NEWSLETTER
SEPTEMBER 2007
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INTERNATIONAL FIGURES ON ORGAN DONATION AND TRANSPLANTATION - 2006

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ORGANIZACIÓN NACIONAL DE TRASPLANTES

2007

INTERNATIONAL FIGURES ON ORGAN, TISSUE & HEMATOPOIETIC STEM CELL DONATION & TRANSPLANTATION ACTIVITIES. DOCUMENTS PRODUCED BY THE COMMITTEE OF EXPERTS ON THE ORGANISATIONAL ASPECTS OF CO-OPERATION IN ORGAN TRANSPLANTATION (2006)

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Foot Note:
For the purposes of this Newsletter the following definitions were used:
Organ donor: Every potential donor transferred to the operating theatre from whom, at least, one solid organ has been retrieved
Multiorgan donor: Every donor from whom, at least, two different solid organs have been retrieved
Absolute number: Include all figures corresponding to all donors/patients adults and children
Paediatric: Includes only paediatric activity (patients under 15 years old)

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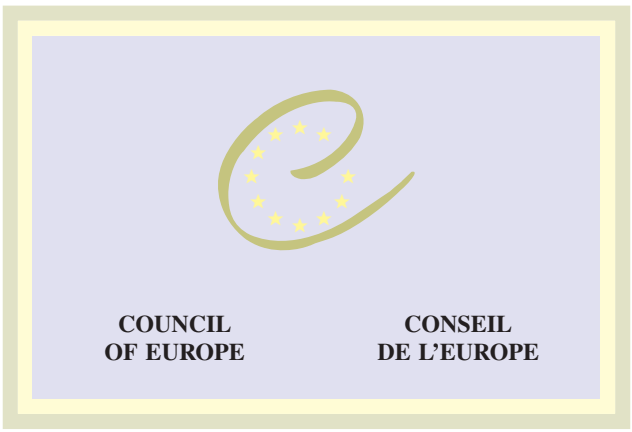
TRANSPLANT 2007

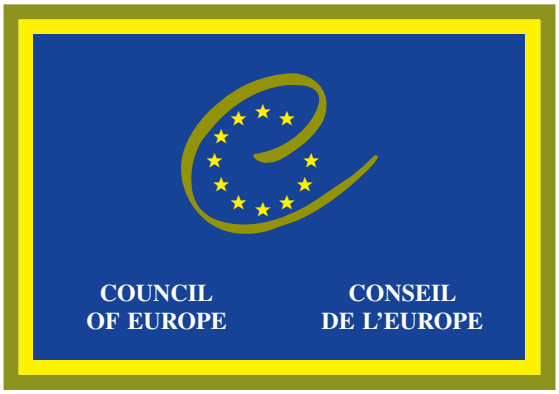
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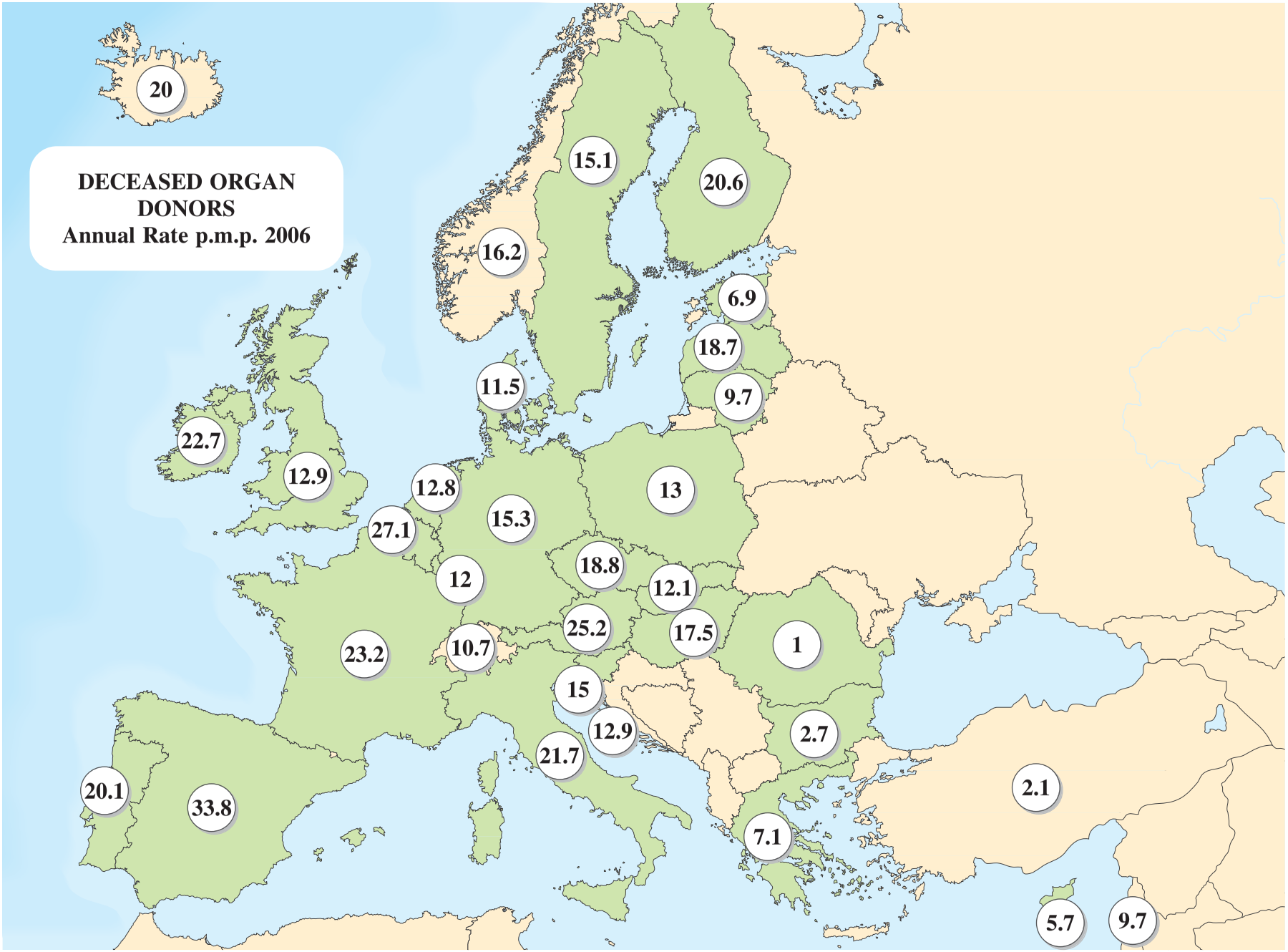
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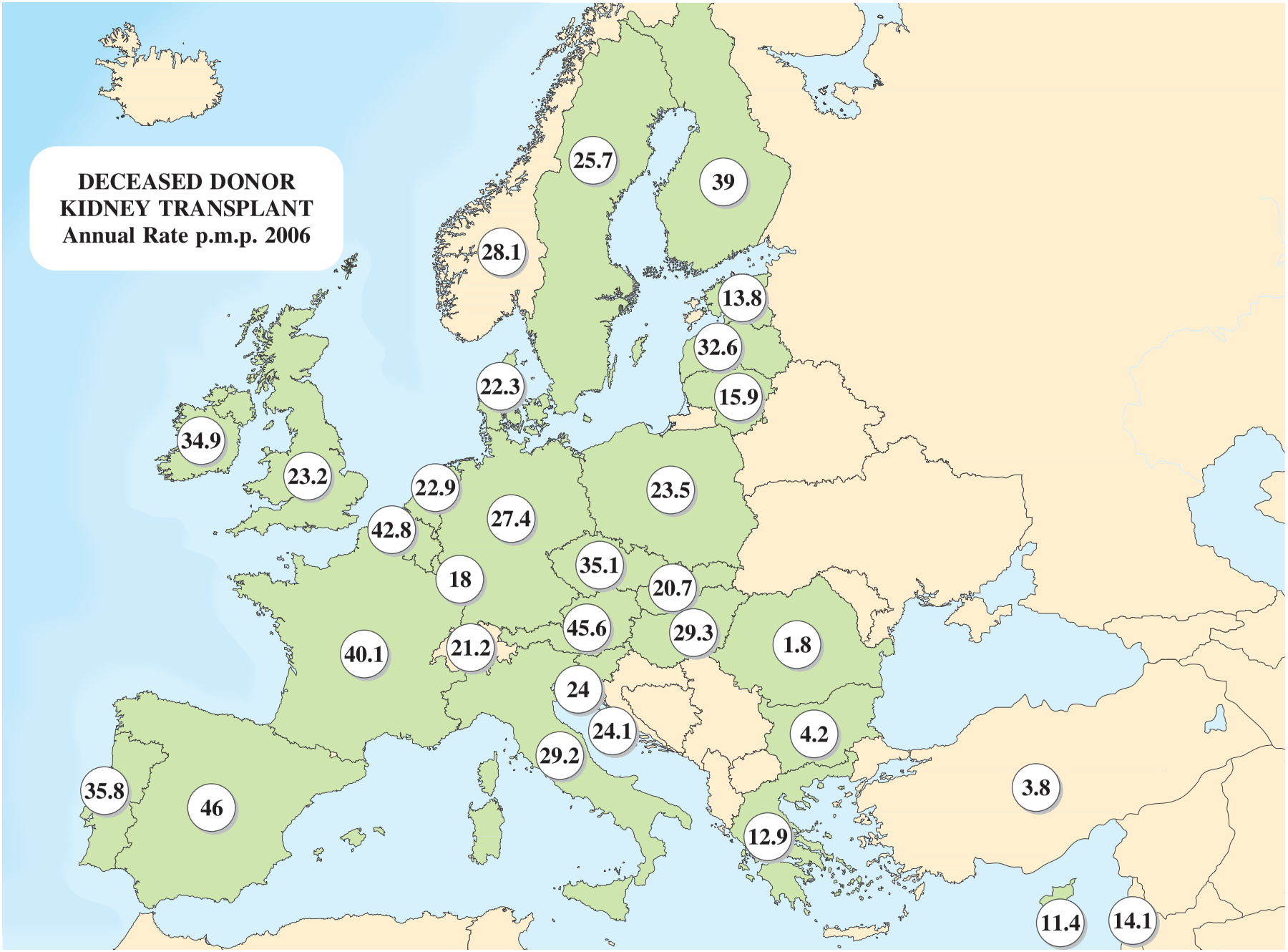
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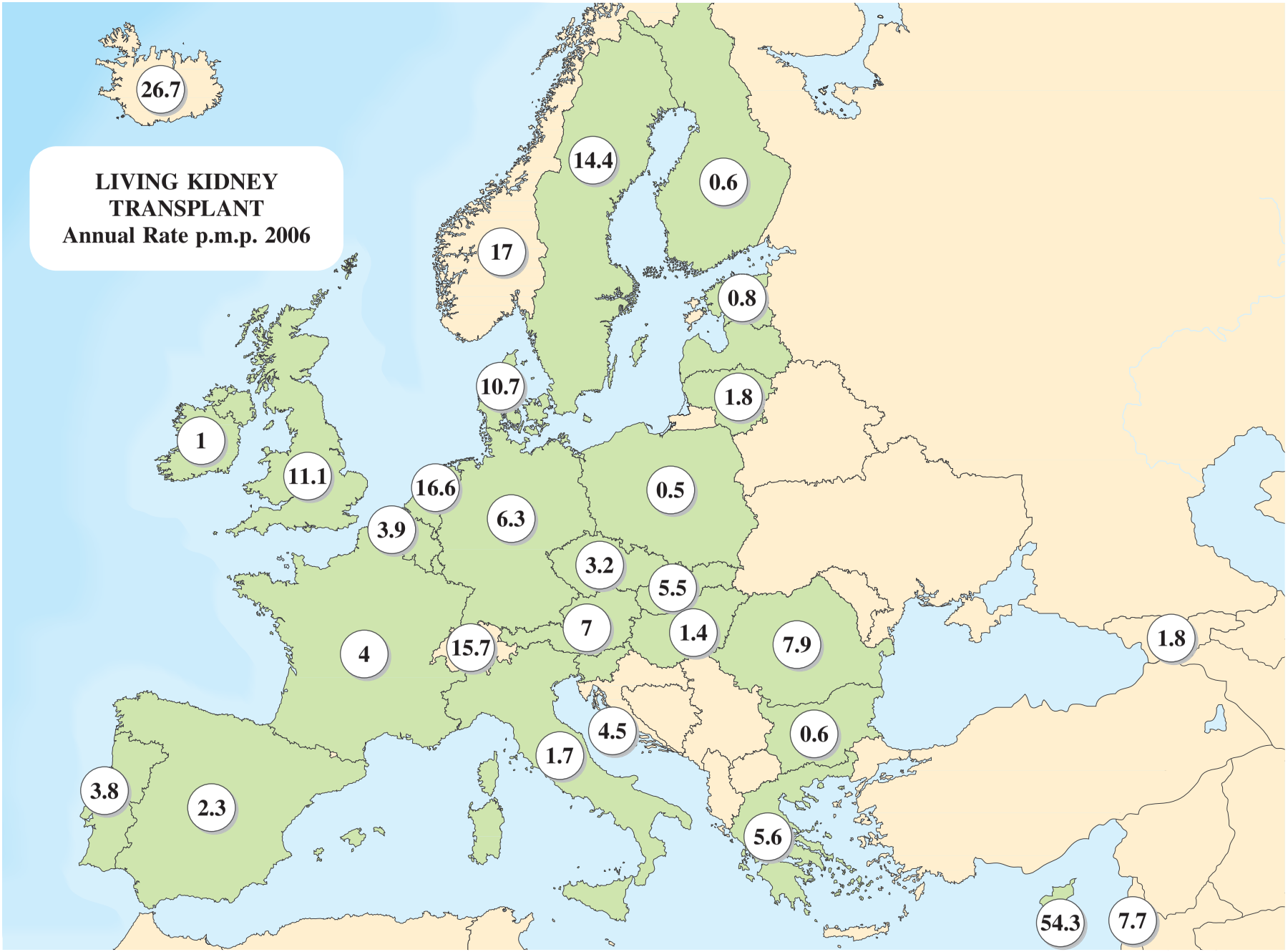

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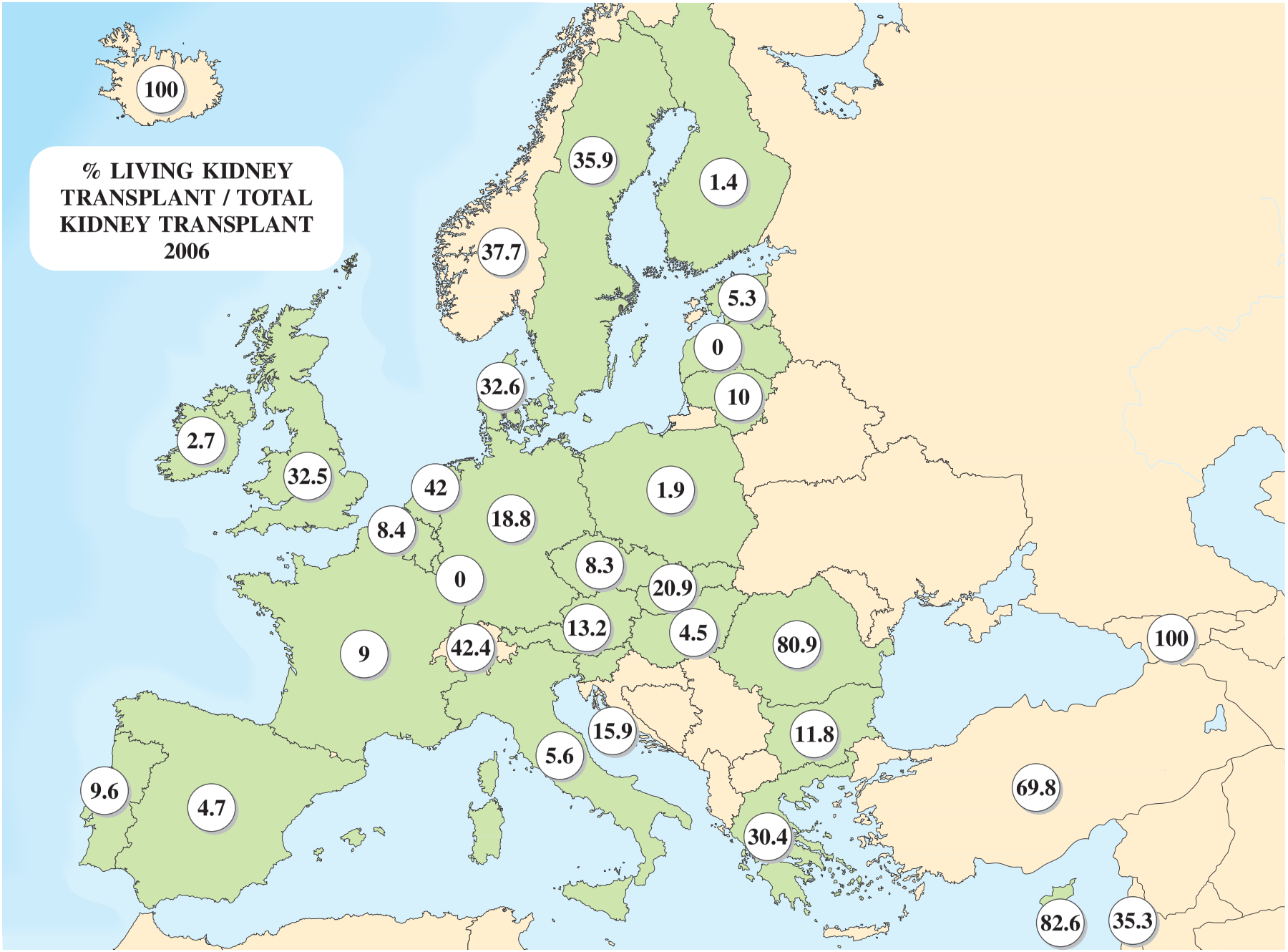


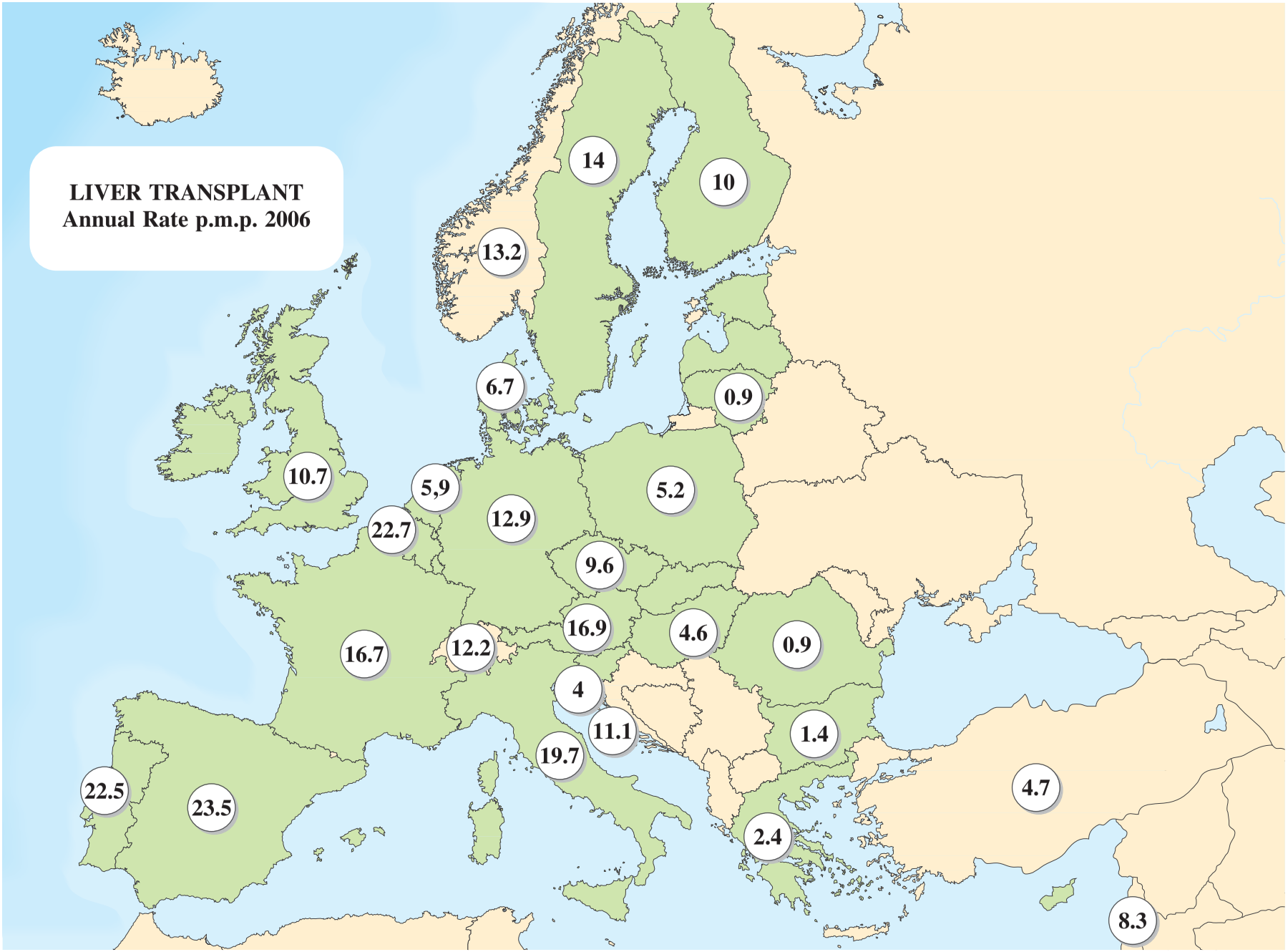
International Figures on Organ Donation and Transplantation Activity. Year 2006

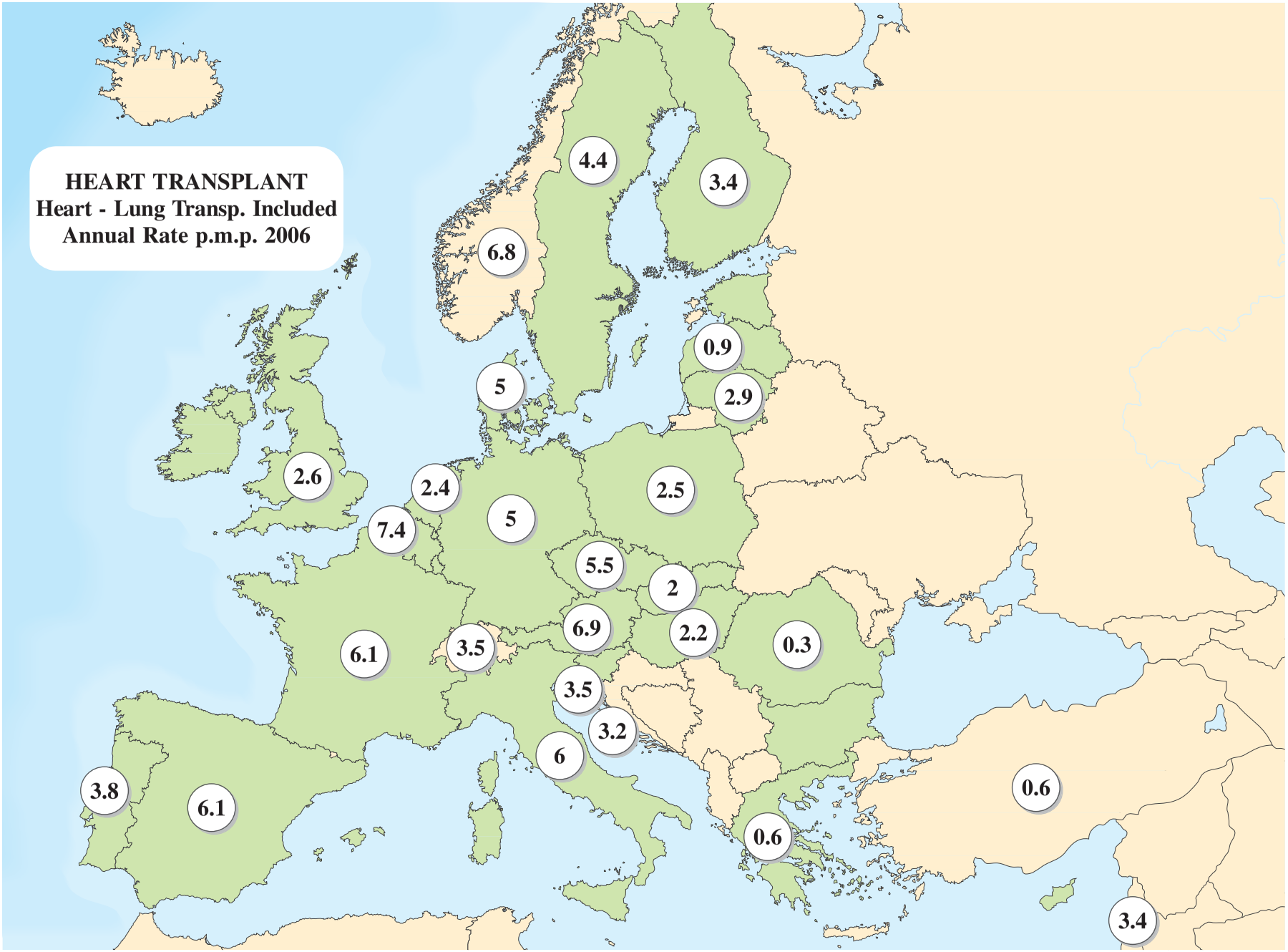

DECEASED ORGAN DONORS
Annual Rate p.m.p. 2006
20
15.1
20.6
16.2
6.9
18.7
11.5
9.7
22.7
12.9
12.8
13
15.3
27.1
18.8
12
12.1
25.2
17.5
1
23.2
10.7
15
12.9
2.7
21.7
20.1
33.8
2.1
7.1
5.7
9.7

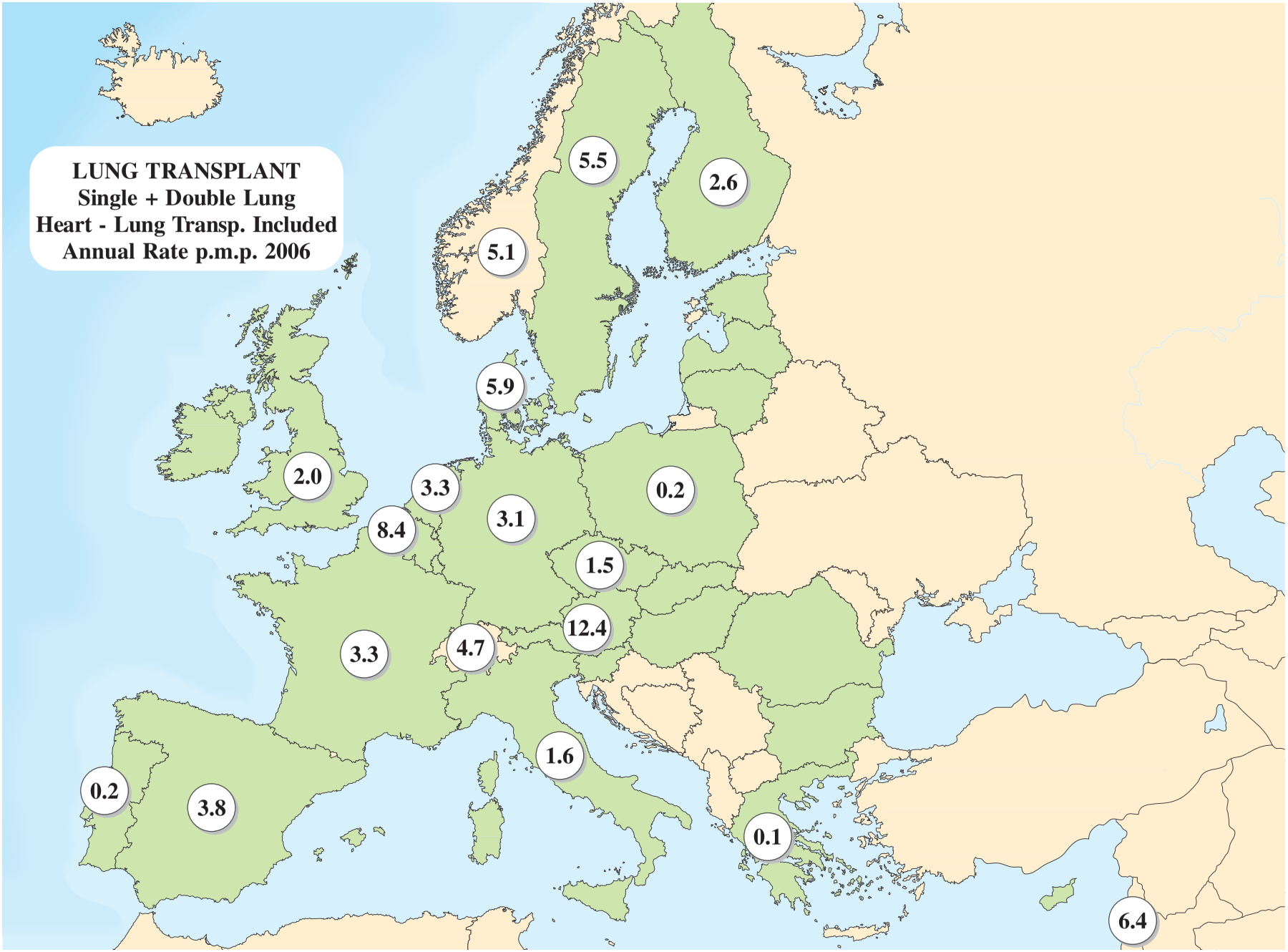

DECEASED DONOR
KIDNEY TRANSPLANT
Annual Rate p.m.p. 2006
25.7
39
28.1
13.8
32.6
22.3
15.9
34.9
23.2
22.9
23.5
27.4
42.8
35.1
18
20.7
45.6
29.3
1.8
40.1
21.2
24
24.1
4.2
29.2
35.8
46
3.8
12.9
11.4
14.1

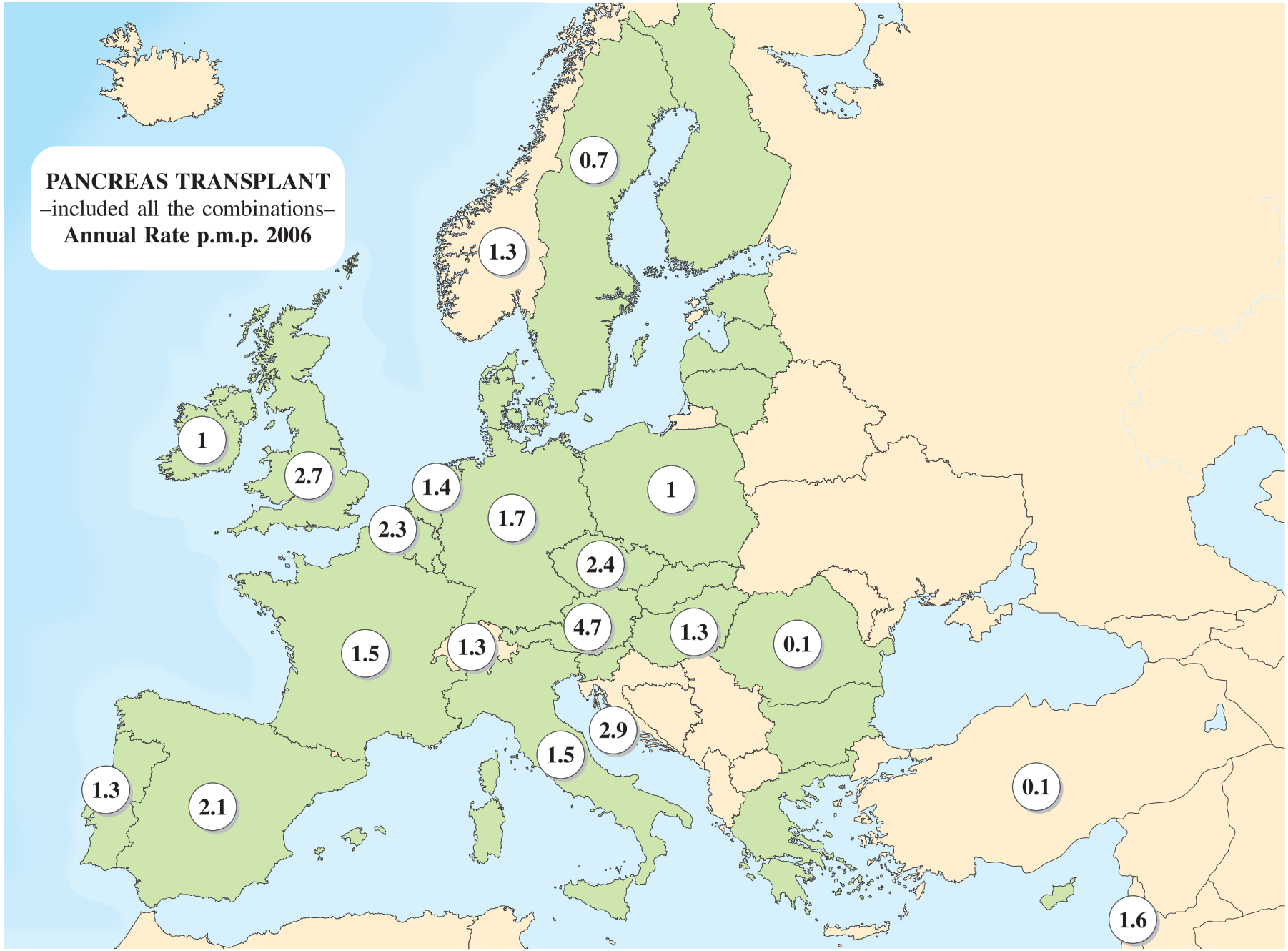

LIVING KIDNEY
TRANSPLANT
Annual Rate p.m.p. 2006
26.7
14.4
0.6
17
0.8
10.7
1.8
1
11.1
16.6
0.5
6.3
3.9
3.2
5.5
7
1.4
7.9
1.8
4
15.7
4.5
0.6
1.7
3.8
2.3
5.6
54.3
7.7

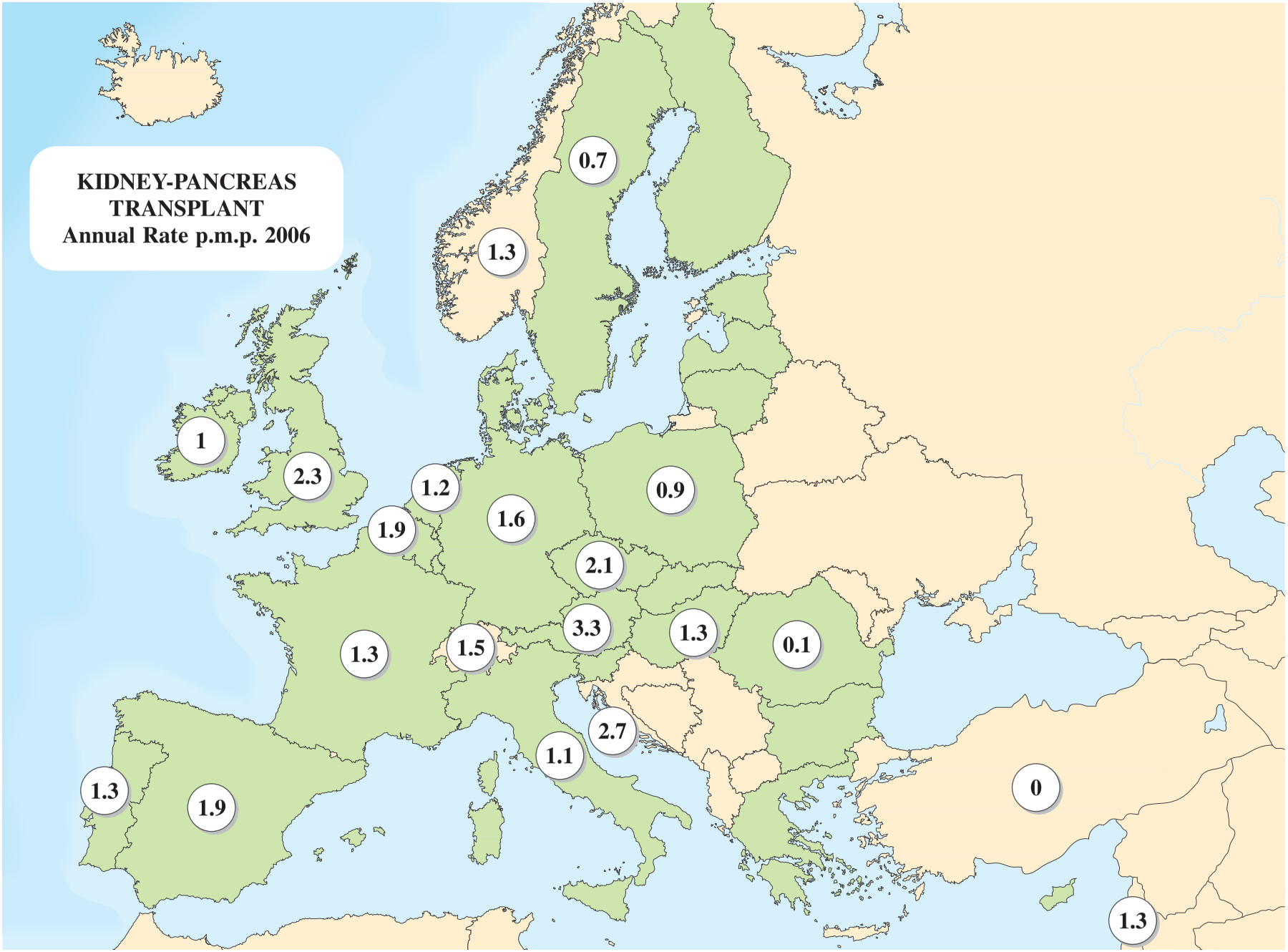

% LIVING KIDNEY TRANSPLANT / TOTAL KIDNEY TRANSPLANT 2006
100
35.9
1.4
37.7
5.3
0
32.6
10
2.7
32.5
42
1.9
18.8
8.4
8.3
0
20.9
13.2
4.5
80.9
100
9
42.4
15.9
11.8
5.6
9.6
4.7
69.8
30.4
82.6
35.3


LIVER TRANSPLANT
Annual Rate p.m.p. 2006
14
10
13.2
6.7
0.9
10.7
5,9
5.2
22.7
12.9
9.6
16.9
4.6
0.9
16.7
12.2
4
11.1
1.4
19.7
22.5
23.5
4.7
2.4
8.3

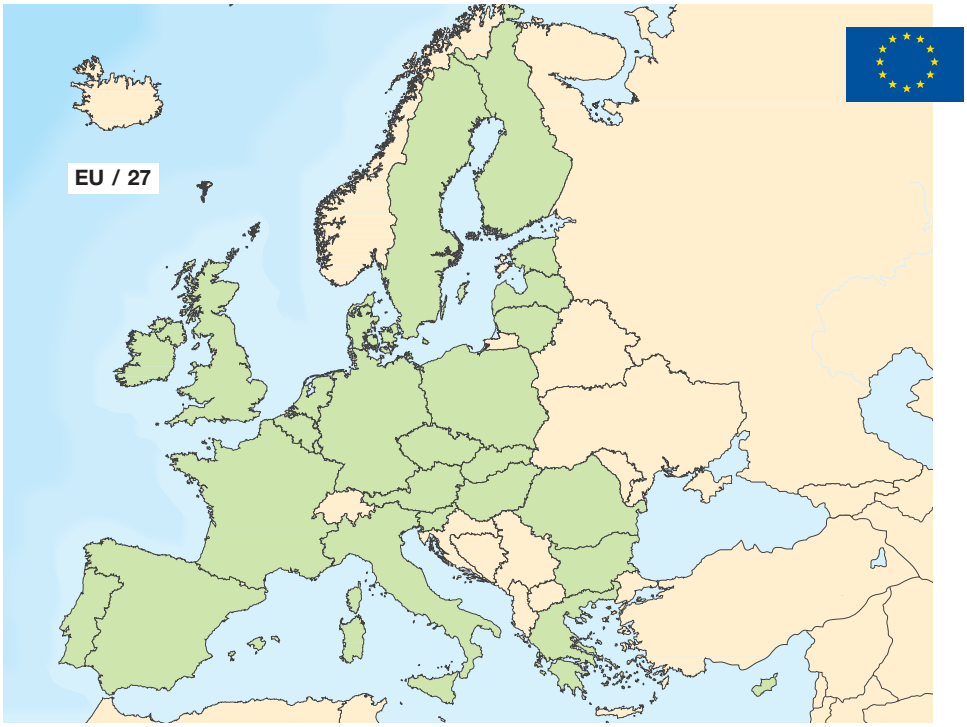

HEART TRANSPLANT
Heart - Lung Transp. Included
Annual Rate p.m.p. 2006
4.4
3.4
6.8
0.9
5
2.9
2.6
2.4
2.5
5
7.4
5.5
2
6.9
2.2
0.3
6.1
3.5
3.5
3.2
6
3.8
6.1
0.6
0.6
3.4


LUNG TRANSPLANT
Single + Double Lung
Heart - Lung Transp. Included
Annual Rate p.m.p. 2006
5.5
2.6
5.1
5.9
2.0
3.3
0.2
8.4
3.1
1.5
12.4
3.3
4.7
1.6
0.2
3.8
0.1
6.4


PANCREAS TRANSPLANT
–included all the combinations–
Annual Rate p.m.p. 2006
0.7
1.3
1
2.7
1.4
2.3
1.7
1
2.4
4.7
1.3
0.1
1.5
1.3
2.9
1.5
1.3
2.1
0.1
1.6

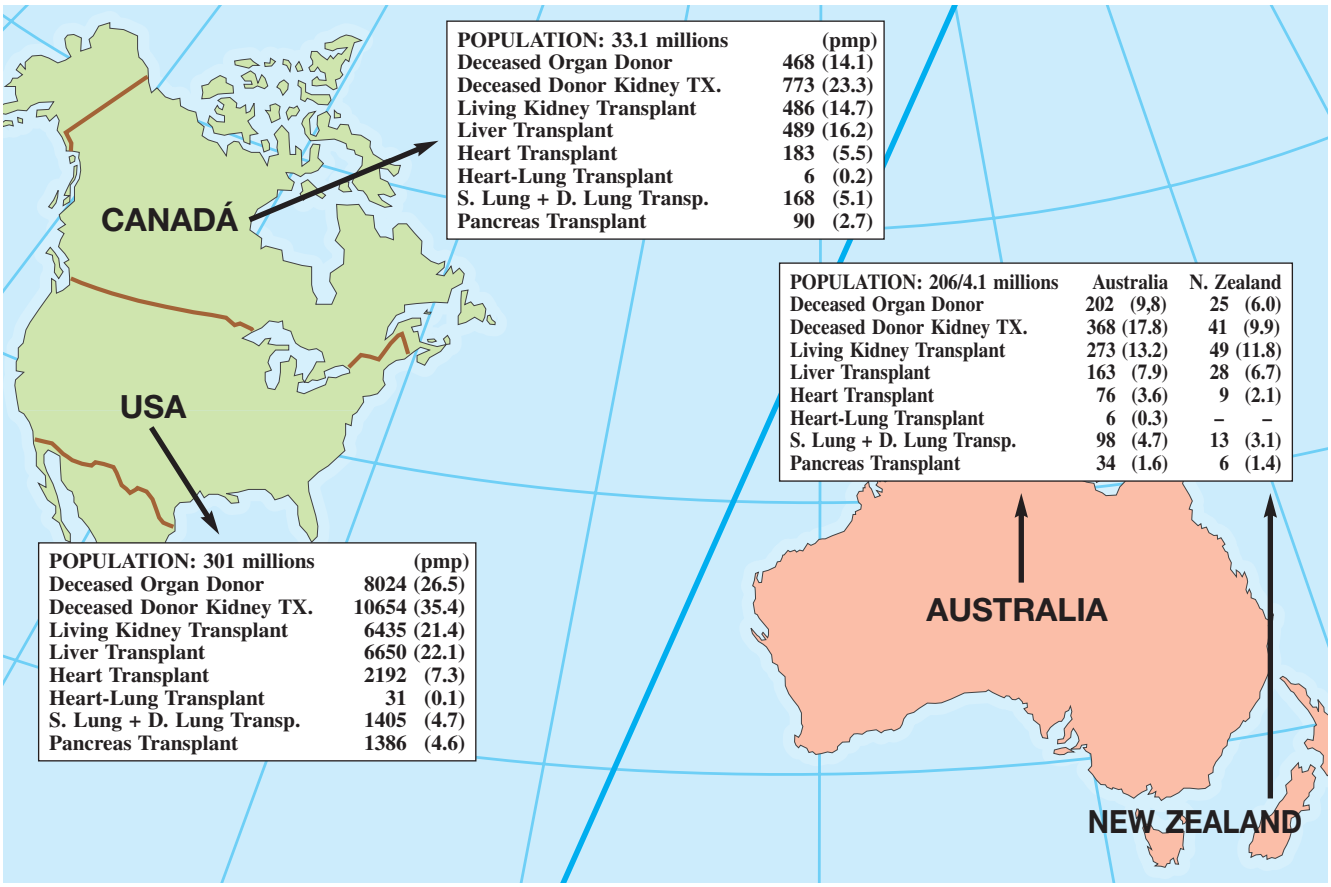

KIDNEY-PANCREAS
TRANSPLANT
Annual Rate p.m.p. 2006
0.7
1.3
1
2.3
1.2
1.9
1.6
0.9
2.1
3.3
1.3
1.5
1.3
0.1
2.7
1.1
1.3
1.9
0
1.3

European Union Data on Organ Donation and Transplantation Activity



COUNTRIES	E. U.
Population (million inhabitants)	488.42
Deceased D. –included NHBD– (Rate pmp)	8699 (17.8)
NHB Donors (pmp)	362 (0.7)
% Multiorgan donors	–
KIDNEY	
TX –included all the combinations– (pmp)	16819 (34.4)
% (Living TX/ Total TX)	15.6
Paediatric <15 years	407
Deceased Donor TX (pmp)	14204 (29.1)
-Single TX (pmp)	11569 (23.7)
-Double TX (pmp)	242 (0.5)
Living TX (pmp)	2617 (5.4)
NHB kidney TX (pmp)	598 (1.2)
LIVER	
TX –included all the combinations– (pmp)	6249 (12.8)
Paediatric <15 years	411
-Split Liver TX (pmp)	462 (0.9)
-Domino Liver TX(pmp)	97 (0.2)
Living Liver TX (pmp)	238 (0.5)
NHB Liver TX (pmp)	72 (0.1)
HEART	
TX –included Heart-lung transplant– (pmp)	2086 (4.3)
Paediatric <15 years	87

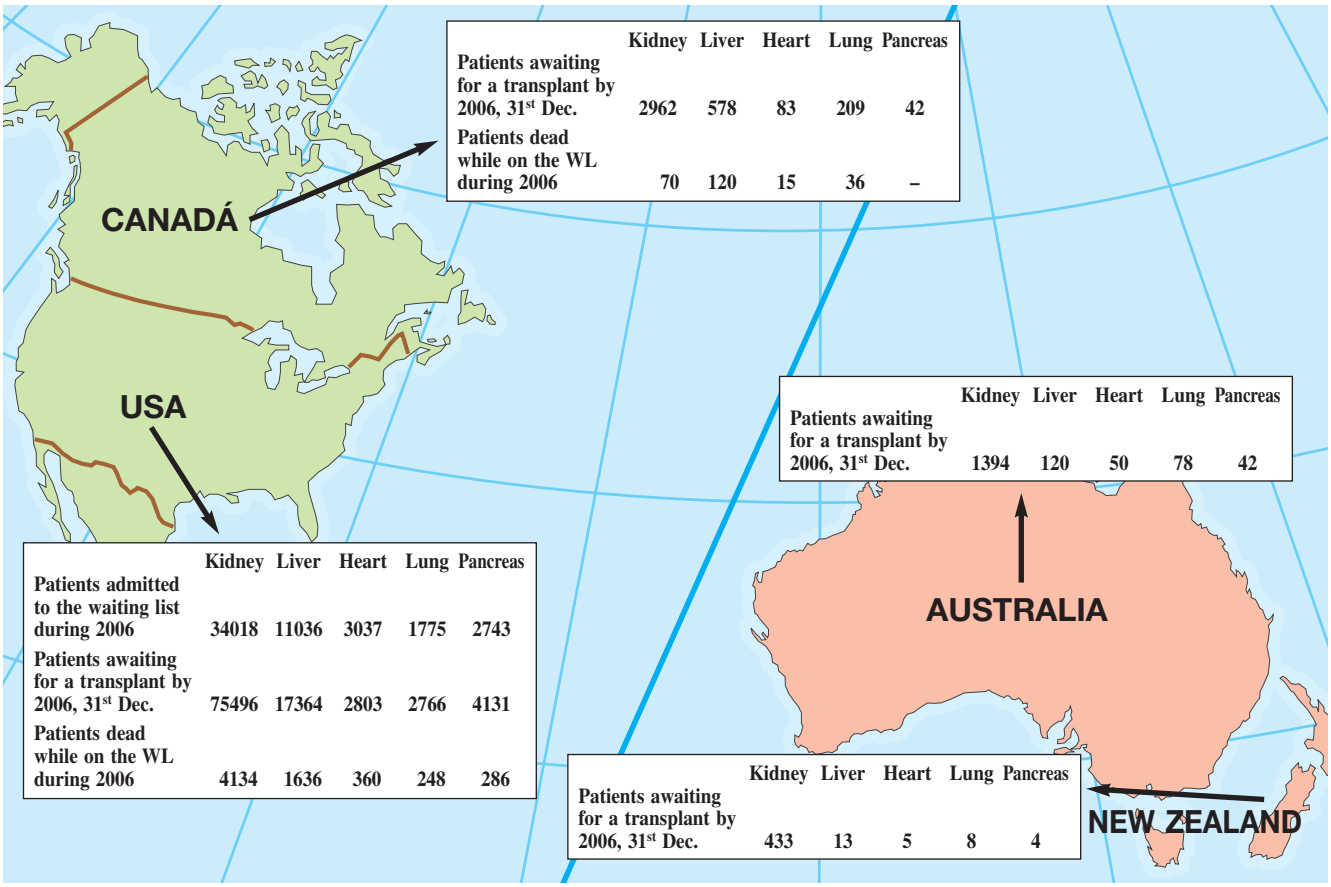
COUNTRIES	E. U.
HEART-LUNG	
Transplants (pmp)	67 (0.1)
Paediatric <15 years	2
LUNG	
TX –included all the combinations– (pmp)	1203 (2.5)
Paediatric <15 years	21
-Single (pmp)	358 (0.7)
-Double –included Heart/ Lung TX– (pmp)	844 (1.7)
NHB –double + single– Lung TX (pmp)	8 (0.0)
PANCREAS	
TX –included all the combinations– (pmp)	762 (1.6)
Paediatric <15 years	2
-Kidney - Pancreas TX (pmp)	658 (1.3)
-Pancreas TX Alone (pmp)	98 (0.2)
SMALL BOWEL	
TX –included all the combinations– (pmp)	30 (0.1)
Paediatric <15 years	19 (0.0)
-Liver + Small Bowel (pmp)	9 (0.0)
S. B. TX Alone (pmp)	17 (0.0)
MULTIVISCERAL (pmp)	146 (0.3)



POPULATION: 33.1 millions	(pmp)
Deceased Organ Donor	468 (14.1)
Deceased Donor Kidney TX.	773 (23.3)
Living Kidney Transplant	486 (14.7)
Liver Transplant	489 (16.2)
Heart Transplant	183 (5.5)
Heart-Lung Transplant	6 (0.2)
S. Lung + D. Lung Transp.	168 (5.1)
Pancreas Transplant	90 (2.7)

POPULATION: 206/4.1 millions	Australia	N. Zealand
Deceased Organ Donor	202 (9,8)	25 (6.0)
Deceased Donor Kidney TX.	368 (17.8)	41 (9.9)
Living Kidney Transplant	273 (13.2)	49 (11.8)
Liver Transplant	163 (7.9)	28 (6.7)
Heart Transplant	76 (3.6)	9 (2.1)
Heart-Lung Transplant	6 (0.3)	– –
S. Lung + D. Lung Transp.	98 (4.7)	13 (3.1)
Pancreas Transplant	34 (1.6)	6 (1.4)

POPULATION: 301 millions	(pmp)
Deceased Organ Donor	8024 (26.5)
Deceased Donor Kidney TX.	10654 (35.4)
Living Kidney Transplant	6435 (21.4)
Liver Transplant	6650 (22.1)
Heart Transplant	2192 (7.3)
Heart-Lung Transplant	31 (0.1)
S. Lung + D. Lung Transp.	1405 (4.7)
Pancreas Transplant	1386 (4.6)



	Kidney	Liver	Heart	Lung	Pancreas
Patients awaiting for a transplant by 2006, 31st Dec.	2962	578	83	209	42
Patients dead while on the WL during 2006	70	120	15	36	–

	Kidney	Liver	Heart	Lung	Pancreas
Patients awaiting for a transplant by 2006, 31st Dec.	1394	120	50	78	42

	Kidney	Liver	Heart	Lung	Pancreas
Patients admitted to the waiting list during 2006	34018	11036	3037	1775	2743
Patients awaiting for a transplant by 2006, 31st Dec.	75496	17364	2803	2766	4131
Patients dead while on the WL during 2006	4134	1636	360	248	286

	Kidney	Liver	Heart	Lung	Pancreas
Patients awaiting for a transplant by 2006, 31st Dec.	433	13	5	8	4

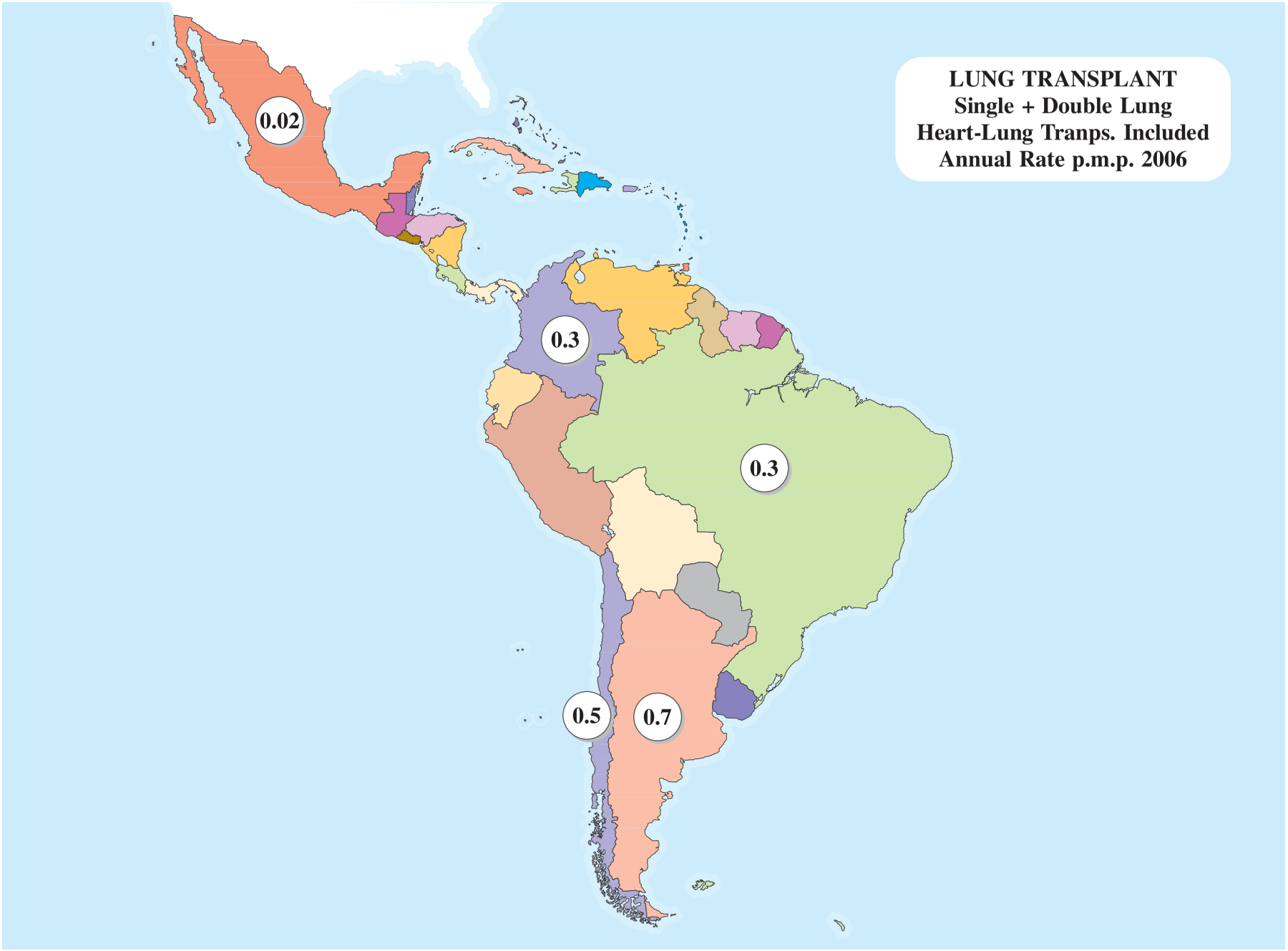

DECEASED ORGAN
DONORS
Annual Rate p.m.p. 2006
3.6
15
0.1
0.5
1.4
2.3
9.9
2.6
6
0.3
10.1
11.9
25.2


DECEASED DONOR KIDNEY TRANSPLANT & / LIVING KIDNEY TRANSPLANT
Annual Rate p.m.p. 2006
4.9 / 13.7
10.6 / 0.7
5.6
0.5 / 6.2
2.8 / 10.1
4.4 / 5.6
13.3 / 1.8
11.3 / 10.3
8.2 / 9.6
0.3 / 1.8
17.3 / 2.3
17 / 4.8
41.8 / 2.5


% LIVING KIDNEY TRANSPLANT / TOTAL KIDNEY TRANSPLANT
73.8
6.7
100
92.6
78.3
56.4
12.2
47.8
53.7
83.3
11.7
22.1
5.6

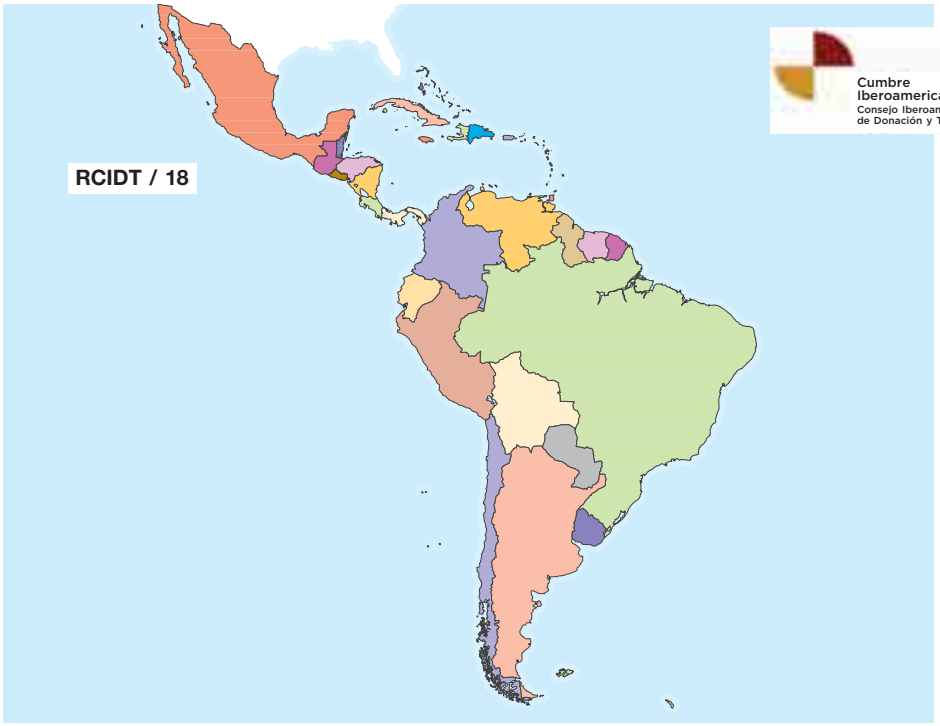

LIVER TRANSPLANT
Annual Rate p.m.p. 2006
1
2.5
0.2
4.2
5.5
5.7
6.1


HEART TRANSPLANT
Heart-Lung Transp. Included
Annual Rate p.m.p. 2006
0.1
0.3
1.4
0.7
1.3
2.1
2.2


LUNG TRANSPLANT
Single + Double Lung
Heart-Lung Tranps. Included
Annual Rate p.m.p. 2006
0.02
0.3
0.3
0.5
0.7

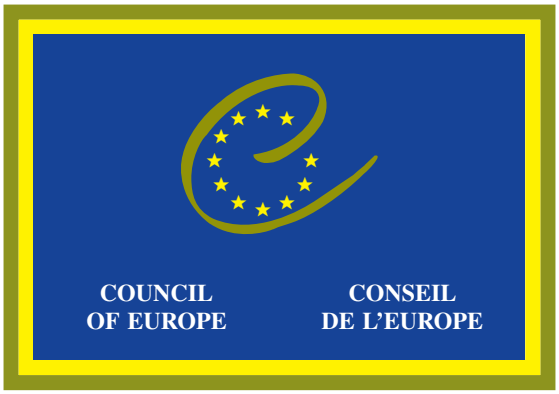

PANCREAS TRANSPLANT
–included all the combinations–
Annual Rate p.m.p. 2006
0.02
0.2
0.1
0.9
0.1
0.7
1.8

Latin-American Data on Organ Donation and Transplantation Activity



COUNTRIES	LATIN-AMERICA
Population (million inhabitants) (13 countries)	470.1
Deceased Organ D. –included NHBD– (Rate pmp)	2848 (6.1)
NHB Donors (pmp)	
% Multiorgan donors	
KIDNEY	
TX –included all the combinations– (pmp)	8007 (17)
% (Living TX/ Total TX)	
Paediatric <15 years	
Deceased Donor TX (pmp)	4019 (8.5)
-Single TX (pmp)	
-Double TX (pmp)	
Living TX (pmp)	3988 (8.5)
NHB kidney TX (pmp)	
LIVER	
TX –included all the combinations– (pmp)	1650 (3.9)
Paediatric <15 years	
-Split Liver TX (pmp)	
-Domino Liver TX(pmp)	
Living Liver TX (pmp)	
NHB Liver TX (pmp)	
HEART	
TX –included Heart-lung transplant– (pmp)	322 (0.8)
Paediatric <15 years	

COUNTRIES	LATIN-AMERICA
HEART-LUNG	
Transplants (pmp)	
Paediatric <15 years	
LUNG	
TX –included all the combinations– (pmp)	95 (0.2)
Paediatric <15 years	
-Single (pmp)	
-Double –included Heart/Lung TX– (pmp)	
NHB –double + single– Lung TX (pmp)	
PANCREAS	
TX –included all the combinations– (pmp)	214 (0.5)
Paediatric <15 years	
-Kidney - Pancreas TX (pmp)	214 (0.5)
-Pancreas TX Alone (pmp)	
SMALL BOWEL	
TX –included all the combinations– (pmp)	
Paediatric <15 years	
-Liver + Small Bowel (pmp)	
-S. B. TX Alone (pmp)	
MULTIVISCERAL (pmp)	



International Data on Organ Donation and Transplantation Activity, Waiting List and Family Refusals. Year 2006

COUNTRIES	AUSTRIA	BELGIUM	BULGARIA	CYPRUS	CZECH. R.	DENMARK	ESTONIA	FINLAND	FRANCE	GERMANY
Population (million inhabitants)	8.2	10.4	7.0	0.7	10.3	5.4	1.3	5.3	62.0	82.4
DONATION										
Deceased Organ D. –included NHBD– (Rate –pmp–)	207 (25.2)	282 (27.1)	19 (2.7)	4 (5.7)	193 (18.8)	62 (11.5)	9 (6.9)	109 (21.0)	1443 (23.2)	1259 (15.3)
NHB Donors (pmp)	4 (0.5)	33 (3.2)			2 (0.2)				1 (0.02)	
% Multiorgan donors	74.4	80.9	63.1		54.4	64.5		51.4	88.9	81.8
TRANSPLANTATION										
KIDNEY										
TX –included all the combinations– (pmp)	431 (52.6)	486 (46.7)	34 (4.8)	46 (65.7)	395 (38.8)	178 (33.0)	19 (14.6)	210 (39.6)	2731 (44.0)	2776 (33.7)
% (Living TX/ Total TX)	13.2	8.4	11.8	82.6	8.3	32.6	5.3	1.4	9.0	18.8
Paediatric < 15 years	10	19	2			11		12	59	
Deceased Donor TX (pmp)	374 (45.6)	445 (42.8)	30 (4.2)	8 (11.4)	362 (35.1)	120 (22.3)	18 (13.8)	207 (39.0)	2484 (40.1)	2254 (27.4)
– Single TX (pmp)						118 (21.9)			2431 (39.2)	2245 (27.3)
– Double TX (pmp)						2 (0.4)			53 (0.9)	9 (0.1)
Living TX (pmp)	57 (7.0)	41 (3.9)	4 (0.6)	38 (54.3)	33 (3.2)	58 (10.7)	1 (0.8)	3 (0.6)	247 (4.0)	522 (6.3)
NHB kidney TX (pmp)	9 (1.1)	46 (4.4)			2 (0.2)				1	
LIVER										
TX –included all the combinations– (pmp)	139 (16.9)	236 (22.7)	10 (1.4)		99 (9.6)	36 (6.7)		53 (10.0)	1037 (16.7)	1063 (12.9)
Paediatric < 15 years	6	25	3			2		11	68	
– Split Liver TX (pmp)	3 (0.4)	12 (1.1)	1 (0.1)			3 (0.6)			93 (1.5)	70 (0.8)
– Domino Liver TX (pmp)		1 (0.1)			1 (0.1)				14 (0.2)	9 (0.1)
Living Liver TX (pmp)	2 (0.2)	18 (1.7)	1 (0.1)		1 (0.1)				36 (0.6)	83 (1.0)
NHB Liver TX (pmp)		19 (1.8)								
HEART										
TX –included Heart-lung transplant– (pmp)	57 (6.9)	77 (7.4)	3 (0.4)		57 (5.5)	27 (5.0)		18 (3.4)	380 (6.1)	412 (5.0)
Paediatric < 15 years	4	2				2		1	12	
HEART-LUNG										
Transplants (pmp)	3 (0.4)	4 (0.4)				1 (0.2)		1 (0.2)	22 (0.4)	24 (0.3)
Paediatric < 15 years						1				
LUNG										
TX –included all the combinations– (pmp)	102 (12.4)	87 (8.4)			15 (1.5)	32 (5.9)		14 (2.6)	204 (3.3)	253 (3.1)
Paediatric < 15 years	2								4	
– Single (pmp)	32 (3.9)	34 (3.3)			9 (0.9)	11 (2.0)		1 (0.2)	53 (0.9)	36 (0.4)
– Double –included Heart/Lung TX– (pmp)	70 (8.5)	53 (5.1)			6 (0.6)	21 (3.9)		13 (2.4)	151 (2.4)	217 (2.6)
NHB –double + single– Lung TX (pmp)										
PANCREAS										
TX –included all the combinations– (pmp)	39 (4.7)	24 (2.3)			25 (2.4)				90 (1.5)	140 (1.7)
Paediatric < 15 years										
– Kidney - Pancreas TX (pmp)	27 (3.3)	20 (1.9)			22 (2.1)				82 (1.3)	128 (1.6)
– Pancreas TX Alone (pmp)	12 (1.5)	4 (0.4)			3 (0.3)				8 (0.1)	12 (0.1)
SMALL BOWEL										
TX –included all the combinations– (pmp)									8 (0.1)	1 (0.0)
Paediatric < 15 years									6	
– Liver + Small Bowel (pmp)									3 (0.0)	
– S. B. TX Alone (pmp)									5 (0.1)	1 (0.0)
MULTIVISCERAL (pmp)									140 (2.3)	

COUNTRIES	GREECE	HUNGARY	IRELAND	ITALY	LATVIA	LITHUANIA	LUXEMBOURG	NETHERLANDS	POLAND
Population (million inhabitants)	11.12	10.1	4.1	56.9	2.3	3.4	0.5	16.5	38.2
DONATION									
Deceased Organ D. –included NHBD– (Rate –pmp–)	79 (7.1)	177 (17.5)	91 (22.7)	1234 (21.7)	43 (18.7)	33 (9.7)	6 (12.0)	211 (12.8)	496 (13.0)
NHB Donors (pmp)								100 (6.1)	
% Multiorgan donors		45	89	80.3	2		100	57.3	45
TRANSPLANTATION									
KIDNEY									
TX –included all the combinations– (pmp)	207 (18.6)	310 (30.7)	146 (36)	1761 (30.9)	75 (32.6)	60 (17.6)	9 (18.0)	652 (39.5)	917 (24.0)
% (Living TX/ Total TX)	30.4	4.5	2.7	5.6	0.0	10.0	0.0	42.0	1.9
Paediatric < 15 years	1	15	5	44	1	3		19	25
Deceased Donor TX (pmp)	144 (12.9)	296 (29.3)	142 (34.9)	1665 (29.2)	75 (32.6)	54 (15.9)	9 (18.0)	378 (22.9)	899 (23.5)
– Single TX (pmp)	143 (12.8)	296 (29.3)		1455 (25.5)	75 (32.6)	54 (15.9)			897 (23.5)
– Double TX (pmp)	1 (0.1)			117 (2.1)					2 (0.05)
Living TX (pmp)	63 (5.6)	14 (1.4)	4 (1.0)	98 (1.7)		6 (1.8)		274 (16.6)	18 (0.5)
NHB kidney TX (pmp)					24 (10.4)			167 (10.1)	
LIVER									
TX –included all the combinations– (pmp)	27 (2.4)	47 (4.6)		1124 (19.7)		3 (0.9)		98 (5.9)	200 (5.2)
Paediatric < 15 years		4		78				17	25
– Split Liver TX (pmp)				123 (2.1)				6 (0.4)	
– Domino Liver TX (pmp)									
Living Liver TX (pmp)		2 (0.2)		33 (0.6)				4 (0.2)	20 (0.5)
NHB Liver TX (pmp)								13 (0.8)	
HEART									
TX –included Heart-lung transplant– (pmp)	7 (0.6)	22 (2.2)		344 (6.0)	2 (0.9)	10 (2.9)		39 (2.4)	96 (2.5)
Paediatric < 15 years				15					3
HEART-LUNG									
Transplants (pmp)								1 (0.06)	1 (0.0)
Paediatric < 15 years									
LUNG									
TX –included all the combinations– (pmp)	1 (0.1)			92 (1.6)				55 (3.3)	6 (0.2)
Paediatric < 15 years				4				1	
– Single (pmp)				24 (0.4)				20 (1.2)	4 (0.1)
– Double –included Heart/Lung TX– (pmp)				68 (1.2)				35 (2.1)	2 (0.0)
NHB –double + single– Lung TX (pmp)									
PANCREAS									
TX –included all the combinations– (pmp)		13 (1.3)	4 (1.0)	88 (1.5)				23 (1.4)	37 (1.0)
Paediatric < 15 years									
– Kidney - Pancreas TX (pmp)		13 (1.3)	4 (1.0)	63 (1.1)				20 (1.2)	36 (0.9)
– Pancreas TX Alone (pmp)				24 (0.4)				3 (0.2)	1 (0.0)
SMALL BOWEL									
TX –included all the combinations– (pmp)				4 (0.1)					
Paediatric < 15 years				1					
– Liver + Small Bowel (pmp)				1 (0.0)					
– S. B. TX Alone (pmp)				3 (0.1)					
MULTIVISCERAL (pmp)				1 (0.0)					

COUNTRIES	PORTUGAL	ROMANIA	SLOVAK R.	SLOVENIA	SPAIN	SWEDEN	U. K.	OTHER COUNTRIES AUSTRALIA	OTHER COUNTRIES CANADA
Population	10.0	21.0	5.3	2.0	44.7	9.1	60.2	20.6	33.1
DONATION									
Deceased Organ D. –included NHBD– (Rate –pmp–)	201 (20.1)	22 (1.0)	64 (12.1)	30 (15.0)	1509 (33.8)	137 (15.1)	779 (12.9)	202 (9.8)	468 (14.1)
NHB Donors (pmp)					76 (1.7)		146 (2.4)	8 (0.3)	4
% Multiorgan donors	80.6	80.9		70	83.9	78.1	79	87	
TRANSPLANTATION									
KIDNEY									
TX –included all the combinations– (pmp)	396 (39.6)	204 (9.7)	139 (26.2)	48 (24.0)	2157 (48.2)	365 (40.1)	2067 (34.3)	641 (31.1)	1259 (38.0)
% (Living TX/Total TX)	9.6	80.9	20.9	0.0	4.7	35.9	32.5	42.6	38.6
Paediatric < 15 years	7	12	6	1	58	11	86	23	57
Deceased Donor TX (pmp)	358 (35.8)	39 (1.8)	110 (20.7)	48 (24.0)	2055 (46.0)	234 (25.7)	1396 (23.2)	368 (17.8)	773 (23.3)
– Single TX (pmp)	341 (34.1)	39 (1.8)			2019 (45.2)	232 (25.5)	1224 (20.3)	364 (17.6)	
– Double TX (pmp)	4 (0.4)				36 (0.8)	2 (0.2)	16 (0.3)	4 (0.1)	
Living TX (pmp)	38 (3.8)	165 (7.9)	29 (5.5)		102 (2.3)	131 (14.4)	671 (11.1)	273 (13.2)	486 (14.7)
NHB kidney TX (pmp)					97 (2.2)		252 (4.2)	12 (0.5)	8 (0.2)
LIVER									
TX –included all the combinations– (pmp)	225 (22.5)	20 (0.9)		8 (4.0)	1051 (23.5)	127 (14.0)	646 (10.7)	163 (7.9)	489 (16.2)
Paediatric < 15 years	6	2			69	10	85	9	39
– Split Liver TX (pmp)	4 (0.4)				26 (0.6)	6 (0.7)	115 (1.9)	16 (0.7)	22 (0.7)
– Domino Liver TX (pmp)	59 (5.9)				6 (0.1)	4 (0.4)	3		
Living Liver TX (pmp)	2 (0.2)	3 (0.1)			18 (0.4)	6 (0.7)	9 (0.1)	2 (0.1)	67 (2)
NHB Liver TX (pmp)					11 (0.2)		29 (0.5)	1 (0.0)	2 (0.1)
HEART									
TX –included Heart-lung transplant– (pmp)	38 (3.8)	7 (0.3)	10 (2.0)	7 (3.5)	274 (6.1)	40 (4.4)	159 (2.6)	76 (3.6)	183 (5.5)
Paediatric < 15 years		1	1		16	3	27	6	38
HEART-LUNG									
Transplants (pmp)					7 (0.1)		3 (0.0)	6 (0.3)	6 (0.2)
Paediatric < 15 years					1			3	
LUNG									
TX –included all the combinations– (pmp)	2 (0.2)				169 (3.8)	50 (5.5)	121 (2.0)	98 (4.7)	168 (5.1)
Paediatric < 15 years					6		4	7	3
– Single (pmp)	2 (0.2)				67 (1.5)	28 (3.1)	37 (0.6)	15 (0.7)	23 (0.7)
– Double –included Heart/Lung TX– (pmp)					102 (2.3)	22 (2.4)	84 (1.4)	83 (4.0)	145 (4.4)
NHB –double + single– Lung TX (pmp)					8 (0.2)		2	2 (0.1)	
PANCREAS									
TX –included all the combinations– (pmp)	13 (1.3)	2 (0.1)			94 (2.1)	6 (0.7)	164 (2.7)	34 (1.6)	90 (2.7)
Paediatric < 15 years							2	1	
– Kidney - Pancreas TX (pmp)	13 (1.3)	2 (0.1)			84 (1.9)	6 (0.7)	138 (2.3)	33 (1.6)	54 (1.6)
– Pancreas TX Alone (pmp)					6 (0.1)		25 (0.4)	1 (0.0)	36 (1.1)
SMALL BOWEL									
TX –included all the combinations– (pmp)					13 (1)		4 (0.1)		
Paediatric < 15 years					10		2		
– Liver + Small Bowel (pmp)					1 (0.0)		4 (0.1)		
– S. B. TX Alone (pmp)					8 (0.2)				
MULTIVISCERAL (pmp)					4 (0.1)		1 (0.02)		

COUNTRIES	CROACIA	GEORGIA	ICELAND	ISRAEL	N. ZEALAND	NORWAY	SWITZERLAND	TURKEY	USA
Population	4.4	5	0.3	7.0	4.1	4.7	7.5	67.3	301.0
DONATION									
Deceased Organ D. –included NHBD– (Rate –pmp–)	57 (12.9)		6 (20.0)	68 (9.7)	25 (6.0)	76 (16.2)	80 (10.7)	143 (2.1)	8024 (26.5)
NHB Donors (pmp)									
% Multiorgan donors	71.9		50	53	92	76.3	89		
TRANSPLANTATION									
KIDNEY									
TX –included all the combinations– (pmp)	126 (28.6)	9 (1.8)	8 (26.7)	153 (21.9)	90 (21.7)	212 (45.1)	276 (36.8)	942 (13.9)	17089 (56.8)
% (Living TX/Total TX) 000	15.9	100	100	35.3	54.4	37.7	42.4	69.8	37.6
Paediatric < 15 years	2	1		8	2	6	8	9	894
Deceased Donor TX (pmp)	106 (24.1)			99 (14.1)	41 (9.9)	132 (28.1)	159 (21.2)	257 (3.8)	10654 (35.4)
– Single TX (pmp)	105 (23.9)			87 (12.4)	41 (9.9)	130 (27.7)		254 (3.8)	
– Double TX (pmp)	1 (0.2)					2 (0.4)		3 (0.0)	
Living TX (pmp)	20 (4.5)	9 (1.8)	8 (26.7)	54 (7.7)	49 (11.8)	80 (17.0)	117 (15.7)	685 (10.1)	6435 (21.4)
NHB kidney TX (pmp)									
LIVER									
TX –included all the combinations– (pmp)	49 (11.1)			58 (8.3)	28 (6.7)	62 (13.2)	94 (12.2)	319 (4.7)	6650 (22.1)
Paediatric < 15 years	1			6	1	13	7		576
– Split Liver TX (pmp)	1 (0.2)			1 (0.1)	8 (1.9)	4 (0.9)	1 (0.1)	2 (0.0)	
– Domino Liver TX (pmp)							1 (0.1)		
Living Liver TX (pmp)	4 (0.9)			5 (0.7)	4 (0.9)		8 (1.1)	205 (3)	288 (0.9)
NHB Liver TX (pmp)									
HEART									
TX –included Heart-lung transplant– (pmp)	14 (3.2)			24 (3.4)	9 (2.1)	32 (6.8)	26 (3.5)	45 (0.6)	2192 (7.3)
Paediatric < 15 years						1	2	1	314
HEART-LUNG									
Transplants (pmp)							1 (0.1)		31 (0.1)
Paediatric < 15 years									7
LUNG									
TX –included all the combinations– (pmp)				45 (6.4)	13 (3.1)	24 (5.1)	35 (4.7)		1405 (4.7)
Paediatric < 15 years					1				55
– Single (pmp)				34 (4.9)	2 (0.4)	4 (0.8)	1 (0.1)		
– Double –included Heart/Lung TX– (pmp)				11 (1.6)	11 (9.6)	20 (4.3)	34 (4.6)		
NHB –double + single– Lung TX (pmp)									
PANCREAS									
TX –included all the combinations– (pmp)	13 (2.9)			11 (1.6)	6 (1.4)	6 (1.3)	10 (1.3)	7 (0.1)	1386 (4.6)
Paediatric < 15 years									39
– Kidney - Pancreas TX (pmp)	12 (2.7)			9(1.3)	6 (1.4)	6 (1.3)	7 (1.5)	4 (0.0)	924 (3.1)
– Pancreas TX Alone (pmp)	1 (0.2)			2 (0.3)			3 (0.4)	3 (0.0)	462 (1.5)
SMALL BOWEL									
TX –included all the combinations– (pmp)									175 (0.6)
Paediatric < 15 years									92
– Liver + Small Bowel (pmp)									
– S. B. TX Alone (pmp)									175 (0.6)
MULTIVISCERAL (pmp)									

COUNTRIES	ARGENTINA	BRASIL	CHILE	COLOMBIA	CUBA	DOMINICANA	ECUADOR
Population	38.9	185.4	15.2	40.0	10.5	9.0	13.0
DONATION							
Deceased Or. D. –included NHBD– (Rate –pmp–)	462 (11.9)	1112 (6.0)	154 (10.1)	396 (9.9)	157 (15.0)	1 (0.1)	34 (2.6)
NHB Donors (pmp)							
% Multiorgan donors							
TRANSPLANTATION							
KIDNEY							
TX –included all the combinations– (pmp)	850 (21.8)	3283 (17.7)	298 (19.6)	608 (15.2)	119 (11.4)	49 (5.6)	280 (21.5)
% (Living TX/Total TX)	22.1	53.7	11.7	12.2	6.7	100	47.8
Paediatric < 15 years							
Deceased Donor TX (pmp)	662 (17.0)	1520 (8.2)	263 (17.3)	534 (13.3)	111 (10.6)		146 (11.3)
– Single TX (pmp)							
– Double TX (pmp)							
Living TX (pmp)	188 (4.8)	1763 (9.6)	35 (2.3)	74 (1.8)	8 (0.7)	49 (5.6)	134 (10.3)
NHB kidney TX (pmp)							
LIVER							
TX –included all the combinations– (pmp)	236 (6.1)	1020 (5.5)	86 (5.7)	170 (4.2)	29 (2.5)		
Paediatric < 15 years							
– Split Liver TX (pmp)							
– Domino Liver TX (pmp)							
Living Liver TX (pmp)							
NHB Liver TX (pmp)							
HEART							
TX –included Heart-lung transplant– (pmp)	83 (2.1)	138 (0.7)	20 (1.3)	58 (1.4)	3 (0.3)		
Paediatric < 15 years							
HEART-LUNG							
Transplants (pmp)							
Paediatric < 15 years							
LUNG							
TX –included all the combinations– (pmp)	26 (0.7)	49 (0.3)	7 (0.5)	11 (0.3)			
Paediatric < 15 years							
– Single (pmp)							
– Double –included Heart/Lung TX– (pmp)							
NHB –double + single– Lung TX (pmp)							
PANCREAS							
TX –included all the combinations– (pmp)	29 (0.7)	173 (0.9)	1 (0.1)	3 (0.1)	2 (0.2)		
Paediatric < 15 years							
– Kidney - Pancreas TX (pmp)	29 (0.7)	173 (0.9)	1 (0.1)	3 (0.1)	2 (0.2)		
– Pancreas TX Alone (pmp)							
SMALL BOWEL							
TX –included all the combinations– (pmp)							
Paediatric < 15 years							
– Liver + Small Bowel (pmp)							
– S. B. TX Alone (pmp)							
MULTIVISCERAL (pmp)							

COUNTRIES	EL SALVADOR	GUATEMALA	MEXICO	PARAGUAY	URUGUAY	VENEZUELA
Population	6.4	12.0	104	5.7	3.2	26.8
DONATION						
Deceased Or. D. –included NHBD– (Rate –pmp–)	9 (1.4)	6 (0.5)	372 (3.6)	2 (0.3)	81 (25.2)	62 (2.3)
NHB Donors (pmp)						
% Multiorgan donors						
TRANSPLANTATION						
KIDNEY						
TX –included all the combinations– (pmp)	83 (13)	81 (6.7)	1931 (18.6)	12 (2.1)	142 (44.4)	271 (10.1)
% (Living TX/Total TX)	78.3	92.6	73.8	83.3	5.6	56.4
Paediatric < 15 years						
Deceased Donor TX (pmp)	18 (2.8)	6 (0.5)	505 (4.9)	2 (0.3)	134 (41.8)	118 (4.4)
– Single TX (pmp)			504 (4.9)			
– Double TX (pmp)			1 (0.1)			
Living TX (pmp)	65 (10.1)	75 (6.2)	1426 (13.7)	10 (1.8)	8 (2.5)	153 (5.6)
NHB kidney TX (pmp)						
LIVER						
TX –included all the combinations– (pmp)			103 (1.0)			6 (0.2)
Paediatric < 15 years						
– Split Liver TX (pmp)						
– Domino Liver TX (pmp)						
Living Liver TX (pmp)			11 (0.1)			
NHB Liver TX (pmp)						
HEART						
TX –included Heart-lung transplant– (pmp)			13 (0.1)		7 (2.2)	
Paediatric < 15 years						
HEART-LUNG						
Transplants (pmp)						
Paediatric < 15 years						
LUNG						
TX –included all the combinations– (pmp)						
Paediatric < 15 years			2 (0.02)			
– Single (pmp)						
– Double –included Heart/Lung TX– (pmp)			2 (0.02)			
NHB –double + single– Lung TX (pmp)						
PANCREAS						
TX –included all the combinations– (pmp)			2 (0.02)		6 (1.8)	
Paediatric < 15 years						
– Kidney - Pancreas TX (pmp)			2 (0.02)		6 (1.8)	
– Pancreas TX Alone (pmp)						
SMALL BOWEL						
TX –included all the combinations– (pmp)						
Paediatric < 15 years						
– Liver + Small Bowel (pmp)						
– S. B. TX Alone (pmp)						
MULTIVISCERAL (pmp)						

COUNTRIES	AUSTRIA	BELGIUM	BULGARIA	CYPRUS	DENMARK	ESTONIA	FINLAND	FRANCE	GERMANY
Population	8.2	10.4	7.0	0.7	5.4	1.3	5.2	62.0	82.4
WAITING LIST									
KIDNEY									
Nº TX CENTRES:			3	1	4	1	1	44	
Patients admitted to the WL during 2006	410	466	571	24	226	60	222	3274	2824
Patients awaiting for a TX by 2006, 31st Dec	835	911	581	120	382	46	253	6152	8473
Patients dead while on the WL during 2006	42	44	26	10	23		6	141	332
ESRD on dialysis treatment during 2006			2527	250		260			
LIVER									
Nº TX CENTRES:			3		1	1	1	24	
Patients admitted to the WL during 2006	183	253	27		60	3	56	1302	1636
Patients awaiting for a TX by 2006, 31st Dec	115	185	34		36	3	8	538	1855
Patients dead while on the WL during 2006	32	52	4		7		3	122	367
HEART									
Nº TX CENTRES:			2		2		1	26	
Patients admitted to the WL during 2006	69	85	15		31		19	455	743
Patients awaiting for a TX by 2006, 31st Dec	58	29	38		24		8	240	822
Patients dead while on the WL during 2006	40	10	7		2			71	194
HEART-LUNG									
Nº TX CENTRES:								7	
Patients admitted to the WL during 2006								36	
Patients awaiting for a TX by 2006, 31st Dec								33	
Patients dead while on the WL during 2006								7	
LUNG									
Nº TX CENTRES:			1		1		1	12	
Patients admitted to the WL during 2006	105	94			43		16	257	396
Patients awaiting for a TX by 2006, 31st Dec	85	56			49		6	131	538
Patients dead while on the WL during 2006	2	7			12		2	30	92
PANCREAS									
Nº TX CENTRES:								9	
Patients admitted to the WL during 2006	34	30						124	176
Patients awaiting for a TX by 2006, 31st Dec	32	30						169	190
Patients dead while on the WL during 2006	2	2						8	17
SMALL BOWEL									
Nº TX CENTRES:								1	
Patients admitted to the WL during 2006								9	
Patients awaiting for a TX by 2006, 31st Dec								13	
Patients dead while on the WL during 2006								1	

COUNTRIES	GREECE	HUNGARY	IRELAND	ITALY	LATVIA	LITHUANIA	LUXEMBURG	NETHERLANDS	POLAND
Population	11.1	10.1	4.1	56.9	2.3	3.4	0.5	16.5	38.2
WAITING LIST									
KIDNEY									
Nº TX CENTRES:	4	4		43	1	2			17
Patients admitted to the WL during 2006	367	343	208	3027	70	65	10	791	1196
Patients awaiting for a TX by 2006, 31st Dec	852	924	468	8718	323	319	16	1084	1167
Patients dead while on the WL during 2006	62	40		143	15	1		95	28
ESRD on dialysis treatment during 2006	10994	5121							
LIVER									
Nº TX CENTRES:	2	1		23		2			5
Patients admitted to the WL during 2006	46	72		1409		16		120	311
Patients awaiting for a TX by 2006, 31st Dec	30	53		1736		25		158	160
Patients dead while on the WL during 2006	9	10		178		5		23	19
HEART									
Nº TX CENTRES:	1	1		18	1	2			4
Patients admitted to the WL during 2006	12	19		504	3	10		50	197
Patients awaiting for a TX by 2006, 31st Dec	3	7		741	4	28		46	187
Patients dead while on the WL during 2006	1	8		123	1	8		8	42
HEART-LUNG									
Nº TX CENTRES:									
Patients admitted to the WL during 2006									
Patients awaiting for a TX by 2006, 31st Dec									
Patients dead while on the WL during 2006									
LUNG									
Nº TX CENTRES:	1	0		13		2			1
Patients admitted to the WL during 2006	4	9		330		1		101	21
Patients awaiting for a TX by 2006, 31st Dec	1	4		262		2		145	18
Patients dead while on the WL during 2006	1	1		54		1		16	2
PANCREAS									
Nº TX CENTRES:				18				33	4
Patients admitted to the WL during 2006				168				40	36
Patients awaiting for a TX by 2006, 31st Dec				279				2	9
Patients dead while on the WL during 2006				4					
SMALL BOWEL									
Nº TX CENTRES:		2		3					
Patients admitted to the WL during 2006		14		2					
Patients awaiting for a TX by 2006, 31st Dec		15		18					
Patients dead while on the WL during 2006		2		1					



COUNTRIES	PORTUGAL	ROMANIA	SLOVAK R.	SLOVENIA	SPAIN	SWEDEN	U. K.	OTHER COUNTRIES AUSTRALIA	OTHER COUNTRIES CANADA
Population	10.0	21.0	5.3	2.0	44.7	9.1	60.2	20.6	33.1
WAITING LIST									
KIDNEY									
Nº TX CENTRES:	8	5	4		43	4	26	22	24
Patients admitted to the WL during 2006	595	279	256	52		318	3435		
Patients awaiting for a TX by 2006, 31st Dec	2293	1580	726	72	4188	333	8150	1394	2962
Patients dead while on the WL during 2006	103	5	89	1		18	286		70
ESRD on dialysis treatment during 2006		6250			21395				
LIVER									
Nº TX CENTRES:	3	1	1		28	3	7	8	9
Patients admitted to the WL during 2006		146	3	11	1453	123	796		
Patients awaiting for a TX by 2006, 31st Dec		287	6	6	704	34	334	120	578
Patients dead while on the WL during 2006		40	1	4	152	4	91		120
HEART									
Nº TX CENTRES:	4	2	1		20	3	7	5	11
Patients admitted to the WL during 2006		26	18	28	349	55	227		
Patients awaiting for a TX by 2006, 31st Dec		60	11	24	83	6	130	50	83
Patients dead while on the WL during 2006		15	3	10	26	27	40		15
HEART-LUNG									
Nº TX CENTRES:									
Patients admitted to the WL during 2006									
Patients awaiting for a TX by 2006, 31st Dec									
Patients dead while on the WL during 2006									
LUNG									
Nº TX CENTRES:	1	2			9	2	6	5	6
Patients admitted to the WL during 2006		4			213	52	227		
Patients awaiting for a TX by 2006, 31st Dec		18			145	20	314	78	209
Patients dead while on the WL during 2006		1			17	7	60		36
PANCREAS									
Nº TX CENTRES:	1	3			11	3	9	2	6
Patients admitted to the WL during 2006		38			95	12	161		
Patients awaiting for a TX by 2006, 31st Dec		81			73	15	97	42	42
Patients dead while on the WL during 2006		6			1	1	1		
SMALL BOWEL									
Nº TX CENTRES:					2	1	3		4
Patients admitted to the WL during 2006					30		16		
Patients awaiting for a TX by 2006, 31st Dec					7		5		
Patients dead while on the WL during 2006					3		5		

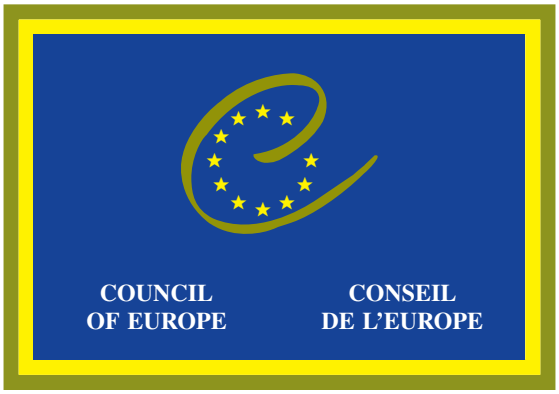
COUNTRIES	CROATIA	GEORGIA	ICELAND	ISRAEL	N. ZEALAND	NORWAY	SWITZERLAND	TURKEY	USA
Population	4.4	5	0.3	7.0	4.2	4.7	7.5	67.3	301.0
WAITING LIST									
KIDNEY									
Nº TX CENTRES:	3	2	1	6	3	1	6	32	250
Patients admitted to the WL during 2006				240		203	357		34018
Patients awaiting for a TX by 2006, 31st Dec	665			546	433	226	588	12324	75496
Patients dead while on the WL during 2006				16		15	10		4134
ESRD on dialysis treatment during 2006				4600		1006			
LIVER									
Nº TX CENTRES:	3			3	1	1	3	19	117
Patients admitted to the WL during 2006				120		49	144		11036
Patients awaiting for a TX by 2006, 31st Dec	45			120	13	9	108	1010	17364
Patients dead while on the WL during 2006				18		3	18		1636
HEART									
Nº TX CENTRES:	2			3	1	1	4	12	131
Patients admitted to the WL during 2006				74		30	41		3037
Patients awaiting for a TX by 2006, 31st Dec	27			126	5	13	23	225	2803
Patients dead while on the WL during 2006				20		2	9		360
HEART-LUNG									
Nº TX CENTRES:									
Patients admitted to the WL during 2006									
Patients awaiting for a TX by 2006, 31st Dec									
Patients dead while on the WL during 2006									
LUNG									
Nº TX CENTRES:	1			2	1	1	2	12	67
Patients admitted to the WL during 2006				67		24	47		1775
Patients awaiting for a TX by 2006, 31st Dec				50	8	45	25	1	2766
Patients dead while on the WL during 2006				15		7			248
PANCREAS									
Nº TX CENTRES:	2			3	1	1	2	32	141
Patients admitted to the WL during 2006				3		3	16		2743
Patients awaiting for a TX by 2006, 31st Dec				16	4	10	21	64	4131
Patients dead while on the WL during 2006							3		286
SMALL BOWEL									
Nº TX CENTRES:						0	1		18
Patients admitted to the WL during 2006						1			317
Patients awaiting for a TX by 2006, 31st Dec						1			236
Patients dead while on the WL during 2006						0			53

FAMILY REFUSALS

COUNTRIES	BULGARIA	ESTONIA	FRANCE	GREECE	HUNGARY	ITALY	LATVIA	LITHUANIA	POLAND
Population (million inhabitants)	7.0	1.3	62.0	11.1	10.1	56.9	2.3	3.4	38.2
Number of interviews, asking for consent to donation	56	30		226	283	2085	36	86	559
Number of family refusals (%)	37 (66.1)	21 (70)	980	104 (46)	13 (4.6)	582 (27.9)	14 (38.9)	32 (37.2)	63 (11.3)

COUNTRIES	PORTUGAL	ROMANIA	SPAIN	U. K.	OTHER COUNTRIES ICELAND	ISRAEL	NORWAY	TURKEY
Population (million inhabitants)	10.0	21	44.7	60.2	0.3	7.0	4.7	67.3
Number of interviews, asking for consent to donation	3	44	1982	1041	7	162	107	270
Number of family refusals (%)		22 (50)	302 (15.2)	428 (41.1)	1 (14.3)	88 (54.3)	31 (28.9)	105 (39)

COUNTRIES	ARGENTINA	BRASIL	CHILE	COLOMBIA	CUBA	URUGUAY	VENEZUELA
Population (million inhabitants)	38.9	185.4	15.23	40.0	10.5	3.2	26.8
Number of interviews, asking for consent to donation							
Number of family refusals (%)	(46.7)	(27.4)	(39)	(32.8)	(6.1)	(22.5)	(33.5)



International Data on Tissue and Hematopoeitic Stem Cell Transplant Activity. Year 2006

COUNTRIES	BULGARY	ESTONIA	FRANCE	GREECE	CYPRUS	CZECH R.	ITALY	PORTUGAL
Population (million inhabitants)	7.0	1.3	62.0	11.1	0.7	10.3	56.9	10.0
TISSUE ACTIVITY INDICATORS								
Muscle Skeletal Tissue								
Nº Deceased donors (pmp)	653 (93.0)					73 (7.0)	321 (5.6)	32 (3.2)
Nº Living donors (pmp)						1062 (103.2)	3099 (54.4)	
Nº Grafted Patients (pmp)	512 (73.0)		17429 (281.1)			1769 (172.0)	5724 (100.4)	
Nº Bank Processed Pieces (pmp)	1201 (171.0)		14364 (231.5)			1918 (186.4)	9976 (175.0)	
Percentage of Discarded Pieces	2					7.76		
Types of Tissues Distributed: Bone % (frozen/ freeze-dry/ demineralized)	24/756/7		-/-/403					
Types of Tissues Distributed: *Tendons %*								
Corneas								
Nº Deceased donors (pmp)	135 (19.0)	20 (15.4)		75 (6.7)	4 (5.7)	479 (46.5)	5937 (104.2)	283 (28.3)
Nº Grafted Patients (pmp)	113 (16.0)		4383 (70.7)	69 (6.2)		896 (87.1)	4607 (80.8)	
Nº Bank Processed Pieces (pmp)	113 (16.0)		8365 (134.9)			1258 (148.5)	11230 (197.0)	
Percentage of Discarded Pieces	2					16.20		

COUNTRIES	BULGARY	ESTONIA	FRANCE	GREECE	CYPRUS	CZECH R.	ITALY	PORTUGAL
Population (million inhabitants)	7.0	1.3	62.0	11.1	0.7	10.3	56.9	10.0
Vascular Tissue								
Nº Deceased donors (pmp)						13 (1.2)	184 (3.3)	92 (9.2)
Nº Living donors (pmp)							799 (14.0)	
Nº Grafted Patients (pmp)			906 (14.6)			6 (0.6)	347 (6.1)	
Nº Bank Processed Pieces (pmp)			2759 (44.5)		.	7 (0.7)	1132 (19.9)	
Percentage of Discarded Pieces						14.2		
Types of Tissues Distributed: *Artery*			402				*54*	
Types of Tissues Distributed: *Vein*			504				*46*	
Valves								
Nº Deceased Donors (pmp)						70 (6.8)	299 (5.2)	72 (7.2)
Nº Grafted Patients (pmp)			162 (2.6)			50 (4.9	204 (3.6)	
Nº Bank Processed Pieces (pmp)			652 (10.5)			70 (6.8)	501 (8.8)	
Percentage of Discarded Pieces						28.5		
Types of Tissues Distributed: *Aortic*			51				*40*	
Types of Tissues Distributed: *Pulmonary*			104				*60*	
Types of Tissues Distributed: *Tricuspid*								
Types of Tissues Distributed: *Mitral*			7					
Types of Tissues Distributed: *Other*								

COUNTRIES	BULGARY	ESTONIA	FRANCE	GREECE	CYPRUS	CZECH R.	ITALY	PORTUGAL
Population (million inhabitants)	7.0	1.3	62.0	11.1	0.7	10.3	56.9	10.0
TISSUE ACTIVITY INDICATORS								
Skin								
Nº Deceased donors (pmp)	305 (43.6)					5 (0.4)	290 (5.1)	18 (1.8)
Nº Living donors (pmp)							4 (0.1)	
Nº Grafted patients (pmp)	76 (10.0)		330977 (5338.3)			1565 (152.1)	1300 (22.8)	
Nº Bank Processed Pieces (pmp)	305		282422.5 (4555.2)			1566 (152.2)	6.955.886	
Percentage of Discarded Pieces	2					2.8		
Cell Cultures								
Nº Deceased donors (pmp)								
Nº Living Donors (pmp)						113 (10.9)	191 (3.4)	
Nº Grafted Patients (pmp)						113 (10.9)	1133 (19.9)	
Nº Bank Processed Pieces (pmp)						981 (95.4)	187 (3.3)	
Percentage of Discarded Pieces								
Types of Tissues Distributed: *Chondrocytes*						*10*		
Types of Tissues Distributed: *Keratinocytes*						*90*		
Types of Tissues Distributed: *Other*								

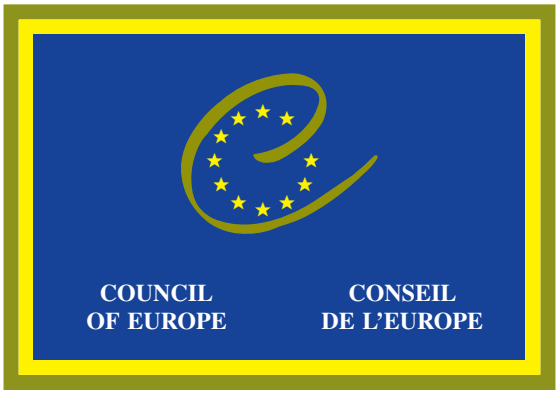
COUNTRIES	POLAND	ROMANIA	SPAIN	SLOVAK R.	SWEDEN	U. K.	OTHER COUNTRIES ISRAEL	TURKEY	URUGUAY
Population (million inhabitants)	38.2	21.0	44.7	5.5	9.1	60.2	7.0	67.3	3.2
TISSUE ACTIVITY INDICATORS									
Muscle Skeletal Tissue									
Nº Deceased donors (pmp)	301 (7.9)	1 (0.0)	677 (15.1)		24 (2.6)		274 (39.1)		24 (7.5)
Nº Living donors (pmp)	115 (3.0)	258 (12.3)	2191 (49.0)	130 (25)					
Nº Grafted Patients (pmp)		438 (20.8)	6221 (139.2)	428 (77.8)					108 (33.8)
Nº Bank Processed Pieces (pmp)	11798 (309.1)	397 (18.9)	9952 (222.6)	130 (25.0)	90 (10.5)				809 (252.8)
Percentage of Discarded Pieces		7	9						6.3
Types of Tissues Distributed: Bone % (frozen/ freeze-dry/ demineralized)				298/ 130/ 0					0.01/96/2.7
Types of Tissues Distributed: *Tendons* %									
Corneas									
Nº Deceased donors (pmp)	499 (13.1)	5 (0.2)	2695 (60.3)	135 (24.5)	305 (33.5)	2131 (35.4)	235 (33.6)	1081 (16.1)	82 (25.6)
Nº Grafted Patients (pmp)		5 (0.2)	2595 (58.0)	210 (38.1)	524 (57.6)	2487 (41.3)		1765 (26.2)	119 (37.2)
Nº Bank Processed Pieces (pmp)	641 (16.8)	7 (0.3)	5194 (116.2)	290 (52.7)	609 (66.9)	4159 (69.1)		2162 (32.1)	160 (50)
Percentage of Discarded Pieces		28.5	45.5						15.6

COUNTRIES	POLAND	ROMANIA	SPAIN	SLOVAK R.	SWEDEN	U. K.	OTHER COUNTRIES ISRAEL	TURKEY	URUGUAY
Population (million inhabitants)	38.2	21.0	44.7	5.5	9.1	60.2	7.0	67.3	3.2
Vascular Tissue									
Nº Deceased donors (pmp)	4 (0.1)		222 (5.0)	1 (0.2)	22 (2.4)				24 (7.5)
Nº Living donors (pmp)									
Nº Grafted Patients (pmp)			112 (2.5)						59 (18.4)
Nº Bank Processed Pieces (pmp)	5 (0.1)		217 (4.8)		33 (3.6)				68 (21.2)
Percentage of Discarded Pieces			28.1						2.9
Types of Tissues Distributed: *Artery*									96.7
Types of Tissues Distributed: *Vein*									
Valves									
Nº Deceased Donors (pmp)	155 (4.1)		198 (4.4)	14 (2.5)	130 (14.3)		22 (3.1)	25 (0.4)	18 (5.6)
Nº Grafted Patients (pmp)			124 (2.8)	11 (2.0)	158 (17.4)			25 (0.4)	9 (2.8)
Nº Bank Processed Pieces (pmp)	176 (4.6)		262 (5.9)	28 (5.1)	249 (27.3)				36 (11.2)
Percentage of Discarded Pieces			27.4						8.3
Types of Tissues Distributed: *Aortic*				*6*					
Types of Tissues Distributed: *Pulmonary*				*5*					
Types of Tissues Distributed: *Tricuspid*									
Types of Tissues Distributed: *Mitral*									
Types of Tissues Distributed: *Other*									

COUNTRIES	POLAND	ROMANIA	SPAIN	SLOVAK R.	SWEDEN	U. K.	OTHER COUNTRIES ISRAEL	TURKEY	URUGUAY
Population (million inhabitants)	38.2	21.0	44.7	5.5	9.1	60.2	7.0	67.3	
TISSUE ACTIVITY INDICATORS									
Skin									
Nº Deceased donors (pmp)	15 (0.4)	5 (0.2)	99 (2.2)		30 (3.2)		1084		50 (15.6)
Nº Living donors (pmp)	1 (0.0)	62 (2.9)	0						
Nº Grafted patients (pmp)		35 (1.7)	64 (1.4)	5 (1)					24 (7.5)
Nº Bank Processed Pieces (pmp)	7947 (208.2)	32 (1.5)	281921 (6306.9)		21778 (2393.2)				43500 (13593)
Percentage of Discarded Pieces		5	3.5						1.47
Cell Cultures									
Nº Deceased donors (pmp)									
Nº Living Donors (pmp)				9 (1.8)					
Nº Grafted Patients (pmp)				11 (2.0)					
Nº Bank Processed Pieces (pmp)									
Percentage of Discarded Pieces									
Types of Tissues Distributed: *Chondrocytes*			*63*	*5*					
Types of Tissues Distributed: *Keratinocytes*			*19*	*6*					
Types of Tissues Distributed: *Other*									

COUNTRIES	BULGARY	POLAND	ESTONIA	FRANCE	HUNGARY	LITHUANIA	PORTUGAL
Population (million inhabitants)	7.0	38.2	1.3	62.0	10.1	3.4	10.0
HEMATOPOIETIC STEM CELL TRANSPLANT							
Autologous	23	529	22	2949	181	64	227
Allogeneic related	12	178	6	645	47	11	73
Allogeneic unrelated		131	4	607	28	22	24
Total	35	838	32	4201	256	97	324

COUNTRIES	PORTUGAL	ROMANIA	SLOVAK R.	SPAIN	SWEDEN	OTHER COUNTRIES CROATIA	TURKEY	URUGUAY
Population (million inhabitants)	10.0	21.0	5.3	44.7	9.1	4.4	67.3	3.2
HEMATOPOIETIC								
Autologous	227	48	123	1308	–	114	279	52
Allogeneic related	73	10	29	425	94	23	287 (rel. + unrel.)	7
Allogeneic unrelated	24		5	241	105	4		
Total	324	58	157	1974	199	141	566	59



Documents Produced by the Transplant Committee of the Council of Europe. Year 2006

RECOMMENDATION REC(2006)15 OF THE COMMITTEE OF MINISTERS TO MEMBER STATES ON THE BACKGROUND, FUNCTIONS AND RESPONSIBILITIES OF A NATIONAL TRANSPLANT ORGANISATION (NTO)

(Adopted by the Committee of Ministers on 8 november 2006 at the 979th meeting of the Ministers' Deputies)

The Committee of Ministers, under the terms of Article 15.*b* of the Statute of the Council of Europe,

Considering that the aim of the Council of Europe is to achieve greater unity between its members and that this aim may be pursued, in particular by the adoption of common rules in the public health field;

Bearing in mind the Convention on Human Rights and Biomedicine (ETS No. 164), in particular its Articles 19 and 20, and Article 3 of the Additional Protocol to the Convention on Human Rights and Biomedicine on Transplantation of Organs and Tissues of Human Origin (ETS No. 186);

Recalling its Recommendations to member states, Rec(2001)5 on the management of organ transplant waiting lists and waiting times, and Rec(2004)7 on organ trafficking, and recalling its Resolution (78) 29 on harmonisation of legislations of member states relating to removal, grafting and transplantation of human substances;

Considering that:

– organ transplantation is a well-established, life saving, and effective treatment. It may be the only treatment available for some forms of end stage organ failure and is the most clinically effective and cost effective treatment for chronic renal failure; tissue and cell transplantation may be life saving or life enhancing;

– organ transplantation, and sometimes tissue transplantation, is severely limited by the availability of organs for transplantation;

– a properly established and managed transplantation system is essential to maximise the rate of organ and tissue donation and provide equitable access to transplantation services for patients by guaranteeing the allocation of organs and tissues following rules which are transparent, objective and justified according to medical criteria, and by guaranteeing traceability and accountability,

Recommends that the governments of member states:

i. set up a comprehensive national transplantation system (NTS) for the authorisation[1], organisation and monitoring of organ, tissue, and cell donation and transplantation, taking into account the differences in the procedures of organ, tissue and cell donation and transplantation in member states;

ii. ensure that the NTS has a statutory basis which clearly sets out the structure of the system, its powers and responsibilities. It is preferable to have a single public body [a national transplant organisation (NTO)] which is officially recognised, and non-profit making with overall responsibility for donation, allocation, traceability and accountability. However, a combination of local, regional, national and/or international bodies may work together to co-ordinate donation, allocation and/or transplantation, provided that the framework in place ensures accountability, co-operation and efficiency;

[1] The term «authorisation» is meant to include the following three functions: accreditation, licensing, and designation.

iii. ensure that the NTS has competencies and mechanisms to organise and oversee the whole process of transplantation including: public education on transplantation; organ (and tissue) donation and retrieval; national transplant recipient waiting lists; organ (and tissue) allocation; organ (and tissue) transportation including international exchanges; authorisation of organ transplant teams or institutions; the traceability of organs and tissues and monitoring of outcomes of transplantation and donations from living donors. Other NTS competencies may include research into transplantation and responsibility for identifying and reporting to the relevant authorities any breaches of the national transplantation law;

iv. implement the above recommendations taking into account the appendix to this recommendation.

Transplantation is a complex process requiring a large number of functions to be managed effectively. Ideally, these functions should all be the responsibility of a single national transplant organisation (NTO), particularly with regard to organ transplantation. However, if the national transplantation system (NTS) integrates more than one structure, it is critical to ensure that the functions performed by each structure are appropriate, and complement those of the other transplant structures. The following allocation of functions is consistent with internationally recognised practice.

1. The essential functions of an NTO (with its advisory committees) are the following:

   – running a central office which is operational 24 hours a day, 7 days a week, with which all donors have to be registered and which manages national or international organ allocation;

   – ensuring that all relevant donor data, including screening results, are collected and communicated to the recipient's transplant team;

   – managing specific national waiting lists for organs, and, if applicable, for tissues, on the basis of agreed and transparent national admission criteria, containing sufficient up-to-date data on the recipient to ensure optimal matching;

   – ensuring that all donated organs are allocated to the most appropriate recipient in compliance with nationally agreed and transparent allocation rules, to ensure as far as possible equal access to transplantation for all patients who could benefit from a transplant;

   – ensuring that arrangements are in place for the safe and rapid transport of organs from the donor's hospital to the recipient's hospital;

   – ensuring the maintenance of a transplant database of all donors and recipients, including follow-up data on living donors and recipients, to ensure traceability and to audit the outcome of transplant programmes;

   – taking responsibility for running a transplant quality assurance system consistent with internationally recognised standards;

   – providing accurate information to professionals on organ and tissue donation and the outcomes of transplantation as well as being responsible for professional education about transplantation and raising the awareness of the public about organ and tissue donation and transplantation;

   – ensuring complete transparency of national transplant procedures and processes in order to maintain or improve public and patient trust in the NTS;

   – taking up national/international responsibility for tissue donation and transplantation.

2. The following functions should ideally be the responsibility of the NTO, or its advisory committees; alternatively they could be taken by other bodies in co-operation with the NTO:

   – taking responsibility for the recruitment, training and appointment of donor transplant co-ordinators in all major hospitals likely to provide organ donors;

   – taking responsibility for the co-ordination and management of donors and/or other transplant co-ordinators;

   – conducting a regional/national potential donor audit to assess the total potential donor «pool» and identify reasons for non-donation;

   – managing national organ donor/non-donor registers;

   – reviewing donor screening methods and requirements to ensure compatibility with international standards and adapting them to any specific local requirements, if applicable;

   – determining specific information requirements for organ and tissue donors;



- setting standards for donor management;
- setting standards for organ retrieval procedures, in particular multi-organ retrieval operations, in order to maximise organ quality and preservation;
- organising and co-ordinating organ donation and retrieval procedures;
- setting standards for organ and tissue packaging, labelling and transportation;
- organising the transport of organs and tissues from the donor's hospital to the recipient's hospital or tissue bank;
- setting criteria for the admission of patients to national organ or tissue-specific waiting lists;
- reviewing and analysing national transplant waiting lists, that is, waiting times according to demography, geography, etc., as a basis for recommending changes to allocations rules in order to ensure optimum allocation of organs;
- managing and analysing transplant data through the donation process, including an analysis of allocation, to ensure that the rules are properly applied and to prevent organ trafficking;
- taking responsibility for offering organs to other NTOs if a compatible recipient is not available;
- maintaining registers of all donors, including living donors, and all transplant recipients and/or designing and operating an integrated national transplant information system;
- in cases where a disease is transmitted to a recipient, identifying all other recipients of organs or tissues from that same donor, and/or allowing the retrieval and disposal of any unused organs or tissues;
- offering advice on the types of transplant that should be paid for by national health systems and any that may be allowed in the private sector;
- accrediting transplant teams and/or institutions allowed to perform organ and tissue transplants;
- inspecting and accrediting tissue banks in line with international standards, such as the standards set by the Council of Europe Guide to safety and quality assurance in organs, tissues and cells and the requirements set by the European Union Directive 2004/23/EC on setting standards for quality and safety for the donation, procurement, testing, processing, preservation, storage and distribution of human tissues and cells;
- managing and overseeing haemopoietic progenitor cell (HPC) transplants, including the importing of HPC cells;
- collecting data on outcomes and follow-up from transplant teams and units;
- auditing transplant procedures and outcomes to allow constant improvements in the safety and quality of organ transplantation;
- submitting outcome data to international transplant registers;
- organising and managing public relations and communication strategies on national transplantation issues;
- identifying patients registered on more than one national waiting list, and exposing possible cases of organ trafficking;
- setting standards for the screening and preparation of potential living donors;
- authorising living donor transplants, if foreseen by the NTS.

3. In view of a potential conflict of interest, the following function should not be the responsibility of the NTO but of a separate body, not related to a transplant organisation:
   - setting the criteria to determine death either according to brain and brain stem failure or after cardiorespiratory failure to allow heartbeating and non-heartbeating organ donation, if foreseen by national law.
4. Member states wishing to collaborate within the framework of a supranational organisation should consider that the NTO should remain responsible for deciding onthe functions to be allocated to an international body.

RECOMMENDATION REC(2006)16 OF THE COMMITTEE OF MINISTERS TO MEMBER STATES ON QUALITY IMPROVEMENT PROGRAMMES FOR ORGAN DONATION

(Adopted by the Committee of Ministers on 8 november 2006 at the 979th meeting of the Ministers' Deputies)

The Committee of Ministers, under the terms of Article 15.*b* of the Statute of the Council of Europe,

Considering that the aim of the Council of Europe is to achieve greater unity between its members and that this aim may be pursued in particular by the adoption of common rules in the public health field;

Taking into account Resolution (78) 29 on harmonisation of legislations of member states relating to removal, grafting and transplantation of human substances, the final text of the 3rd Conference of European Health Ministers (Paris, 16 and 17 november 1987), Articles 19 and 20 of the Convention of Human Rights and Biomedicine (ETS No. 164), and Articles 3 and 4 of the Additional Protocol to the Convention on Human Rights and Biomedicine concerning Transplantation of Organs and Tissues of Human Origin (ETS No. 186);

Considering that:

– organ transplantation is a well-established, life saving, and effective treatment. It may be the only treatment available for some forms of end stage organ failure and is the most clinically effective and cost effective treatment for chronic renal failure;

– member states should provide high quality transplant services for the benefit of their citizens. Considering the organ shortage, all necessary steps should be taken to ensure that all available organs are properly safeguarded and used so as to maximise the benefit of patients;

– the process of organ donation and transplantation is a complex process which involves a long series of stages which should be followed rigorously in order to be effective. Each of these stages should be analysed whenever a problem arises in order to detect weaknesses in the process and take the necessary corrective measures;

– the document «Meeting the organ shortage» approved by the Council of Europe, states the need to develop a protocol to identify potential donors, including the registration of donors, and to clarify the roles and responsibilities of hospital professionals in donor identification,

Recommends that the governments of member states take all necessary measures to ensure that:

i. a quality improvement programme for organ donation is put in place in every hospital where there is a potential for organ donation;

ii. the quality improvement programme is primarily a self-evaluation of the whole process of organ donation, jointly performed by the specialists in intensive care and the transplant co-ordinator of every hospital. Whatever the nature of the programme, it should represent an appropriate mechanism for monitoring the whole process of organ donation in intensive care units;

iii. the hospital programme is harmonised at regional and national level in order to compare adequately the results obtained and to adopt



the most appropriate measures to improve organ donation;

iv. external audits performed by experts from other hospitals, regions or countries are performed regularly after the implementation of the self evaluation programme, in order to further improve the process and provide greater transparency;

v. the objectives of these programmes include:

- definition of the theoretical capacity of organ procurement, depending on the characteristics of the hospital;
- detection of obstacles to the process of organ donation and procurement and analysis of the causes of potential donor losses, as a tool to identify areas for improvement;
- a description of factors with regard to hospitals which can influence the donation and transplantation process;

vi. a systematic review of all medical records of patients who have died in intensive care units (ICU) and possibly in other similar units is performed on a regular basis in order to analyse any undetected potential donor and establish means for improvement;

vii. in every hospital, region and country the following data must be periodically monitored:

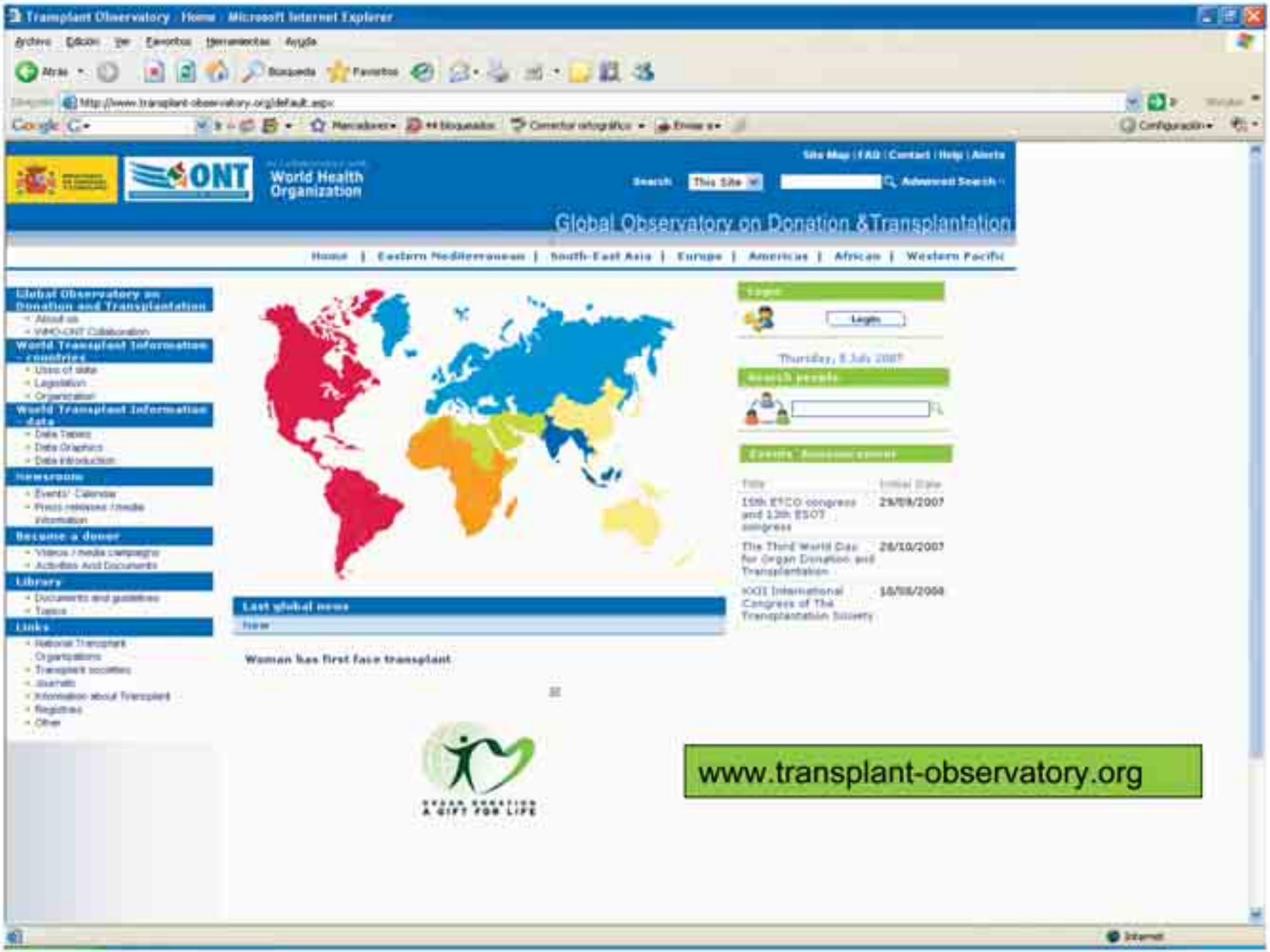
General data:

- number of available hospital beds;
- number of available ICU beds;
- number of neurosurgery procedures;
- number of patients admitted to the ICU and emergency rooms;

Specific data:

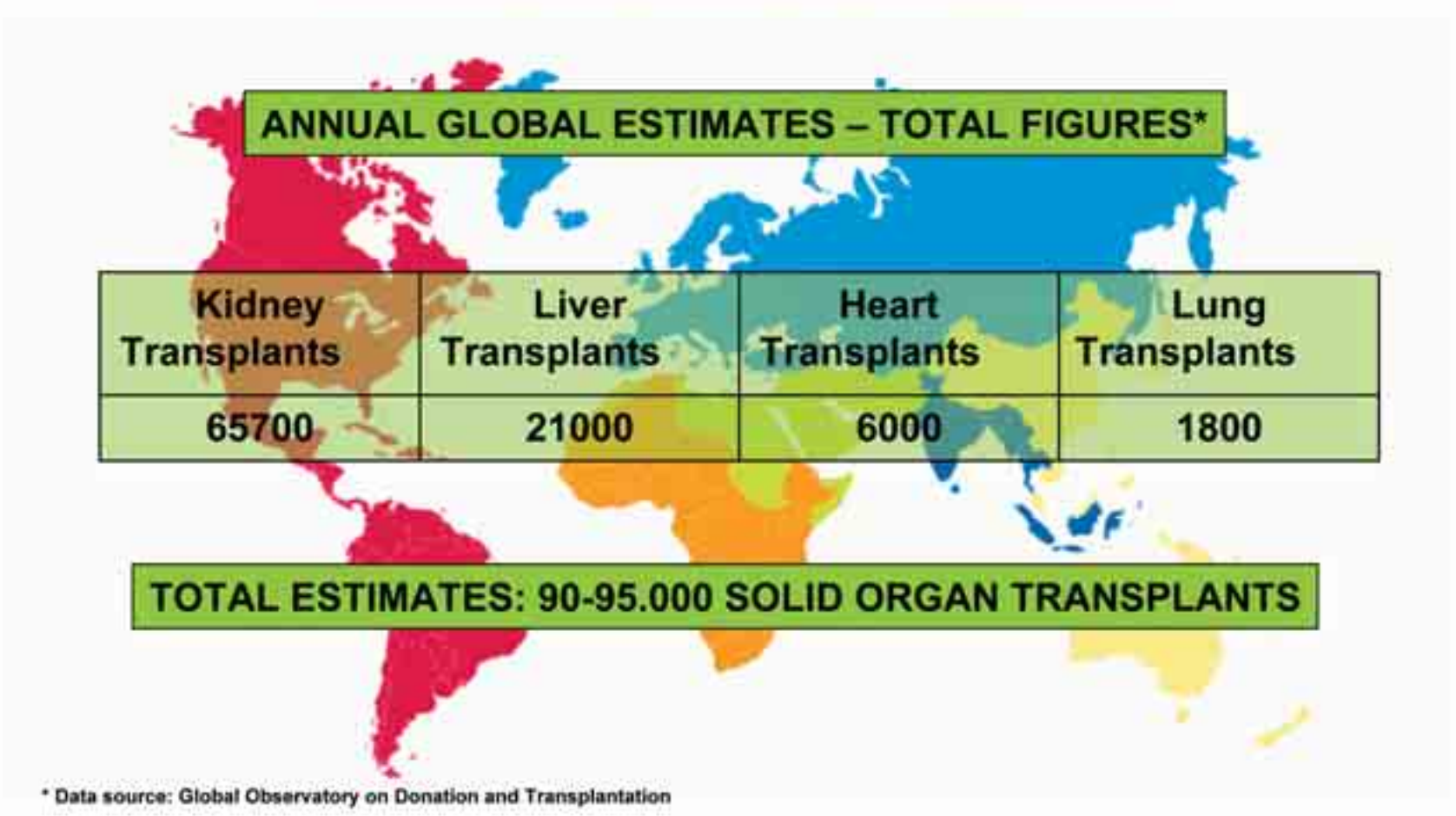
- hospital deaths;
- brain deaths;
- number of potential organ donors;
- number of organ donors;

viii. appropriate standards must be defined in every country according to the characteristics of the hospital and the health system in order to compare the results with those of other regions or countries, so as to better define the areas for improvement.


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WORLD TRANSPLANT REGISTRY



ANNUAL GLOBAL ESTIMATES – TOTAL FIGURES*

Kidney Transplants	Liver Transplants	Heart Transplants	Lung Transplants
65700	21000	6000	1800

TOTAL ESTIMATES: 90-95.000 SOLID ORGAN TRANSPLANTS

* Data source: Global Observatory on Donation and Transplantation

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Third World Day for Organ Donation and Transplantation

Kuwait - 28 October 2007

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A GIFT FOR LIFE