NHS BLOOD AND TRANSPLANT

PAEDIATRIC SUB GROUP OF THE KIDNEY ADVISORY GROUP

MONITORING DECEASED DONOR ACTIVITY FOR PAEDIATRICS

BACKGROUND

1 The UK Deceased Donor Kidney Offering Scheme was implemented on 11th September 2019. All deceased organ donor kidneys are allocated through this scheme with recipients grouped into Tier A and Tier B.

2 Tier A includes patients with a matchability score of 10, those with 100% cRF, or those waiting for 7 years or more. Patients in this tier are prioritised by matchability score and waiting time from dialysis. Tier B includes all other patients, prioritised using a point score.

3 In the previous scheme DBD donor kidneys were allocated by national rules to Tiers A to E. Tiers A and B in this 2006 scheme consisted of 000 mismatch paediatric patients, priority and others, respectively.

4 NHSBT are monitoring activity in the new scheme as part of regular KAGPSG papers using summary statistics, however a more detailed graphical approach is proposed, this paper sets out the methods for this approach and presents first findings.

METHODS

5 To monitor activity for paediatrics under the current deceased donor kidney offering scheme a control chart method is used. A baseline period, prior to the change in scheme, from April 2018 to June 2019 is used to calculate a baseline quarterly average. Control chart limits are defined using 2- and 3-standard deviations above and below this baseline average. If current activity exceeds either lower limit lines this would suggest possible deviation from the baseline and would then require further investigation.

RESULTS

6 **Figure 1** presents a control chart monitoring offers to paediatrics. As predicted with simulations prior to the introduction of the 2019 offering scheme, there was an initial drop in activity for paediatric offering. This was predicted due to the backlog of very difficult to match recipients that had accumulated under the previous scheme, now having priority under the new scheme. However, from July 2020 to September 2022 activity moves around the baseline rate and does not cross lower limit lines, indicating no deviation from baseline activity after the initial settling in period of the scheme.

7 **Figure 2** presents a control chart for transplant activity. A similar pattern is observed in this figure, transplant activity moves around the baseline and does not cross over the lower limit lines from January 2021 onwards.

FUTURE MONITORING

8 Future editions of the monitoring charts presented will be included within existing KAGPSG monitoring papers.

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Figure 1 – Control chart monitoring offers to paediatrics, 1 October 2019 – 30 September 2022

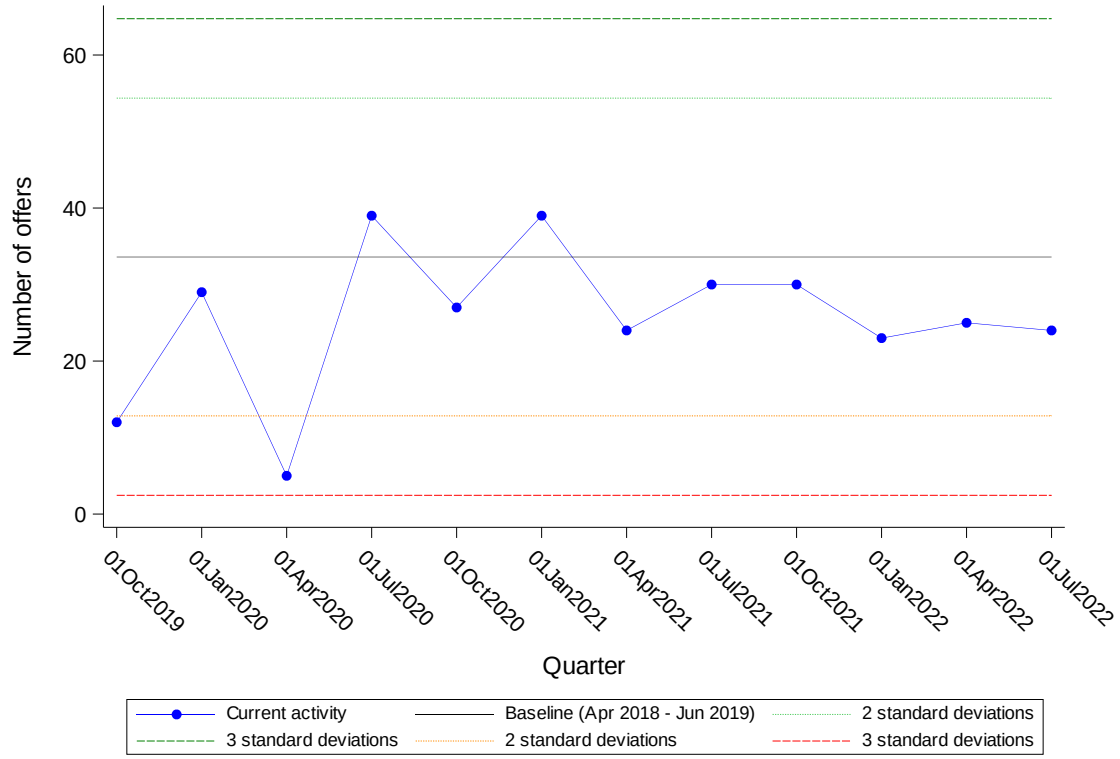


Figure 2 – Control chart monitoring transplants in paediatrics, 1 October 2019 – 30 September 2022

