

NHS BLOOD AND TRANSPLANT

LIVER ADVISORY GROUP

GROUP 2 AND NON-UK RESIDENT EU GROUP 1 PATIENT TRANSPLANTS

SUMMARY

BACKGROUND

- 1 This paper reports on a) liver transplants performed in Group 2 patients and b) liver transplants performed in Group 1 non-UK resident EU patients, between **1 April 2013 and 31 March 2014**.

METHODS

- 2 Data on all Group 2 patients and all Group 1 non-UK resident EU patients who received a liver transplant in the UK between 1 April 2013 and 31 March 2014 were obtained from the UK Transplant Registry (UKTR) as recorded on 2 May 2014.

RESULTS

Group 2 patients

- 3 There were eight Group 2 liver transplants performed in the UK between 1 April 2013 and 31 March 2014 into seven different adult recipients, i.e. one patient received two transplants. Of these eight transplants performed, four used a reduced liver from a living donor, three used a whole liver from a UK donor after brain death (DBD), and one used a whole liver from a UK donor after circulatory death (DCD).

Group 1 non-UK resident EU patients

- 4 There were 17 Group 1 non-UK resident EU patient liver transplants performed in the UK between 1 April 2013 and 31 March 2014, four in paediatric patients and 13 in eleven different adult patients, i.e. two adult patients received two transplants each. Of these 17 transplants performed, one received a reduced liver transplant from a living donor, four received a split liver transplant using a liver from a UK DBD donor, nine received a whole liver from a UK DBD donor and three a whole liver from a UK DCD donor.

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May 2014

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RESULTS

Group 2 transplants

- 3 **Table 1** summarises Group 2 liver transplants by transplant centre, transplant type and donor type (DBD=donors after brain death, DCD=donors after circulatory death) from 1 April 2013 to 31 March 2014.

Transplant centre	Transplant type	Donor type			Total
		DBD	DCD	Living	
King's College	Reduced	0	0	4	4
	Whole	3	1	0	4
TOTAL		3	1	4	8

DBD=Donors after brain death; DCD=Donors after circulatory death

- 4 There were eight Group 2 liver transplants performed in the UK between 1 April 2013 and 31 March 2014; all in adult recipients. Two of the transplants were performed on the same recipient; the first transplant used a reduced liver from a living donor and the second used a whole liver from a UK DBD donor.
- 5 Of the remaining six adult Group 2 patients that underwent one transplant each within the reported period, three received reduced liver transplants using livers from living donors, two received whole liver transplants using UK DBD donors and one received a whole liver transplant using a DCD donor.
- 6 The permanent country of residence, recorded on the UKTR, for the seven adult Group 2 recipients was Kuwait (3), Oman (1), Vietnam (1) and United Arab Emirates (2).

- 7 **Appendix I** contains details of all patients in this cohort.
- 8 Further information regarding the four deceased UK donor livers used to transplant Group 2 adult patients, as recorded on the UKTR, is provided in **Table 2**.

Donor type	Recipient age at transplant (years)	Transplant type	Liver offering information recorded on the UKTR
DBD	55	Whole	Donor 77 years old. All UK centres declined for Group 1 patient on donor past history and/or poor function. Dublin declined on donor age. King's College accepted for Group 2 recipient.
DBD	39	Whole	Donor 76 years old. The Royal Free accepted the offer for Group 1 patient but subsequently declined on inspection due to liver being moderately fatty and soft. Liver fast tracked. Cambridge and Edinburgh declined for Group 1 patient as liver fatty and CIT too long. Newcastle, Birmingham and Leeds declined for Group 1 recipient as liver fatty. King's College accepted liver for Group 2 patient.
DBD	66	Whole	Donor 67 years old. Zonal offer to King's College, which was initially accepted for Group 1 patient but subsequently declined on anatomical reasons. Offer not made to Newcastle, Edinburgh or Leeds due to donor age outside centre criteria. Cambridge declined for Group 1 on donor history and CIT too long, the Royal Free on CIT and anatomy, and Birmingham because already transplanting and anatomy. King's College accepted for Group 2 patient.
DCD	38	Whole	Donor 72 years old. Offer not made to Leeds or Newcastle due to donor age outside centre criteria. Edinburgh declined for Group 1 patient on donor age. Liver fast tracked. Cambridge, the Royal Free, Birmingham and King's College all declined for Group 1 on either donor age or no suitable recipients. King's College accepted for Group 2 patient.

Group 1 non-UK resident EU patient transplants

- 9 **Table 3** summarises Group 1 transplants for non-UK resident EU patients by transplant centre, transplant type and donor type from 1 April 2013 to 31 March 2014.

Transplant centre	Transplant type	Donor type			Total
		DBD	DCD	Living	
Royal Free	Whole	3	1	0	4
King's College	Reduced	0	0	1	1
	Split	2	0	0	2
Birmingham	Whole	5	1	0	6
	Split	2	0	0	2
	Whole	1	1	0	2
TOTAL		13	3	1	17

DBD=Donors after brain death; DCD=Donors after circulatory death

- 10 There were 17 Group 1 non-UK resident EU patient liver transplants performed in the UK between 1 April 2013 and 31 March 2014. Of these, four were in paediatric patients. One of these paediatric patients received a reduced liver transplant using a liver from a living donor and three received a split liver transplant using a liver from a UK DBD donor.
- 11 The 13 adult non-UK resident EU Group 1 transplants were performed into eleven different adult recipients, i.e. two patients received two transplants each within the time period. Both recipients that underwent two transplants each received a whole liver transplant from a DCD donor first, followed by a whole liver transplant from a DBD donor. One of these recipients was listed as elective in both transplants whereas the second recipient was listed as elective for the first transplant and as super-urgent for the second. Of the nine adult non-UK resident EU Group 1 patients that underwent one transplant each, seven received a whole liver transplant using a liver from a UK DBD donor, one received a whole liver from a UK DCD donor and one received a split liver from a UK DBD donor. Three of the patients receiving a whole liver transplant from a UK DBD donor were registered as super-urgent.
- 12 The permanent country of residence, recorded on the UKTR, for the four paediatric Group 1 non-UK resident EU patients was Bulgaria (1), Cyprus (1) and Greece (2). The permanent country of residence for the eleven adult Group 1 non-UK resident EU patients was Cyprus (4), Gibraltar (1), Greece (3) and Malta (3).
- 13 **Appendix II** contains details of all patients in this cohort.

**Appendix I Details of the Group 2 patient liver transplants in the UK,
1 April 2013 - 31 March 2014**

Patient number	Age at transplant (years)	Permanent country of residence	Urgency status	Donor type	Transplant type
King's College					
1	55	Kuwait	Elective	Living	Reduced
1	55	Kuwait	Elective	DBD	Whole
2	39	Oman	Elective	DBD	Whole
3	66	UAE	Elective	DBD	Whole
4	38	Vietnam	Elective	DCD	Whole
5	65	Kuwait	Elective	Living	Reduced
6	58	Kuwait	Elective	Living	Reduced
7	71	UAE	Elective	Living	Reduced

DBD=Donors after brain death; DCD=Donors after circulatory death

**Appendix II Details of the Group 1 non-UK resident EU patient liver transplants in the UK,
1 April 2013 - 31 March 2014**

Patient number	Age at transplant (years)	Permanent country of residence	Urgency status	Donor type	Transplant type
Birmingham					
1	6	Bulgaria	Elective	DBD	Split
2	21	Cyprus	Elective	DBD	Whole
3	30	Greece	Elective	DBD	Split
4	59	Cyprus	Elective	DCD	Whole
King's College					
5	1	Cyprus	Elective	DBD	Split
6	46	Gibraltar	Super-urgent	DBD	Whole
7	40	Greece	Elective	DBD	Whole
8	10	Greece	Elective	DBD	Split
9	23	Malta	Super-urgent	DBD	Whole
10	63	Malta	Elective	DCD	Whole
10	63	Malta	Elective	DBD	Whole
11	67	Malta	Elective	DBD	Whole
12	6	Greece	Elective	Living	Reduced
Royal Free					
13	59	Cyprus	Super-urgent	DBD	Whole
14	46	Cyprus	Elective	DCD	Whole
14	46	Cyprus	Super-urgent	DBD	Whole
15	41	Greece	Elective	DBD	Whole

DBD=Donors after brain death; DCD=Donors after circulatory death