

**NHS BLOOD AND TRANSPLANT
ORGAN DONATION AND TRANSPLANTATION DIRECTORATE
KIDNEY 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 kidney 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 mortality and graft failure following kidney transplantation are produced and sent to each centre. This paper summarises the results of these reports for the five month period since the last Kidney Advisory Group meeting. Where signals have occurred, actions that were taken and lessons learnt are noted.

RESULTS

4. **Table 1** shows that over the five month period since the last Kidney Advisory Group meeting there have been four signals in kidney transplantation CUSUM reporting. The details are noted below.
5. A signal in the CUSUM monitoring of 30 day graft failure following adult living kidney transplantation was identified at Manchester. An investigation was undertaken and no underlying issues were identified and we will continue to monitor outcomes in the usual time frame.
6. Three signals in the CUSUM monitoring of 30 day graft failure following adult deceased kidney transplantation were identified at Belfast, Bristol and St George's. An investigation was undertaken for the signal at Bristol and no underlying issues were identified and we will continue to monitor outcomes in the usual time frame. An investigation was undertaken for the signal at Belfast and this investigation is still outstanding. The signal identified at St George's did not require investigation as it resulted from a data change which had previously been investigated.

Table 1				
Month CUSUM report issued	No. reports issues	No. signals	No. signals requiring investigation	No. investigations outstanding
June	66	1	1	0
Adult deceased	23	0	-	-
Adult living	23	1	1	0
Paediatric deceased	10	0	-	-
Paediatric living	10	0	-	-
September	46	3	2	1
Adult deceased	23	3	2	1
Adult living	23	0	-	-
Total	112	4	3	1

CONCLUSION

7. Over the five month period since the last Kidney Advisory Group meeting there have been four signals in kidney transplantation CUSUM reporting. One investigation is still outstanding.

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