

## NORS Review Implementation

### Timeliness of retrieval

It has been proposed by Working Group 3 (Logistics, Quality and Reporting) of the NORS Review Implementation that there should be standards for key retrieval timings. Once approved by the National Retrieval Group these standards will form part of the new NORS contract and performance against these standards will be future KPIs.

The proposed standards for key retrieval timings are shown in **Table 1**. The data used to inform these standards were collected via the organ specific HTA-A forms and extracted from the UK Transplant Registry for proceeding deceased donors in the UK between 1 April 2014 and 31 March 2015. Histograms of the distribution of these data are shown below along with summary statistics and the proportion of times the standard/target was met (some validation was performed to remove obvious outliers, resulting in missing data of 2-9% across these figures).

The time of kidney or pancreas removal from the donor is not currently recorded so it is requested that these are collected on the future electronic quality forms. It will also be crucial to record time of cross-clamp for all donors, as this is currently only asked on the cardiothoracic HTA-A form.

**Table 1 Proposed standards for key retrieval timings**

Figure #	Organ type	Interval definition	Target time	Target % achieved	Current % achieved
Figure 1	Liver, DBD	Time perfusion commenced → Time of hepatectomy	45 mins	90%	91%
Figure 2	Liver, DCD	Time perfusion commenced → Time of hepatectomy	60 mins	90%	91%
Figure 3	Heart	Time aorta cross-clamped → Time heart placed on ice in transport box	20 mins	90%	70%
Figure 4	Lung	Time aorta cross-clamped → Time last lung placed on ice in transport box	45 mins	90%	82%
Figure 5	Kidney only, DBD	Time in situ cold perfusion commenced → Time last kidney placed into transport box	90 mins	90%	89%
Figure 6	Kidney only, DCD, not machine perfused	Time in situ cold perfusion commenced → Time last kidney placed into transport box	90 mins	90%	80%

Figure 1 Distribution of time from perfusion to hepatectomy in minutes for DBD donors

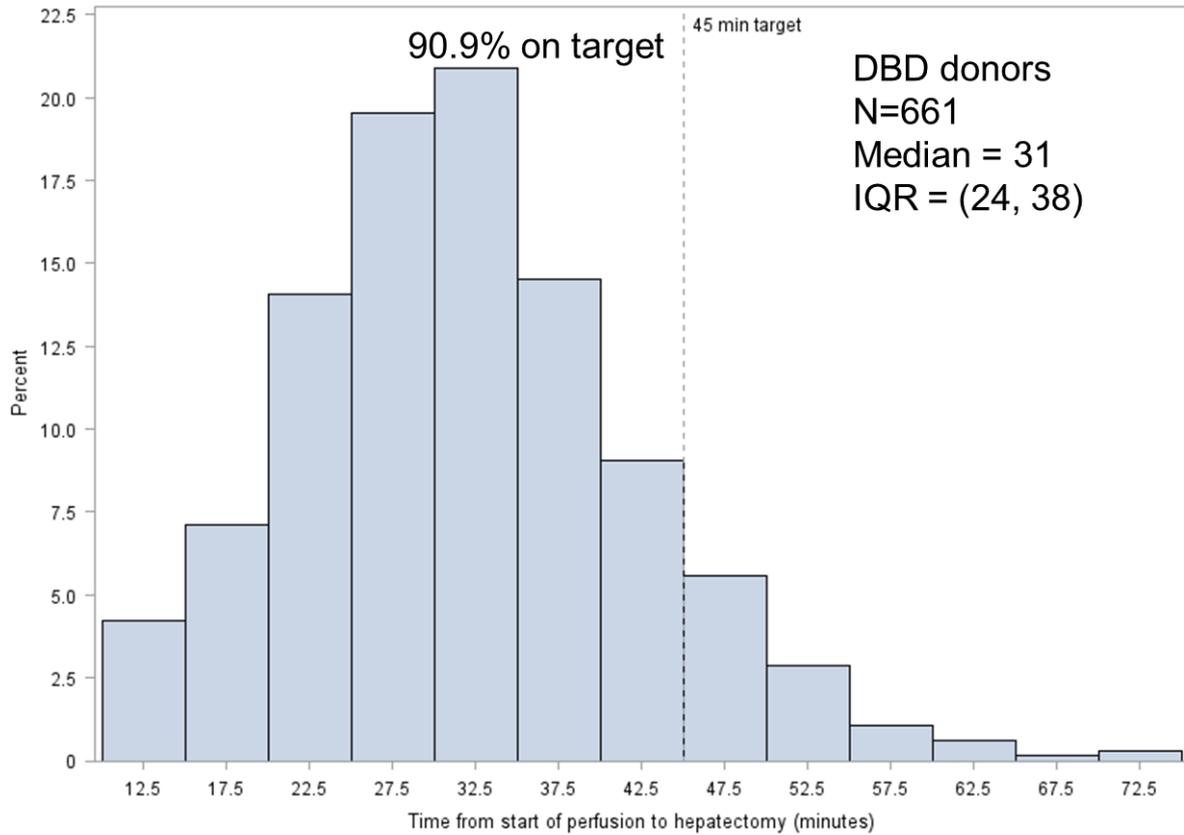


Figure 2 Distribution of time from perfusion to hepatectomy in minutes for DCD donors

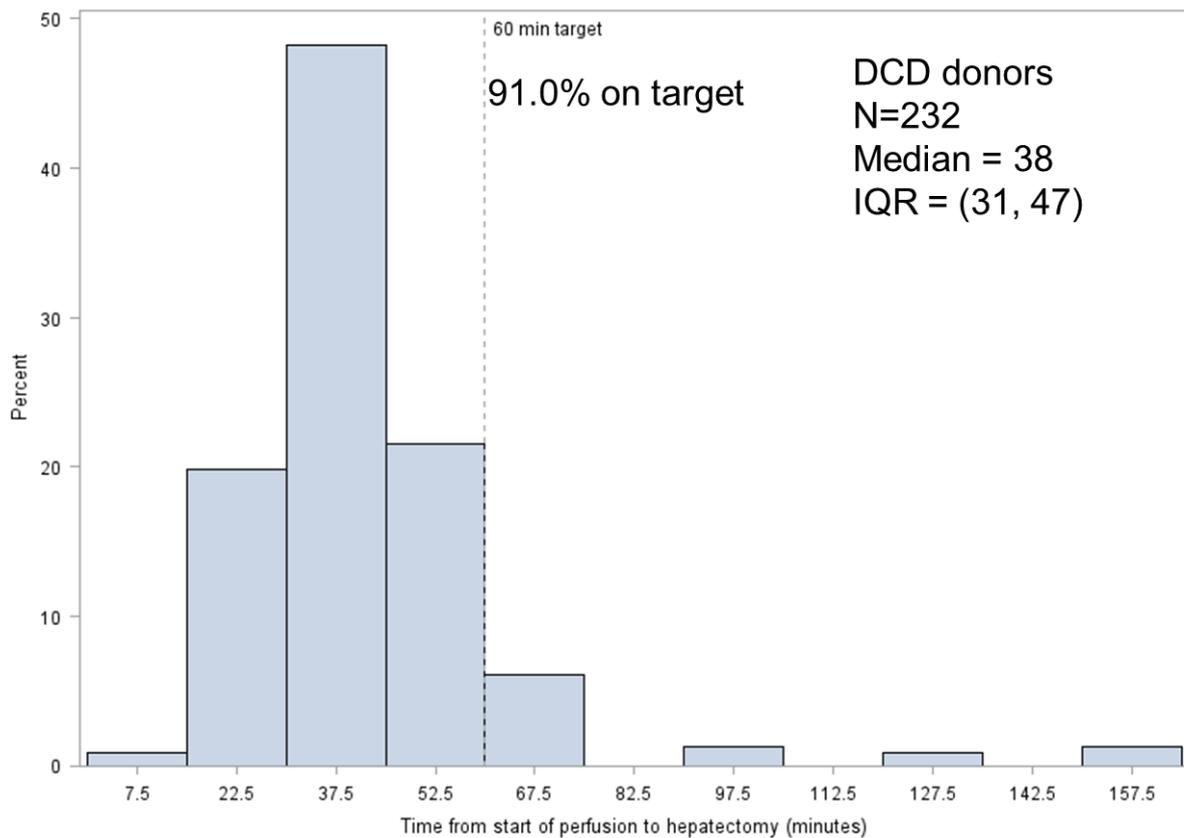


Figure 3 Distribution of time from aorta cross-clamp to heart in box in minutes

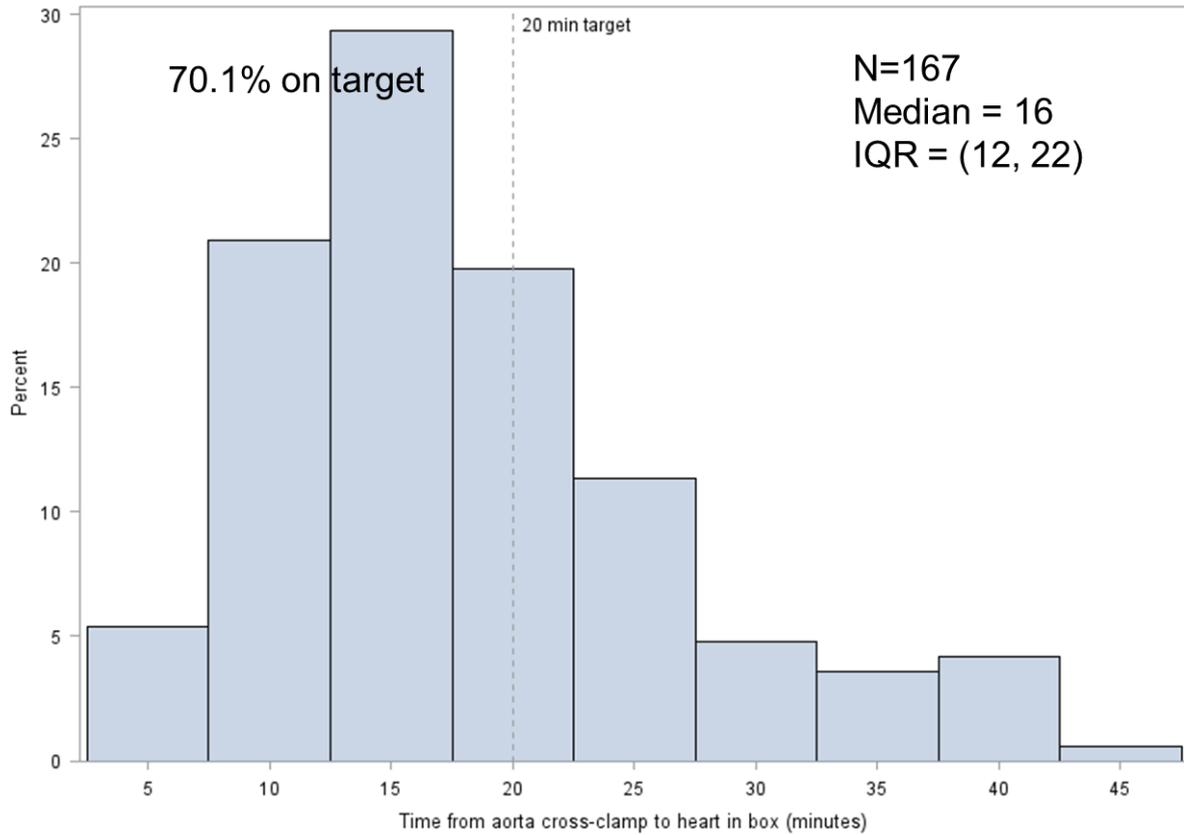
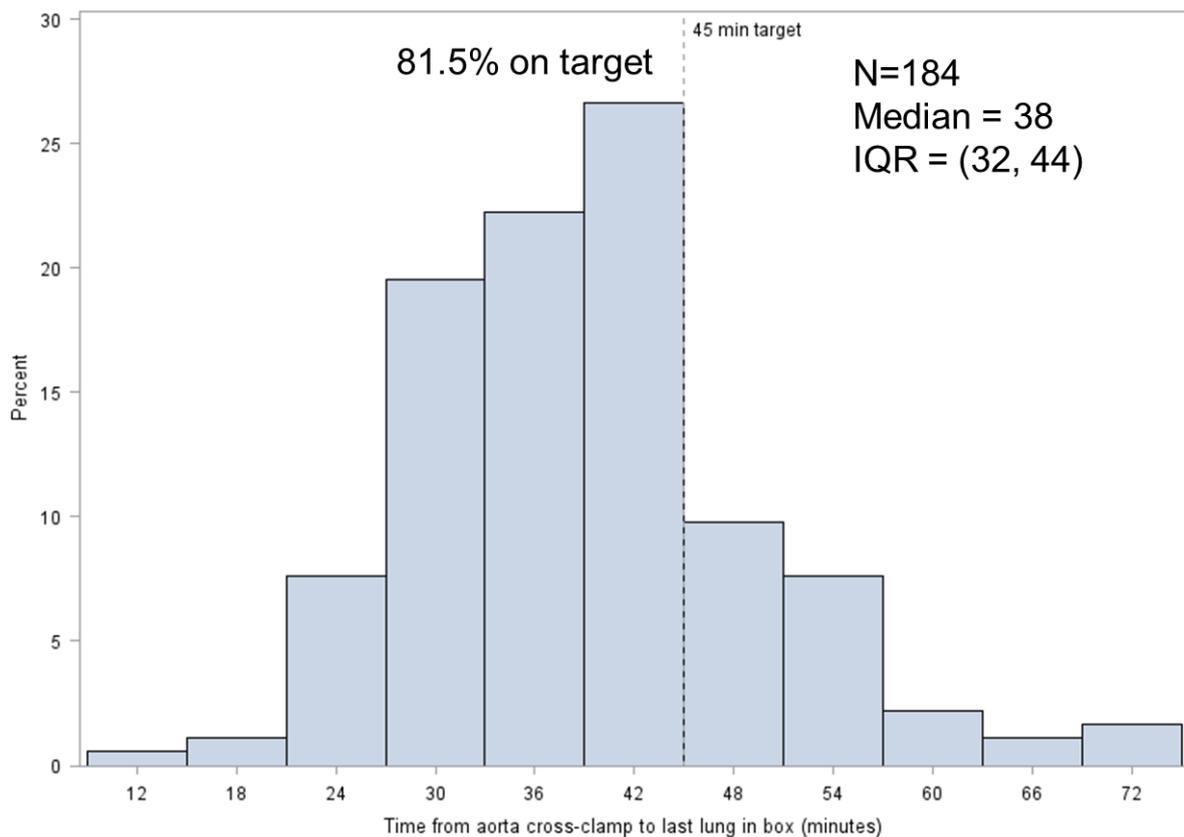
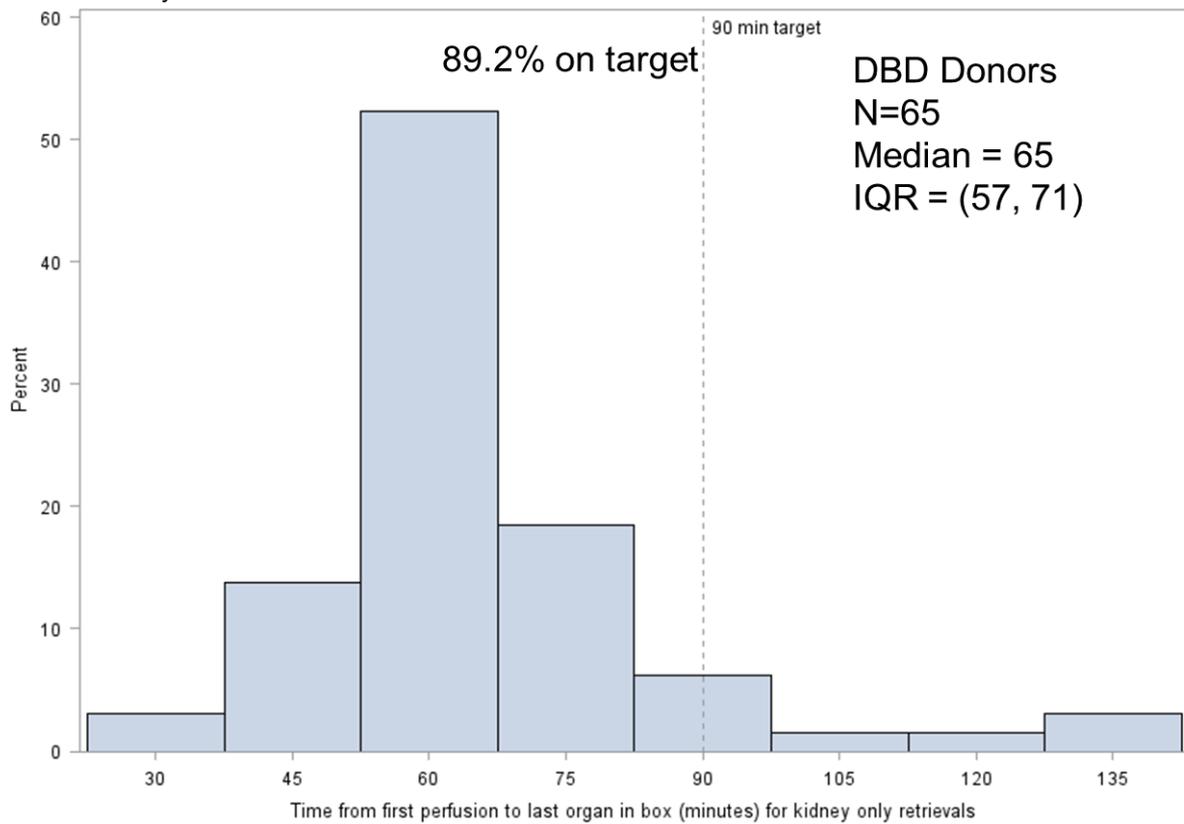


Figure 4 Distribution of time from aorta cross-clamp to last lung in box in minutes



**Figure 5** Distribution of time from in situ cold perfusion to last kidney in box in minutes for kidney only retrievals from DBD donors



**Figure 6** Distribution of time from in situ cold perfusion to last kidney in box in minutes for kidney only retrievals (without machine perfusion) from DCD donors

