

NHS BLOOD AND TRANSPLANT

CARDIOTHORACIC ADVISORY GROUP - LUNG

LUNG OFFERING SCHEME UPDATE

INTRODUCTION

- 1 Two changes were implemented to the UK Lung Offering Scheme on 13 October 2020 that had previously been agreed by CTAG:
 - All paediatric patients (age<16) to receive offers of lungs from paediatric donors (age<16) before adult patients, which meant moving the Super-Urgent Adult and Small Adult tier beneath the Non-Urgent Paediatric tier in the paediatric donor lung sequence. See Figure 2 below.
 - Removal of the Non-Urgent Small Adult tier from both the adult donor and paediatric donor lung sequences, and the Non-Urgent Paediatric tier from the adult donor lung sequence. See diagrams below for further details. This was designed to shorten the offering sequence, as the addition of the Small Adult tier in 2017 significantly added to the number of steps required to offer lungs. A Small Adult is defined as a patient aged ≥ 16 and with height ≤ 155 cm.
- 2 This report provides a brief review of the impact of these changes so far.

FINDINGS

Priority for all paediatrics before adults for paediatric donors

- 3 Since 13 October 2020, five paediatric donors have been offered for lung donation:

Table 1 Details of lung offering for paediatric donors offered 13 Oct 2020 - 18 Mar 2021

Donor	Donor approx. height	Type of offers made	Offering method	Outcome of lungs
Donor 1	90cm	Only non-urgent	Group offer to all centres	Not accepted
Donor 2	100cm	Only non-urgent	Group offer to all centres	Not accepted
Donor 3	120cm	Only non-urgent	Centre offers to Newcastle and GOSH before group offer	Not accepted
Donor 4	160cm	Only non-urgent	Centre offers to Newcastle and GOSH before adult group offer	Not accepted
Donor 5	160cm	Non-urgent and one urgent adult	Centre offers to Newcastle and GOSH, then named patient offer for urgent adult, then adult group offer	Accepted not used (function)

- 4 As there were no super-urgent adult or small adult patients in the matching runs for these donors, there was no impact of the change in priority order for non-urgent paediatrics.

Removal of Non-Urgent Small Adult tier

- 5 Between 13 October 2020 and 18 March 2021, 312 donors were offered for lung donation (including both DBD and DCD and adult and paediatric donors). The median number of offers to be made according to the matching runs for these donors was 8 (range 7-13). This compares with a median of 12 (range 8-19) in the period 1 May 2020 – 12 October 2020. Thus this change has reduced the length of the lung matching run by 33%. For interest, 41 of the 312 donors were accepted and used (13%).

CONCLUSIONS

- 6 No impact detected so far of altering the paediatric donor lung allocation sequence so that all paediatric patients receive offers before adult patients. Some differences identified in offering practice, in terms of whether the group offer is made at the start of the sequence, or after the paediatric centre offers.
- 7 Removing the Non-Urgent Small Adult tier has reduced the length of the lung offering sequence by 33% and there are now an average of 8 offers to be made per donor.

Sally Rushton
Statistics and Clinical Studies

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Donor Lung Distribution and Allocation

Figure 1 Allocation for adult donor lungs (donor ≥ 16 years)

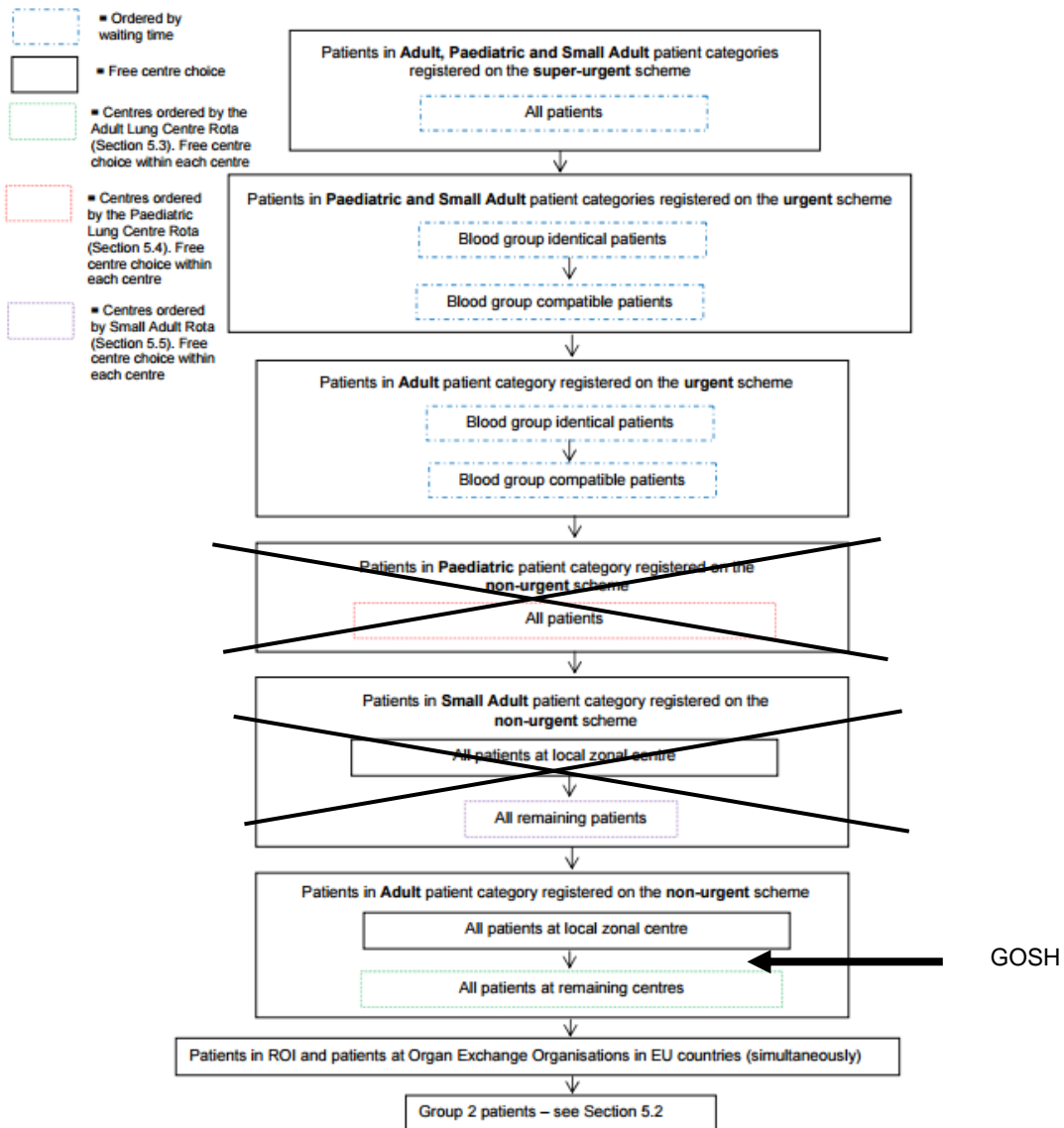


Figure 2 Allocation for paediatric donor lungs (donor < 16 years)

