

NEWSLETTER

SEPTEMBER 2009

TRANSPLANT



Vol. 14. Nº 1

INTERNATIONAL FIGURES ON DONATION AND TRANSPLANTATION - 2008



2009



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 (2008)

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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)



NEWSLETTER TRANSPLANT 2009

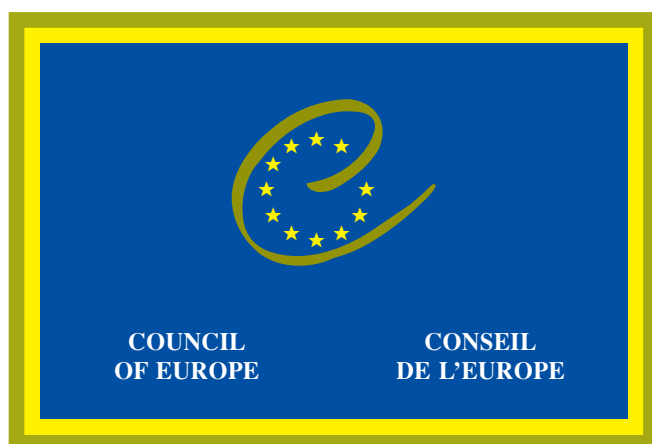
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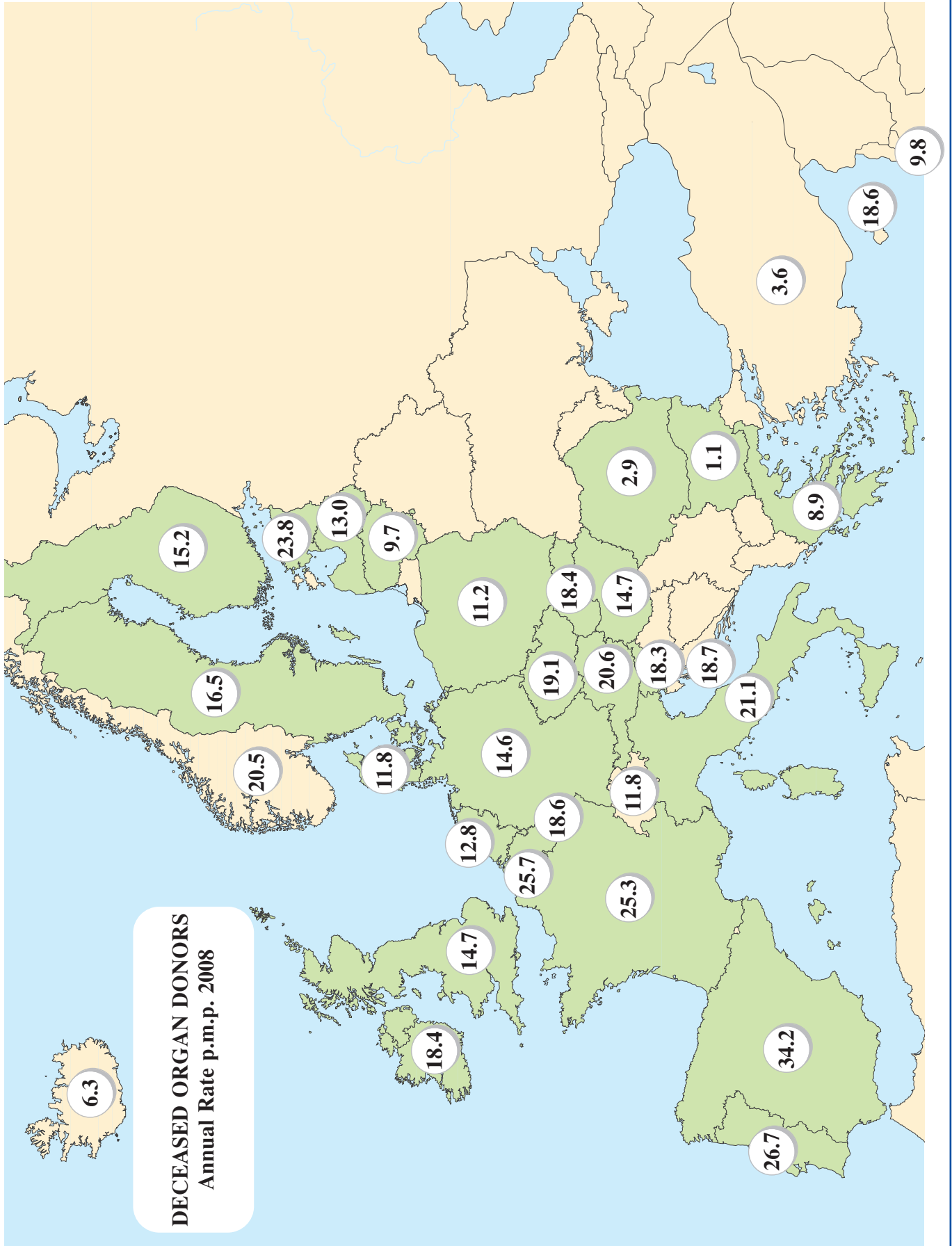


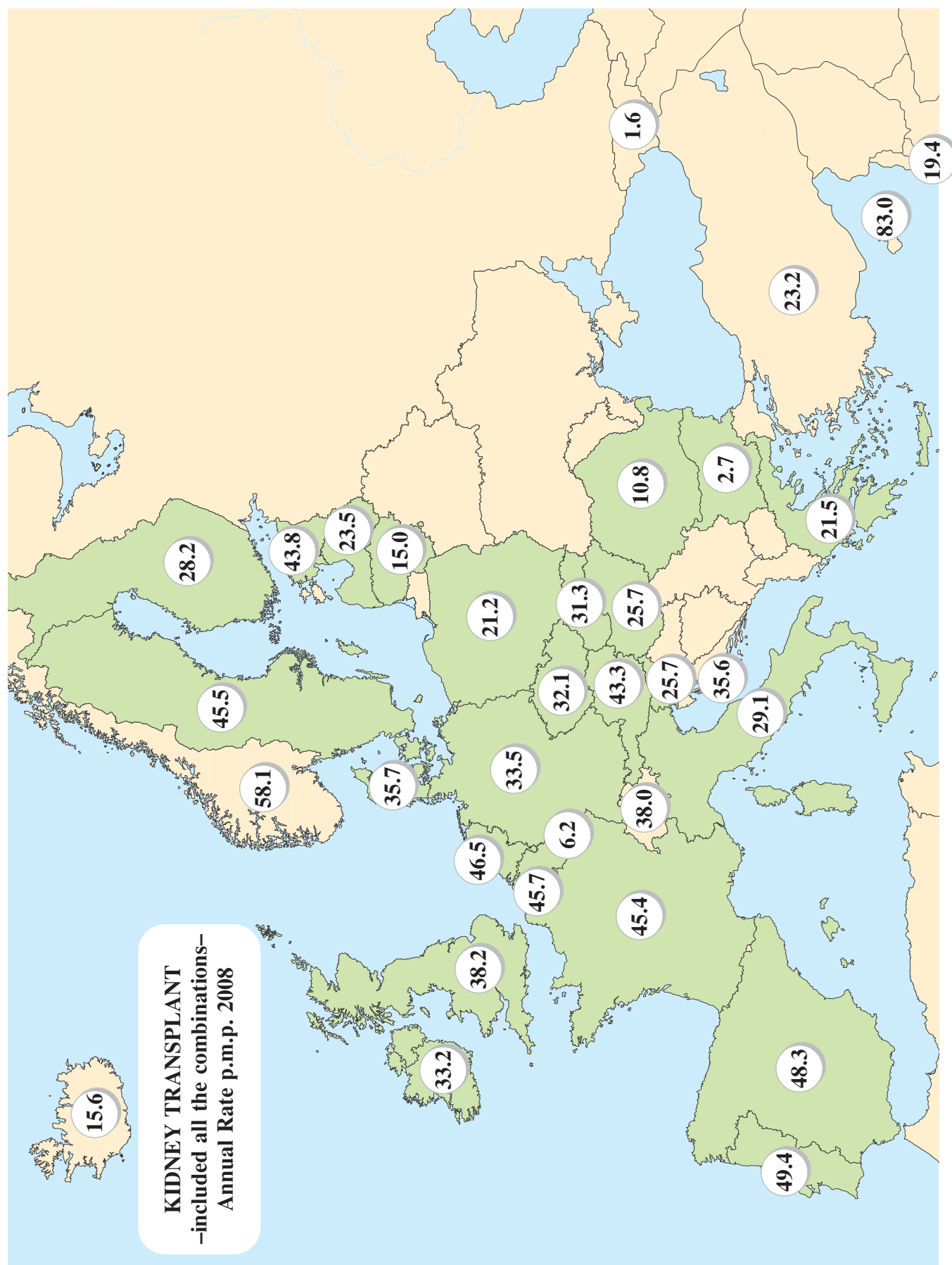
**COUNCIL
OF EUROPE**

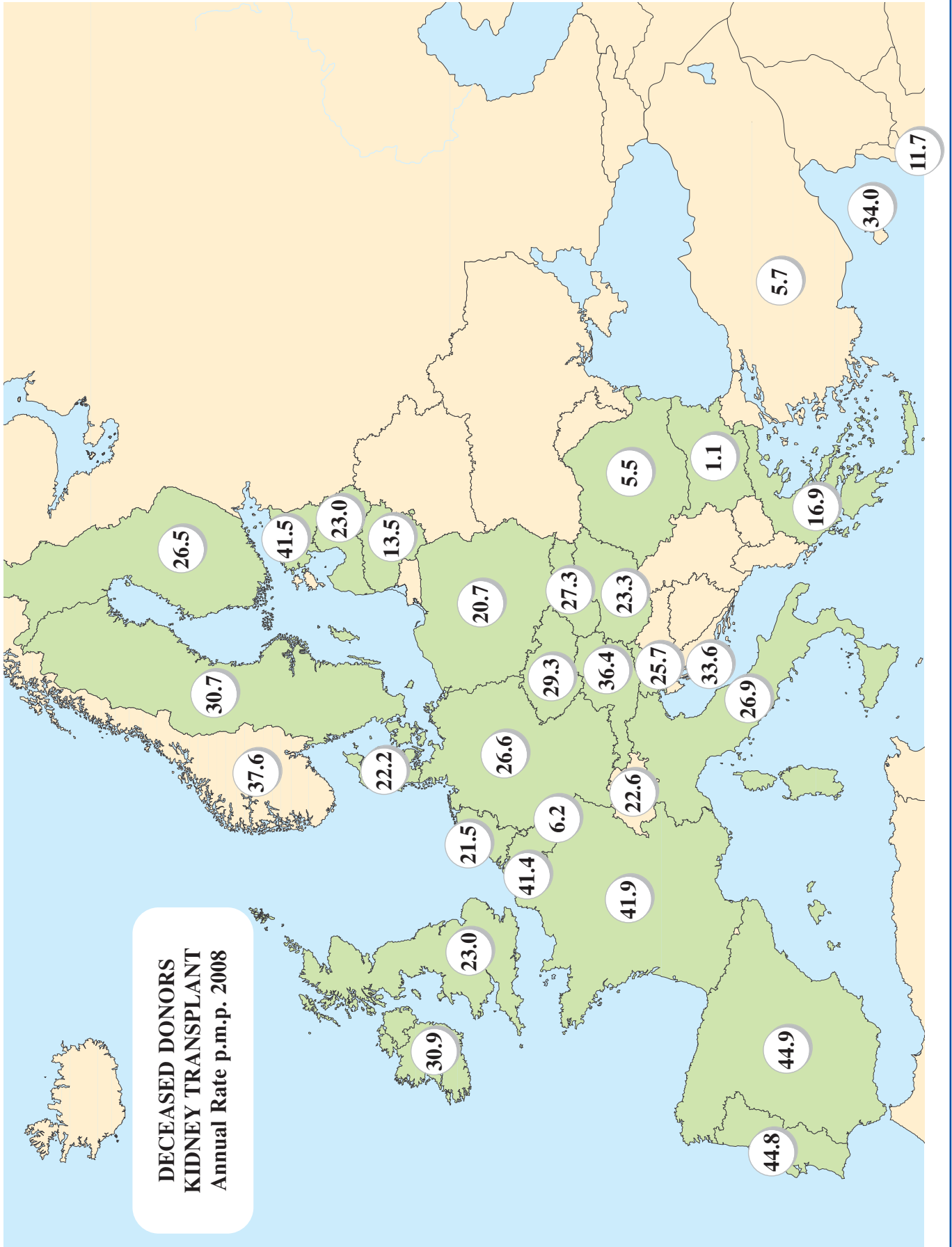
**CONSEIL
DE L'EUROPE**

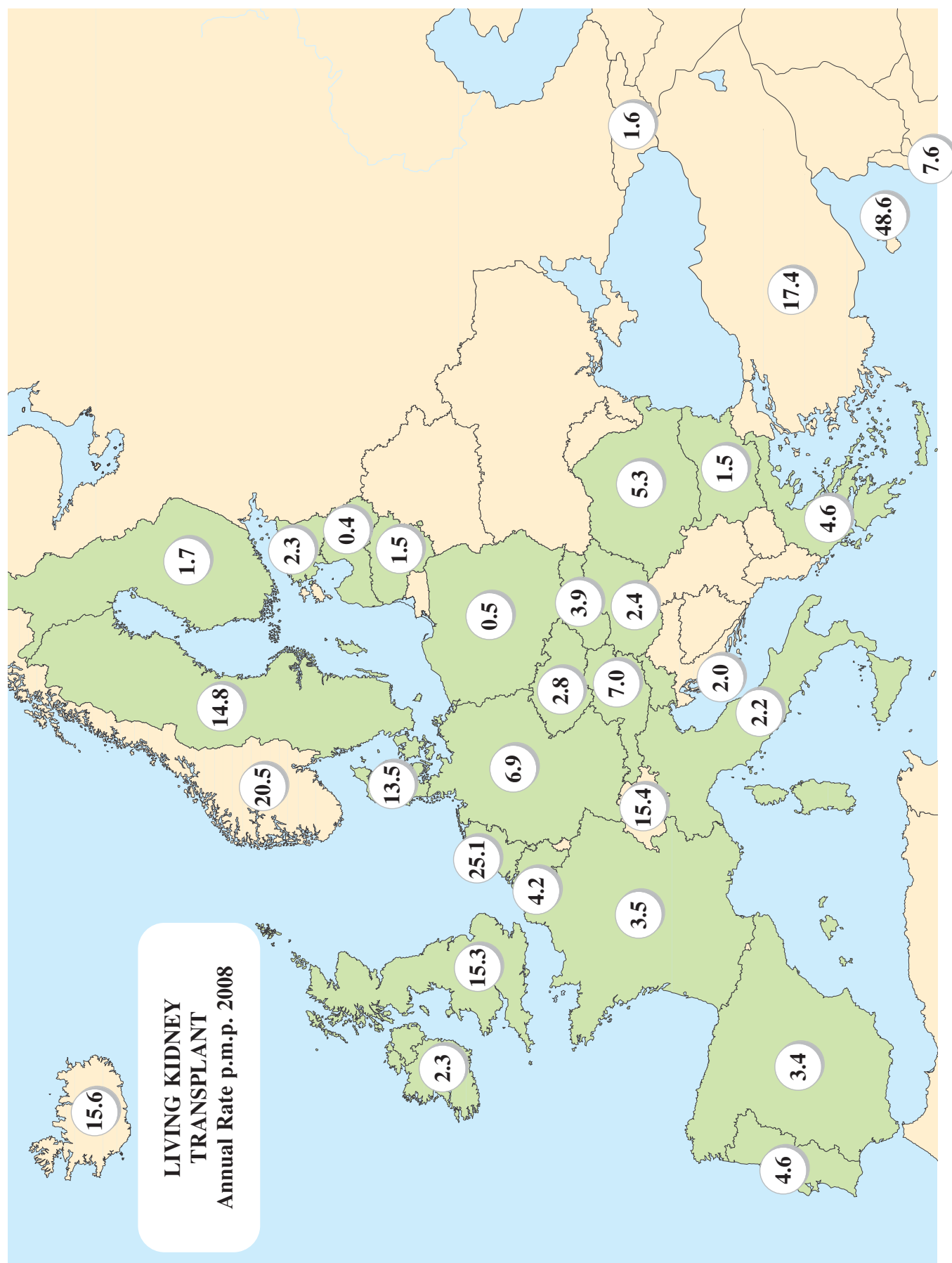


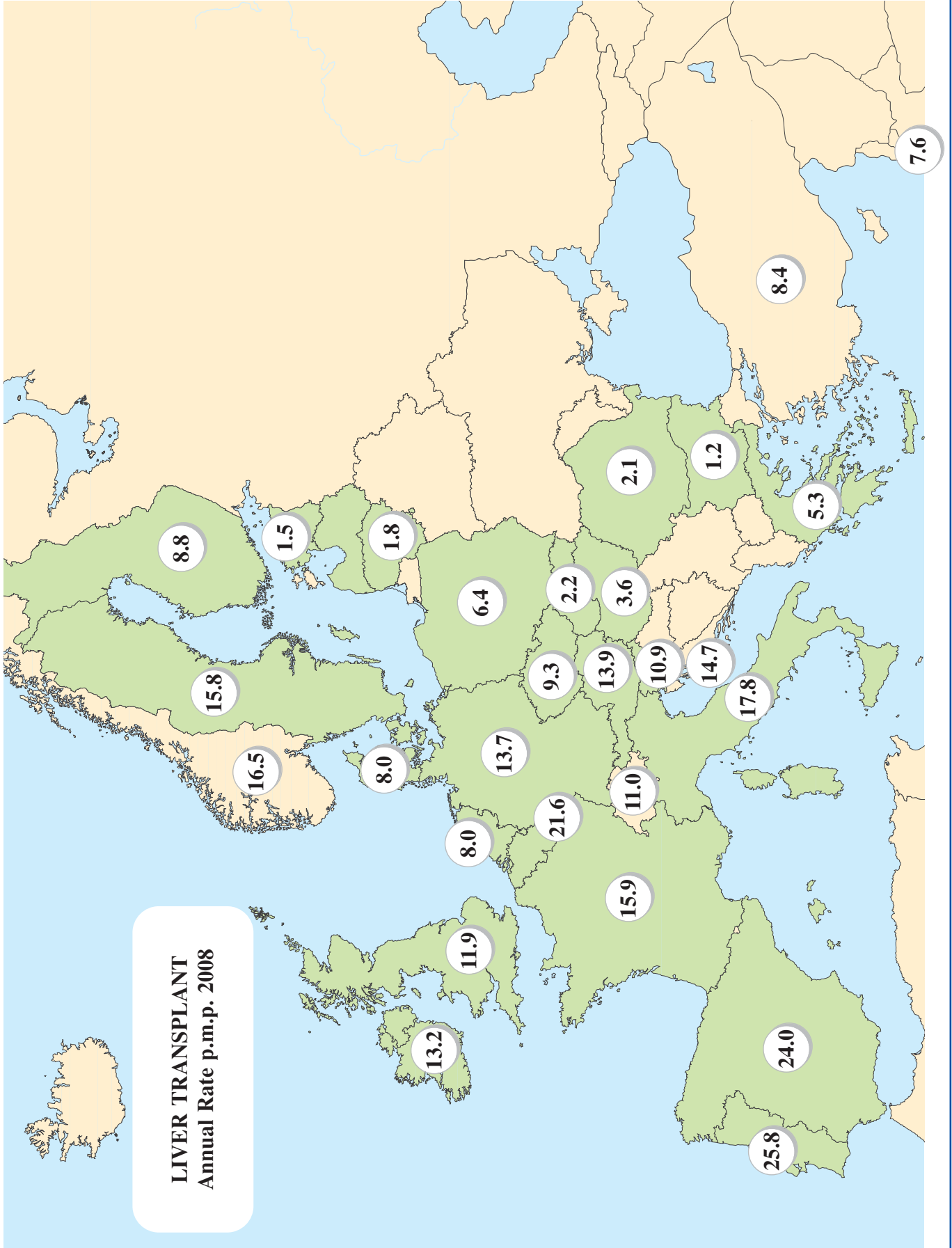
International Figures on Donation and Transplantation Activity. Year 2008

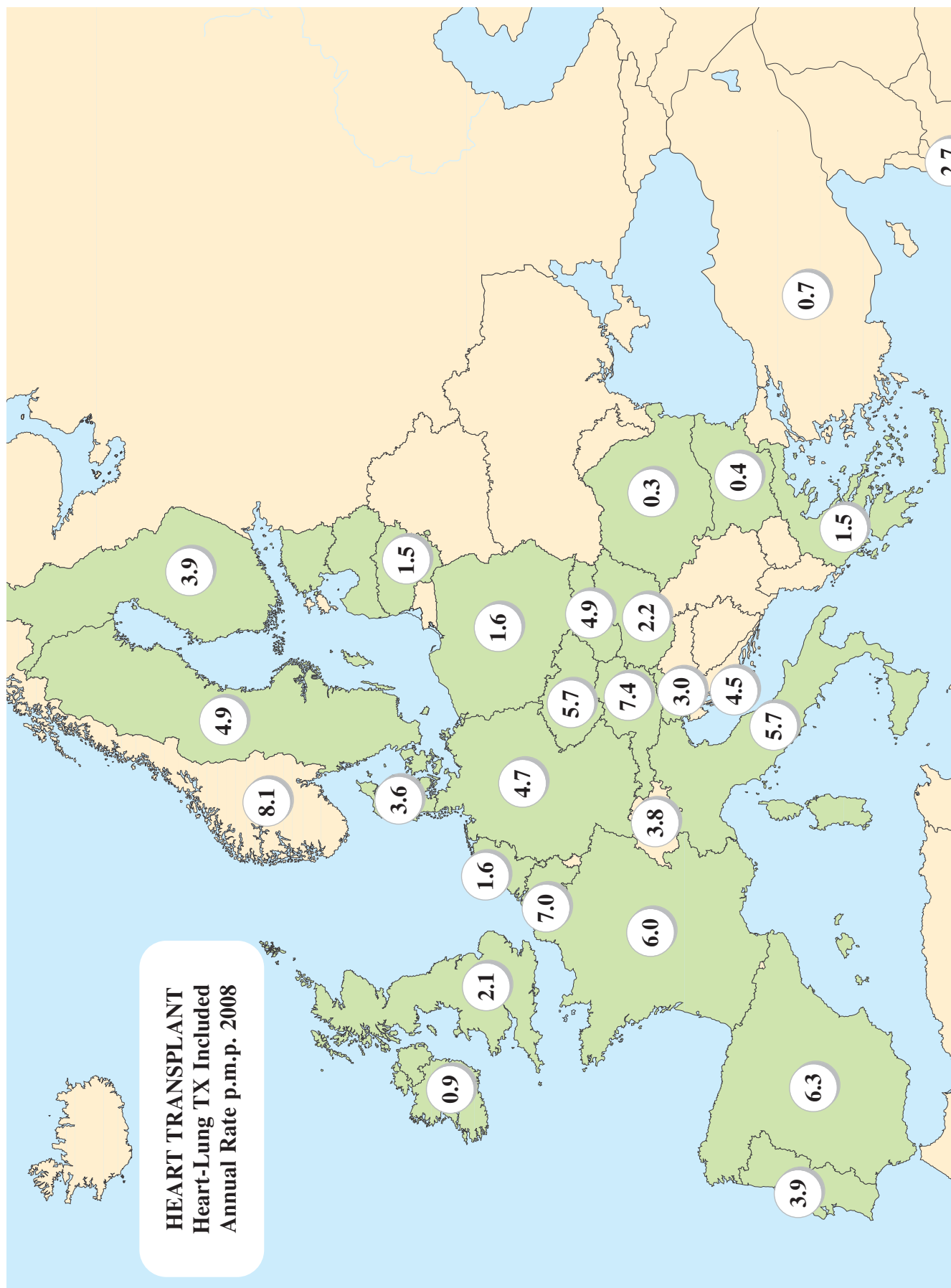


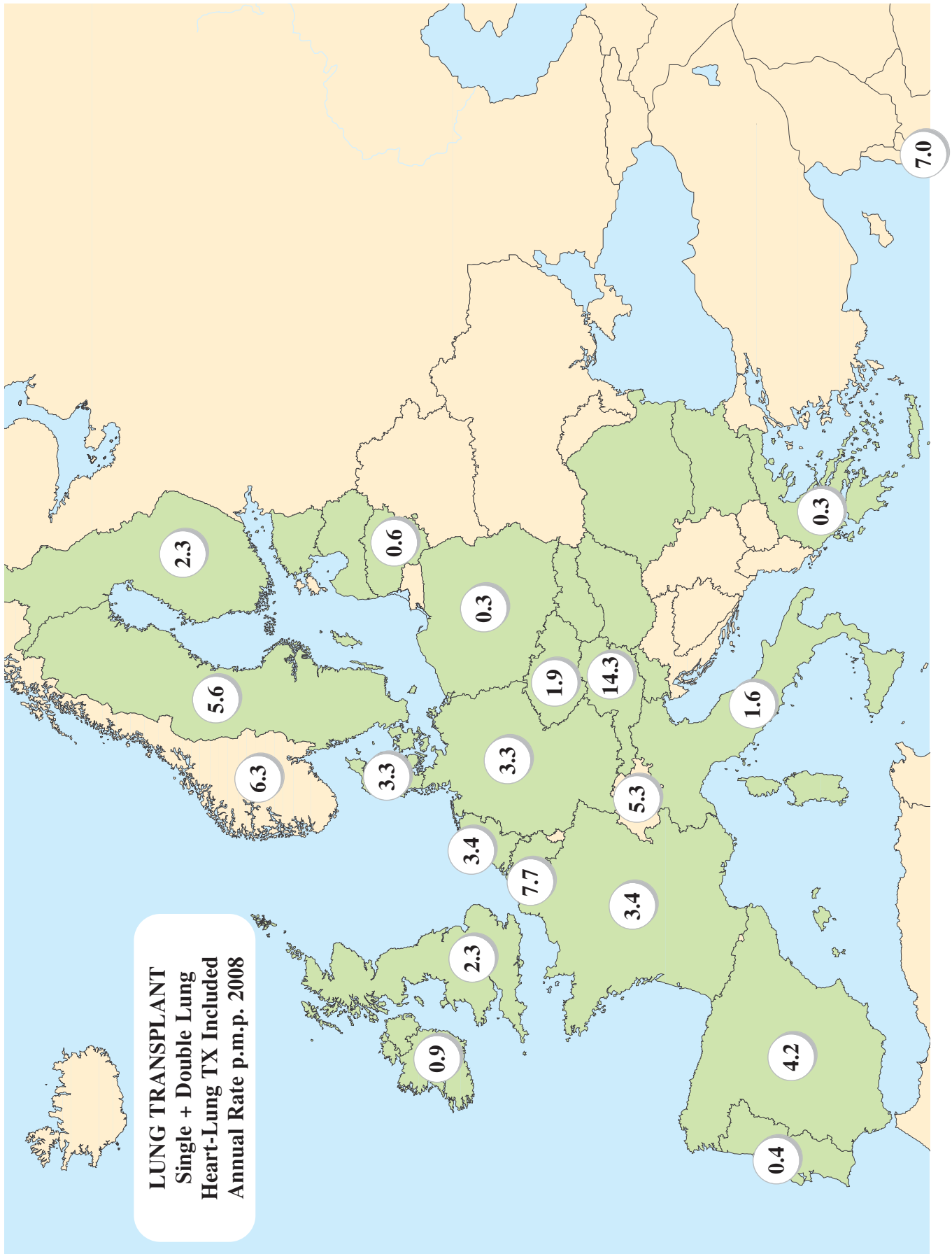


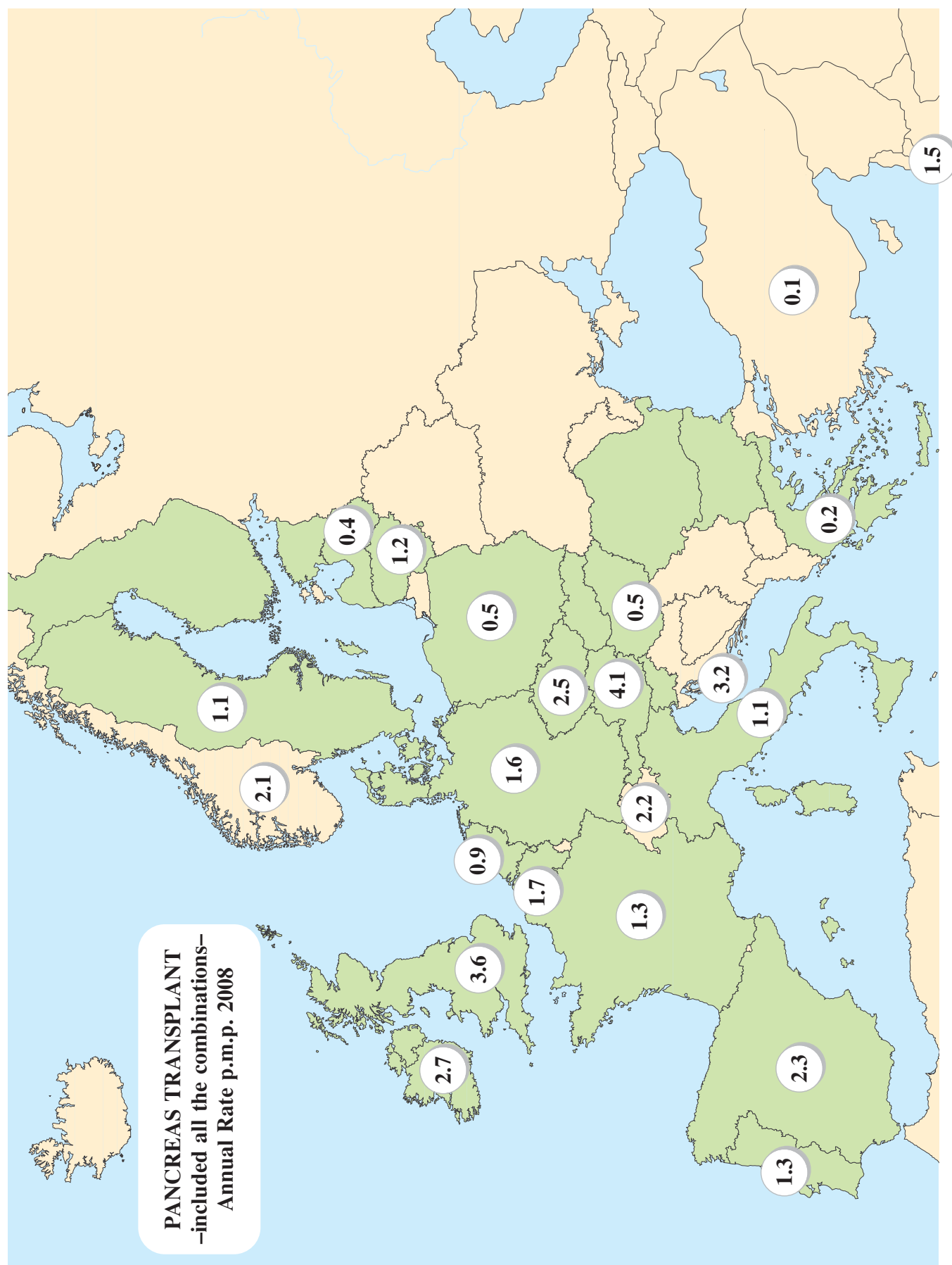


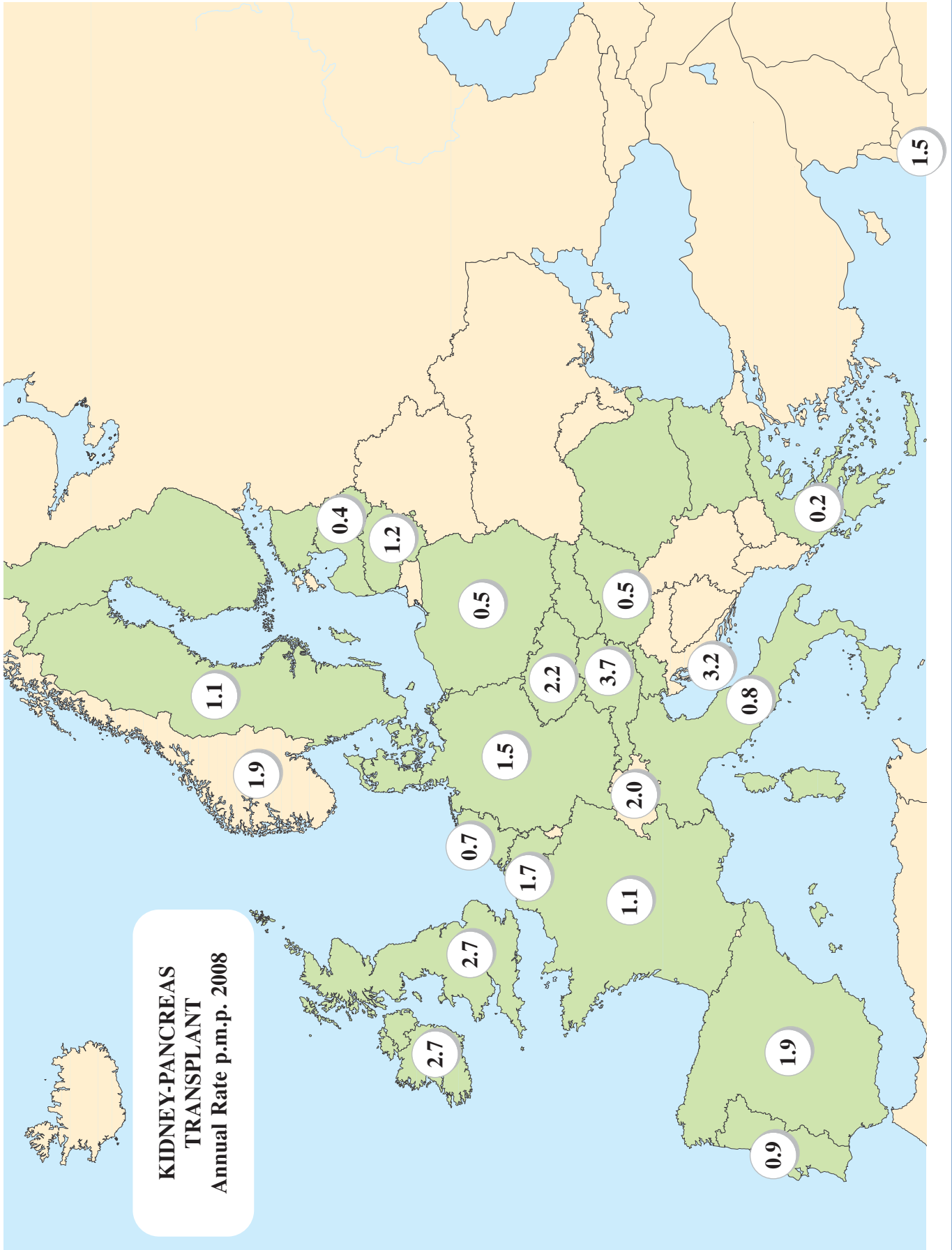




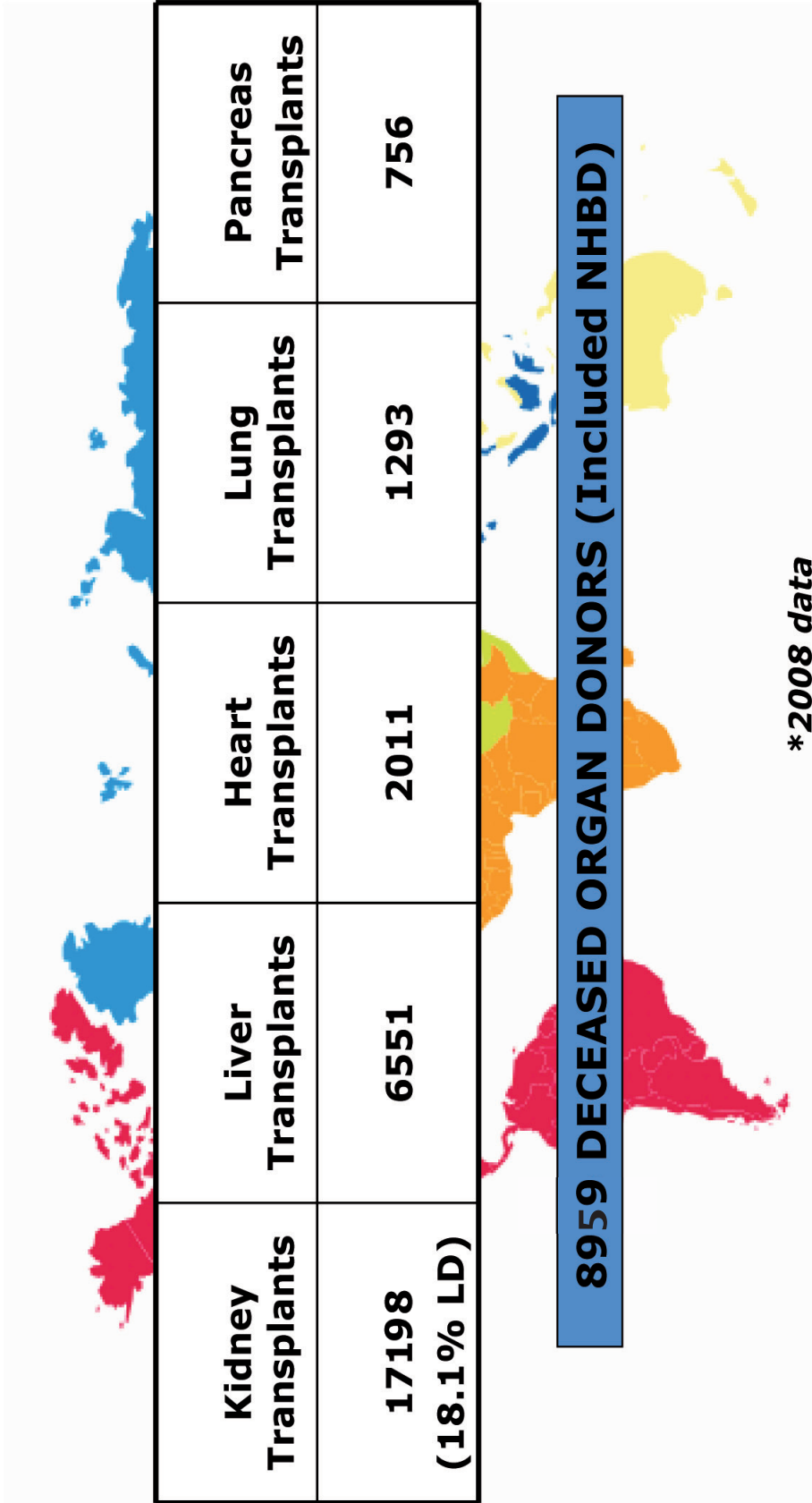


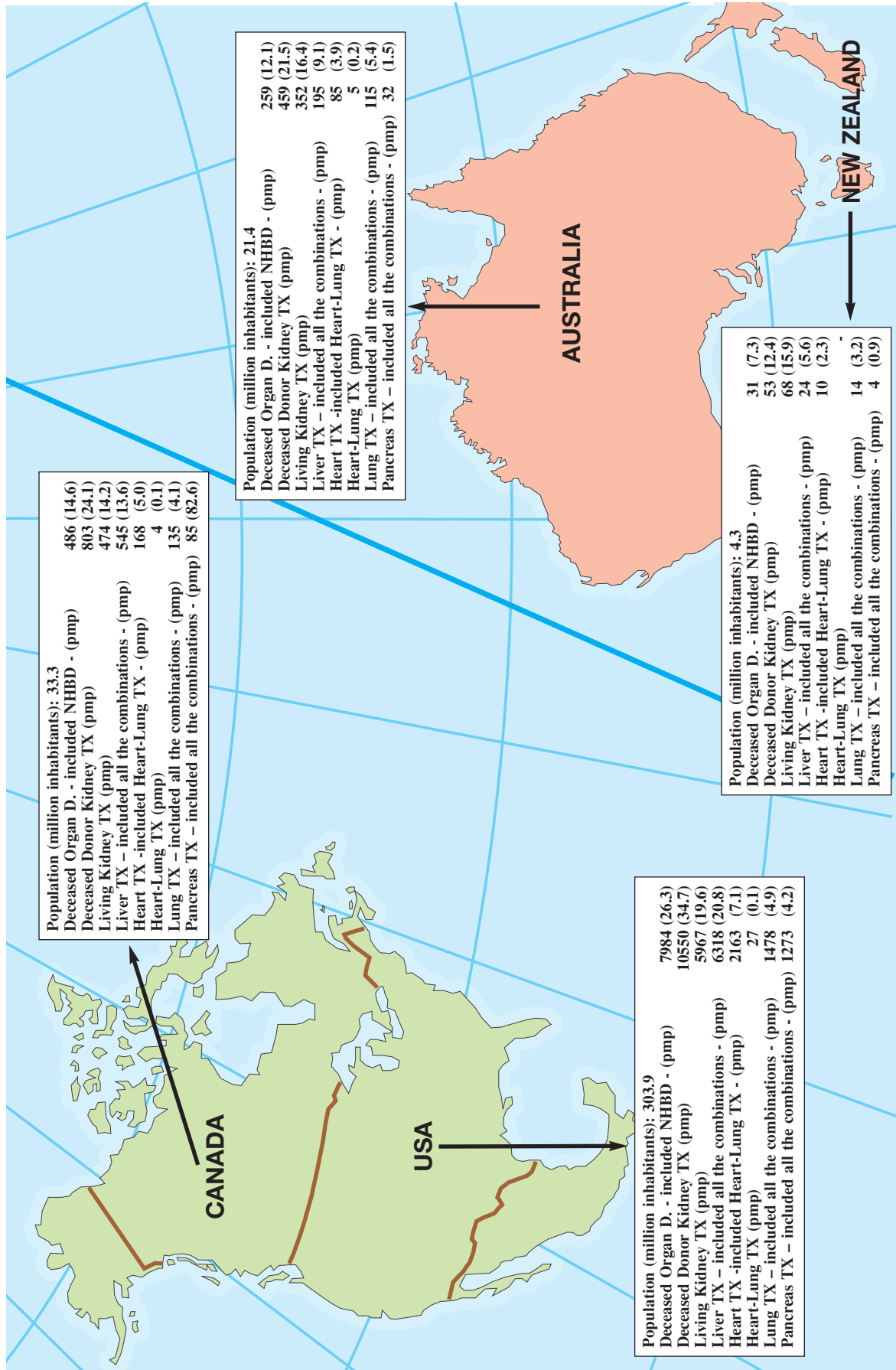






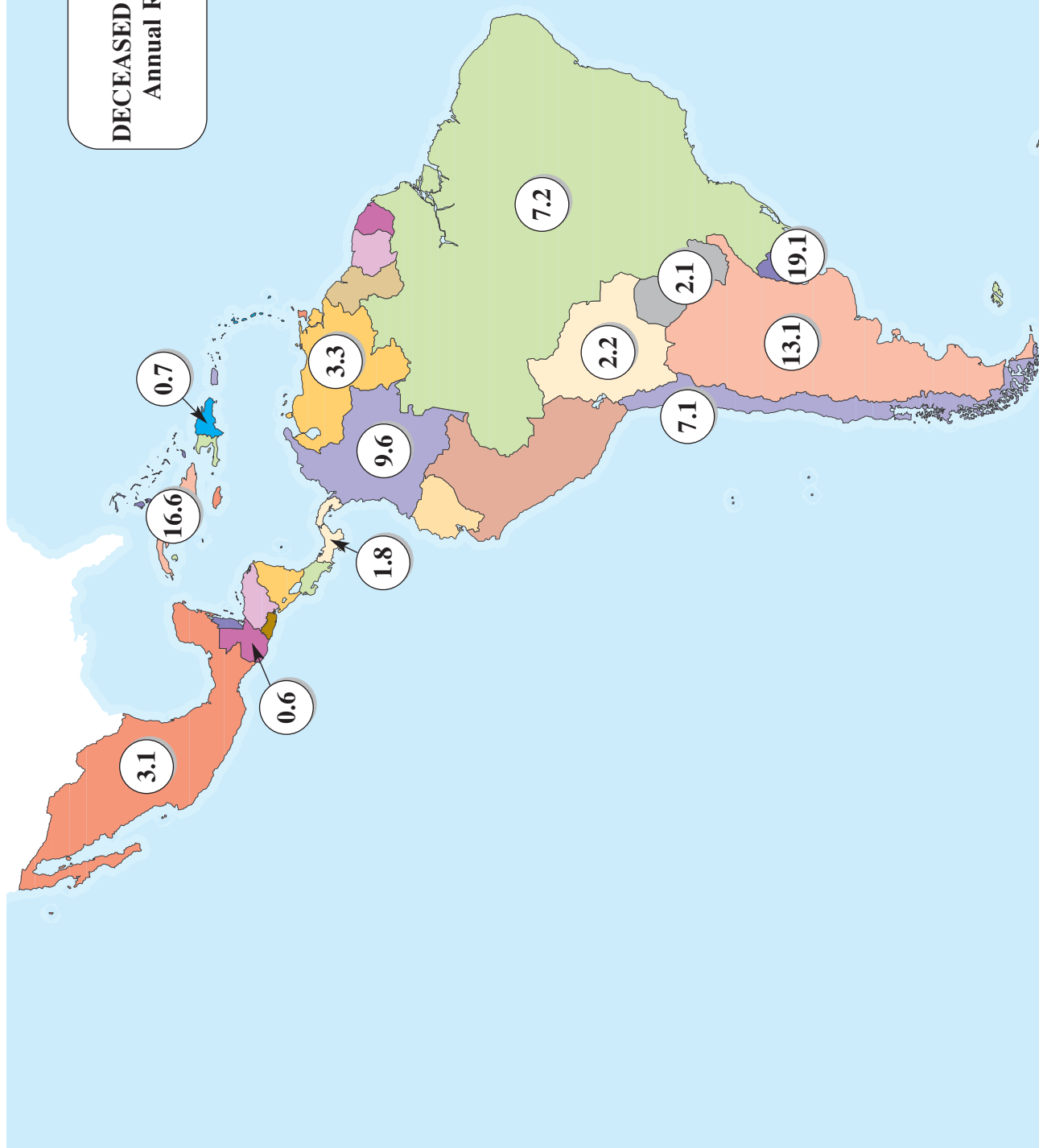
EUROPEAN UNION DATA





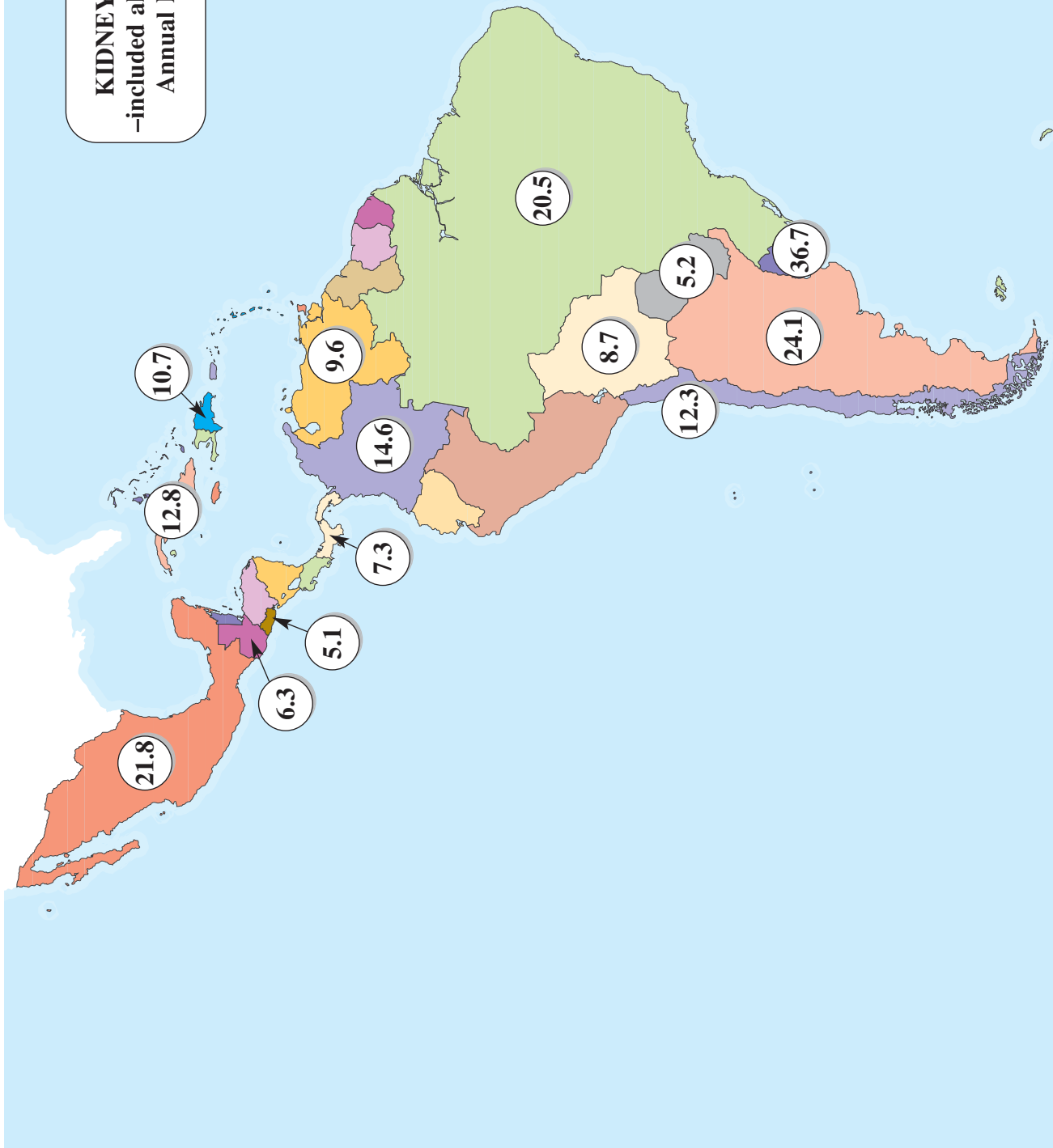


DECEASED ORGAN DONORS
Annual Rate p.m.p. 2008



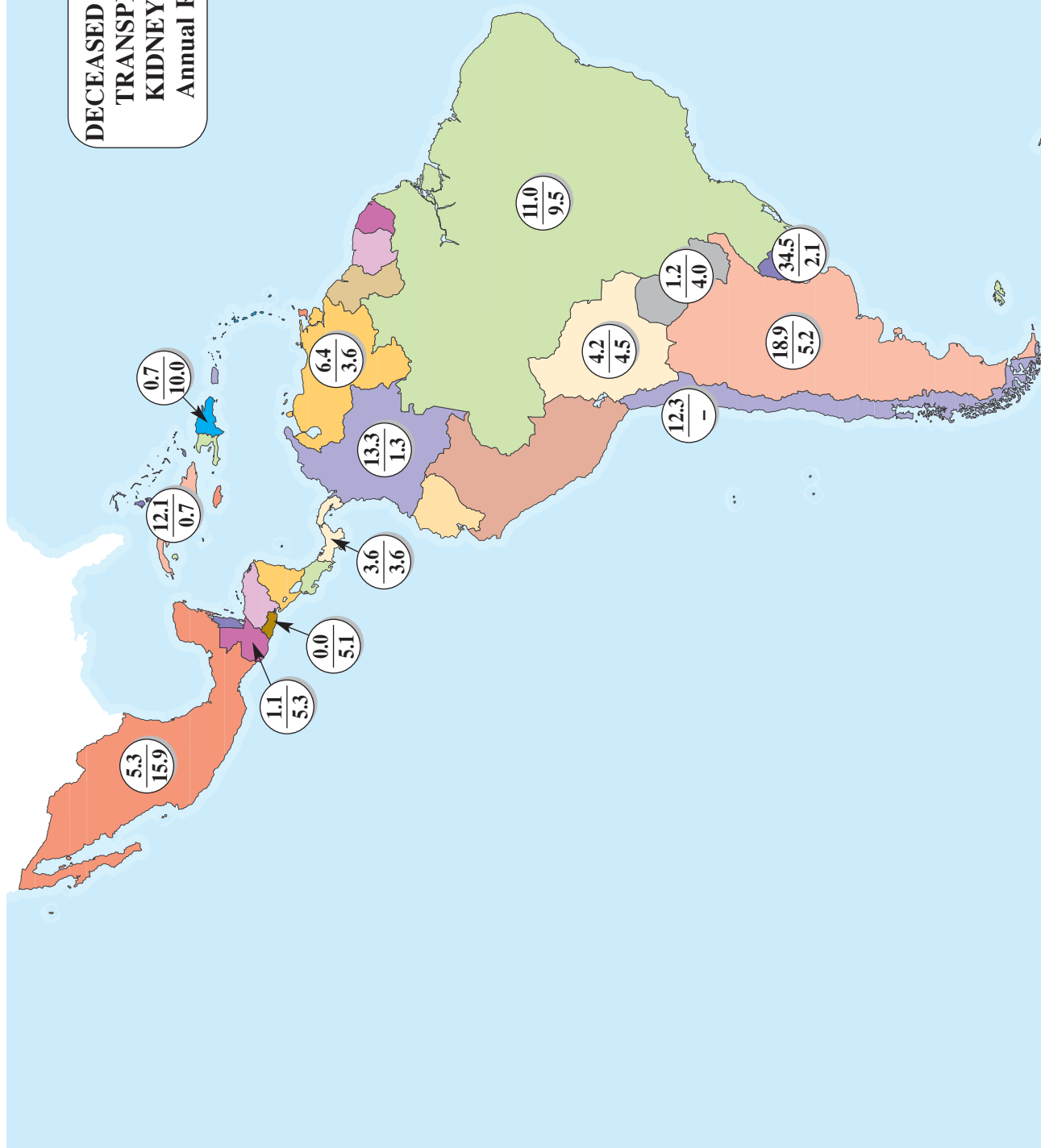


KIDNEY TRANSPLANT
-included all the combinations-
Annual Rate p.m.p. 2008



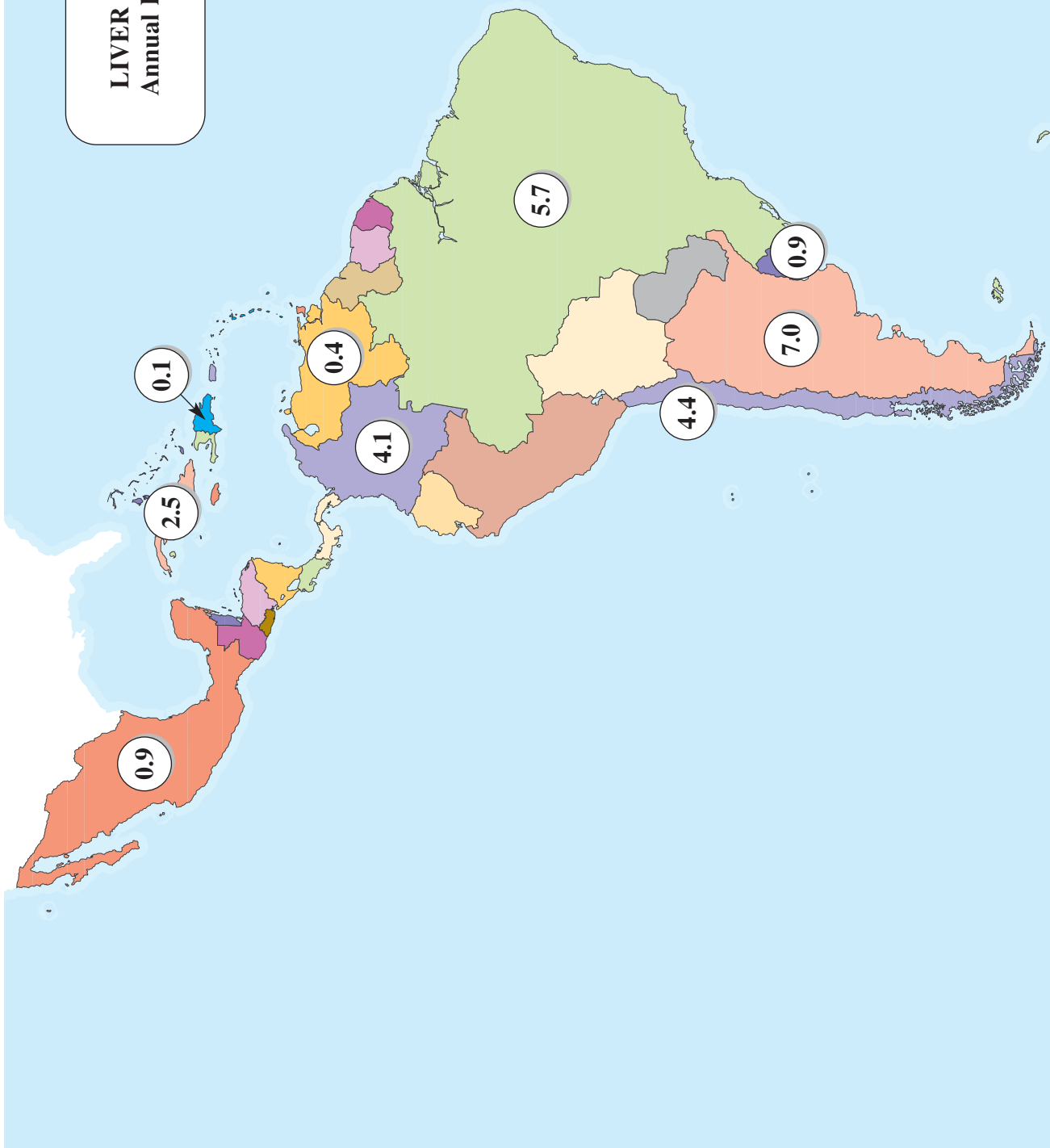


**DECEASED DONORS KIDNEY
TRANSPLANT / LIVING
KIDNEY TRANSPLANT
Annual Rate p.m.p. 2008**



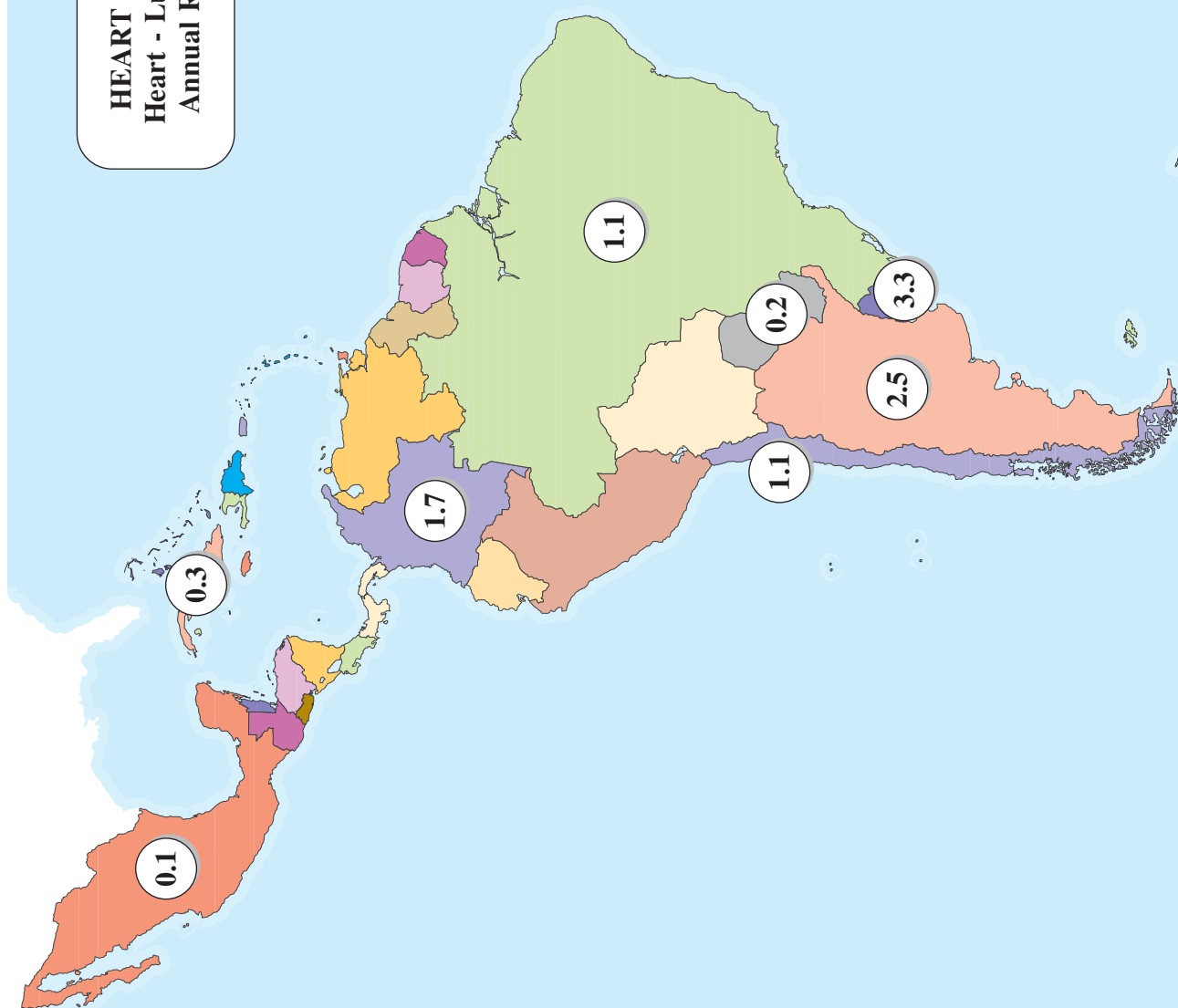


LIVER TRANSPLANT
Annual Rate p.m.p. 2008



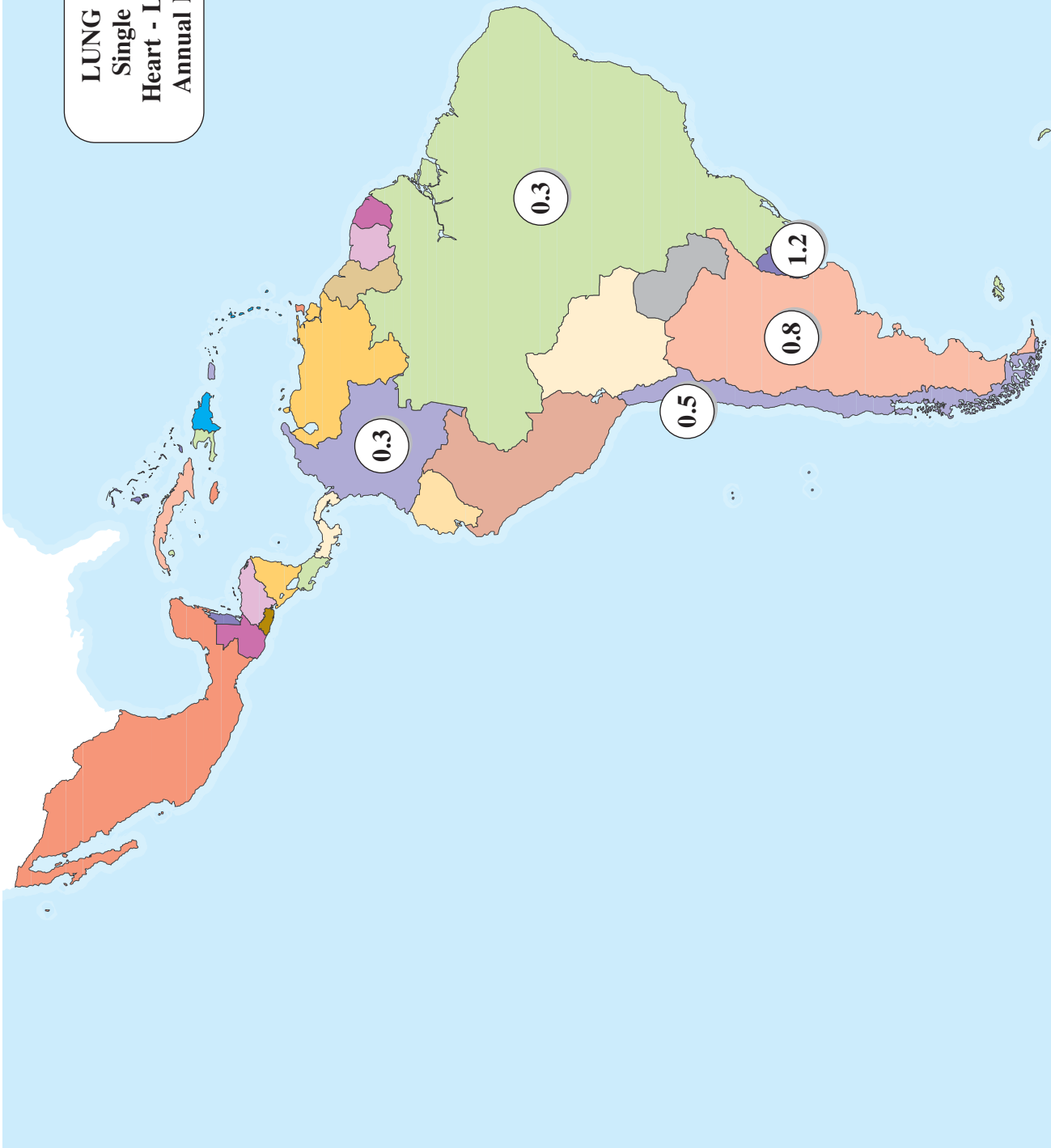


HEART TRANSPLANT
Heart - Lung TX Included
Annual Rate p.m.p. 2008



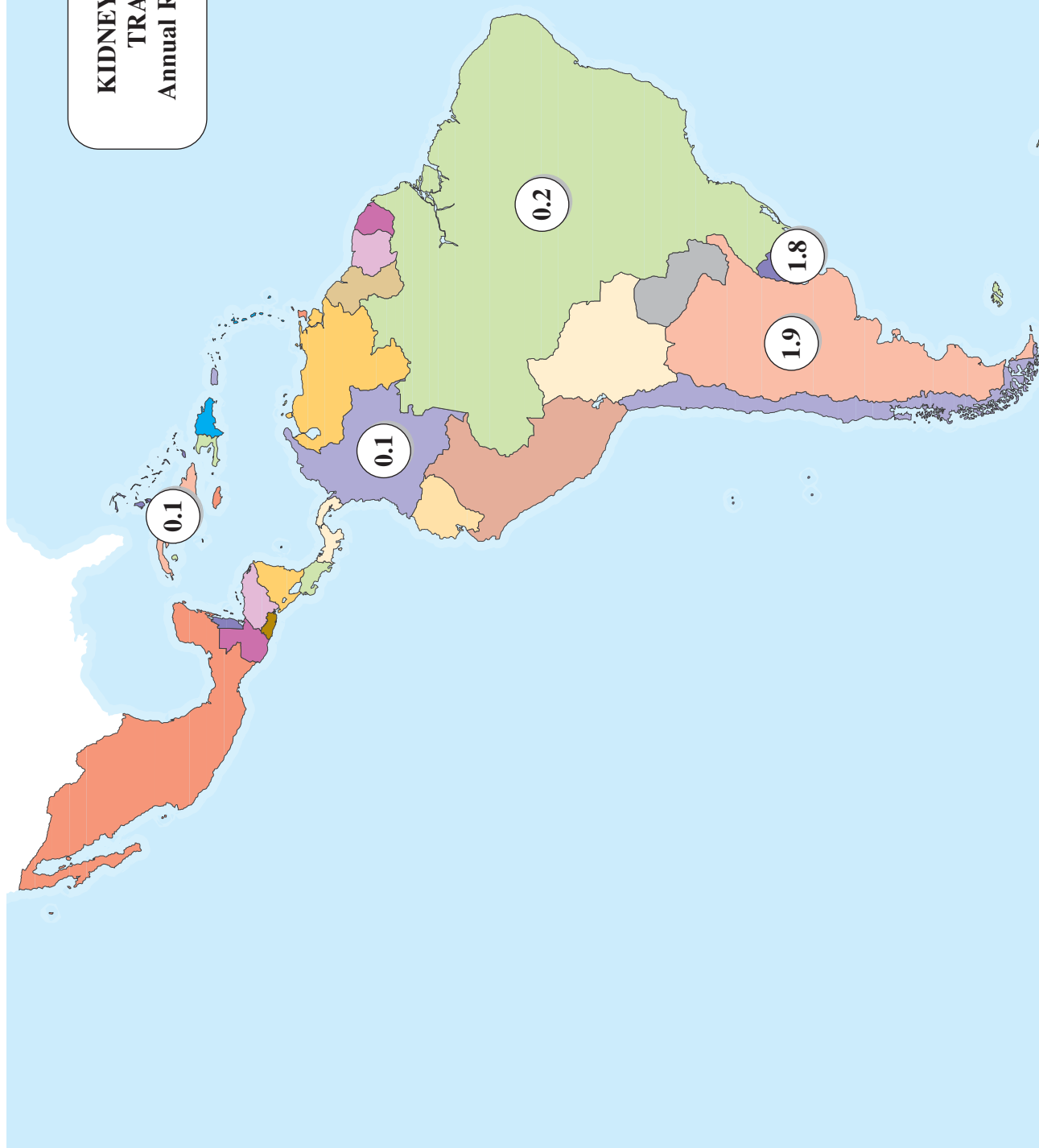


LUNG TRANSPLANT
Single + Double Lung
Heart - Lung TX Included
Annual Rate p.m.p. 2008

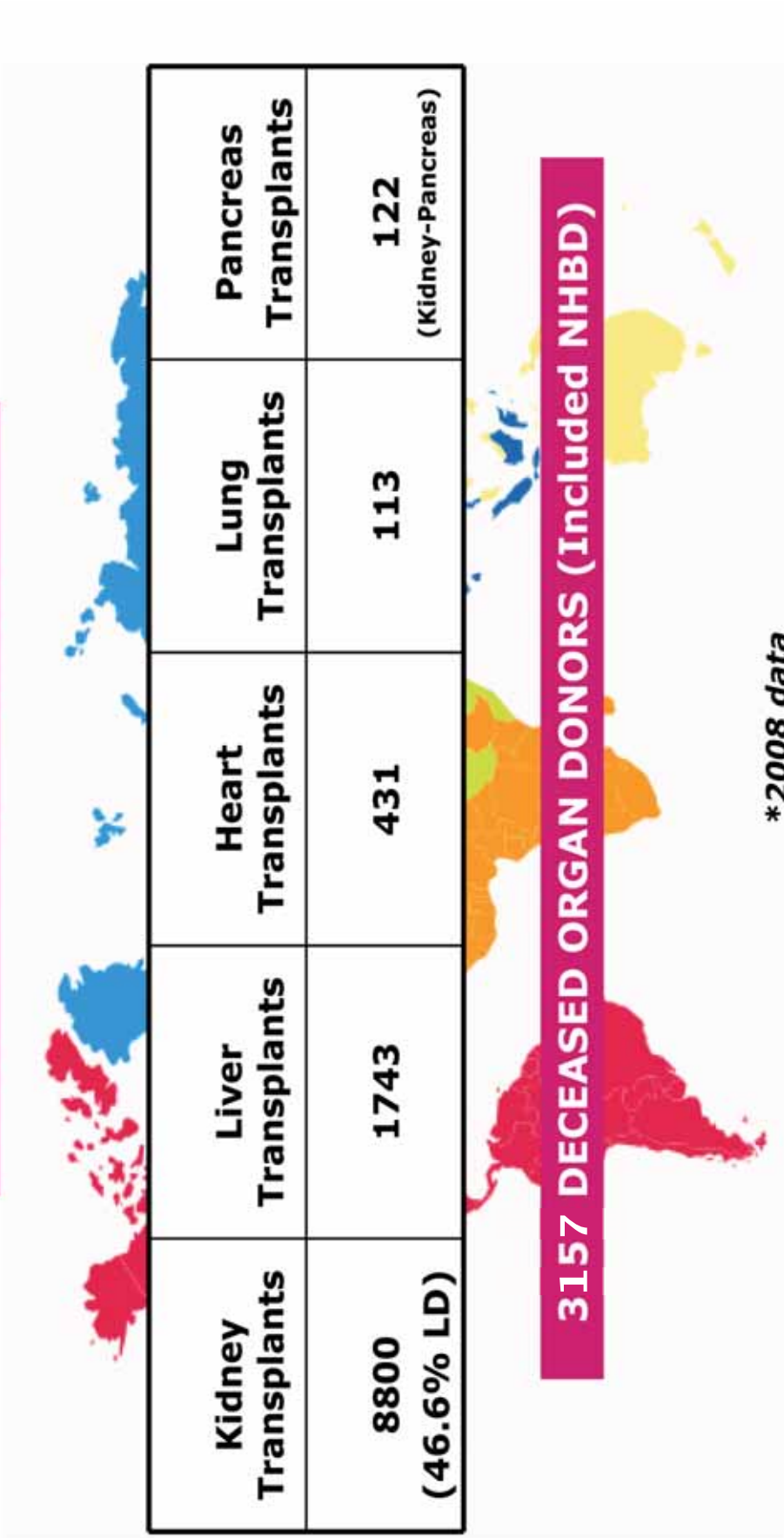




**KIDNEY - PANCREAS
TRANSPLANT
Annual Rate p.m.p. 2008**



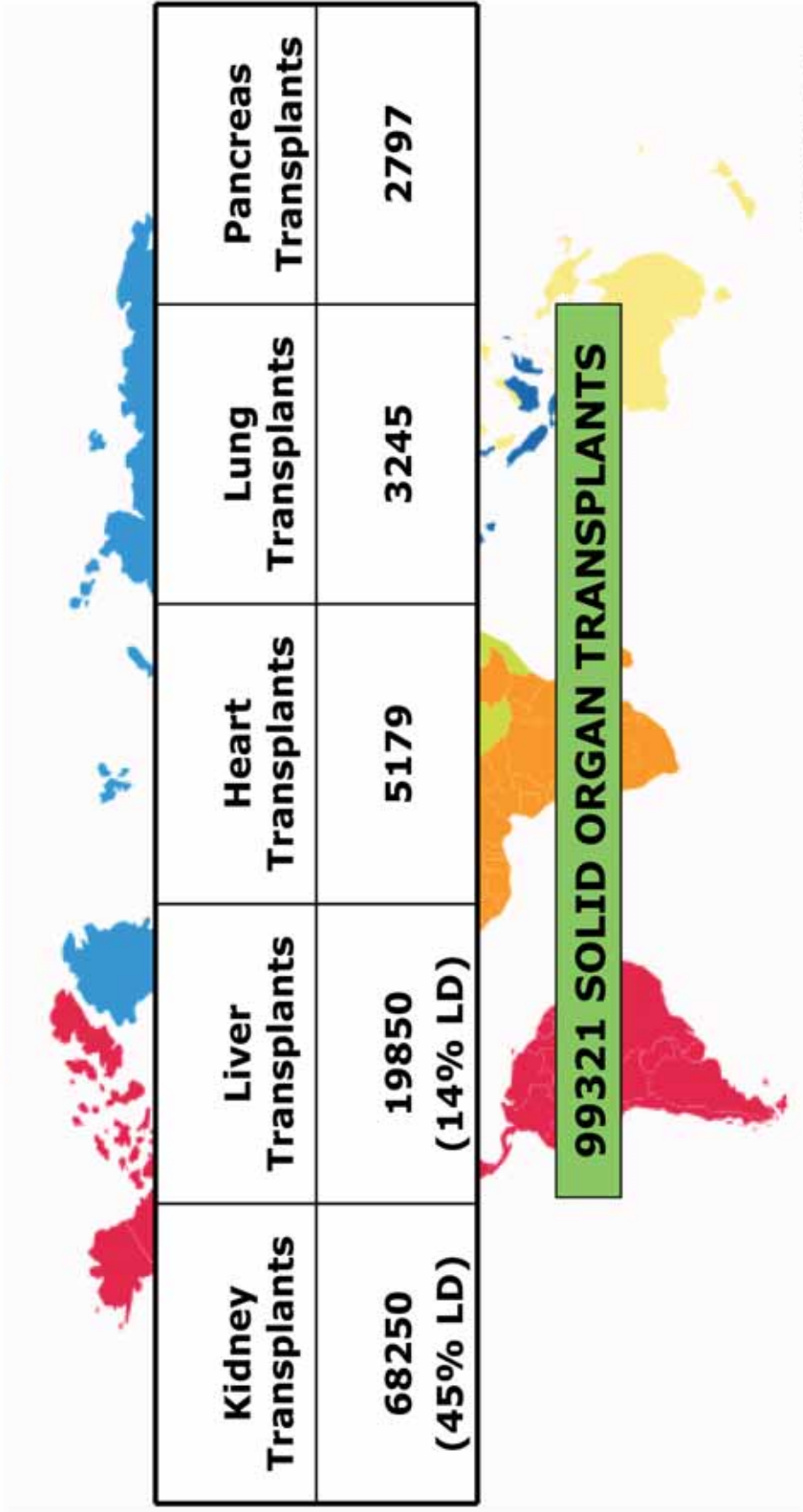
LATINAMERICAN COUNTRIES



* 2008 data

N= 14 COUNTRIES (484.9 million inhabitants)

GLOBAL DATA





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ISHLT 29th Annual Meeting and Scientific Sessions	22/08/2009

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Controversial child organ transplant bill passes Lower House
A controversial bill to enable organ transplants from children under 15 years old passed the House of Representatives. (June, 2009)

Philippines says no to organ trafficking.
MANILA, Philippines—Six years after it enacted the law against human organ trafficking, the Philippines can now enforce it after the Inter-Agency Council Against Trafficking (Iacat) finalized the implementing rules and regulations. (June, 2009)

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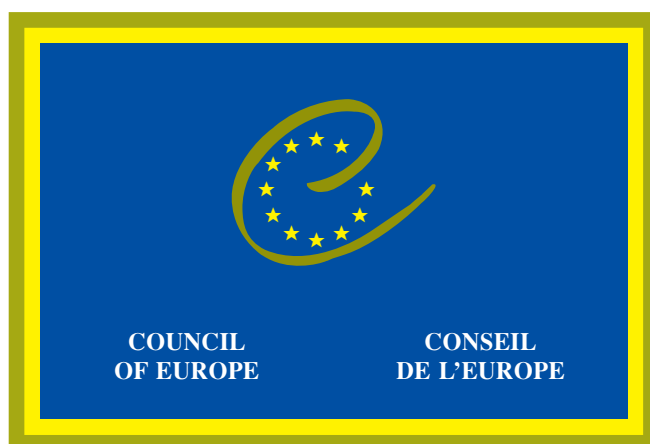
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International Data on Organ Donation and Transplantation Activity, Waiting List and Family Refusals. Year 2008



DONATION AND TRANSPLANTATION ACTIVITY

EUROPEAN UNION COUNTRIES

COUNTRIES Population (million inhabitants)	AUSTRIA 8.3	BELGIUM 10.7	BULGARIA 7.0	CYPRUS 0.7	CZECH. R. 10.4	DENMARK 5.5	ESTONIA 1.3	FINLAND 5.3	FRANCE 63.6	GERMANY 82.2
Deceased Organ D. - included NHBD - (pmp)	172 (20.6)	274 (25.7)	8 (1.1)	13 (18.6)	198 (19.1)	65 (11.8)	31 (23.8)	81 (15.2)	1610 (25.3)	1199 (14.6)
NHB Donors (pmp)	3 (0.4)	42 (3.9)	0	-	1 (0.1)	-	0	-	47 (0.7)	-
% Multiorgan donors	76.7	85	70	100	54.1	65	2	65	93.7	86.7
DONATION										
TRANSPLANTATION										
KIDNEY										
TX - included all the combinations - (pmp)	361 (43.3)	487 (45.7)	19 (2.7)	58 (83.0)	334 (32.1)	196 (35.7)	57 (43.8)	150 (28.2)	2885 (45.4)	2753 (33.5)
% (Living TX/ Total TX)	16.1	9.2	57.9	58.6	8.1	37.8	5.3	6	7.6	20.5
Paediatric <15 years	10	18	1	1	2	10	0	10	61	94
Deceased Donor TX (pmp)	303 (36.4)	442 (41.4)	8 (1.1)	24 (34.0)	305 (29.3)	122 (22.2)	54 (41.5)	141 (26.5)	2663 (41.9)	2188 (26.6)
-Single TX (pmp)	303 (36.4)	436 (40.9)	8 (1.1)	24 (34.0)	297 (28.6)	121 (22.0)	54 (41.5)	141 (26.5)	2617 (41.1)	2169 (26.4)
-Double TX (pmp)	0	6 (0.6)	0	-	8 (0.8)	1 (0.2)	0	0	46 (0.7)	19 (0.2)
Living TX (pmp)	58 (7.0)	45 (4.2)	11 (1.5)	34 (48.6)	29 (2.8)	74 (13.5)	3 (2.3)	9 (1.7)	222 (3.5)	565 (6.9)
NHB kidney TX (pmp)	12 (1.4)	53 (5.0)	0	-	1 (0.1)	-	0	-	52 (0.8)	0
LIVER										
TX - included all the combinations - (pmp)	116 (13.9)	230 (21.6)	9 (1.2)	-	97 (9.3)	44 (8.0)	2 (1.5)	47 (8.8)	1011 (15.9)	1122 (13.7)
Paediatric <15 years	8	32	0	-	4	6	-	5	63	109
-Split Liver TX (pmp)	1 (0.1)	18 (1.7)	0	-	0	0	-	0	95 (1.5)	89 (1.1)
-Domino Liver TX(pmp)	0	0	0	-	0	0	-	0	11 (0.2)	7 (0.1)
Living Liver TX (pmp)	4 (0.5)	13 (1.2)	4 (0.5)	-	0	0	-	0	10 (0.2)	55 (0.7)
NHB Liver TX (pmp)	1 (0.1)	17 (1.6)	0	-	0	-	-	-	0	0
HEART										
TX - included Heart-Lung transplant- (pmp)	62 (7.4)	75 (7.0)	3 (0.4)	-	59 (5.7)	20 (3.6)	-	21 (3.9)	379 (6.0)	382 (4.7)
Paediatric <15 years	2	2	0	-	1	1	-	3	13	17
HEART-LUNG										
Transplants (pmp)	3 (0.4)	1 (0.1)	0	-	0	0	-	0	19 (0.3)	19 (0.2)
Paediatric <15 years	-	-	0	-	0	0	-	0	1	1
LUNG										
TX - included all the combinations - (pmp)	119 (14.3)	82 (7.7)	0	-	20 (1.9)	18 (3.3)	-	12 (2.3)	215 (3.4)	270 (3.3)
Paediatric <15 years	6	2	0	-	0	0	-	0	6	4
-Single (pmp)	13 (1.6)	15 (1.4)	0	-	6 (0.6)	5 (0.9)	-	0	53 (0.8)	40 (0.5)
-Double - included Heart-Lung TX - (pmp)	106 (12.7)	67 (6.3)	0	-	14 (1.3)	13 (2.4)	-	12 (2.3)	162 (2.5)	230 (2.8)
NHB - double + single - Lung TX (pmp)	-	4 (0.4)	0	-	0	-	-	-	0	0
PANCREAS										
TX - included all the combinations - (pmp)	34 (4.1)	18 (1.7)	0	-	26 (2.5)	-	-	-	81 (1.3)	134 (1.6)
Paediatric <15 years	0	0	0	-	0	-	-	-	0	0
-Kidney - Pancreas TX (pmp)	31 (3.7)	16 (1.5)	0	-	23 (2.2)	-	-	-	73 (1.1)	121 (1.5)
-Pancreas TX Alone (pmp)	3 (0.4)	2 (0.2)	0	-	3 (0.3)	-	-	-	8 (0.1)	13 (0.2)
SMALL BOWEL										
TX - included all the combinations - (pmp)	-	-	0	-	0	-	-	-	13 (0.2))	-
Paediatric <15 years	-	-	0	-	0	-	-	-	7	-
-Liver + Small Bowel (pmp)	-	-	0	-	0	-	-	-	3 (0.1)	-
-S. B. TX Alone (pmp)	-	-	0	-	0	-	-	-	9 (0.1)	-
MULTIVISCERAL (pmp)										
	-	-	0	-	-	-	-	-	1 (0.0)	-

DONATION AND TRANSPLANTATION ACTIVITY

EUROPEAN UNION COUNTRIES

COUNTRIES Population (million inhabitants)	GREECE 11.0	HUNGARY 10.1	IRELAND 4.4	ITALY 56.9	LATVIA 2.3	LITHUANIA 3.4	LUXEMBOURG 0.5	MALTA 0.4	NETHERLANDS 16.4	POLAND 38.1
Deceased Organ D. - included NHBD - (pmp)	98 (8.9)	148 (14.7)	81 (18.4)	1201 (21.1)	30 (13.0)	33 (9.7)	9 (18.6)	-	210 (12.8)	427 (11.2)
NHB Donors (pmp)	-	-	0	3 (0.1)	11 (4.8)	-	-	-	91 (5.6)	0
% Multiorgan donors	79.6	41.2	58	80.3	0.4	30.3	100	-	78.1	56
DONATION										
TRANSPLANTATION										
KIDNEY										
TX - included all the combinations - (pmp)	237 (21.5)	259 (25.7)	146 (33.2)	1656 (29.1)	54 (23.5)	51 (15.0)	3 (6.2)	-	763 (46.5)	810 (21.2)
% (Living TX/ Total TX)	21.5	10.2	6.9	7.4	1.9	9.8	0	-	34.0	2.5
Paediatric <15 years	2	7	4	39	0	2	0	-	53.9	31
Deceased Donor TX (pmp)	186 (16.9)	235 (23.3)	136 (30.9)	1533 (26.9)	53 (23.0)	46 (13.5)	3 (6.2)	-	352 (21.5)	790 (20.7)
-Single TX (pmp)	186 (16.9)	235 (23.3)	129 (29.3)	1421 (25.0)	53 (23.0)	46 (13.5)	3 (6.2)	-	348 (21.2)	790 (20.7)
-Double TX (pmp)	0	0	7 (1.6)	112 (2.0)	0	-	0	-	4 (0.2)	0
Living TX (pmp)	51 (4.6)	24 (2.4)	10 (2.3)	123 (2.2)	1 (0.4)	5 (1.5)	0	-	411 (25.1)	20 (0.5)
NHB kidney TX (pmp)	0	-	0	3 (0.1)	20 (8.3)	-	0	-	135 (8.2)	0
LIVER										
TX - included all the combinations - (pmp)	58 (5.3)	36 (3.6)	58 (13.2)	1015 (17.8)	0	6 (1.8)	0	-	131 (8.0)	245 (6.4)
Paediatric <15 years	0	2	0	65	0	-	0	-	9	31
-Split Liver TX (pmp)	0	0	-	92 (1.6)	0	-	0	-	8 (0.5)	0
-Domino Liver TX(pmp)	0	-	-	4 (0.1)	0	-	0	-	0	0
Living Liver TX (pmp)	0	0	-	19 (0.3)	0	-	0	-	2 (0.1)	21 (0.6)
NHB Liver TX (pmp)	0	-	-	-	0	-	0	-	29 (1.8)	0
HEART										
TX - included Heart-Lung transplant- (pmp)	16 (1.5)	22 (2.2)	4 (0.9)	326 (5.7)	0	5 (1.5)	0	-	32 (1.6)	61 (1.6)
Paediatric <15 years	0	2	-	14	0	2	0	-	4	6
HEART-LUNG										
Transplants (pmp)	0	-	0	2 (0.0)	0	-	0	-	1 (0.1)	0
Paediatric <15 years	0	-	0	-	0	-	0	-	-	0
LUNG										
TX - included all the combinations - (pmp)	3 (0.3)	-	4 (0.9)	94 (1.6)	0	2 (0.6)	0	-	56 (3.4)	11 (0.3)
Paediatric <15 years	0	-	-	-	0	-	0	-	3	0
-Single (pmp)	2 (0.2)	-	-	31 (0.5)	0	-	0	-	14 (0.9)	8 (0.2)
-Double - included Heart-Lung TX - (pmp)	1 (0.1)	-	-	63 (1.1)	0	2 (0.6)	0	-	42 (2.6)	3 (0.1)
NHB - double + single - Lung TX (pmp)	0	-	0	-	0	-	0	-	12 (0.7)	0
PANCREAS										
TX - included all the combinations - (pmp)	2 (0.2)	5 (0.5)	12 (2.7)	61 (1.1)	1 (0.4)	4 (1.2)	0	-	14 (0.9)	20 (0.5)
Paediatric <15 years	-	0	-	-	0	-	0	-	0	0
-Kidney - Pancreas TX (pmp)	2 (0.2)	5 (0.5)	12 (2.7)	47 (0.8)	1 (0.4)	4 (1.2)	0	-	12 (0.7)	20 (0.5)
-Pancreas TX Alone (pmp)	0	0	0	12 (0.2)	0	-	0	-	2 (0.1)	0
SMALL BOWEL										
TX - included all the combinations - (pmp)	0	-	0	3 (0.1)	0	-	0	-	-	0
Paediatric <15 years	-	-	0	1	0	-	0	-	-	0
-Liver + Small Bowel (pmp)	-	-	0	-	0	-	0	-	-	0
-S. B. TX Alone (pmp)	-	-	0	3 (0.1)	0	-	0	-	-	0
MULTIVISCERAL (pmp)										
	0	-	0	-	0	-	0	-	-	0





DONATION AND TRANSPLANTATION ACTIVITY

EUROPEAN UNION COUNTRIES											OTHER COUNTRIES		
COUNTRIES	PORTUGAL	ROMANIA	SLOVAKIA	SLOVENIA	SPAIN	SWEDEN	U. K.	AUSTRALIA	CANADA	CROACIA			
Population (million inhabitants)	10.6	21	5.3	2.0	46.2	9.2	60.2	21.4	33.3	4.4			
DONATION													
Deceased Organ D. - included NHBD - (pmp)	283 (26.7)	60 (2.9)	77 (18.4)	37 (18.3)	1577 (34.2)	152 (16.5)	885 (14.7)	259 (12.1)	486 (14.6)	83 (18.7)			
NHB Donors (pmp)	0	1 (0.0)	0	-	77 (1.7)	-	264 (4.4)	23 (1.1)	40 (1.2)	-			
% Multiorgan donors	73.9	60	48	81.1	84	85	77.2	81	-	83.1			
TRANSPLANTATION													
KIDNEY													
TX – included all the combinations - (pmp)	524 (49.4)	227 (10.8)	166 (31.3)	52 (25.7)	2229 (48.3)	419 (45.5)	2302 (38.2)	776 (36.3)	1204 (36.2)	158 (35.6)			
% (Living TX/ Total TX)	9.3	49.3	12.7	0	7.0	32.5	37.1	43.25	37.1	5.7			
Paediatric <15 years	15	17	2	0	62	11	104	15	-	4			
Deceased Donor TX (pmp)	475 (44.8)	115 (5.5)	145 (27.3)	52 (25.7)	2073 (44.9)	283 (30.7)	1382 (23.0)	424 (19.8)	730 (21.9)	149 (33.6)			
-Single TX (pmp)	469 (44.2)	114 (5.4)	143 (27)	52 (25.7)	2050 (44.4)	277 (30.1)	1378 (22.9)	422 (19.7)	703 (21.1)	148 (33.4)			
-Double TX (pmp)	6 (0.6)	1 (0.0)	2 (0.3)	0	23 (0.5)	6 (0.7)	4 (0.1)	2 (0.1)	27 (0.8)	1 (0.2)			
Living TX (pmp)	49 (4.6)	112 (5.3)	21 (3.9)	0	156 (3.4)	136 (14.8)	920 (15.3)	352 (16.4)	474 (14.2)	9 (2.0)			
NHB kidney TX (pmp)	0	2 (0.1)	0	0	105 (2.3)	-	454 (7.5)	43 (2.0)	68 (2.0)	0			
LIVER													
TX – included all the combinations - (pmp)	274 (25.8)	43 (2.1)	12 (2.2)	22 (10.9)	1108 (24.0)	146 (15.8)	719 (11.9)	195 (9.1)	545 (13.6)	65 (14.7)			
Paediatric <15 years	14	3	-	0	67	6	106	6	-	0			
-Split Liver TX (pmp)	4 (0.4)	0	0	0	22 (0.5)	1 (0.1)	143 (2.4)	35 (1.6)	11 (0.3)	0			
-Domino Liver TX(pmp)	70 (6.6)	0	0	0	14 (0.3)	7 (0.8)	8 (0.1)	-	-	0			
Living Liver TX (pmp)	5 (0.5)	8 (0.4)	0	0	28 (0.6)	6 (0.6)	36 (0.6)	3 (0.1)	67 (2.0)	1 (0.2)			
NHB Liver TX (pmp)	0	0	0	0	14 (0.3)	-	86 (1.4)	4 (0.2)	16 (0.5)	0			
HEART													
TX -included Heart-Lung transplant- (pmp)	42 (3.9)	6 (0.3)	26 (4.9)	6 (3.0)	292 (6.3)	45 (4.9)	127 (2.1)	85 (3.9)	168 (5.0)	20 (4.5)			
Paediatric <15 years	3	0	1	0	21	6	25	2	-	-			
HEART-LUNG													
Transplants (pmp)	0	0	0	-	4 (0.1)	1 (0.1)	5 (0.1)	5 (0.2)	4 (0.1)	-			
Paediatric <15 years	0	0	-	-	-	-	1	-	-	-			
LUNG													
TX – included all the combinations - (pmp)	4 (0.4)	0	0	-	192 (4.2)	52 (5.6)	139 (2.3)	115 (5.4)	135 (4.1)	-			
Paediatric <15 years	0	0	-	-	6	-	6	4	-	-			
-Single (pmp)	1 (0.1)	0	0	-	90 (1.9)	27 (2.9)	28 (0.5)	11 (0.5)	31 (0.9)	-			
-Double - included Heart-Lung TX - (pmp)	3 (0.3)	0	0	-	102 (2.2)	25 (2.7)	111 (1.8)	104 (4.9)	104 (3.1)	-			
NHB – double + single - Lung TX (pmp)	0	0	0	-	5 (0.1)	-	12 (0.2)	7 (0.3)	4 (0.1)	-			
PANCREAS													
TX – included all the combinations - (pmp)	14 (1.3)	0	0	-	104 (2.3)	10 (1.1)	216 (3.6)	32 (1.5)	85 (2.6)	14 (3.2)			
Paediatric <15 years	0	0	-	-	4	-	7	1	-	0			
-Kidney - Pancreas TX (pmp)	10 (0.9)	0	0	-	89 (1.9)	10 (1.1)	162 (2.7)	32 (1.5)	64 (1.9)	14 (3.2)			
-Pancreas TX Alone (pmp)	4 (0.4)	0	0	-	15 (0.3)	-	54 (0.9)	-	21 (0.6)	-			
SMALL BOWEL													
TX – included all the combinations - (pmp)	0	0	0	-	14 (0.3)	-	14 (0.2)	-	4 (0.1)	-			
Paediatric <15 years	0	0	-	-	8	-	10	-	-	-			
-Liver + Small Bowel (pmp)	0	0	0	-	2 (0.0)	-	2 (0.0)	-	0	-			
-S. B. TX Alone (pmp)	0	0	0	-	6 (0.1)	-	3 (0.1)	-	3 (0.1)	-			
MULTIVISCERAL (pmp)	0	0	0	-	6 (0.1)	-	9 (0.1)	-	1 (0.0)	-			

DONATION AND TRANSPLANTATION ACTIVITY

OTHER COUNTRIES

COUNTRIES	GEORGIA	ICELAND	ISRAEL	MOLDOVA	NEW ZEALAND	NORWAY	SWITZERLAND	TURKEY	USA
Population (million inhabitants)	4.5	0.3	7.3	3.8	4.3	4.8	7.5	71.5	303.9
DONATION									
Deceased Organ D. - included NHBD - (pmp)	0	2 (6.3)	72 (9.8)	0	31 (7.3)	98 (20.5)	90 (11.8)	262 (3.6)	7984 (26.3)
NHB Donors (pmp)	0	-	-	0	2 (0.5)	-	0	3 (0.0)	-
% Multiorgan donors	0	100	79.2	0	81	90	90	96.9	-
TRANSPLANTATION									
KIDNEY									
TX - included all the combinations - (pmp)	7 (1.6)	5 (15.6)	142 (19.4)	0	121 (28.3)	278 (58.1)	286 (38.0)	1662 (23.2)	16517 (54.4)
% (Living TX/ Total TX)	100	100	39.4	0	56.2	35.3	40.6	75.1	36.1
Paediatric <15 years	0	-	17	0	2	3	9	-	773
Deceased Donor TX (pmp)	0	-	86 (11.7)	0	53 (12.4)	180 (37.6)	170 (22.6)	414 (5.7)	10550 (34.7)
-Single TX (pmp)	0	-	85 (11.6)	0	-	178 (37.1)	169 (22.5)	412 (5.7)	-
-Double TX (pmp)	0	-	1 (0.1)	0	-	2 (0.5)	1 (0.1)	2 (0.0)	-
Living TX (pmp)	7 (1.6)	5 (15.6)	56 (7.6)	0	68 (15.9)	98 (20.5)	116 (15.4)	1248 (17.4)	5967 (19.6)
NHB kidney TX (pmp)	0	-	-	0	4 (0.9)	-	0	6 (0.1)	-
LIVER									
TX - included all the combinations - (pmp)	0	5 (15.6)	56 (7.6)	0	24 (5.6)	79 (16.5)	83 (11.0)	602 (8.4)	6318 (20.8)
Paediatric <15 years	0	100	8	0	1	7	8	-	613
-Split Liver TX (pmp)	0	-	1 (0.1)	0	3 (0.7)	3 (0.6)	8 (1.0)	8 (0.1)	-
-Domino Liver TX(pmp)	0	-	-	0	-	0	4 (0.5)	0	-
Living Liver TX (pmp)	0	5 (15.6)	2 (0.3)	0	7 (1.6)	0	12 (1.6)	390 (5.4)	249 (0.8)
NHB Liver TX (pmp)	0	-	-	0	-	-	-	0	-
HEART									
TX - included Heart-Lung transplant- (pmp)	0	-	20 (2.7)	0	10 (2.3)	39 (8.1)	29 (3.8)	51 (0.7)	2163 (7.1)
Paediatric <15 years	0	-	3	0	0	1	-	8	365
HEART-LUNG									
Transplants (pmp)	0	-	1 (0.1)	0	-	3 (0.6)	0	1 (0.0)	27 (0.1)
Paediatric <15 years	0	-	-	0	-	0	-	-	6
LUNG									
TX - included all the combinations - (pmp)	0	-	51 (7.0)	0	14 (3.2)	30 (6.3)	40 (5.3)	1 (0.0)	1478 (4.9)
Paediatric <15 years	0	-	1	0	1	0	1	0	45
-Single (pmp)	0	-	35 (4.8)	0	-	1 (0.2)	6 (0.8)	0	-
-Double - included Heart-Lung TX - (pmp)	0	-	16 (2.2)	0	14 (3.2)	29 (6.0)	34 (4.5)	1 (0.0)	-
NHB - double + single - Lung TX (pmp)	0	-	-	0	-	-	-	0	-
PANCREAS									
TX - included all the combinations - (pmp)	0	-	11 (1.5)	0	4 (0.9)	10 (2.1)	17 (2.2)	10 (0.1)	1273 (4.2)
Paediatric <15 years	0	-	-	0	1	0	-	0	69
-Kidney - Pancreas TX (pmp)	0	-	11 (1.5)	0	4 (0.9)	9 (1.9)	15 (2.0)	3 (0.0)	837 (2.8)
-Pancreas TX Alone (pmp)	0	-	-	0	-	1 (0.2)	2 (0.2)	7 (0.1)	436 (1.4)
SMALL BOWEL									
TX - included all the combinations - (pmp)	0	-	1 (0.1)	0	-	-	1 (0.1)	3 (0.0)	185 (0.6)
Paediatric <15 years	0	-	1	0	-	-	-	0	93
-Liver + Small Bowel (pmp)	0	-	1 (0.1)	0	-	-	0	0	-
-S. B. TX Alone (pmp)	0	-	1 (0.1)	0	-	-	1 (0.1)	3 (0.0)	185 (0.6)
MULTIVISCERAL (pmp)									
	0	-	-	0	-	-	0	4 (0.1)	-





DONATION AND TRANSPLANTATION ACTIVITY

LATINAMERICAN COUNTRIES

COUNTRIES Population (million inhabitants)	ARGENTINA 39.7	BOLIVIA 9.1	BRASIL 184.8	CHILE 16.3	COLOMBIA 48.2	COSTA RICA 4.5	CUBA 11.2	DOMINICANA 9.5	ECUADOR 13.6	EL SALVADOR 5.7
Deceased Organ D. - included NHBD - (pmp)	519 (13.1)	20 (2.2)	1331 (7.2)	119 (7.1)	463 (9.6)	-	186 (16.6)	102 (10.7)	-	0
NHB Donors (pmp)	-	-	-	-	-	-	-	-	-	-
% Multiorgan donors	57.6	-	-	-	-	-	26.8	-	-	-
DONATION										
TRANSPLANTATION										
KIDNEY										
TX - included all the combinations - (pmp)	960 (24.1)	79 (8.7)	3780 (20.5)	206 (12.3)	705 (14.6)	-	144 (12.8)	7 (0.7)	-	29 (5.1)
% (Living TX/ Total TX)	21.6	51.9	-	-	-	-	5.6	93.1	-	100
Paediatric <15 years	70	-	-	-	-	-	1	-	-	0
Deceased Donor TX (pmp)	753 (18.9)	38 (4.2)	2033 (11.0)	206 (12.3)	641 (13.3)	-	136 (12.1)	7 (0.7)	-	0
-Single TX (pmp)	746 (18.7)	-	-	-	-	-	136 (12.1)	-	-	-
-Double TX (pmp)	7 (0.2)	-	-	-	-	-	-	-	-	-
Living TX (pmp)	207 (5.2)	41 (4.5)	1747 (9.5)	-	64 (1.3)	-	8 (0.7)	95 (10.0)	-	29 (5.1)
NHB kidney TX (pmp)	-	-	-	-	-	-	-	-	-	-
LIVER										
TX - included all the combinations - (pmp)	280 (7.0)	-	1053 (5.7)	74 (4.4)	198 (4.1)	-	28 (2.5)	1 (0.1)	-	0
Paediatric <15 years	65	-	-	-	-	-	2	-	-	0
-Split Liver TX (pmp)	12 (0.3)	-	-	-	-	-	-	-	-	-
-Domino Liver TX(pmp)	-	-	-	-	-	-	-	-	-	-
Living Liver TX (pmp)	33 (0.8)	-	-	-	-	-	-	-	-	-
NHB Liver TX (pmp)	-	-	-	-	-	-	-	-	-	-
HEART										
TX -included Heart-Lung transplant- (pmp)	100 (2.5)	-	200 (1.1)	19 (1.1)	83 (1.7)	-	3 (0.3)	-	-	0
Paediatric <15 years	8	-	-	-	-	-	-	-	-	0
HEART-LUNG										
Transplants (pmp)	3 (0.1)	-	-	-	-	-	-	-	-	0
Paediatric <15 years	1	-	-	-	-	-	-	-	-	0
LUNG										
TX - included all the combinations - (pmp)	32 (0.8)	-	53 (0.3)	9 (0.5)	14 (0.3)	-	-	-	-	0
Paediatric <15 years	1	-	-	-	-	-	-	-	-	0
-Single (pmp)	16 (0.4)	-	-	-	-	-	-	-	-	-
-Double - included Heart-Lung TX - (pmp)	16 (0.4)	-	-	-	-	-	-	-	-	-
NHB - double + single - Lung TX (pmp)	-	-	-	-	-	-	-	-	-	-
PANCREAS										
TX - included all the combinations - (pmp)	85 (2.1)	-	-	-	-	-	1 (0.1)	-	-	0
Paediatric <15 years	-	-	-	-	-	-	-	-	-	0
-Kidney - Pancreas TX (pmp)	77 (1.9)	-	32 (0.2)	-	5 (0.1)	-	1 (0.1)	-	-	-
-Pancreas TX Alone (pmp)	8 (0.2)	-	-	-	-	-	-	-	-	-
SMALL BOWEL										
TX - included all the combinations - (pmp)	8 (0.2)	-	-	-	-	-	-	-	-	0
Paediatric <15 years	6	-	-	-	-	-	-	-	-	0
-Liver + Small Bowel (pmp)	2 (0.1)	-	-	-	-	-	-	-	-	-
-S. B. TX Alone (pmp)	5 (0.1)	-	-	-	-	-	-	-	-	-
MULTIVISCERAL (pmp)	1 (0.0)	-	-	-	-	-	-	-	-	-

DONATION AND TRANSPLANTATION ACTIVITY

LATINAMERICAN COUNTRIES

COUNTRIES	GUATEMALA	HONDURAS	MEXICO	NICARAGUA	PANAMA	PARAGUAY	PERU	URUGUAY	VENEZUELA
Population (million inhabitants)	13.5	7.5	106.7	5.7	3.3	5.2	28.8	3.3	27.9
DONATION									
Deceased Organ D. - included NHBD - (pmp)	7 (0.6)	-	332 (3.1)	-	6 (1.8)	11 (2.1)	-	63 (19.1)	93 (3.3)
NHB Donors (pmp)	-	-	-	-	0	0	-	0	0
% Multiorgan donors	-	-	33.6	-	0	0	-	80.9	2
TRANSPLANTATION									
KIDNEY									
TX - included all the combinations - (pmp)	85 (6.3)	-	2260 (21.8)	-	24 (7.3)	27 (5.2)	-	121 (36.7)	278 (9.6)
% (Living TX/ Total TX)	83.5	-	75.14	-	50.0	77.8	-	-	36.0
Paediatric <15 years	-	-	255	-	0	0	-	-	29
Deceased Donor TX (pmp)	14 (1.1)	-	562 (5.3)	-	12 (3.6)	6 (1.2)	-	114 (34.5)	178 (6.4)
-Single TX (pmp)	12 (0.9)	-	556 (5.2)	-	12 (3.6)	6 (1.2)	-	-	178 (6.4)
-Double TX (pmp)	1 (0.1)	-	6 (0.1)	-	0	0	-	-	0
Living TX (pmp)	71 (5.3)	-	1698 (15.9)	-	12 (3.6)	21 (4.0)	-	7 (2.1)	100 (3.6)
NHB kidney TX (pmp)	-	-	-	-	0	0	-	-	0
LIVER									
TX - included all the combinations - (pmp)	-	-	96 (0.9)	-	-	0	-	3 (0.9)	10 (0.4)
Paediatric <15 years	-	-	8	-	-	0	-	-	5
-Split Liver TX (pmp)	-	-	-	-	-	0	-	-	2 (0.1)
-Domino Liver TX(pmp)	-	-	0	-	-	0	-	-	0
Living Liver TX (pmp)	-	-	8 (0.1)	-	-	0	-	-	8 (0.3)
NHB Liver TX (pmp)	-	-	0	-	-	0	-	-	0
HEART									
TX -included Heart-Lung transplant- (pmp)	-	-	14 (0.1)	-	-	1 (0.2)	-	11 (3.3)	0
Paediatric <15 years	-	-	2	-	-	0	-	0	0
HEART-LUNG									
Transplants (pmp)	-	-	-	-	-	0	-	-	0
Paediatric <15 years	-	-	-	-	-	0	-	-	0
LUNG									
TX - included all the combinations - (pmp)	-	-	1 (0.0)	-	-	0	-	4 (1.2)	0
Paediatric <15 years	-	-	-	-	-	0	-	-	0
-Single (pmp)	-	-	1 (0.0)	-	-	0	-	-	0
-Double - included Heart-Lung TX - (pmp)	-	-	-	-	-	0	-	-	0
NHB - double + single - Lung TX (pmp)	-	-	-	-	-	0	-	-	0
PANCREAS									
TX - included all the combinations - (pmp)	-	-	1 (0.0)	-	-	0	-	6 (1.8)	0
Paediatric <15 years	-	-	-	-	-	0	-	0	0
-Kidney - Pancreas TX (pmp)	-	-	1 (0.0)	-	-	0	-	6 (1.8)	0
-Pancreas TX Alone (pmp)	-	-	-	-	-	0	-	-	0
SMALL BOWEL									
TX - included all the combinations - (pmp)	-	-	-	-	-	1 (0.2)	-	-	0
Paediatric <15 years	-	-	-	-	-	0	-	-	0
-Liver + Small Bowel (pmp)	-	-	-	-	-	0	-	-	0
-S. B. TX Alone (pmp)	-	-	-	-	-	0	-	-	0
MULTIVISCERAL (pmp)									
	-	-	-	-	-	1 (0.2)	-	-	0





WAITING LIST

EUROPEAN UNION COUNTRIES

COUNTRIES	AUSTRIA	BELGIUM	BULGARIA	CYPRUS	CZECH. R.	DENMARK	ESTONIA	FINLAND	FRANCE	GERMANY
Population (million inhabitants)	8.3	10.7	7.0	0.7	10.4	5.5	1.3	5.3	63.6	82.2
KIDNEY										
N° TX CENTRES	-	-	-	1	7	4	1	1	44	-
Patients admitted to the WL during 2008	365	455	35	29	443	206	54	251	3671	3064
Patients awaiting for a TX by 2008, 31 st Dec	883	813	811	111	546	489	63	398	6859	8003
Patients dead while on the WL during 2008	39	18	-	3	12	44	4	14	201	267
ESRD on dialysis treatment during 2008	-	-	2855	-	-	-	300	-	-	-
LIVER										
N° TX CENTRES	-	-	2	-	2	1	1	1	24	-
Patients admitted to the WL during 2008	149	302	7	-	110	43	2	38	1371	1649
Patients awaiting for a TX by 2008, 31 st Dec	113	189	52	-	56	36	3	7	669	1948
Patients dead while on the WL during 2008	31	44	5	-	11	4	0	1	107	339
HEART										
N° TX CENTRES	-	-	1	-	2	2	-	1	26	-
Patients admitted to the WL during 2008	81	110	8	-	96	22	-	28	508	719
Patients awaiting for a TX by 2008, 31 st Dec	59	43	45	-	77	17	-	10	300	873
Patients dead while on the WL during 2008	7	19	8	-	14	1	-	1	66	149
LUNG										
N° TX CENTRES	-	-	-	-	1	1	-	1	13	-
Patients admitted to the WL during 2008	128	116	-	-	40	38	-	20	278	442
Patients awaiting for a TX by 2008, 31 st Dec	62	76	-	-	53	52	-	6	176	593
Patients dead while on the WL during 2008	13	6	-	-	10	7	-	2	29	112
PANCREAS										
N° TX CENTRES	-	-	-	-	1	0	-	0	11	-
Patients admitted to the WL during 2008	29	24	-	-	31	-	-	-	115	197
Patients awaiting for a TX by 2008, 31 st Dec	37	27	-	-	39	-	-	-	154	263
Patients dead while on the WL during 2008	-	1	-	-	0	-	-	-	5	22
SMALL BOWEL										
N° TX CENTRES	-	-	-	-	1	0	-	0	5	-
Patients admitted to the WL during 2008	-	-	-	-	0	-	-	-	19	-
Patients awaiting for a TX by 2008, 31 st Dec	-	-	-	-	0	-	-	-	25	-
Patients dead while on the WL during 2008	-	-	-	-	0	-	-	-	1	-

WAITING LIST

EUROPEAN UNION COUNTRIES

COUNTRIES	GREECE	HUNGARY	IRELAND	ITALY	LATVIA	LITHUANIA	LUXEMBOURG	MALTA	NETHERLANDS	POLAND
Population (million inhabitants)	11.0	10.1	4.4	56.9	2.3	3.4	0.5	0.4	16.4	38.1
KIDNEY										
N° TX CENTRES	4	4	1	43	1	2	-	-	-	18
Patients admitted to the WL during 2008	225	255	209	2609	37	87	5	-	870	1030
Patients awaiting for a TX by 2008, 31 st Dec	880	685	504	7214	300	252	10	-	952	1479
Patients dead while on the WL during 2008	15	28	19	160	10	8	-	-	77	67
ESRD on dialysis treatment during 2008	-	4728	-	-	-	-	-	-	-	16000
LIVER										
N° TX CENTRES	2	1	1	22	0	2	-	-	-	5
Patients admitted to the WL during 2008	84	130	54	1282	0	8	0	-	143	274
Patients awaiting for a TX by 2008, 31 st Dec	67	67	14	1504	0	24	-	-	118	115
Patients dead while on the WL during 2008	12	15	5	173	0	2	-	-	22	35
HEART										
N° TX CENTRES	1	2	1	19	1	2	-	-	-	4
Patients admitted to the WL during 2008	17	25	-	517	2	9	0	-	64	155
Patients awaiting for a TX by 2008, 31 st Dec	24	11	-	730	7	33	-	-	54	204
Patients dead while on the WL during 2008	1	7	-	126	1	5	-	-	12	41
LUNG										
N° TX CENTRES	1	0	1	13	0	2	-	-	-	1
Patients admitted to the WL during 2008	5	14	-	215	0	1	0	-	113	21
Patients awaiting for a TX by 2008, 31 st Dec	2	5	-	329	0	3	-	-	185	20
Patients dead while on the WL during 2008	1	2	-	69	0	-	-	-	28	5
PANCREAS										
N° TX CENTRES	0	2	1	13	1	1	-	-	-	4
Patients admitted to the WL during 2008	-	4	11	70	2	12	0	-	21	30
Patients awaiting for a TX by 2008, 31 st Dec	-	16	23	6	2	11	-	-	30	15
Patients dead while on the WL during 2008	-	1	0	253	0	-	-	-	1	0
SMALL BOWEL										
N° TX CENTRES	0	-	0	3	0	-	-	-	-	0
Patients admitted to the WL during 2008	-	-	-	7	0	-	-	-	-	0
Patients awaiting for a TX by 2008, 31 st Dec	-	-	-	1	0	-	-	-	-	0
Patients dead while on the WL during 2008	-	-	-	20	0	-	-	-	-	0





WAITING LIST

COUNTRIES		EUROPEAN UNION COUNTRIES							OTHER COUNTRIES		
Population (million inhabitants)	PORTUGAL	ROMANIA	SLOVAKIA	SLOVENIA	SPAIN	SWEDEN	U. K.	AUSTRALIA	CANADA	CROACIA	
	10.6	21.0	5.3	2.0	46.2	9.2	60.2	21.4	33.3	4.4	
KIDNEY											
N° TX CENTRES	8	5	4	-	44	4	24	22	-	-	
Patients admitted to the WL during 2008	-	490	190	44	-	292	3277	-	-	164	
Patients awaiting for a TX by 2008, 31 st Dec	2275	2085	507	72	4301	452	9498	1298	3277	349	
Patients dead while on the WL during 2008	-	26	86	4	-	28	277	-	62	5	
ESRD on dialysis treatment during 2008	9814	6550	-		22609	-	-	-	-		
LIVER											
N° TX CENTRES	3	1	2	-	26	3	8	8	-	-	
Patients admitted to the WL during 2008	-	177	14	28	2144	128	920	-	-	101	
Patients awaiting for a TX by 2008, 31 st Dec	-	350	12	13	691	46	356	170	587	61	
Patients dead while on the WL during 2008	-	50	0	4	158	12	88	-	16	23	
HEART											
N° TX CENTRES	4	2	2	-	18	3	7	5	-	-	
Patients admitted to the WL during 2008	-	26	25	12	453	53	201	-	-	44	
Patients awaiting for a TX by 2008, 31 st Dec	-	107	12	17	90	19	115	83	137	18	
Patients dead while on the WL during 2008	-	12	-	2	29	8	23	-	16	7	
LUNG											
N° TX CENTRES	1	2	0	-	9	2	5	5	-	-	
Patients admitted to the WL during 2008	-	8	-	0	413	45	200	-	-	0	
Patients awaiting for a TX by 2008, 31 st Dec	-	22	-	-	175	11	243	137	282	-	
Patients dead while on the WL during 2008	-	2	-	-	19	4	56	-	44	-	
PANCREAS											
N° TX CENTRES	1	3	0	-	11	3	8	2	-	-	
Patients admitted to the WL during 2008	13	35	-	0	211	18	383	-	-	10	
Patients awaiting for a TX by 2008, 31 st Dec	27	90	-	1	83	24	459	28	147	3	
Patients dead while on the WL during 2008	-	10	-	-	5	1	15	-	5	1	
SMALL BOWEL											
N° TX CENTRES	0	0	0	-	3	1	3	-	-	-	
Patients admitted to the WL during 2008	0	0	-	-	19	-	23	-	-	-	
Patients awaiting for a TX by 2008, 31 st Dec	0	0	-	-	27	-	8	-	8	-	
Patients dead while on the WL during 2008	0	0	-	-	3	-	3	-	0	-	

WAITING LIST

OTHER COUNTRIES

COUNTRIES	GEORGIA	ICELAND	ISRAEL	MOLDOVA	NEW ZEALAND	NORWAY	SWITZERLAND	TURKEY	USA
Population (million inhabitants)	4.5	0.3	7.3	3.8	4.3	4.8	7.5	71.5	303.9
KIDNEY									
N° TX CENTRES	2	1	6	1	3	1	6	44	250
Patients admitted to the WL during 2008	-	-	300	20	-	183	425	-	34057
Patients awaiting for a TX by 2008, 31 st Dec	-	-	598	140	570	228	758	11500	84831
Patients dead while on the WL during 2008	-	-	18	15	-	7	23	-	4581
ESRD on dialysis treatment during 2008	1500	-	-	360	-	-	-	50554	-
LIVER									
N° TX CENTRES	-	0	3	0	1	1	3	25	117
Patients admitted to the WL during 2008	-	-	108	0	-	74	143	-	11176
Patients awaiting for a TX by 2008, 31 st Dec	-	-	131	0	24	7	108	1257	16421
Patients dead while on the WL during 2008	-	-	19	0	-	0	25	-	1509
HEART									
N° TX CENTRES	-	0	3	0	1	1	3	16	131
Patients admitted to the WL during 2008	-	-	53	0	-	29	36	-	3383
Patients awaiting for a TX by 2008, 31 st Dec	-	-	120	0	7	4	19	264	2784
Patients dead while on the WL during 2008	-	-	15	0	-	0	8	-	370
LUNG									
N° TX CENTRES	-	0	2	0	1	1	2	1	67
Patients admitted to the WL during 2008	-	-	63	0	-	36	60	-	2003
Patients awaiting for a TX by 2008, 31 st Dec	-	-	46	0	5	35	46	2	1962
Patients dead while on the WL during 2008	-	-	26	0	-	11	7	-	231
PANCREAS									
N° TX CENTRES	-	0	3	0	1	1	2	5	141
Patients admitted to the WL during 2008	-	-	9	0	-	20	14	-	2483
Patients awaiting for a TX by 2008, 31 st Dec	-	-	20	0	4	21	16	86	3779
Patients dead while on the WL during 2008	-	-	-	0	-	1	2	-	243
SMALL BOWEL									
N° TX CENTRES	-	0	1	0	-	0	1	2	18
Patients admitted to the WL during 2008	-	-	-	0	-	-	1	3	267
Patients awaiting for a TX by 2008, 31 st Dec	-	-	-	0	-	-	1	0	211
Patients dead while on the WL during 2008	-	-	-	0	-	-	0	-	25





WAITING LIST

LATINAMERICAN COUNTRIES

COUNTRIES	ARGENTINA	BOLIVIA	BRASIL	CHILE	COLOMBIA	COSTA RICA	CUBA	DOMINICANA	ECUADOR	EL SALVADOR
Population (million inhabitants)	39.7	9.1	184.8	16.8	48.2	4.5	11.2	9.5	13.6	5.7
KIDNEY										
N° TX CENTRES	51	-	-	-	-	-	9	-	-	29
Patients admitted to the WL during 2008	1675	-	-	-	-	-	100	-	-	-
Patients awaiting for a TX by 2008, 31 st Dec	4747	-	-	-	-	-	1000	-	-	-
Patients dead while on the WL during 2008	237	-	-	-	-	-	-	-	-	-
ESRD on dialysis treatment during 2008	25164	-	-	-	-	-	2442	1250	-	-
LIVER										
N° TX CENTRES	16	-	-	-	-	-	3	-	-	0
Patients admitted to the WL during 2008	485	-	-	-	-	-	36	-	-	-
Patients awaiting for a TX by 2008, 31 st Dec	482	-	-	-	-	-	8	-	-	-
Patients dead while on the WL during 2008	99	-	-	-	-	-	0	-	-	-
HEART										
N° TX CENTRES	25	-	-	-	-	-	1	-	-	0
Patients admitted to the WL during 2008	158	-	-	-	-	-	3	-	-	-
Patients awaiting for a TX by 2008, 31 st Dec	109	-	-	-	-	-	0	-	-	-
Patients dead while on the WL during 2008	43	-	-	-	-	-	0	-	-	-
LUNG										
N° TX CENTRES	9	-	-	-	-	-	1	-	-	0
Patients admitted to the WL during 2008	76	-	-	-	-	-	5	-	-	-
Patients awaiting for a TX by 2008, 31 st Dec	88	-	-	-	-	-	5	-	-	-
Patients dead while on the WL during 2008	17	-	-	-	-	-	0	-	-	-
PANCREAS										
N° TX CENTRES	8	-	-	-	-	-	2	-	-	0
Patients admitted to the WL during 2008	94	-	-	-	-	-	1	-	-	-
Patients awaiting for a TX by 2008, 31 st Dec	80	-	-	-	-	-	0	-	-	-
Patients dead while on the WL during 2008	8	-	-	-	-	-	0	-	-	-
SMALL BOWEL										
N° TX CENTRES	3	-	-	-	-	-	-	-	-	0
Patients admitted to the WL during 2008	11	-	-	-	-	-	-	-	-	-
Patients awaiting for a TX by 2008, 31 st Dec	3	-	-	-	-	-	-	-	-	-
Patients dead while on the WL during 2008	0	-	-	-	-	-	-	-	-	-

WAITING LIST

LATINAMERICAN COUNTRIES

COUNTRIES	GUATEMALA	HONDURAS	MEXICO	NICARAGUA	PANAMA	PARAGUAY	PERU	URUGUAY	VENEZUELA
Population (million inhabitants)	13.5	7.5	106.7	5.7	3.3	5.2	28.8	3.3	27.9
KIDNEY									
N° TX CENTRES	-	-	197	-	1	4	-	4	10
Patients admitted to the WL during 2008	-	-	4171	-	30	49	-	122	385
Patients awaiting for a TX by 2008, 31 st Dec	-	-	5562	-	135	3	-	403	928
Patients dead while on the WL during 2008	-	-	52	-	20	2	-	13	19
ESRD on dialysis treatment during 2008	-	-	-	-	967	704	-	2950	-
LIVER									
N° TX CENTRES	-	-	49	-	-	0	-	-	1
Patients admitted to the WL during 2008	-	-	221	-	-	-	-	-	6
Patients awaiting for a TX by 2008, 31 st Dec	-	-	341	-	-	-	-	-	12
Patients dead while on the WL during 2008	-	-	45	-	-	-	-	-	2
HEART									
N° TX CENTRES	-	-	35	-	-	3	-	2	0
Patients admitted to the WL during 2008	-	-	45	-	-	2	-	12	0
Patients awaiting for a TX by 2008, 31 st Dec	-	-	60	-	-	1	-	29	0
Patients dead while on the WL during 2008	-	-	6	-	-	1	-	6	0
LUNG									
N° TX CENTRES	-	-	6	-	-	0	-	-	0
Patients admitted to the WL during 2008	-	-	0	-	-	-	-	-	0
Patients awaiting for a TX by 2008, 31 st Dec	-	-	3	-	-	-	-	-	0
Patients dead while on the WL during 2008	-	-	0	-	-	-	-	-	0
PANCREAS									
N° TX CENTRES	-	-	10	-	-	0	-	1	0
Patients admitted to the WL during 2008	-	-	6	-	-	-	-	6	0
Patients awaiting for a TX by 2008, 31 st Dec	-	-	21	-	-	-	-	11	0
Patients dead while on the WL during 2008	-	-	0	-	-	-	-	1	0
SMALL BOWEL									
N° TX CENTRES	-	-	-	-	-	0	-	-	0
Patients admitted to the WL during 2008	-	-	-	-	-	-	-	-	0
Patients awaiting for a TX by 2008, 31 st Dec	-	-	-	-	-	-	-	-	0
Patients dead while on the WL during 2008	-	-	-	-	-	-	-	-	0





FAMILY REFUSALS

EUROPEAN UNION COUNTRIES

COUNTRIES	AUSTRIA	BELGIUM	BULGARIA	CYPRUS	CZECH. R.	DENMARK	ESTONIA	FINLAND	FRANCE	GERMANY
Population (million inhabitants)	8.3	10.7	7.0	0.7	10.4	5.5	1.3	5.3	63.6	82.2
Number of interviews, asking for consent to donation	-	-	10	-	-	-	50	-	-	-
Number of family refusals (%)	-	-	8 (80.0)	-	-	-	16 (32.0)	-	976	-

COUNTRIES	GREECE	HUNGARY	IRELAND	ITALY	LATVIA	LITHUANIA	LUXEMBOURG	MALTA	NETHERLANDS	POLAND
Population (million inhabitants)	11.0	10.1	4.4	56.9	2.3	3.4	0.5	0.4	16.4	38.1
Number of interviews, asking for consent to donation	158	148	105	2299	24	61	-	0	-	497
Number of family refusals (%)	53 (33.5)	11 (7.4)	24 (22.9)	749 (32.6)	13 (54.2)	19 (31.2)	-	0	-	54 (10.9)

OTHER COUNTRIES

COUNTRIES	PORTUGAL	ROMANIA	SLOVAKIA	SLOVENIA	SPAIN	SWEDEN	U. K.	AUSTRALIA	CANADA	CROACIA
Population (million inhabitants)	10.6	21	5.3	2.0	46.2	9.2	60.2	21.4	33.3	4.4
Number of interviews, asking for consent to donation	-	94	-	-	1577	-	1551	-	-	-
Number of family refusals (%)	-	27 (28.7)	-	-	343 (17.9)	-	591 (38.1)	-	-	-

OTHER COUNTRIES

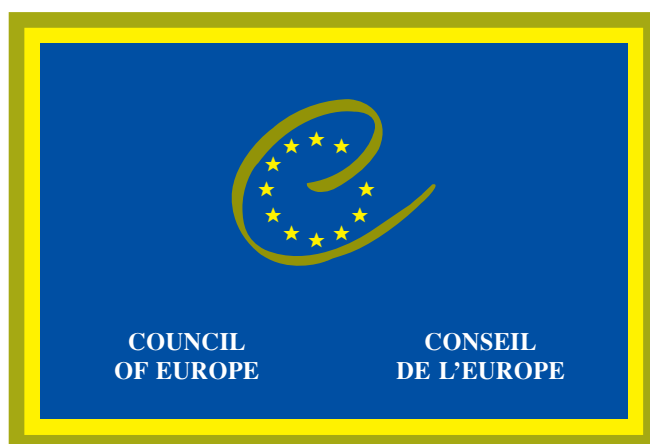
COUNTRIES	GEORGIA	ICELAND	ISRAEL	MOLDOVA	NEW ZEALAND	NORWAY	SWITZERLAND	TURKEY	USA
Population (million inhabitants)	4.5	0.3	7.3	3.8	4.3	4.8	7.5	71.5	303.9
Number of interviews, asking for consent to donation	0	-	155	0	-	143	160	720	-
Number of family refusals (%)	0	-	83 (53.6)	0	-	42 (29.4)	56 (35.0)	458 (63.6)	-

LATINAMERICAN COUNTRIES

COUNTRIES	ARGENTINA	BOLIVIA	BRASIL	CHILE	COLOMBIA	COSTA RICA	CUBA	DOMINICANA	ECUADOR	EL SALVADOR
Population (million inhabitants)	39.7	9.1	184.8	16.8	48.2	4.5	11.2	9.5	13.6	5.7
Number of interviews, asking for consent to donation	1178	-	-	-	-	-	213	-	-	-
Number of family refusals (%)	569 (48.3)	-	-	-(33.0)	-(40.1)	-	57 (27.0)	-(43.8)	-	-

COUNTRIES

COUNTRIES	GUATEMALA	HONDURAS	MEXICO	NICARAGUA	PANAMA	PARAGUAY	PERU	URUGUAY	VENEZUELA
Population (million inhabitants)	13.5	7.5	106.7	5.7	3.3	5.2	28.8	3.3	27.9
Number of interviews, asking for consent to donation	-	-	951	-	-	33	-	85	197
Number of family refusals (%)	-	-	-	-	-	15 (45.5)	-	28 (33.0)	50 (25.4)



International Data on Tissue and Hematopoietic Stem Cell Donation and Transplantation Activity. Year 2008



TISSUE & HEMATOPOIETIC STEM CELL NATIONAL DATA PROVIDED BY:

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PRELIMINARY DATA ON TISSUES

EUROPEAN UNION COUNTRIES

Country	AUSTRIA	BELGIUM	BULGARIA	CYPRUS	CZECH REPUBLIC	DENMARK	ESTONIA	FINLAND	FRANCE	GERMANY	GREECE
Population (Font: eurostat 1.1.2008)	8.331.930	10.660.770	7.640.238	794.580	10.381.130	5.475.791	1.338.617	5.296.826	63.753.140	82.221.808	11.214.992
Data related to year	2008	2008	2008	NO DATA	2008	NO DATA	NO DATA	NO DATA	2008	2008	2008
TYPE OF TISSUE	TYPE OF DATA										
CORNEA	N° of donation		140		630					3.553	
	PMP donation		18,3		60,7					43,2	
	N° of tissues retrieved		140		1.262				8.156		
	N° of transplants	566	126		855				3.790	2.684	
SKIN	PMP transplants	67,9	16,5		82,4				59,4	32,6	
	N° of donation		5		39				119		
	PMP donation		0,7		3,8				1,9		
	N° of tissues retrieved - cm²				159.600				253.187		
	N° of tissues retrieved - units		5								
	N° of transplants	1.067	94		41					499	
	N° of transplants - cm² transplanted								313.793		
	PMP transplants	128,1	12,3		3,9					6,1	
CARDIAC TISSUE	N° of donation		0		68				173	32	
	PMP donation				6,6				2,7	0,4	
	N° of tissues retrieved		0		120				488		
	N° of transplants	266	0		92				163	15	
	PMP transplants	31,9			8,9				2,6	0,2	
	N° of donation		0		11				257	76	
	PMP donation				1,1				4,0	0,9	
	N° of tissues retrieved		0		18				2.566		
	N° of transplants		0		9				566	15	
	PMP transplants				0,9				8,9	0,2	
MUSCULOSKELETAL	N° of donation		543		803				65	5.497	
	PMP donation		71,1		77,4				1,0	66,9	
	N° of tissues retrieved		497		805				144		
	N° of transplants	1.932	375		1.918				212	30.542	
	PMP transplants	231,9	49,1		184,8				3,3	371,5	
	N° of donation		35		1.024					361	
	PMP donation		4,6		98,6					4,4	
	N° of tissues retrieved		35		1.024				2.700		
PLACENTAMNIOTIC MEMBRAN	N° of transplants	34	12		1.012				1.619	1.346	
	PMP transplants	4,1	1,6		97,5				25,4	16,4	
	N° of donation									53	
	PMP donation									0,6	
OTHER	N° of tissues retrieved										
	N° of transplants									21	
	PMP transplants									0,3	





PRELIMINARY DATA ON TISSUES

EUROPEAN UNION COUNTRIES

Country	HUNGARY	IRELAND	ITALY	LATVIA	LITHUANIA	LUXEMBOURG	MALTA	NETHERLANDS	POLAND	PORTUGAL	ROMANIA
Population (Font: eurostat 1.1.2008)	10.045.000	4.419.859	59.578.359	2.270.894	3.366.357	483.799	410.584	16.404.282	38.115.641	10.617.575	21.528.627
Data related to year	NO DATA	NO DATA	2008	2008	2008	NO DATA	NO DATA	NO DATA	2008	2008	2008
TYPE OF TISSUE	TYPE OF DATA										
CORNEA	N° of donation		6.005	26	15				393	451	14
	PMP donation		100,8	11,4	4,5				10,3	42,5	0,7
	N° of tissues retrieved		11.883	48	30				760	976	28
	N° of transplants		4.815	48	30				473	747	23
	PMP transplants		80,8	21,1	8,9				12,4	70,4	1,1
SKIN	N° of donation		326						10	5	23
	PMP donation		5,5						0,3	0,5	1,1
	N° of tissues retrieved - cm²		1.046.913						5.572	2.055	35.660
	N° of tissues retrieved - units										
	N° of transplants		1.550							7	21
	N° of transplants - cm² transplanted								14.582		
	PMP transplants		26							0,7	1
CARDIAC TISSUE	N° of donation		230		9				157	45	0
	PMP donation		3,9		2,7				4,1	4,2	
	N° of tissues retrieved		459		12				298	45	0
	N° of transplants		144		3				161	5	0
	PMP transplants		2,4		0,9				4,2	0,5	
BLOOD VESSELS	N° of donation		747		0				5	9	0
	PMP donation		12,5						0,1	0,8	
	N° of tissues retrieved		1.013		0				6	9	0
	N° of transplants		226		0				3	0	0
	PMP transplants		3,8						0,1	0	
MUSCULOSKELETAL	N° of donation		2.779	26	94				413	41	339
	PMP donation		46,6	11,4	27,9				10,8	3,9	15,7
	N° of tissues retrieved		7.042	102	110				3.424	41	304
	N° of transplants		5.663	102	78				8.961	6	287
	PMP transplants		95,1	44,9	23,2				235,1	0,6	13,3
PLACENTAMNIOTIC MEMBRAN	N° of donation		237		6				71	61	0
	PMP donation		4		1,8				1,9	5,7	
	N° of tissues retrieved		252		6				71	61	0
	N° of transplants		1.120		56				759	69	0
	PMP transplants		18,8		16,6				19,9	6,5	
OTHER	N° of donation		0							0	0
	PMP donation										
	N° of tissues retrieved		0							0	0
	N° of transplants									0	0
	PMP transplants										



PRELIMINARY DATA ON TISSUES

EUROPEAN UNION COUNTRIES							OTHER COUNTRIES					
Country		SLOVAKIA	SLOVENIA	SPAIN	SWEDEN	UNITED KINGDOM	CROATIA	ICELAND	MACEDONIA	NORWAY	SWITZERLAND	TURKEY
Population (Font: eurostat 1.1.2008)		5.400.998	2.025.866	45.283.259	9.182.927	61.270.283	4.435.383	314.321	2.045.179	4.737.171	7.591.414	70.586.256
Data related to year		2008	2008	2008	2008	2008	2008	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
TYPE OF TISSUE	TYPE OF DATA											
CORNEA	N° of donation	154	56	2.813	305		41					1.720
	PMP donation	28,5	27,6	62,1	33,2		9,2					24,4
	N° of tissues retrieved	225	111	5.493	603	4.523	82					1.720
	N° of transplants	189	95	2.762	462		64					1.565
	PMP transplants	35	46,9	61	50,3		14,4					22,2
SKIN	N° of donation	5	5	191	2		9					
	PMP donation	0,9	2,5	4,2	0,2		2					
	N° of tissues retrieved - cm²	14.781	5	583.484	3.900							
	N° of tissues retrieved - units					957	23					
	N° of transplants	0	0	53			105					
	N° of transplants - cm² transplanted				800							
	PMP transplants			1,2			23,7					
CARDIAC TISSUE	N° of donation	12		267	143							
	PMP donation	2,2		5,9	15,6							
	N° of tissues retrieved	21		240	255	1.311						
	N° of transplants	9		123	115							
	PMP transplants	1,7		2,7	12,5							
BLOOD VESSELS	N° of donation	3		221								
	PMP donation	0,6		4,9								
	N° of tissues retrieved	4		329		178						
	N° of transplants	1		98								
	PMP transplants	0,2		2,2								
MUSCULOSKELETAL	N° of donation	220	2	1.822			265					
	PMP donation	40,7	1	40,2			59,7					
	N° of tissues retrieved	671	18	10.832		5.412	284					
	N° of transplants	210	0	6.154			261					
	PMP transplants	38,9	0	135,9			58,8					
PLACENTA/AMNIOTIC MEMBRAN	N° of donation	23		66								
	PMP donation	4,3		1,5								
	N° of tissues retrieved	6.026		1.821		2						
	N° of transplants	87		990			22					
	PMP transplants	16,1		21,9			5					
OTHER	N° of donation		66		54							
	PMP donation		32,6		2							
	N° of tissues retrieved		68	79	116	7.601						
	N° of transplants		6	119	52							
	PMP transplants		3	2,6	2,8							



PRELIMINARY DATA ON TISSUES

LATINAMERICAN COUNTRIES

Country	ARGENTINA	BRASIL	CHILE	CUBA	DOMINICANA	MEXICO	PARAGUAY	URUGUAY	VENEZUELA
Population (Font: eurostat 1.1.2008)	39.745.593	184.800.000	16.800.000	11.236.790	9.500.000	106.680.000	5.163.200	3.323.906	27.930.000
Data related to year	2008	2008	2008	2008	2008	2008	2008	2008	2008
TYPE OF TISSUE	TYPE OF DATA								
CORNEA	N° of donation	1.519		578	3	750	17	101	65
	PMP donation	38,2		51,6	0,3	7,0	3,2	30,6	2,3
	N° of tissues retrieved	1.519		1156			1	196	118
	N° of transplants	1.017		560	115	2676	33	133	111
SKIN	PMP transplants	25,6	3,5	50,0	12,1	25,2	6,3	40,3	4
	N° of donation	45						27	
	PMP donation	1,1						8,1	
	N° of tissues retrieved - cm2	51.878						1.060	
CARDIAC TISSUE	N° of tissues retrieved - units								
	N° of transplants	41						23	
	N° of transplants - cm2 transplanted								
	PMP transplants	1						6,9	
BLOOD VESSELS	N° of donation	291						7	
	PMP donation	7,3						2,1	
	N° of tissues retrieved	613						20	
	N° of transplants	532						6	
MUSCULOSKELETAL	PMP transplants	13,4						1,8	
	N° of donation	10						28	
	PMP donation	0,3						8,4	
	N° of tissues retrieved	3						59	
PLACENTA/AMNIOTIC MEMBRAN	N° of transplants	0						33	
	PMP transplants	0,1						10	
	N° of donation	769		34				30	
	PMP donation	19,3		3,0				9	
OTHER	N° of tissues retrieved	6.474		34				44	
	N° of transplants	5.894		31				137	
	PMP transplants	148,3		2,7				41,2	
	N° of donation								
	PMP donation								
	N° of tissues retrieved								
	N° of transplants								
	PMP transplants								

PRELIMINARY DATA ON HPC CELLS

EUROPEAN UNION COUNTRIES

Country Population (Font: eurostat 1.1.2008) Data related to year	AUSTRIA 8.331.930 2008	BELGIUM 10.660.770 NO DATA	BULGARIA 7.640.238 2008	CYPRUS 794.580 NO DATA	CZECH REPUBLIC 10.381.130 2008	DENMARK 5.475.791 NO DATA	ESTONIA 1.338.617 NO DATA	FINLAND 5.296.826 NO DATA	FRANCE 63.753.140 2008	GERMANY 82.221.808 2008
TYPE OF HPC CELLS										
N° of donations - Autologous			1.264 5 1.239 20							16.498 10.794 5.704
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										
N° of donations - Allogenic			25 5 0 20		1.086					10.228 1.093 4.457 4.678
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW					29					
N° of donations - Related			10 5 5							
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										
N° of donations - Unrelated			15		627					1.093 1.093
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										
N° of transplants - Autologous					1.356				2.951 15 0 2.936	3.961 889 0 3.072
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										
PMP transplants - Autologous					130,6				46,3 0,2 46,1	48,2 10,8 37,4
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										
N° of transplants - Allogenic	151 30 1 120		25 5 0 20		256				1.472 437 246 789	2.042 0 15 2.027
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										
N° of transplants - Related			10 5		34				631 246 9 376	
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										
N° of transplants - Unrelated	151 30 1 120		15		222				841 191 237 413	
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										
PMP transplants - Allogenic	18,1 3,6 0,1 14,4		3,3 0,7 2,6		24,7				23,1 6,9 3,9 12,4	24,8 0 0,2 24,7
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										
Total N. of transplants	151 30 1 120 0		25 5 0 20 0		1.612				4.423 452 246 3.725 0	6.003 889 15 5.099 0
BONE MARROW										
CORD BLOOD										
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										





PRELIMINARY DATA ON HPC CELLS

EUROPEAN UNION COUNTRIES

Country	GREECE	HUNGARY	IRELAND	ITALY	LATVIA	LITHUANIA	LUXEMBOURG	MALTA	NETHERLANDS	POLAND
Population (Font: eurostat 1.1.2008)	11.214.992	10.045.000	4.419.859	59.578.359	2.270.894	3.366.357	483.799	410.584	16.404.282	38.115.641
Data related to year	2008	NO DATA	NO DATA	2008	NO DATA	2008	NO DATA	NO DATA	NO DATA	2008
TYPE OF HPC CELLS										
N° of donations - Autologous				7		105				
BONE MARROW										
CORD BOOLD				7		105				
PERIPHERAL BLOOD										
PERIPHERAL BLOOD & BONE MARROW										
N° of donations - Allogenic				13.114		0				186
BONE MARROW				456		0				69
CORD BOOLD				11.815		0				80
PERIPHERAL BLOOD				825		0				2
PERIPHERAL BLOOD & BONE MARROW				18		0				35
N° of donations - Related				1.084		0				150
BONE MARROW				268		0				69
CORD BOOLD				298		0				80
PERIPHERAL BLOOD				502		0				1
PERIPHERAL BLOOD & BONE MARROW				16		0				36
N° of donations - Unrelated	0			12.030		0				
BONE MARROW				188		0				
CORD BOOLD				11.517		0				1
PERIPHERAL BLOOD	0			323						35
PERIPHERAL BLOOD & BONE MARROW				2						
N° of transplants - Autologous				2.850		83				
BONE MARROW				63		0				
CORD BOOLD				2.773		83				
PERIPHERAL BLOOD				14						
PERIPHERAL BLOOD & BONE MARROW										
PMP transplants - Autologous				47,8		24,7				
BONE MARROW				1,1						
CORD BOOLD				46,5		24,7				
PERIPHERAL BLOOD				0,2						
PERIPHERAL BLOOD & BONE MARROW										
N° of transplants - Allogenic	61			1.425		51				283
BONE MARROW	8			456		0				106
CORD BOOLD	10			126		0				174
PERIPHERAL BLOOD	43			825		51				3
PERIPHERAL BLOOD & BONE MARROW				18		0				0
N° of transplants - Related				791		11				150
BONE MARROW				268		0				69
CORD BOOLD				5		0				80
PERIPHERAL BLOOD				502		11				1
PERIPHERAL BLOOD & BONE MARROW				16		40				133
N° of transplants - Unrelated	61			634		0				37
BONE MARROW	8			188		0				94
CORD BOOLD	10			121		0				2
PERIPHERAL BLOOD	43			323		40				
PERIPHERAL BLOOD & BONE MARROW				2						
PMP transplants - Allogenic	5,4			23,9		15,1				7,4
BONE MARROW	0,7			7,7		2,8				2,8
CORD BOOLD	0,9			2,1		4,6				4,6
PERIPHERAL BLOOD	3,8			13,8		0,1				0,1
PERIPHERAL BLOOD & BONE MARROW				0,3						
Total N. of transplants	61			4.275		134				283
BONE MARROW	8			519		0				106
CORD BOOLD	10			126		0				174
PERIPHERAL BLOOD	43			3.598		134				3
PERIPHERAL BLOOD & BONE MARROW	0			32		0				0

PRELIMINARY DATA ON HPC CELLS

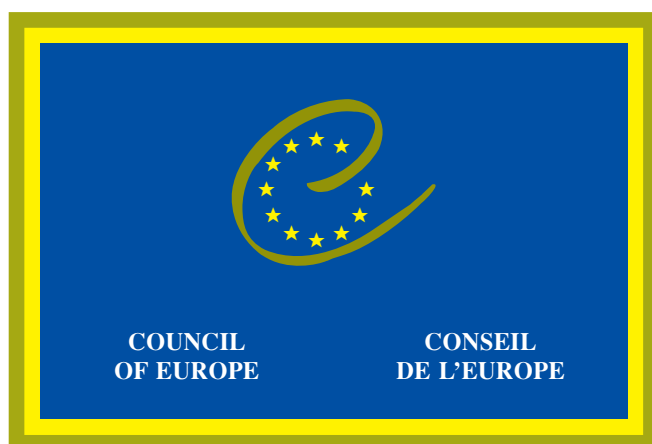
Country Population (Font: eurostat 1.1.2008) Data related to year	EUROPEAN UNION COUNTRIES										OTHER COUNTRIES	
	PORTUGAL 10.617.515 2008	ROMANIA 21.528.627 2008	SLOVAKIA 5.400.998 2008	SLOVENIA 2.025.866 NO DATA	SPAIN 45.283.259 2008	SWEDEN 9.182.927 NO DATA	UNITED KINGDOM 61.270.283 2008	CROATIA 4.435.383 2008	ICELAND 314.321 NO DATA	MACEDONIA 2.045.179 NO DATA		
TYPE OF DATA	TYPE OF HPC CELLS											
N° of donations - Autologous	BONE MARROW	143			1.328		8.997	129				
	CORD BLOOD	0			15		410	1				
	PERIPHERAL BLOOD	0					4.549					
	PERIPHERAL BLOOD & BONE MARROW	143			1.313		4.038	128				
N° of donations - Allogenic	BONE MARROW	37	500		788		5.727	23				
	CORD BLOOD	0	0		131		402	15				
	PERIPHERAL BLOOD	0	500		138		3.583	0				
	PERIPHERAL BLOOD & BONE MARROW	37	0		519		1.792	8				
N° of donations - Related	BONE MARROW	37	19		474		908	21				
	CORD BLOOD	0	0		72		143	13				
	PERIPHERAL BLOOD	0	19		3		93					
	PERIPHERAL BLOOD & BONE MARROW	37	0		399		672	8				
N° of donations - Unrelated	BONE MARROW	0	481		314		4.819	2				
	CORD BLOOD	0	0		59		259	2				
	PERIPHERAL BLOOD	0	481		135		3.440					
	PERIPHERAL BLOOD & BONE MARROW	0	0		120		1.120	0				
N° of transplants - Autologous	BONE MARROW	259	92		1.328		2.265	130				
	CORD BLOOD	3	0		15		240	0				
	PERIPHERAL BLOOD	1	0				0					
	PERIPHERAL BLOOD & BONE MARROW	255	92		1.313		2.025	130				
PMP transplants - Autologous	BONE MARROW	24,4	4,3		29,3		37,0	29,3				
	CORD BLOOD	0,3			0,3		3,9					
	PERIPHERAL BLOOD	0,1										
	PERIPHERAL BLOOD & BONE MARROW	24,0	4,3		29,0		33,1	29,3				
N° of transplants - Allogenic	BONE MARROW	120	24		788		1.490	27				
	CORD BLOOD	25	0		131		262	18				
	PERIPHERAL BLOOD	7	0		138		133	0				
	PERIPHERAL BLOOD & BONE MARROW	88	24		519		1.095	9				
N° of transplants - Related	BONE MARROW	80	24		474		644	26				
	CORD BLOOD	18	0		72		139	17				
	PERIPHERAL BLOOD	4	0		3		7					
	PERIPHERAL BLOOD & BONE MARROW	58	24		399		498	9				
N° of transplants - Unrelated	BONE MARROW	40	0		314		846	1				
	CORD BLOOD	7	0		59		123	1				
	PERIPHERAL BLOOD	3	0		135		126					
	PERIPHERAL BLOOD & BONE MARROW	30	0		120		597	0				
PMP transplants - Allogenic	BONE MARROW	11,3	1,1		17,4		24,3	6,1				
	CORD BLOOD	2,4			2,9		4,3	4,1				
	PERIPHERAL BLOOD	0,7			3,0		2,2					
	PERIPHERAL BLOOD & BONE MARROW	8,3	1,1		11,5		17,9	2,0				
Total N. of transplants	BONE MARROW	379	116		2.116		3.755	157				
	CORD BLOOD	28	0		146		502	18				
	PERIPHERAL BLOOD	8	0		138		133	0				
	PERIPHERAL BLOOD & BONE MARROW	343	116		1.832		3.120	139				





PRELIMINARY DATA ON HPC CELLS

OTHER COUNTRIES					LATINAMERICAN COUNTRIES					
Country	Population (Font: eurostat 1.1.2008)	NORWAY	SWITZERLAND	TURKEY	ARGENTINA	CUBA	MEXICO	PANAMA	URUGUAY	VENEZUELA
Data related to year		4.737.171	7.591.414	70.586.256	39.745.593	11.236.790	106.680.000	3.300.000	3.323.906	27.930.000
TYPE OF DATA	TYPE OF HPC CELLS	NO DATA	NO DATA	2008	2008	2008	2008	2008	2008	2008
N° of donations - Autologous	BONE MARROW			554						
	CORD BLOOD			9						
	PERIPHERAL BLOOD			0						
	PERIPHERAL BLOOD & BONE MARROW			545						
N° of donations - Allogenic	BONE MARROW			418						
	CORD BLOOD			85						
	PERIPHERAL BLOOD			8						
	PERIPHERAL BLOOD & BONE MARROW			325						
N° of donations - Related	BONE MARROW			406						
	CORD BLOOD			83						
	PERIPHERAL BLOOD			7						
	PERIPHERAL BLOOD & BONE MARROW			316						
N° of donations - Unrelated	BONE MARROW			12						
	CORD BLOOD			2						
	PERIPHERAL BLOOD			1						
	PERIPHERAL BLOOD & BONE MARROW			9						
N° of transplants - Autologous	BONE MARROW			576	409	14			79	55
	CORD BLOOD			9						
	PERIPHERAL BLOOD			0						
	PERIPHERAL BLOOD & BONE MARROW			567						
PMP transplants - Autologous	BONE MARROW			8,2						
	CORD BLOOD			0,1						
	PERIPHERAL BLOOD			8,0						
	PERIPHERAL BLOOD & BONE MARROW									
N° of transplants - Allogenic	BONE MARROW			418						
	CORD BLOOD			85						
	PERIPHERAL BLOOD			8						
	PERIPHERAL BLOOD & BONE MARROW			325						
N° of transplants - Related	BONE MARROW			406	142	8		8	15	16
	CORD BLOOD			83						
	PERIPHERAL BLOOD			7						
	PERIPHERAL BLOOD & BONE MARROW			316						
N° of transplants - Unrelated	BONE MARROW			12	41	0			2	6
	CORD BLOOD			2						
	PERIPHERAL BLOOD			1						
	PERIPHERAL BLOOD & BONE MARROW			9						
PMP transplants - Allogenic	BONE MARROW			5,9						
	CORD BLOOD			1,2						
	PERIPHERAL BLOOD			0,1						
	PERIPHERAL BLOOD & BONE MARROW			4,6						
Total N. of transplants	BONE MARROW			994	592	22	184	8	96	77
	CORD BLOOD			94			72			
	PERIPHERAL BLOOD			8			93			
	PERIPHERAL BLOOD & BONE MARROW			892			19			
				0			0			



**“The Declaration of Istanbul
on Organ Trafficking and
Transplant Tourism”.
Year 2008**



THE DECLARATION OF ISTANBUL on Organ Trafficking and Transplant Tourism

*Participants in the International Summit on Transplant Tourism and Organ Trafficking
convened by The Transplantation Society and International Society of Nephrology
in Istanbul, Turkey, April 30–May 2, 2008**



PREAMBLE

Organ transplantation, one of the medical miracles of the twentieth century, has prolonged and improved the lives of hundreds of thousands of patients worldwide. The many great scientific and clinical advances of dedicated health professionals, as well as countless acts of generosity by organ donors and their families, have made transplantation not only a life-saving therapy but a shining symbol of human solidarity. Yet these accomplishments have been tarnished by numerous reports of trafficking in human beings who are used as sources of organs and of patient-tourists from rich countries who travel abroad to purchase organs from poor people. In 2004, the World Health Organization, called on member states “to take measures to protect the poorest and vulnerable groups from transplant tourism and the sale of tissues and organs, including attention to the wider problem of international trafficking in human tissues and organs” (1).

To address the urgent and growing problems of organ sales, transplant tourism and trafficking in organ donors in the context of the global shortage of organs, a Summit Meeting of more than 150 representatives of scientific and medical bodies from around the world, government officials, social scientists, and ethicists, was held in Istanbul from April 30 to May 2, 2008. Preparatory work for the meeting was undertaken by a Steering Committee convened by The Transplantation Society (TTS) and the International Society of Nephrology (ISN) in Dubai in December 2007. That committee’s draft declaration was widely circulated and then revised in light of the comments received. At the Summit, the revised draft was reviewed by working groups and finalized in plenary deliberations.

This Declaration represents the consensus of the Summit participants. All countries need a legal and

professional framework to govern organ donation and transplantation activities, as well as a transparent regulatory oversight system that ensures donor and recipient safety and the enforcement of standards and prohibitions on unethical practices.

Unethical practices are, in part, an undesirable consequence of the global shortage of organs for transplantation. Thus, each country should strive both to ensure that programs to prevent organ failure are implemented and to provide organs to meet the transplant needs of its residents from donors within its own population or through regional cooperation. The therapeutic potential of deceased organ donation should be maximized not only for kidneys but also for other organs, appropriate to the transplantation needs of each country. Efforts to initiate or enhance deceased donor transplantation are essential to minimize the burden on living donors. Educational programs are useful in addressing the barriers, misconceptions and mistrust that currently impede the development of sufficient deceased donor transplantation; successful transplant programs also depend on the existence of the relevant health system infrastructure.

Access to healthcare is a human right but often not a reality. The provision of care for living donors before, during and after surgery—as described in the reports of the international forums organized by TTS in Amsterdam and Vancouver (2-4)—is no less essential than taking care of the transplant recipient. A positive outcome for a recipient can never justify harm to a live donor; on the contrary, for a transplant with a live donor to be regarded as a success means that both the recipient and the donor have done well.

This Declaration builds on the principles of the Universal Declaration of Human Rights (5). The



broad representation at the Istanbul Summit reflects the importance of international collaboration and global consensus to improve donation and transplantation practices. The Declaration will be submitted to relevant professional organizations and to the health authorities of all countries for consideration. The legacy of transplantation must not be the impoverished victims of organ trafficking and transplant tourism but rather a celebration of the gift of health by one individual to another.

DEFINITIONS

Organ trafficking is the recruitment, transport, transfer, harboring or receipt of living or deceased persons or their organs by means of the threat or use of force or other forms of coercion, of abduction, of fraud, of deception, of the abuse of power or of a position of vulnerability, or of the giving to, or the receiving by, a third party of payments or benefits to achieve the transfer of control over the potential donor, for the purpose of exploitation by the removal of organs for transplantation (6).

Transplant commercialism is a policy or practice in which an organ is treated as a commodity, including by being bought or sold or used for material gain.

Travel for transplantation is the movement of organs, donors, recipients or transplant professionals across jurisdictional borders for transplantation purposes. Travel for transplantation becomes **transplant tourism** if it involves organ trafficking and/or transplant commercialism or if the resources (organs, professionals and transplant centers) devoted to providing transplants to patients from outside a country undermine the country's ability to provide transplant services for its own population.

PRINCIPLES

1. National governments, working in collaboration with international and non-governmental organizations, should develop and implement comprehensive programs for the screening, prevention and treatment of organ failure, which include:
 - a. The advancement of clinical and basic science research;
 - b. Effective programs, based on international guidelines, to treat and maintain patients

with end-stage diseases, such as dialysis programs for renal patients, to minimize morbidity and mortality, alongside transplant programs for such diseases;

- c. Organ transplantation as the preferred treatment for organ failure for medically suitable recipients.
2. Legislation should be developed and implemented by each country or jurisdiction to govern the recovery of organs from deceased and living donors and the practice of transplantation, consistent with international standards:
 - a. Policies and procedures should be developed and implemented to maximize the number of organs available for transplantation, consistent with these principles;
 - b. The practice of donation and transplantation requires oversight and accountability by health authorities in each country to ensure transparency and safety;
 - c. Oversight requires a national or regional registry to record deceased and living donor transplants;
 - d. Key components of effective programs include public education and awareness, health professional education and training, and defined responsibilities and accountabilities for all stakeholders in the national organ donation and transplant system.
 3. Organs for transplantation should be equitably allocated within countries or jurisdictions to suitable recipients without regard to gender, ethnicity, religion, or social or financial status:
 - a. Financial considerations or material gain of any party must not influence the application of relevant allocation rules.
 4. The primary objective of transplant policies and programs should be optimal short- and long-term medical care to promote the health of both donors and recipients:
 - a. Financial considerations or material gain of any party must not override primary consideration for the health and well-being of donors and recipients.



5. Jurisdictions, countries and regions should strive to achieve self-sufficiency in organ donation by providing a sufficient number of organs for residents in need from within the country or through regional cooperation:
 - a. Collaboration between countries is not inconsistent with national self-sufficiency as long as the collaboration protects the vulnerable, promotes equality between donor and recipient populations, and does not violate these principles;
 - b. Treatment of patients from outside the country or jurisdiction is only acceptable if it does not undermine a country's ability to provide transplant services for its own population.
6. Organ trafficking and transplant tourism violate the principles of equity, justice and respect for human dignity and should be prohibited. Because transplant commercialism targets impoverished and otherwise vulnerable donors, it leads inexorably to inequity and injustice and should be prohibited. In Resolution 44.25, the World Health Assembly called on countries to prevent the purchase and sale of human organs for transplantation:
 - a. Prohibitions on these practices should include a ban on all types of advertising (including electronic and print media), soliciting, or brokering for the purpose of transplant commercialism, organ trafficking, or transplant tourism.
 - b. Such prohibitions should also include penalties for acts —such as medically screening donors or organs, or transplanting organs— that aid, encourage, or use the products of, organ trafficking or transplant tourism.
 - c. Practices that induce vulnerable individuals or groups (such as illiterate and impoverished persons, undocumented immigrants, prisoners, and political or economic refugees) to become living donors are incompatible with the aim of combating organ trafficking, transplant tourism and transplant commercialism.

PROPOSALS

Consistent with these principles, participants in the Istanbul Summit suggest the following strategies to

increase the donor pool and to prevent organ trafficking, transplant commercialism and transplant tourism and to encourage legitimate, life-saving transplantation programs:

To respond to the need to increase deceased donation:

1. Governments, in collaboration with health care institutions, professionals, and non-governmental organizations should take appropriate actions to increase deceased organ donation. Measures should be taken to remove obstacles and disincentives to deceased organ donation.
2. In countries without established deceased organ donation or transplantation, national legislation should be enacted that would initiate deceased organ donation and create transplantation infrastructure, so as to fulfill each country's deceased donor potential.
3. In all countries in which deceased organ donation has been initiated, the therapeutic potential of deceased organ donation and transplantation should be maximized.
4. Countries with well established deceased donor transplant programs are encouraged to share information, expertise and technology with countries seeking to improve their organ donation efforts.

To ensure the protection and safety of living donors and appropriate recognition for their heroic act while combating transplant tourism, organ trafficking and transplant commercialism:

1. The act of donation should be regarded as heroic and honored as such by representatives of the government and civil society organizations.
2. The determination of the medical and psychosocial suitability of the living donor should be guided by the recommendations of the Amsterdam and Vancouver Forums (2-4):
 - a. Mechanisms for informed consent should incorporate provisions for evaluating the donor's understanding, including assessment of the psychological impact of the process;
 - b. All donors should undergo psychosocial evaluation by mental health professionals during screening.



3. The care of organ donors, including those who have been victims of organ trafficking, transplant commercialism, and transplant tourism, is a critical responsibility of all jurisdictions that sanctioned organ transplants utilizing such practices.
 4. Systems and structures should ensure standardization, transparency and accountability of support for donation:
 - a. Mechanisms for transparency of process and follow-up should be established;
 - b. Informed consent should be obtained both for donation and for follow-up processes.
 5. Provision of care includes medical and psychosocial care at the time of donation and for any short- and long-term consequences related to organ donation:
 - a. In jurisdictions and countries that lack universal health insurance, the provision of disability, life, and health insurance related to the donation event is a necessary requirement in providing care for the donor;
 - b. In those jurisdictions that have universal health insurance, governmental services should ensure donors have access to appropriate medical care related to the donation event;
 - c. Health and/or life insurance coverage and employment opportunities of persons who donate organs should not be compromised;
 - d. All donors should be offered psychosocial services as a standard component of follow-up;
 - e. In the event of organ failure in the donor, the donor should receive:
 - i. Supportive medical care, including dialysis for those with renal failure, and
 - ii. Priority for access to transplantation, integrated into existing allocation rules as they apply to either living or deceased organ transplantation.
 6. Comprehensive reimbursement of the actual, documented costs of donating an organ does not constitute a payment for an organ, but is rather part of the legitimate costs of treating the recipient:
 - a. Such cost-reimbursement would usually be made by the party responsible for the costs of treating the transplant recipient (such as a government health department or a health insurer);
 - b. Relevant costs and expenses should be calculated and administered using transparent methodology, consistent with national norms;
 - c. Reimbursement of approved costs should be made directly to the party supplying the service (such as to the hospital that provided the donor's medical care);
 - d. Reimbursement of the donor's lost income and out-of-pocket expenses should be administered by the agency handling the transplant rather than paid directly from the recipient to the donor.
 7. Legitimate expenses that may be reimbursed when documented include:
 - a. the cost of any medical and psychological evaluations of potential living donors who are excluded from donation (e.g., because of medical or immunologic issues discovered during the evaluation process);
 - b. costs incurred in arranging and effecting the pre-, peri- and post-operative phases of the donation process (e.g., long-distance telephone calls, travel, accommodation and subsistence expenses);
 - c. medical expenses incurred for post-discharge care of the donor;
 - d. lost income in relation to donation (consistent with national norms).
- ## REFERENCES
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5. Universal Declaration of Human Rights, adopted by the UN General Assembly on December 10, 1948, <http://www.un.org/Overview/rights.html>.

6. Based on Article 3a of the Protocol to Prevent, Suppress and Punish Trafficking in Persons, Especially Women and Children, Supplementing the United Nations Convention Against Transnational Organized Crime, http://www.uncjin.org/Documents/Conventions/dcatoc/final_documents_2/convention_%20traff_eng.pdf.



The Participants in the International Summit on Transplant Tourism and Organ Trafficking and the manner in which they were chosen and the meeting was organized were as follows:

PROCESS AND PARTICIPANT SELECTION

Steering Committee:

The Steering Committee was selected by an Organizing Committee consisting of Mona Alrukhami, Jeremy Chapman, Francis Delmonico, Mohamed Sayegh, Faissal Shaheen, and Annika Tibell.

The Steering Committee was composed of leadership from The Transplantation Society, including its President-elect and the Chair of its Ethics Committee, and the International Society of Nephrology, including its Vice President and individuals holding Council positions. The Steering Committee had representation from each of the continental regions of the globe with transplantation programs.

The mission of the Steering Committee was to draft a Declaration for consideration by a diverse group of participants at the Istanbul Summit. The Steering Committee also had the responsibility to develop the list of participants to be invited to the Summit meeting.

Istanbul Participant Selection:

Participants at the Istanbul Summit were selected by the Steering Committee according to the following considerations:

- The country liaisons of The Transplantation Society representing virtually all countries with transplantation programs;
- Representatives from international societies and the Vatican;

- Individuals holding leadership positions in nephrology and transplantation;
- Stakeholders in the public policy aspect of organ transplantation; and
- Ethicists, anthropologists, sociologists, and legal scholars well-recognized for their writings regarding transplantation policy and practice.

No person or group was polled with respect to their opinion, practice, or philosophy prior to the Steering Committee selection or the Istanbul Summit.

After the proposed group of participants was prepared and reviewed by the Steering Committee, they were sent an letter of invitation to the Istanbul Summit, which included the following components:

- the mission of the Steering Committee to draft a Declaration for all Istanbul participants' consideration;
- the agenda and work group format of the Summit;
- the procedure for the selection of participants;
- the work group topics;
- an invitation to the participants to indicate their work group preferences;
- the intent to communicate a draft and other materials before the Summit convened;
- the Summit goals to assemble a final Declaration that could achieve consensus and



would address the issues of organ trafficking, transplant tourism and commercialism, and provide principles of practice and recommended alternatives to address the shortage of organs;

- an acknowledgment of the funding provided by Astellas Pharmaceuticals for the Summit;
- provision of hotel accommodations and travel for all invited participants.

Of approximately 170 persons invited, 160 agreed to participate and 152 were able to attend the Summit in Istanbul on April 30-May 2, 2008. Because work on the Declaration at the Summit was to be carried out by dividing the draft document into separate parts, Summit invitees were assigned to a work group topic based on their response concerning the particular topics on which they wished to focus their attention before and during the Summit.

Preparation of the Declaration:

The draft Declaration prepared by the Steering Committee was furnished to all participants with ample time for appraisal and response prior to the Summit. The comments and suggestions received in advance were reviewed by the Steering

Committee and given to leaders of the appropriate work group at the Summit. (Work group leaders were selected and assigned from the Steering Committee.)

The Summit meeting was formatted so that breakout sessions of the work groups could consider the written responses received from participants prior to the Summit as well as comments from each of the work group participants. The work groups elaborated these ideas as proposed additions to and revisions of the draft. When the Summit reconvened in plenary session, the Chairs of each work group presented the outcome of their breakout session to all Summit participants for discussion. During this process of review, the wording of each section of the Declaration was displayed on a screen before the plenary participants and was modified in light of their comments until consensus was reached on each point.

The content of the Declaration is derived from the consensus that was reached by the participants at the Summit in the plenary sessions which took place on May 1 and 2, 2008. A formatting group was assembled immediately after the Summit to address punctuation, grammatical and related concerns and to record the Declaration in its finished form.

PARTICIPANTS IN THE ISTANBUL SUMMIT

Last Name	First Name	Country
Abboud	Omar	Sudan
*Abbud-Filho	Mario	Brazil
Abdramanov	Kaldarbek	Kyrgyzstan
Abdulla	Sadiq	Bahrain
Abraham	Georgi	India
Abueva	Amihan V.	Philippines
Aderibigbe	Ademola	Nigeria
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Alberu	Josefina	Mexico
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Almazán-Gómez	Lynn C.	Philippines
Alnono	Ibrahim	Yemen
*Alobaidli	Ali Abdulkareem	United Arab Emirates
*Alrukhaimi	Mona	United Arab Emirates
Álvarez	Inés	Uruguay
Assad	Lina	Saudi Arabia
Assounga	Alain G.	South Africa
Baez	Yenny	Colombia
*Bagheri	Alireza	Iran
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Bamgboye	Ebun	Nigeria
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Cole	Edward	Canada
Cozzi	Emanuele	Italy
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Glitz	Denis	France
Gopalakrishnan	Ganesh	India
Gracida	Carmen	Mexico
Grinyo	Josep	Spain
Ha	Jongwon	South Korea
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Hakim	Nadey	United Kingdom
Harmon	William	USA
Hasegawa	Tomonori	Japan
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Hickey	David	Ireland
Hiesse	Christian	France
Hongji	Yang	People's Republic of China
Humar	Inés	Croatia
Hurtado	Abdias	Peru
Ismail Moustafa	Wesam	Egypt
Ivanovski	Ninoslav	Macedonia
*Jha	Vivekanand	India
Kahn	Delawir	South Africa
Kamel	Refaat	Egypt
Kirpalani	Ashok	India
Kirste	Guenter	Germany
*Kobayashi	Eiji	Japan
Koller	Jan	Slovakia
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*Lameire	Norbert	Belgium
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Lõhmus	Aleksander	Estonia
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McNeil	Adrian	United Kingdom
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Meši	Enisa	Bosnia
Moazam	Farhat	Pakistan

Last Name	First Name	Country
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Young	Kimberly	Canada
Yuldashev	Ulugbek	Uzbekistan
Zhao	Minggang	People's Republic of China

* = Members of the Steering Committee. (William Couser, USA, was also a member of the Steering Committee but was unable to attend the Summit.)



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