

NHS BLOOD AND TRANSPLANT

KIDNEY ADVISORY GROUP

PROPOSED CHANGE TO NEW NATIONAL KIDNEY OFFERING SCHEME

INTRODUCTION

- 1 Three working groups were established to consider whether changes were required to the 2006 UK Kidney Allocation Scheme to reflect the increased use of donors after circulatory death (DCD) and generally older, more challenging donor kidneys.
- 2 The working groups agreed that a new Kidney Offering Scheme should be introduced to better match patient and graft life expectancy, to give more priority to difficult to match patients and, where HLA matching is deemed appropriate, all loci should be considered (HLA-A, B, Cw, DR, DQ).
- 3 The proposed kidney offering scheme was disseminated for a final consultation period on 19 April 2018 and closed on 31 May 2018 to all Kidney Transplant Centres and Renal Units in the UK and was given final sign-off at the Kidney Advisory Group meeting on 7th June 2018.
- 4 Following centre sign-off, concerns were raised by patient groups at both the NHSBT Kidney Patient Support Group meeting in July 2018 and at UK Kidney Week in June 2018 about the length of time older patients were having to wait for a kidney transplant in return for the poorest quality donor kidneys.
- 5 In response to this, further simulations have been produced to slightly alter the HLA and Age combined points and results of the preferred simulation are shown in this report.

PROPOSED CHANGE

- 6 A further 10 simulations were produced to try to identify an acceptable solution to the concerns raised around waiting time to transplant for older patients without negatively impacting the waiting time for paediatrics and young adults.
- 7 **Figure 1** shows the proposed change to the HLA and Age combined points for the favoured simulation. Fewer points are given for younger patients where a HLA Level 3 ([0 DR and 2 B] or [1 DR and 1 B]) or Level 4 ([1 DR and 2 B] or [2 DR]) match has been identified, with points increasing as the recipients age increases. For HLA Level 1 (000) or Level 2 ([0 DR and 0/1 B] or [1 DR and 0 B]) matches, points still decrease as age increases until around the age of 55 where points start to increase again.

RESULTS

- 8 **Figure 2** shows the median waiting time of patients on the list at the end of year 4 of the simulations for the current 2006 scheme, the original proposed scheme and revised proposed scheme, simulation 36 (S36). S36 maintains a shorter waiting time for paediatric patients although slightly longer than that of the previous proposed and current 2006 schemes.
- 9 **Figure 3** shows a further breakdown of the waiting time by age for S36 at the end of year 4.
- 10 **Figure 4** shows the HLA breakdown by age for transplants performed during the 4 years of each simulation. S36 provides a higher level of matching for paediatric patients with more Level 1 matches identified compared to the previously proposed scheme. Increased levels of matching are also seen for the older patients.
- 11 **Figure 5** shows the median waiting time on the list at the end of year 4 of the simulations by matchability, sensitisation (cRF), ethnicity and blood group. The proposed change does not impact on the waiting time for each of these factors shown.
- 12 **Figure 6** shows the DRI by RRI for transplants performed during the 4 years of each simulation. A higher proportion of D3 donor kidneys are being transplanted into R3 and R4 recipients in S36 compared with the previously proposed scheme.

ACTION

- 13 Members of the Kidney Advisory Group are asked to consider this information and, if appropriate give their final endorsement.

Figure 1 Proposed change to the HLA and Age combined points

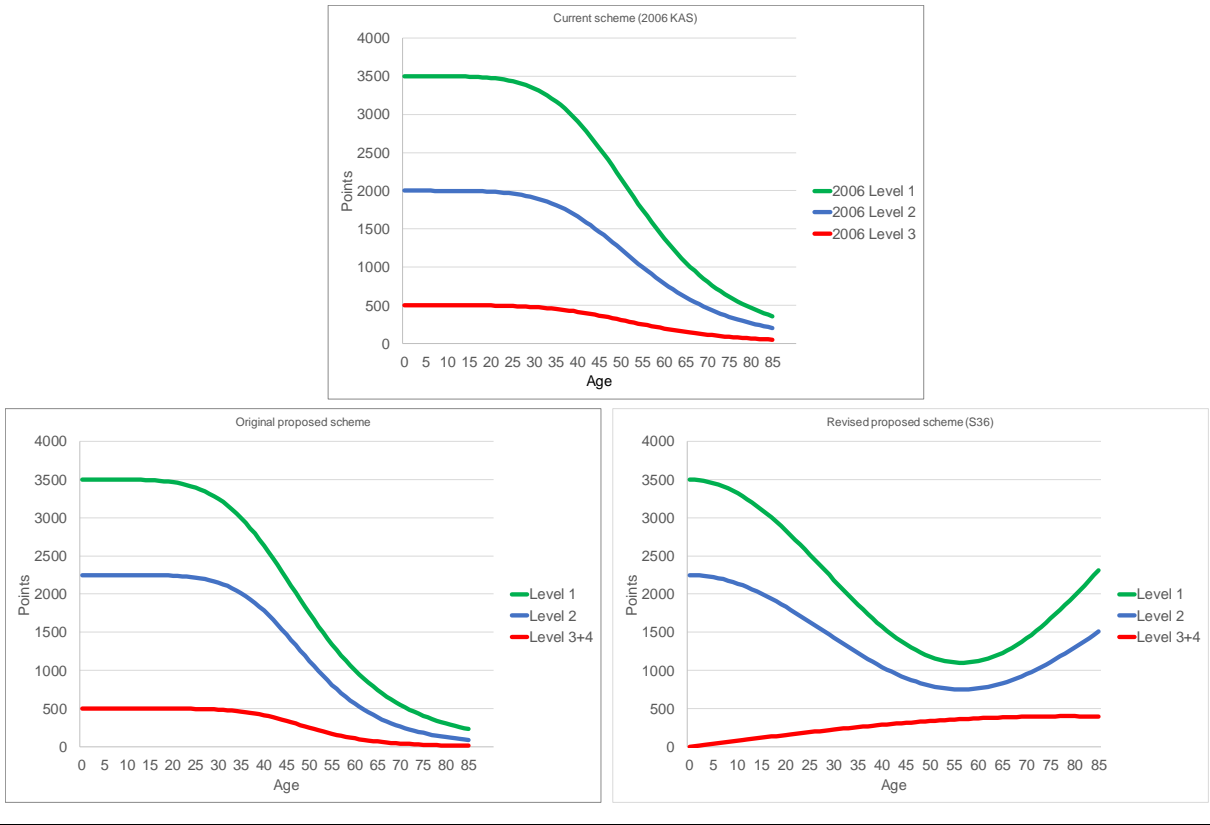


Figure 2 Median waiting time of patients on the list at the end of year 4 of the simulation

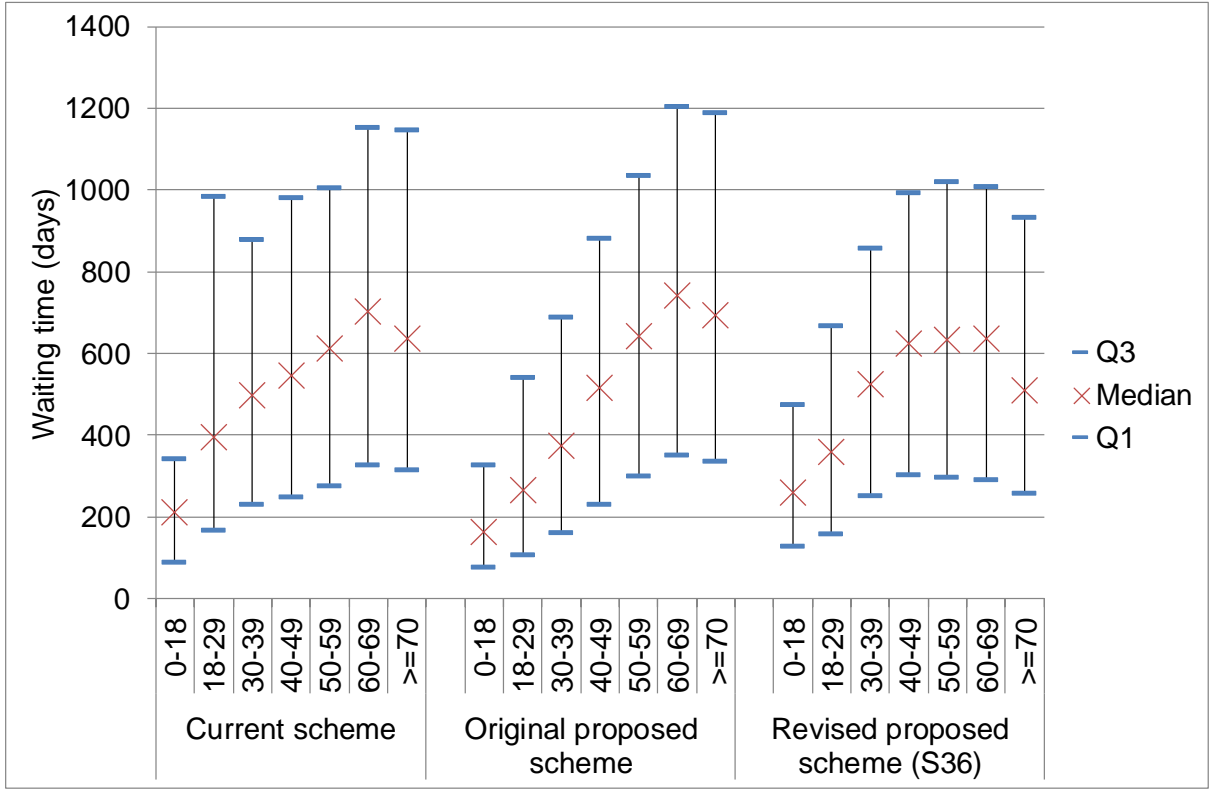


Figure 3 Median waiting time of patients on the list at the end of year 4 of revised proposed scheme (S36) by age

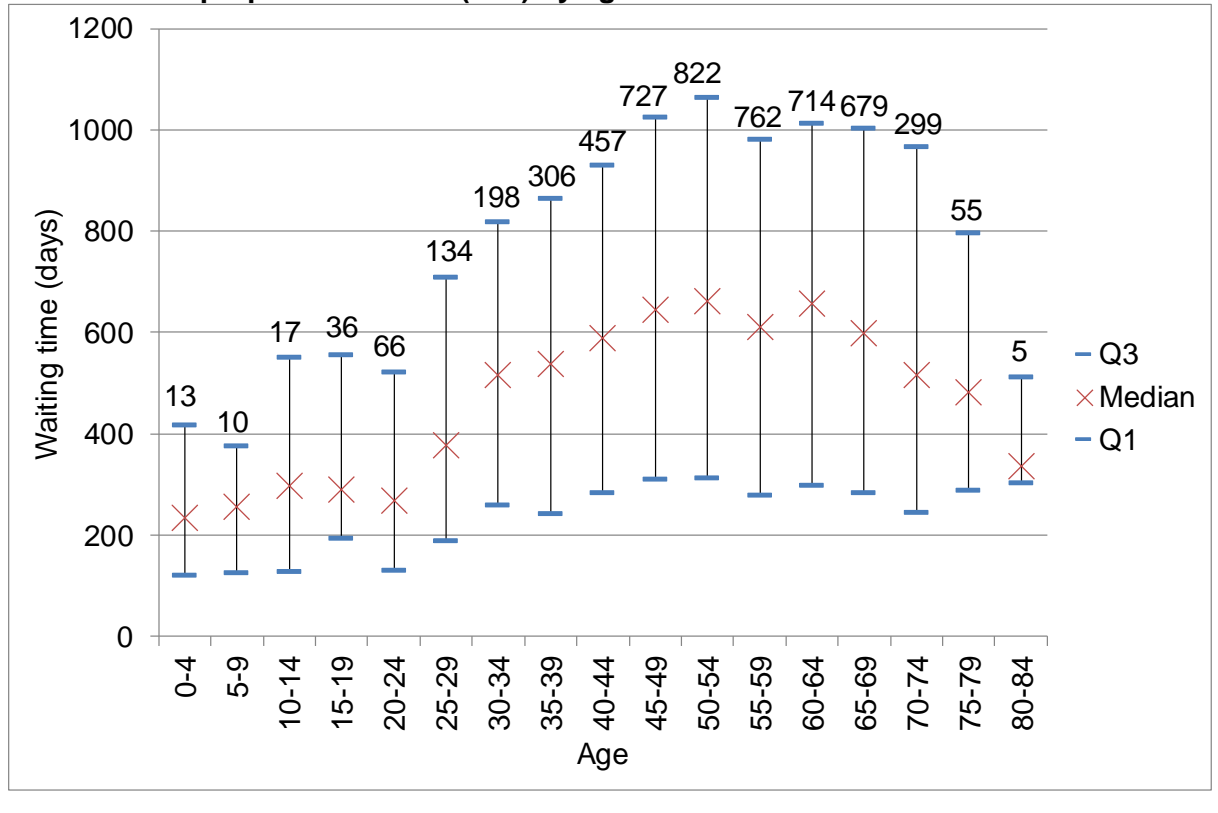


Figure 4 HLA breakdown by age for transplants performed during 4 years of simulations

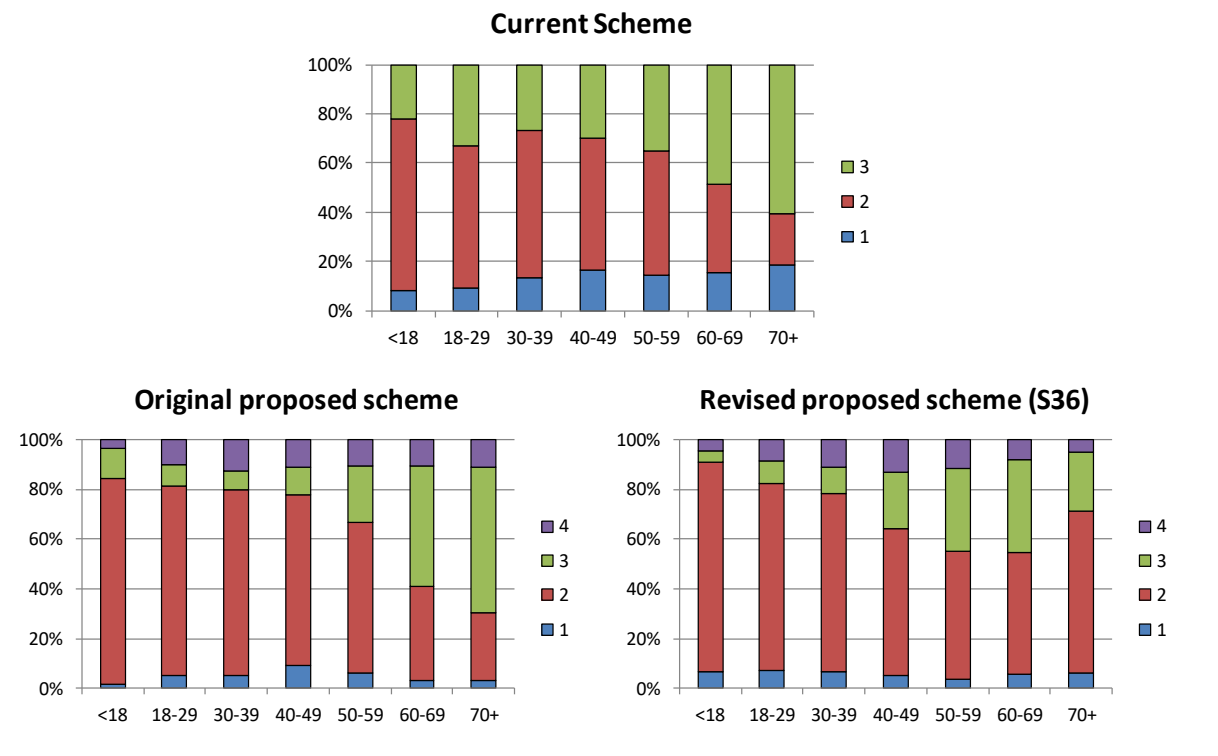


Figure 5 Median waiting time of patients on the list at the end of year 4 of the simulations by recipient characteristics

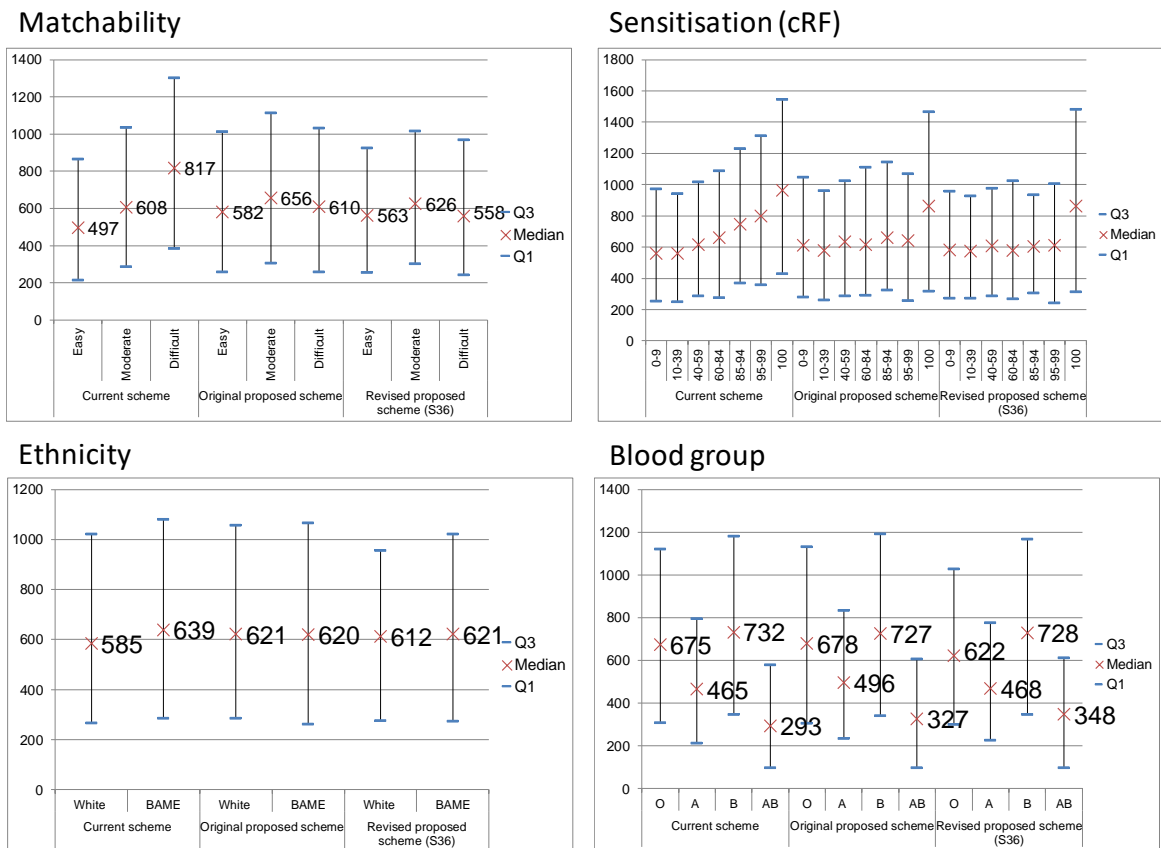


Figure 6 DRI by RRI for transplants performed during 4 years of simulations

