

## NHS BLOOD AND TRANSPLANT

### BOWEL ADVISORY GROUP

#### POTENTIAL BOWEL DONORS

- 1 From 14 April 2011 offering data for the bowel has been recorded in the UK Transplant Registry (UKTR). For any offered bowel it was assumed that consent was obtained for donation.
- 2 In order to be able to determine the potential for bowel donation from donors after brain death (DBD), 340 DBD who donated at least one solid organ for the intention of transplantation, between 14 April 2011 and 30 September 2011, were identified using data stored in the UKTR.
- 3 In the offering process, a donor bowel is offered for donation if the donor satisfies the following criteria:
  - donor age less than or equal to 65 years and donor weight less than or equal to 100 kg, with a BMI less than or equal to 30 kg/m<sup>2</sup> for adult offers
  - donor age less than 16 years or donor weight less than 35 kg for paediatric offers then adult offers.

Some intestinal transplant centres apply additional donor criteria to that described above.

- 4 Of the 340 DBD who donated at least one solid organ for the intention of transplantation, 28 (8%) donors were from the Republic of Ireland and seven (2%) where from overseas.
- 5 111 (33%) of the DBD had offering data for the bowel recorded in the UKTR, three of which were from overseas (all DBD from the Republic of Ireland and four from overseas had no offering data recorded). Eight of these (all UK DBD) were outside the offering criteria described above and these offers were subsequently declined.
- 6 For the remaining 103 potential bowel donors, consent was obtained for the liver and pancreas for the 100 UK DBD, but for the three overseas DBD the liver and pancreas may not have been offered in the UK.
- 7 **Table 1** summarises the liver, pancreas and bowel transplants resulting from the pool of 103 potential bowel donors, broken down by donor blood group, weight, BMI and age.

**Table 1** Transplants performed using organs from potential bowel donors identified from donors after brain death who donated at least one solid organ for the intention of transplantation where bowel was offered, between 14 April 2011 and 30 September 2011

	No. donors N	Liver		Organs transplanted Pancreas		Bowel	
		N	%	N	%	N	%
<b>Blood group</b>							
O	55	44	80	22	40	6	11
A	33	30	91	13	39	3	9
B	11	10	91	6	55	2	18
AB	4	3	75	0	0	0	0
<b>Weight (kg)</b>							
<20	5	3	60	1	20	2	40
20-<35	3	2	67	0	0	2	67
35-60	24	20	83	8	33	2	8
>60	71	62	87	32	45	5	7
<b>BMI (kg/m<sup>2</sup>)</b>							
<18.5	9	7	78	2	22	2	22
18.5-<25	62	53	85	25	40	8	13
25-<30	32	27	84	14	44	1	3
<b>Age (years)</b>							
0-15	8	5	63	1	13	4	50
16-35	22	17	77	11	50	1	5
36-50	37	34	92	19	51	4	11
51-65	36	31	86	10	28	2	6
<b>Total</b>	<b>103</b>	<b>87</b>	<b>84</b>	<b>41</b>	<b>40</b>	<b>11</b>	<b>11</b>

Note: Three potential bowel donors from overseas are included in this table where the liver and pancreas may not have been offered in the UK

- 8 Of the 103 potential bowel donors, only 11 (11%) bowels were transplanted compared to 87 (84%) livers and 41 (40%) pancreases.