

NHS BLOOD AND TRANSPLANT

PANCREAS ADVISORY GROUP

SUMMARY OF CUSUM MONITORING OF OUTCOMES FOLLOWING PANCREAS
TRANSPLANTATION

INTRODUCTION

1. NHSBT monitors short-term patient outcomes following organ transplantation through centre specific cumulative sum (CUSUM) analyses. These are undertaken quarterly for pancreas transplantation. These 'within centre' analyses enable prompt detection of any changes in failure and mortality rates, providing external assurance and enabling centres to compare current outcomes with their own past performance to assist in internal auditing.
2. The methods used in the analysis are based on CUSUM monitoring and compare current outcome rates with an expected rate.
3. Each quarter, CUSUM monitoring reports on 30-day graft failure and mortality following pancreas transplantation are produced and sent to each centre. This paper summarises the results of these reports for the six month period since the last Pancreas Advisory Group meeting. Where signals have occurred, actions that were taken and lessons learnt are noted.

RESULTS

4. **Table 1** shows that over the six month period since the last Pancreas Advisory Group meeting there have been three signals in pancreas transplantation CUSUM reporting. The details are noted below.
5. Three signals were identified at Guy's, Oxford and Manchester. Changes to historic data used to calculate the rate against which the centres are monitored have caused the signals to appear on these reports rather than on earlier reports. Transplants that had been incorrectly recorded as graft failures were changed to deaths with a functioning graft and as a result the rate against which the centres were monitored improved, causing these signals to appear.
6. An investigation was undertaken for the signal at Guy's: they have reviewed their acceptance criteria and taken steps to ensure cold ischaemia time is as short as possible. We will continue to monitor outcomes in the usual time frame. An investigation was undertaken for the signal at Oxford and this investigation is still outstanding. The signal identified at Manchester did not require investigation as it had previously been investigated.

Table 1				
Month CUSUM report issued	No. reports issues	No. signals	No. signals requiring investigation	No. investigations outstanding
December	8	1	1	0
March	8	2	1	1
Total	16	3	2	1

CONCLUSION

7. Over the six month period since the last Pancreas Advisory Group meeting there have been three signals in pancreas transplantation CUSUM reporting and two required investigation.