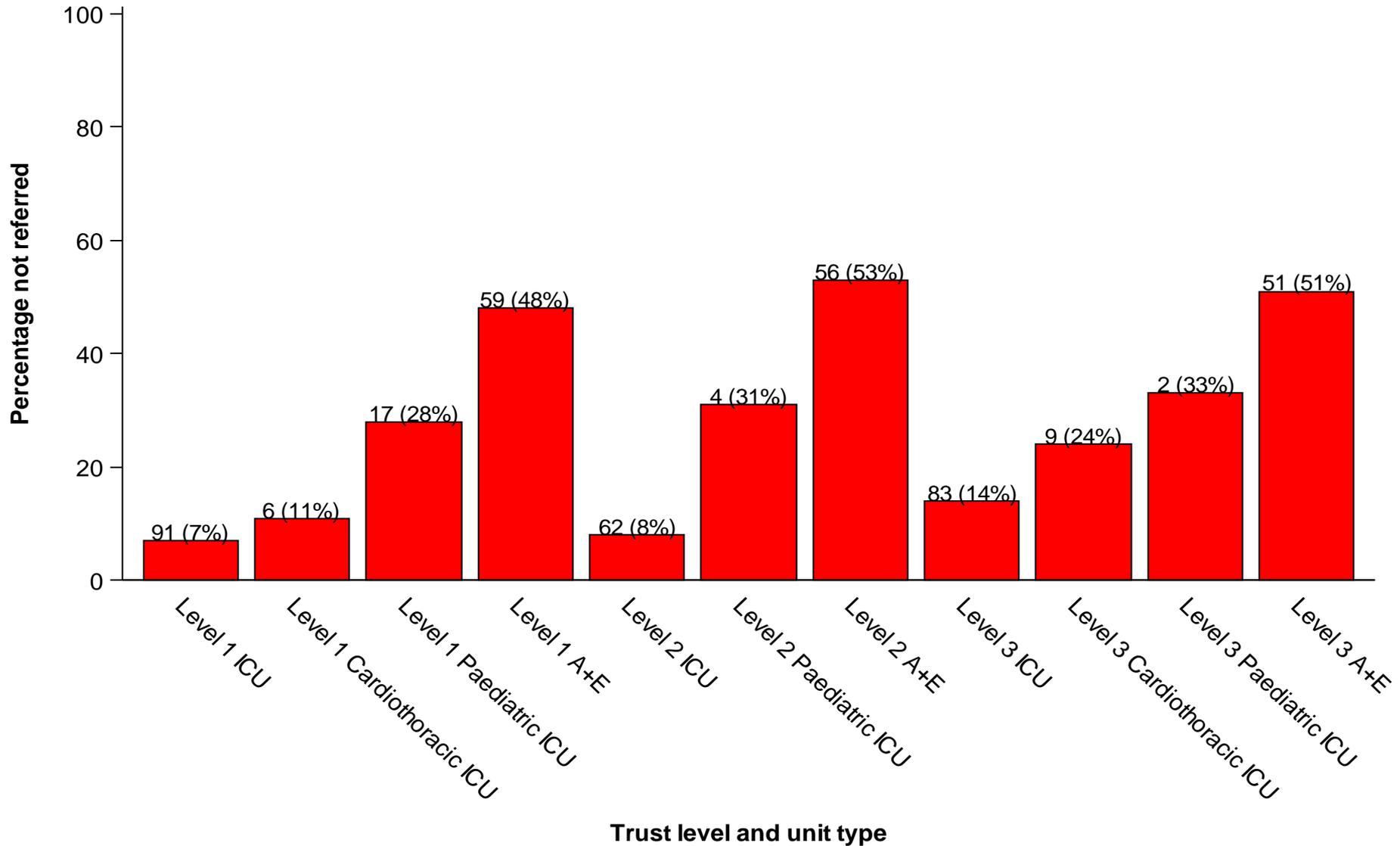
Units where patients died of neurological causes of death, hypoxic brain damage or trauma



Trust level for patients that died of neurological causes of death, hypoxic brain damage or trauma

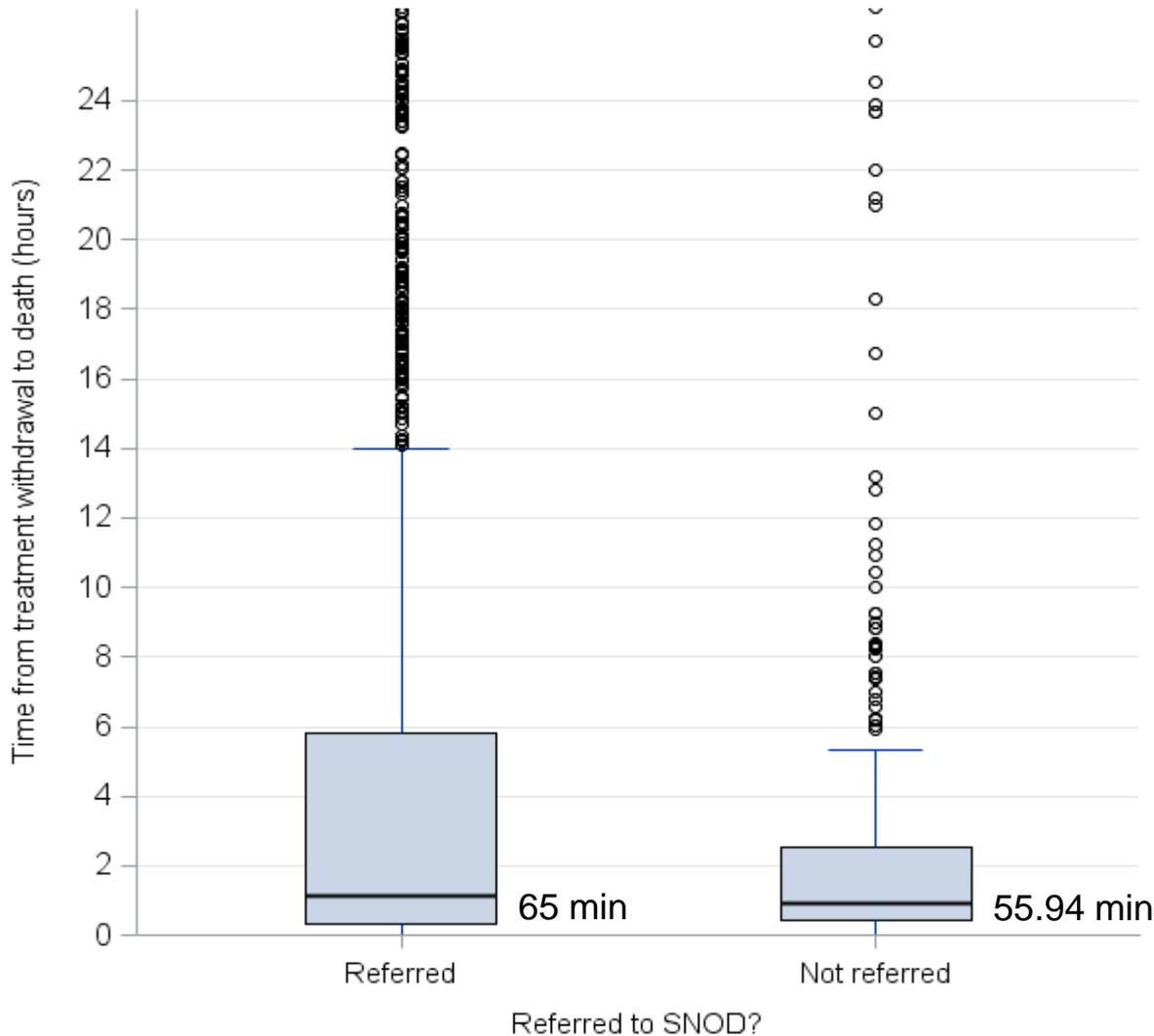


Trust level and unit type for patients that died of neurological causes of death, hypoxic brain damage or trauma



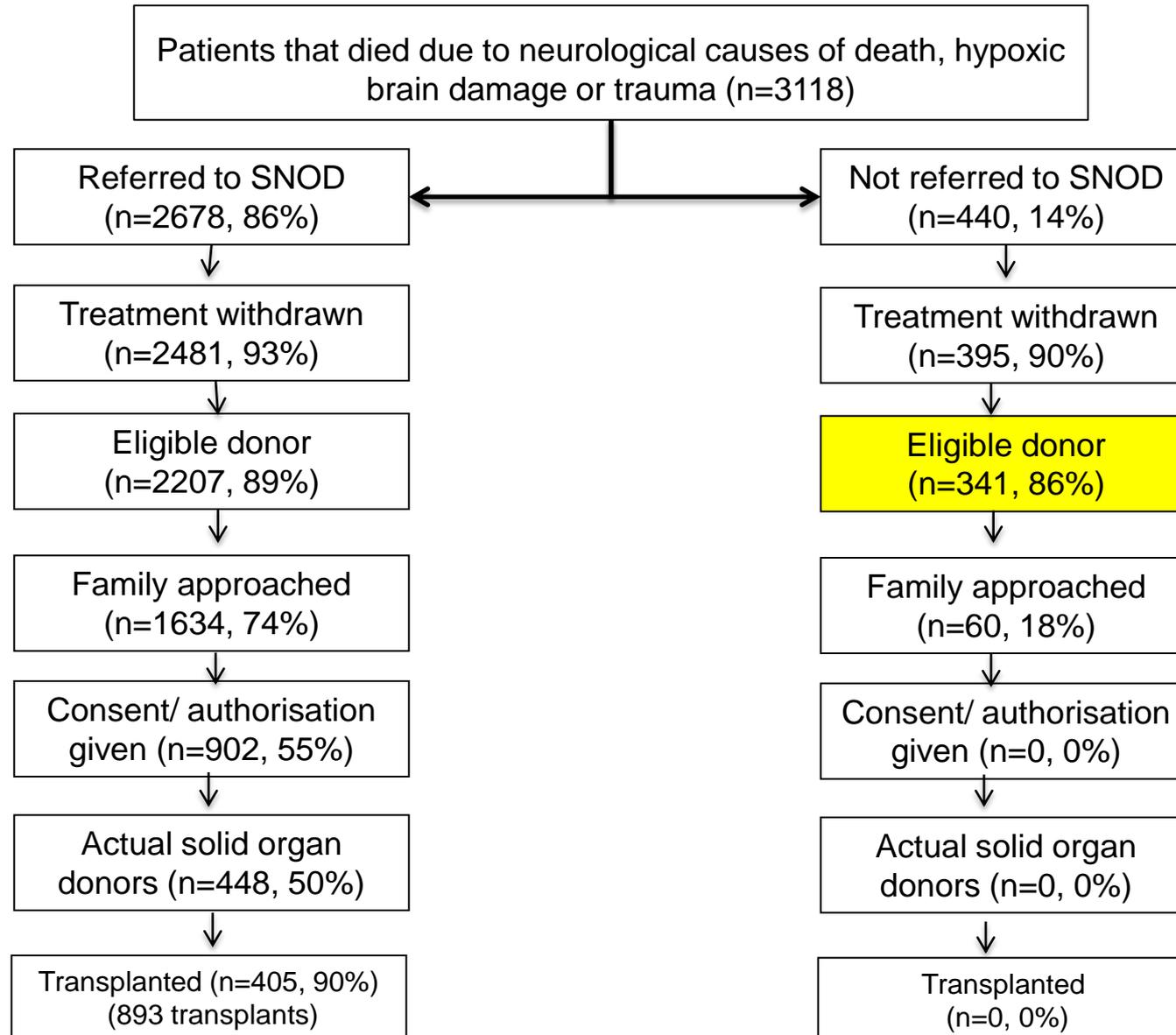
Patients that died of neurological causes of death, hypoxic brain damage or trauma

Time from treatment withdrawal to death

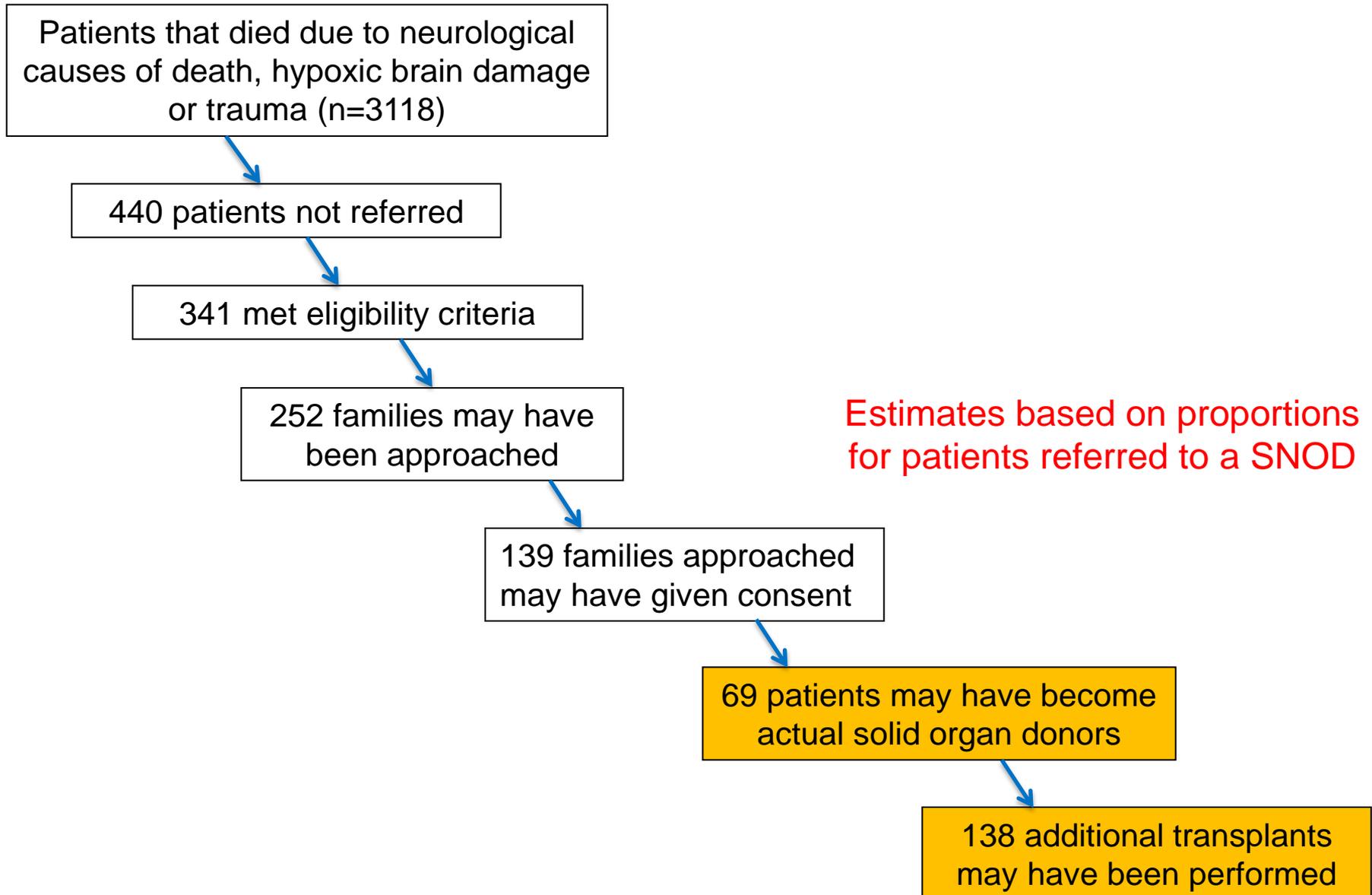


Patients not referred had a slightly lower but similar time from treatment withdrawal to death as those patients who were referred

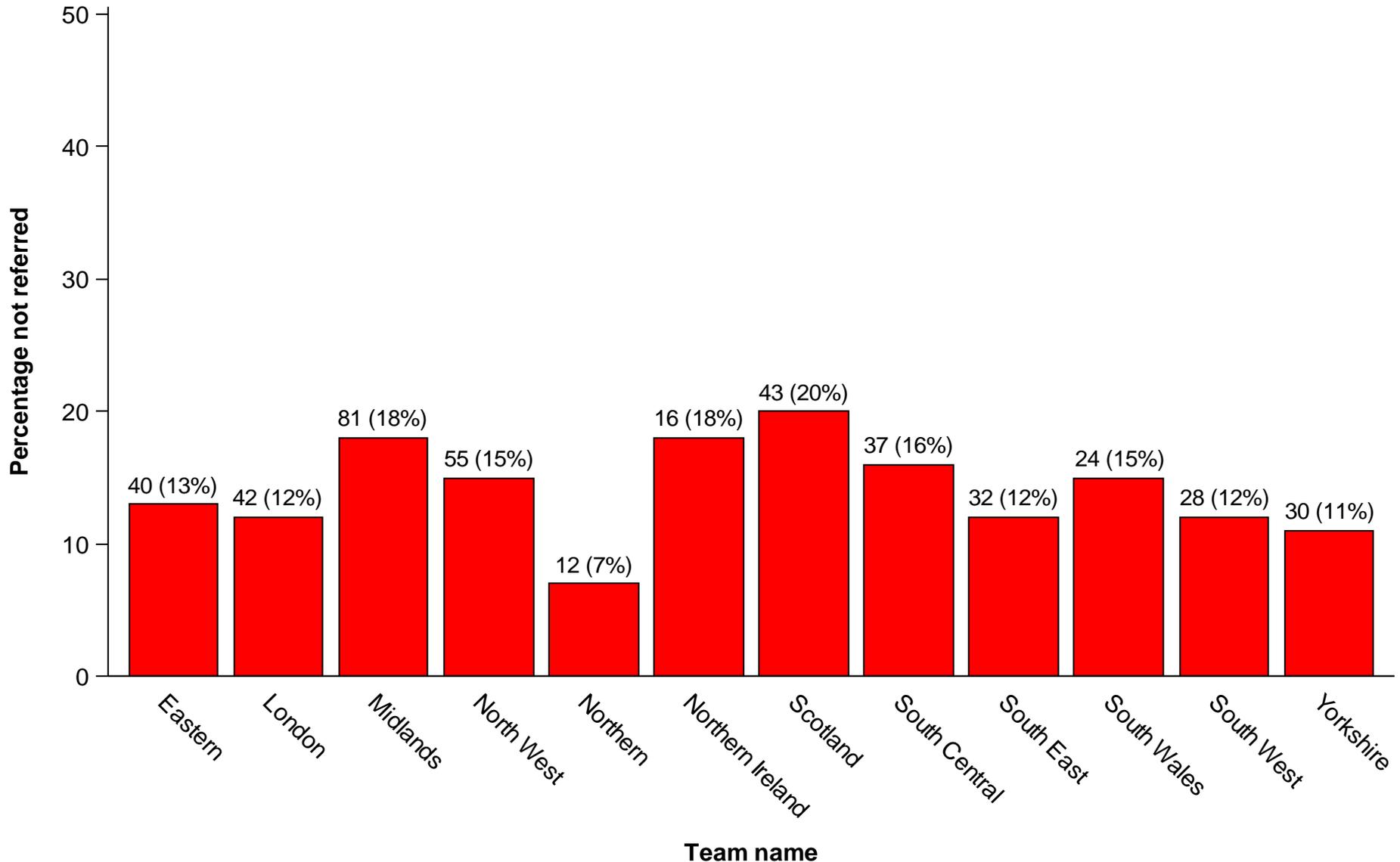
Patients that died of neurological causes of death, hypoxic brain damage or trauma



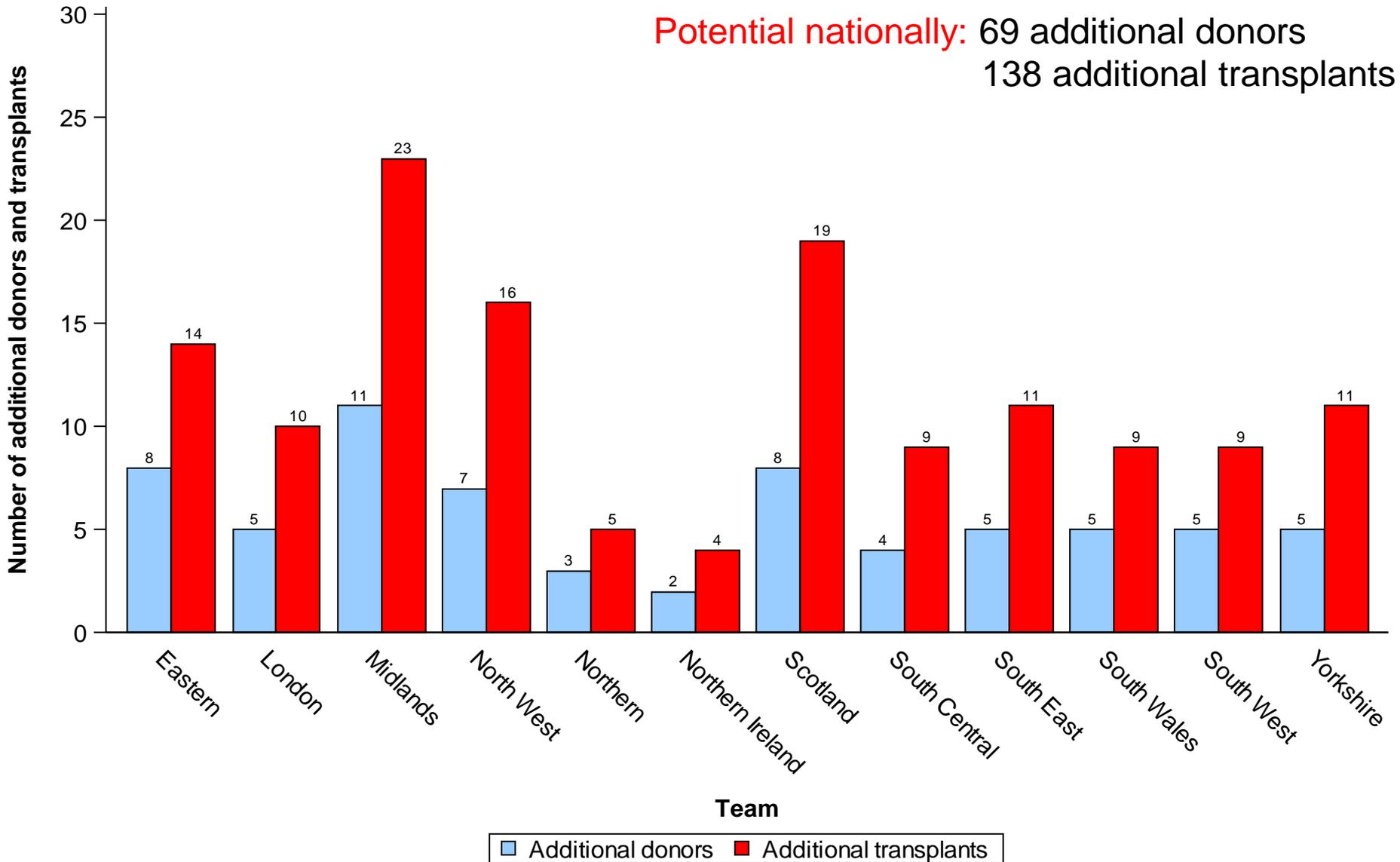
Potential additional donors and transplants



ODS team for patients that died of neurological causes of death, hypoxic brain damage or trauma



Potential additional donors and transplants per ODST team



- DCD referral rate for 2014/15 was 79%
- 92% of actual donors in 2014/15 died of neurological causes of death, hypoxic brain damage or trauma
- 6742 patients in 2014/15 met the DCD referral criteria on PDA
 - 3118 (46%) died of neurological causes of death, hypoxic brain damage or trauma
 - 440 (14%) not referred
 - Potential for an additional 69 solid organ donors and 138 transplants