

**NHS BLOOD AND TRANSPLANT  
ORGAN DONATION & TRANSPLANTATION DIRECTORATE**

HOSPITAL TRUST / BOARD REPORTS  
SUMMARY PDA DATA

**1. BACKGROUND**

The following information is based on the hospital Trust/Board reports that were sent to Clinical Leads for Organ Donation, Chief Executives and Chairs of the Donation Committees in the UK in May 2015.

This report covers the 12 months from 1 April 2014 to 31 March 2015 using data from the Potential Donor Audit (PDA). Plots of referral rate, approach rate, the proportion of approaches involving a Specialist Nurse - Organ Donation (SN-OD) and Consent/authorisation rate were produced for donors after brain death (DBD) and donors after circulatory death (DCD). Additionally, a plot of neurological death testing rate was produced for DBD. These data are presented as 'funnel plots'.

The data are based on PDA forms completed on or before 11 May 2015. Some information for this time period may be outstanding due to late reporting and difficulties obtaining patient notes so the results summarised in this report are subject to change. Due to the national PDA definitions during the time period, patients aged 80 years or over and those who did not die in critical or emergency care have been excluded from this report.

**2. DEFINITIONS**

The referral rate is the percentage of neurological death suspected, or imminent death anticipated, patients who were discussed with the SN-OD.

The approach rate is the percentage of eligible donor families approached for consent to/authorisation for donation.

The SN-OD involvement rate is the percentage of families approached where the Specialist Nurse - Organ Donation was involved.

The consent/authorisation rate is the percentage of families approached that consented to/gave authorisation for donation.

A neurological death suspected patient is described as a patient who meets all of the following criteria: apnoea, coma from known aetiology and unresponsive, ventilated, fixed pupils, excluding those not tested due to reasons 'cardiac arrest despite resuscitation', 'brainstem reflexes returned', 'neonates – less than 2 months post term'.

The neurological death testing rate is the percentage of patients for whom neurological death was suspected who were tested.

**3. INTERPRETING THE PLOTS**

Each Trust/Board is represented on the plot as a blue dot, although one dot may represent more than one Trust/Board if two Trusts/Boards have the same number of the specified patient type and the same rate presented. The national target is shown on the plot as a green horizontal dashed line. The national rate is shown on the plot as a black horizontal

dashed line, together with 95% and 99.8% confidence limits for this rate. These limits form a 'funnel', which is shaded using the gold, silver, bronze, amber, and red (GoSBAR) colour scheme. Graphs obtained in this way are known as funnel plots.

If a Trust/Board lies within the 95% limits, shaded bronze, then that Trust/Board has a rate that is statistically consistent with the national rate. If a Trust/Board lies outside the 95% confidence limits, shaded silver or amber, this serves as an alert that the Trust/Board may have a rate that is significantly different from the national rate.

When a Trust/Board lies above the upper 99.8% limit, shaded gold, this indicates a rate that is significantly higher than the national rate, while a Trust/Board that lies below the lower limit, shaded red, has a rate that is significantly lower than the national rate. It is important to note that differences in patient mix have not been accounted for in these plots.

#### 4. HOSPITAL TRUST/BOARD FUNNEL PLOTS, 1 April 2014 - 31 March 2015

Neurological death testing rates for patients with suspected neurological death (ND) are shown in Figure 1. Of the Trusts/Boards with more than 10 patients with suspected neurological death, there are none that fall below the lower 99.8% confidence limit. Several Trusts/Boards have a significantly high testing rate, and four fall between the upper 95% and 99.8% confidence limits indicating potentially high testing rates.

**Figure 1 Testing rate by number of ND suspected patients**

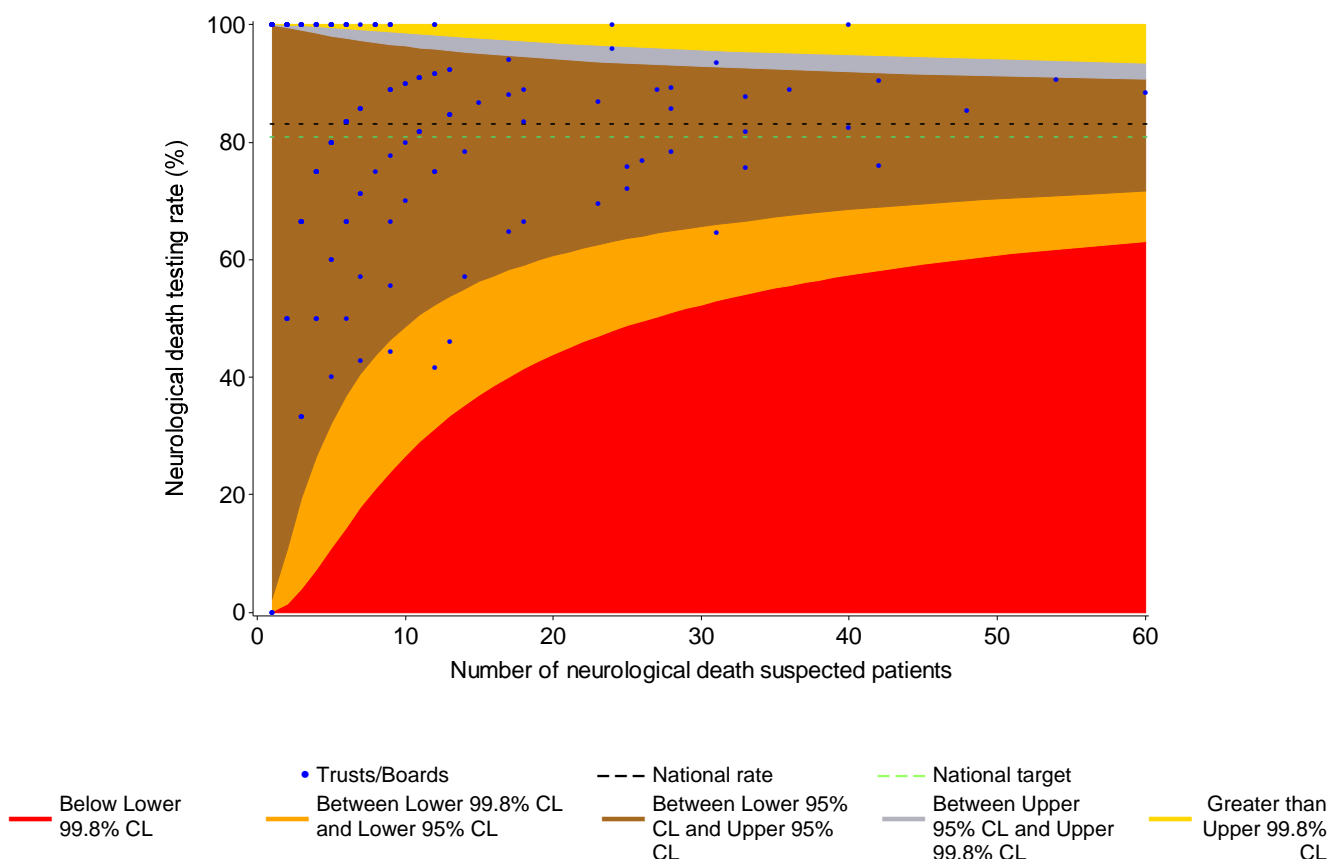
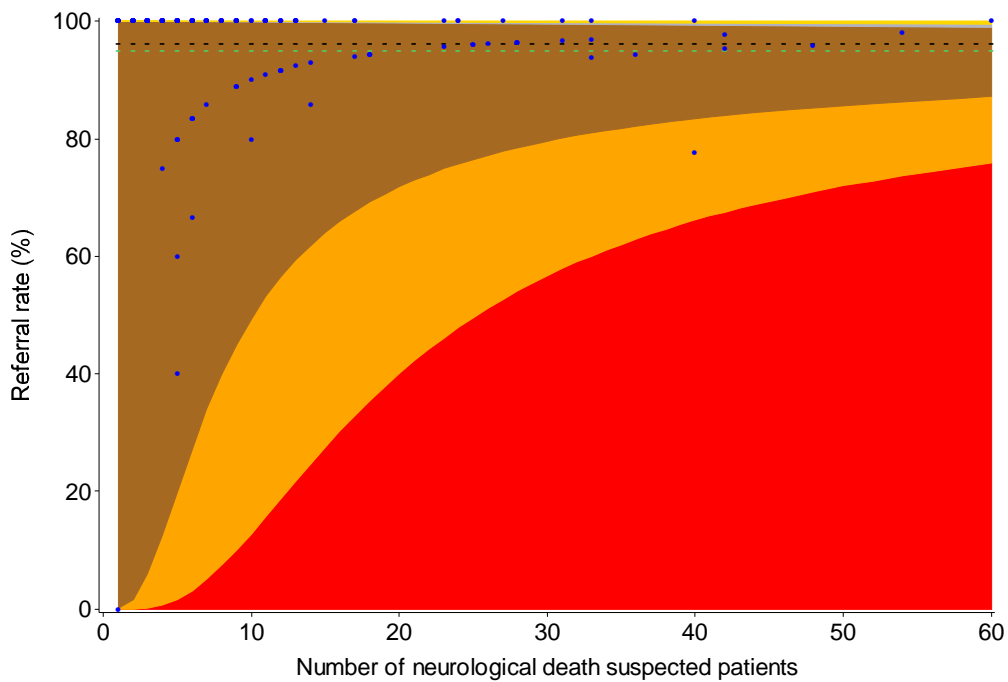


Figure 2 shows the referral rate for each Trust/Board by the number of patients with suspected neurological death. Compared with the national average, only one Trust/Board with more than 10 patients with suspected neurological death has a potentially low referral rate, lying in the amber region between the lower 95% and 99.8% boundaries. Many Trusts/Boards have a significantly high referral rate of 100% situated in the gold shaded region.

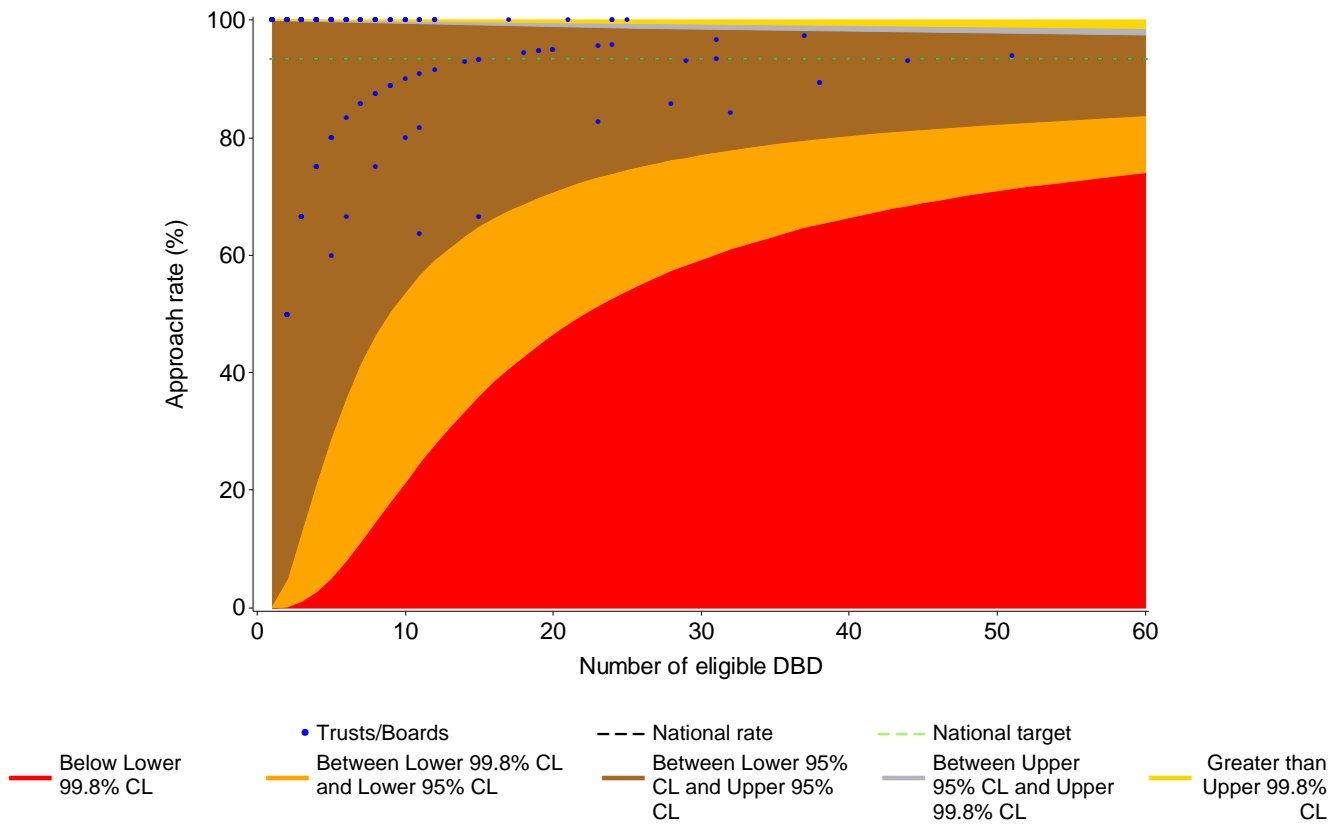
**Figure 2 DBD referral rate by number of ND suspected patients**



- █ Below Lower 99.8% CL
- █ Between Lower 99.8% CL and Lower 95% CL
- █ Between Lower 95% CL and Upper 95% CL
- █ Between Upper 95% CL and Upper 99.8% CL
- █ Greater than Upper 99.8% CL
- Trusts/Boards
- National rate
- - - National target

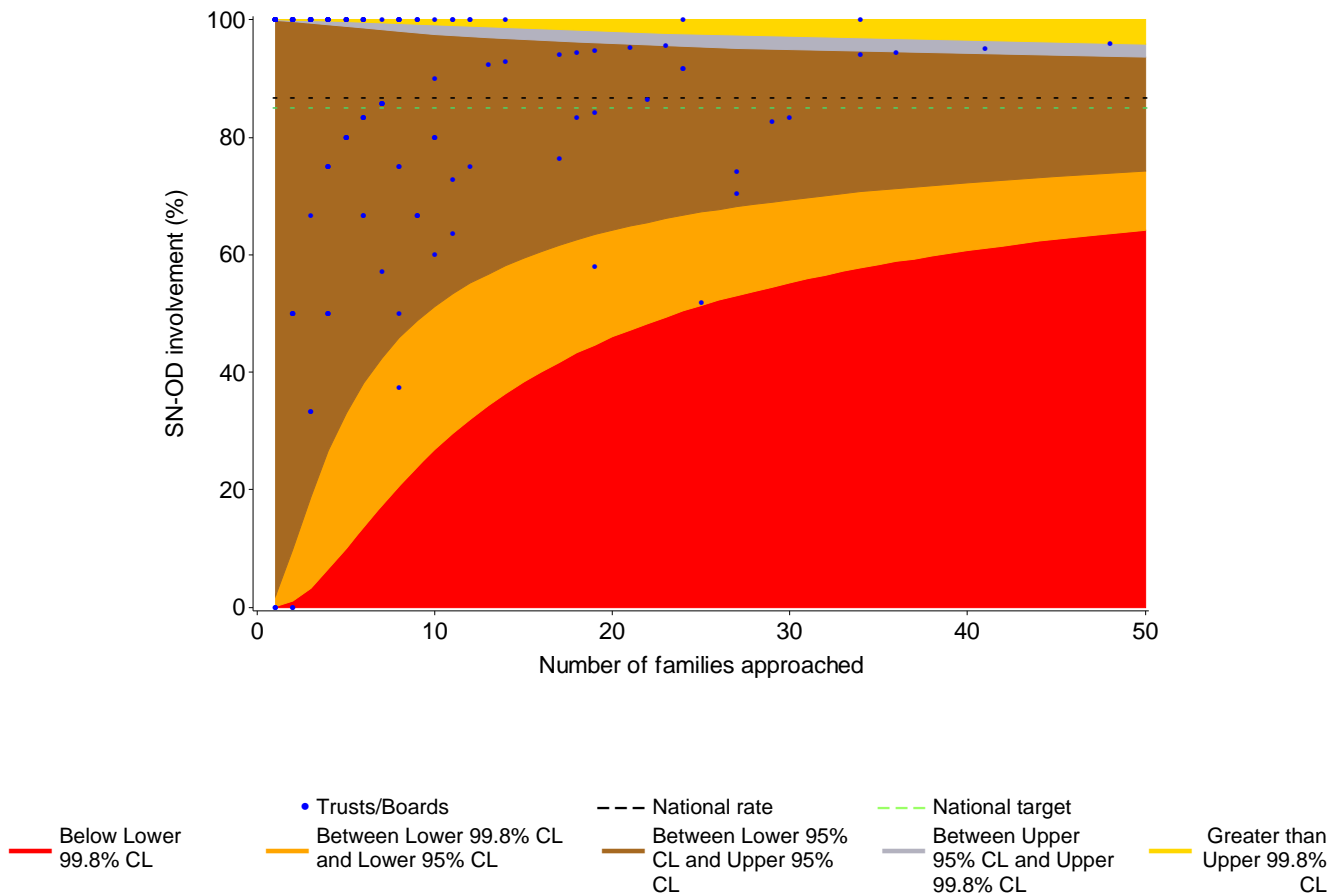
The approach rate of each Trust/Board against the number of eligible DBD is shown in Figure 3. There are several Trusts/Boards that have a significantly high approach rate of 100%. No Trusts/Boards have a significantly low DBD approach rate.

**Figure 3 DBD approach rate by number of eligible DBD**



The proportion of approaches that involved a SN-OD at each Trust/Board against the number of families that were approached for consent to/authorisation for DBD donation is shown in Figure 4. Of the Trusts/Boards with more than 10 families approached, several have a significantly high SN-OD involvement rate, but none are significantly low. There are five Trusts/Boards that have a SN-OD involvement rate between the upper 95% and 99.8% confidence limits, and two between the lower 95% and 99.8% confidence limits.

**Figure 4 DBD SN-OD involvement rate by number of families approached**



The consent/authorisation rate of each Trust/Board against the number of families that were approached for consent to/authorisation for DBD donation is shown in Figure 5. Of the Trusts/Boards with more than 10 families approached, two have significantly high consent/authorisation rates. There are two Trusts/Boards that have a consent/authorisation rate falling between the 95% and 99.8% confidence limits.

**Figure 5 DBD consent/authorisation rate by number of families approached**

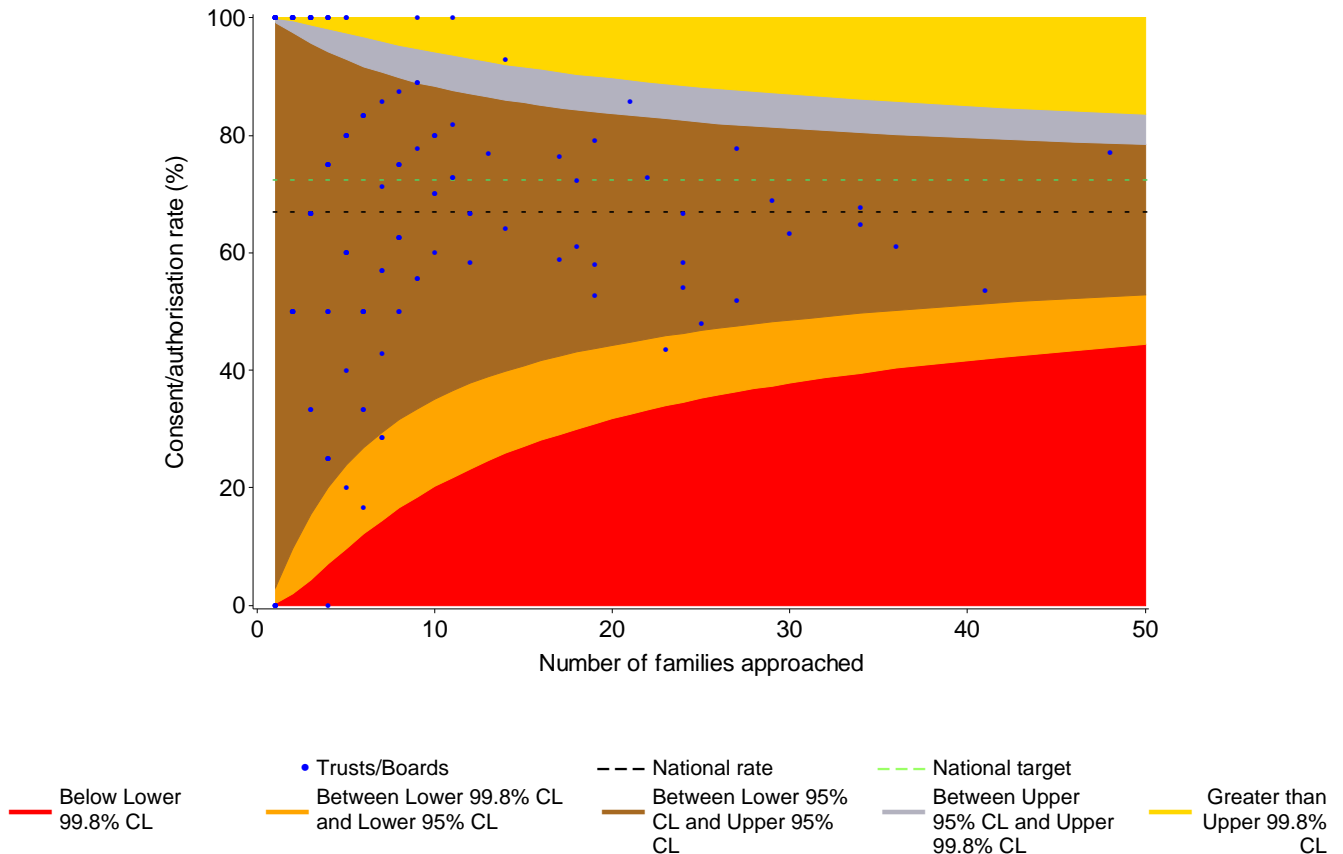
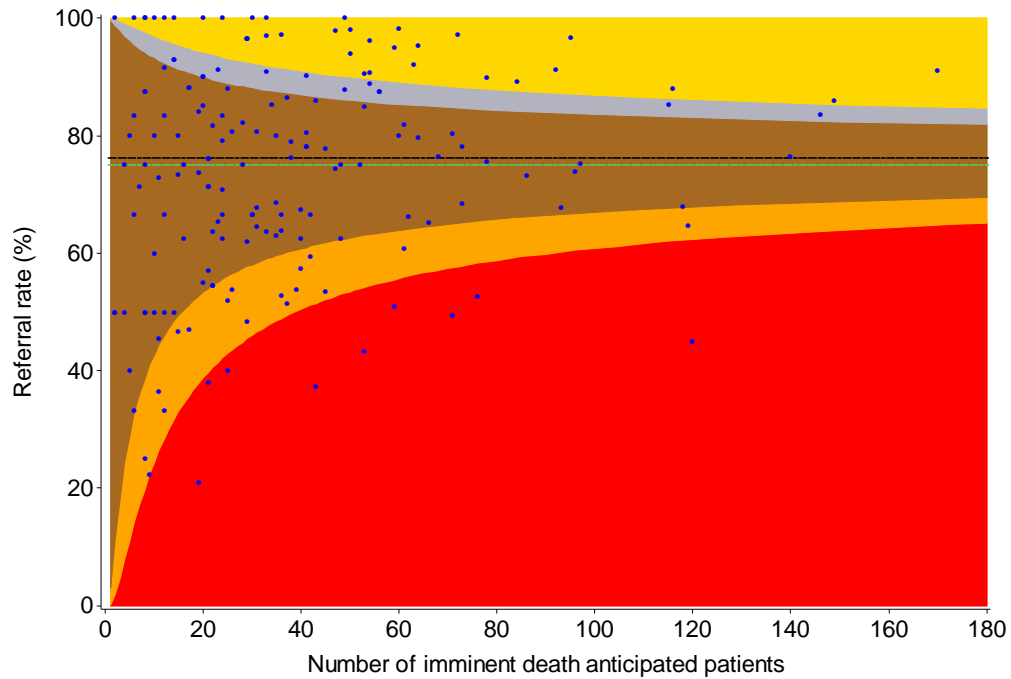


Figure 6 shows the referral rates of imminent death anticipated patients across the Trusts/Boards. There is a large amount of variation in the referral rates for the Trusts/Boards, many have significantly high referral rates and some have significantly low referral rates.

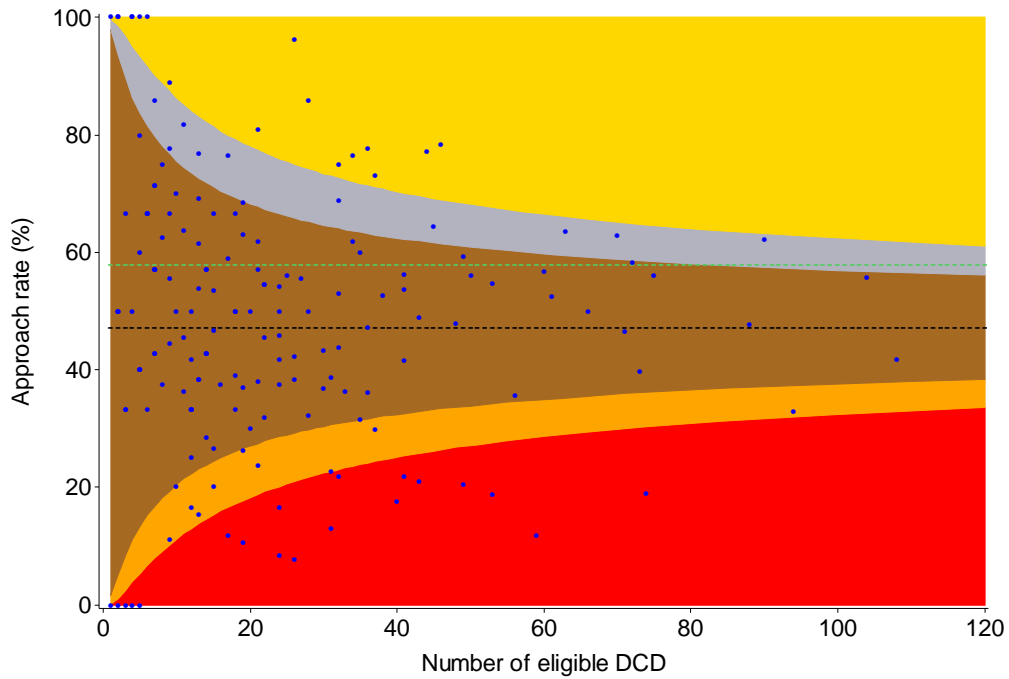
**Figure 6 DCD referral rate by number of imminent death anticipated patients**



- █ Below Lower 99.8% CL
- Trusts/Boards
- National rate
- National target
- █ Between Lower 99.8% CL and Lower 95% CL
- █ Between Lower 95% CL and Upper 95% CL
- █ Between Upper 95% CL and Upper 99.8% CL
- █ Greater than Upper 99.8% CL

The approach rate of eligible DCD families is shown in Figure 7. There are several Trusts/Boards with more than 10 eligible DCD patients with significantly high and low approach rates.

**Figure 7 DCD approach rate by number of eligible DCD**

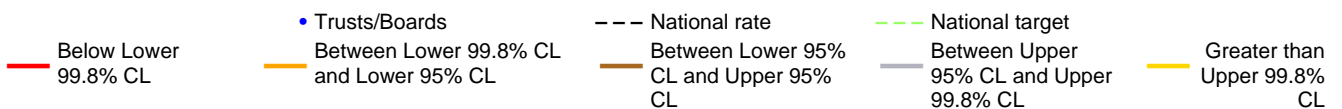
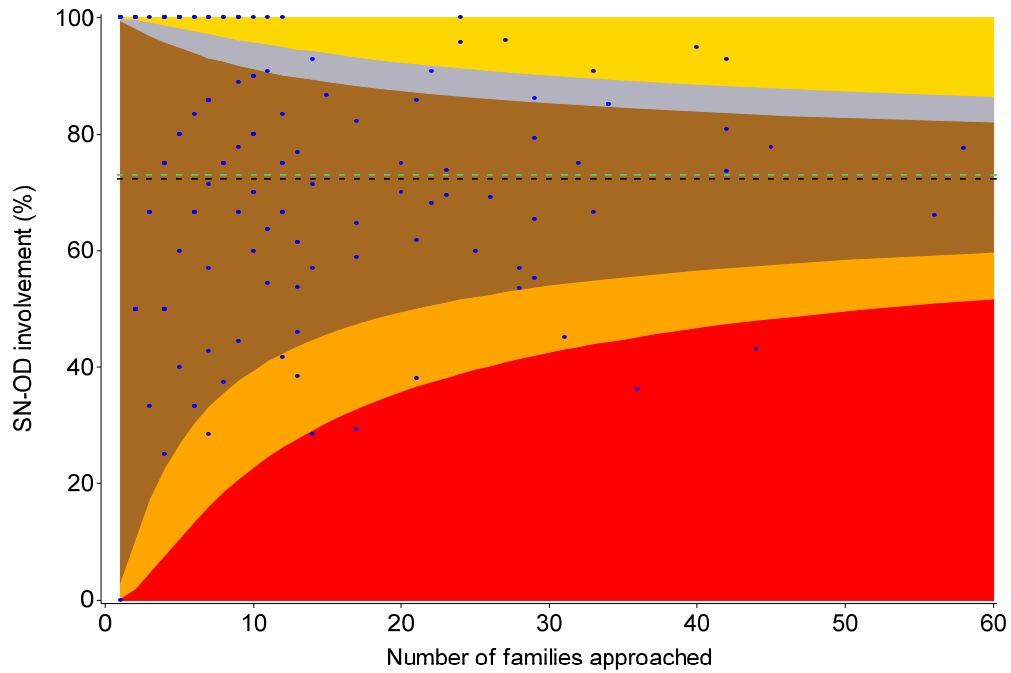


- Below Lower 99.8% CL
- Trusts/Boards
- National rate
- National target
- Greater than Upper 99.8% CL



The proportion of DCD family approaches involving a SN-OD against the number of families approached for DCD donation is shown in Figure 8. There are several Trusts/Boards (who have approached more than 10 families) that have significantly high SN-OD involvement rates compared with the national average and three with a significantly low rate. There are also several Trusts/Boards that fall between the 95% and 99.8% confidence limits.

**Figure 8 DCD SN-OD involvement rate by number of families approached**



The consent/authorisation rate of families approached for consent to/authorisation for DCD donation is shown in Figure 9. Of the Trust/Boards that approached more than 10 families, one had a significantly high consent/authorisation rate compared with the national average and one was significantly low. Three Trusts/Boards lie between the upper 95% and 99.8% confidence limits and two between the lower 95% and 99.8% confidence limits.

**Figure 9 DCD consent/authorisation rate by number of families approached**

