1. Data were presented to CTAG in April 2017 showing some evidence of an association between high decline rates and poorer 10 year survival post listing for heart and lung transplant centres.

2. CTAG had reasonable concerns about the data for offers and the data for listing covering different time frames and therefore not being directly comparable. There was also a suggestion that shorter-term survival rates would be more relevant than the 10 year rates that were used. Therefore the analysis has been redone with 1 year survival from listing rates for patients registered during the same period as the offers, i.e. 1 April 2013 to 31 March 2016.

3. Both the new and original plots are shown below. In the new plots, the trend that was previously seen is no longer apparent.

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Statistics and Clinical Studies August 2017

New plots:
New Figure 2  Heart offer decline rates by 1 year survival rates from point of listing for heart transplant, 1 April 2013 - 31 March 2016

1 year risk-adjusted survival from listing for adult heart patients registered from 1 April 2013 to 31 March 2016
Decline rate for adult DBD heart offers which were subsequently transplanted from 1 April 2013 to 31 March 2016 (from Annual Report on Cardiothoracic Transplantation 2016)

R² = 0.0162

New Figure 3  Lung offer decline rates by 1 year survival rates from point of listing for lung transplant, 1 April 2013 - 31 March 2016

1 year risk-adjusted survival from listing for adult lung patients registered from 1 April 2013 to 31 March 2016
Decline rate for adult DBD bilateral lung offers which were subsequently transplanted from 1 April 2013 to 31 March 2016 (from Annual Report on Cardiothoracic Transplantation 2016)

R² = 0.2265
Original plots:

**Figure 1** Liver offer decline rates by 10 year survival rates from point of listing for liver transplant

*Figures from Annual Report on Liver Transplantation 2016*

10 year survival for registrations for adult elective patients from 1 January 2004 to 31 December 2015
Decline rate for whole liver offers declined for DBD aged<=65 which were subsequently transplanted from 1 April 2013 to 31 March 2016

**Figure 2** Heart offer decline rates by 10 year survival rates from point of listing for heart transplant

*Figures from Annual Report on Cardiothoracic Transplantation 2016*

10 year survival for registrations for adult heart patients from 1 January 2004 to 31 December 2015
Decline rate for adult heart offers declined which were subsequently transplanted from 1 April 2013 to 31 March 2016
Figure 3  Lung offer decline rates by 10 year survival rates from point of listing for lung transplant

Harefield  
Newcastle  
Papworth  
Manchester  
Birmingham

$R^2 = 0.6407$

Figures from Annual Report on Cardiothoracic Transplantation 2016
10 year survival for registrations for adult lung patients from 1 January 2004 to 31 December 2015
Decline rate for adult bilateral lung offers declined which were subsequently transplanted from 1 April 2013 to 31 March 2016