

Vol. 18 • Nº 1 • SEPTEMBER • 2013

2013



INTERNATIONAL FIGURES ON
DONATION AND TRANSPLANTATION - 2012

NEWSLETTER TRANSPLANT



GOBIERNO
DE ESPAÑA

MINISTERIO
DE SANIDAD, SERVICIOS SOCIALES
E IGUALDAD



INTERNATIONAL FIGURES ON ORGAN, TISSUE & HEMATOPOIETIC STEM CELL DONATION & TRANSPLANTATION ACTIVITIES. DOCUMENTS PRODUCED BY THE COUNCIL OF EUROPE EUROPEAN COMMITTEE (PARTIAL AGREEMENT) ON ORGAN TRANSPLANTATION (CD-P-TO). YEAR 2012

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NEWSLETTER

TRANSPLANT 2013



CONTENTS

• International Figures On Organ Donation And Transplantation Activity. Year 2012	3
• International Data On Organ Donation And Transplantation Activity, Waiting Lists and Family Refusals. Year 2012	33
• International Data On Tissue And Hematopoietic Stem Cell Donation And Transplantation Activity. Year 2012	49
• Council Of Europe Convention, Resolutions, Recommendations And Reports	63
• Survey On The Implementation Of Council Of Europe Recommendation Rec (2004) 8 Of The Committee Of Ministers To Member States On Autologous Cord Blood Banks	67

FOR THE PURPOSES OF THIS NEWSLETTER THE FOLLOWING DEFINITIONS WERE USED:

Actual deceased organ donor

An actual deceased organ donor is a person from whom at least one organ has been recovered for the purpose of transplantation, in contrast to a utilised donor, who is an actual donor from whom at least one organ has been transplanted. The number of utilised donors is therefore lower or equal than the number of actual donors.

Donor after brain death

A donor after brain death (DBD) is a deceased organ donor in whom death has been determined by neurologic criteria.

Donor after circulatory death

A donor after circulatory death (DCD) is a deceased organ donor in whom death has been determined by circulatory and respiratory criteria.

Multiorgan donor

A multiorgan donor is an actual donor from whom at least two different types of organs have been recovered for the purpose of transplantation.

Total TX. (all combinations included)

Includes the transplantation of the corresponding organ with or without the simultaneous transplant of a different type of organ(s).

Double-kidney TX.

One double-kidney TX. is counted as 1 TX.

TX. from living donors

A living donor is a living human being from whom organs have been recovered for the purpose of transplantation. A Living Donor has one of the following three possible relationships with the recipient:

A/ Related:

A1/ Genetically Related:

1st Degree Genetic Relative: Parent, Sibling, Offspring

2nd Degree genetic relative, e.g. grandparent, grandchild, aunt, uncle, niece, nephew,

Other than 1st or 2nd degree genetically related, for example cousin

A2/ Emotionally Related: Spouse (if not genetically related); in-laws; Adopted; Friend

B/ Unrelated = Non Related: Not Genetically or Emotionally Related

Heart-lung TX.

One heart-lung TX. is counted as 1 lung TX., 1 heart TX. and 1 heart-lung TX.

Double-lung TX.

One double-lung TX. is counted as 1 TX.

Total number of patients transplanted

For more than one organ transplanted into the same recipient: kidney-liver-heart TX. = counted as one recipient.

Absolute number

Include all figures corresponding to all donors/ patients adults and children.

Paediatric

Includes only paediatric activity (patients aged < 15 years).

Waiting List

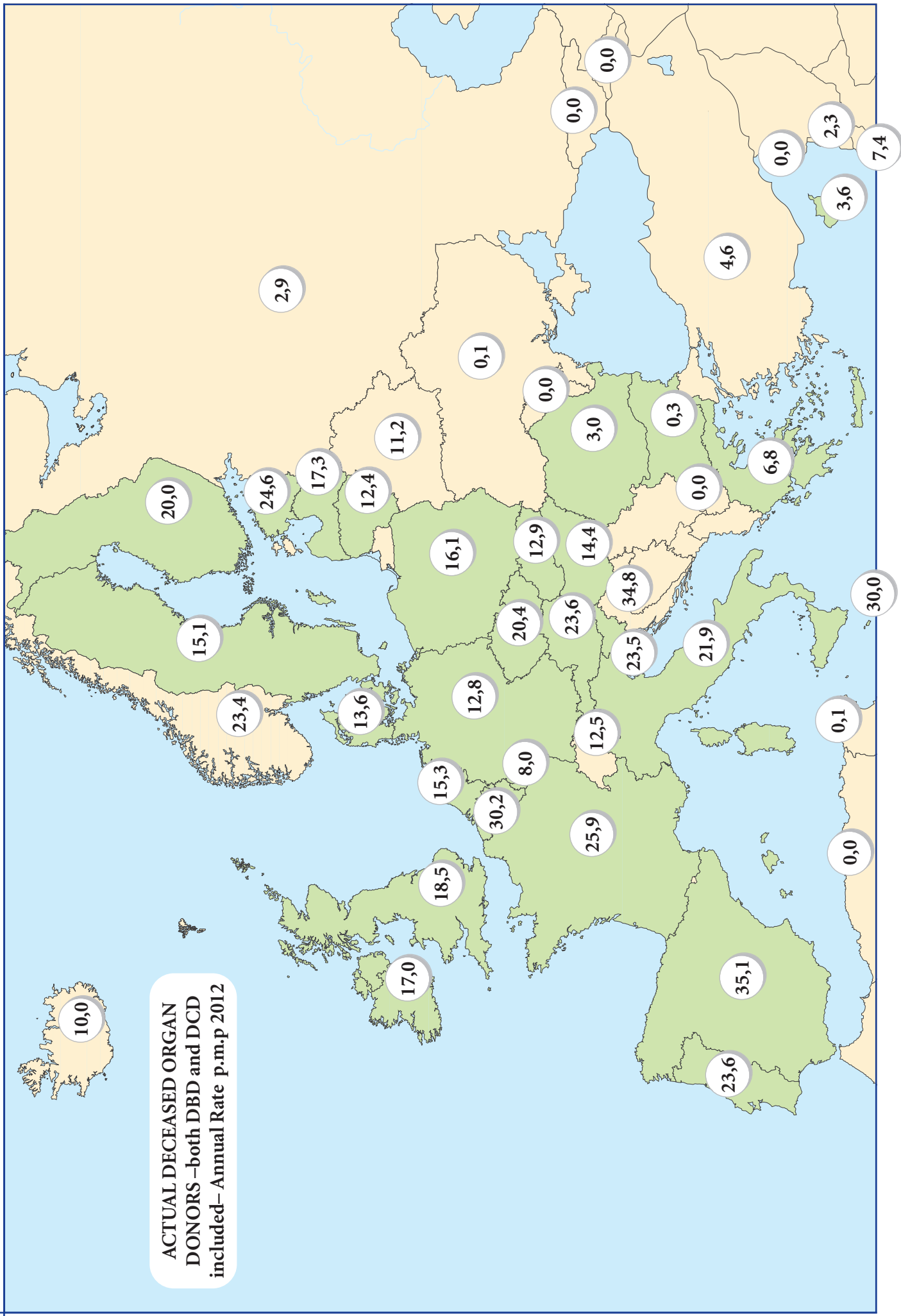
Example: At 1/1/2011 there were 200 patients active on the WL. Along the year, 100 patients are newly included on the WL (first row). In total, 300 patients have been ever active on the WL during the year (second row). Along the year, 200 patients were transplanted (number recorded in a different questionnaire), 50 patients remain active at the end of the year (third row), 25 patients died (fourth row) and 25 patients were excluded (number not to be reported, but derived from previous figures).

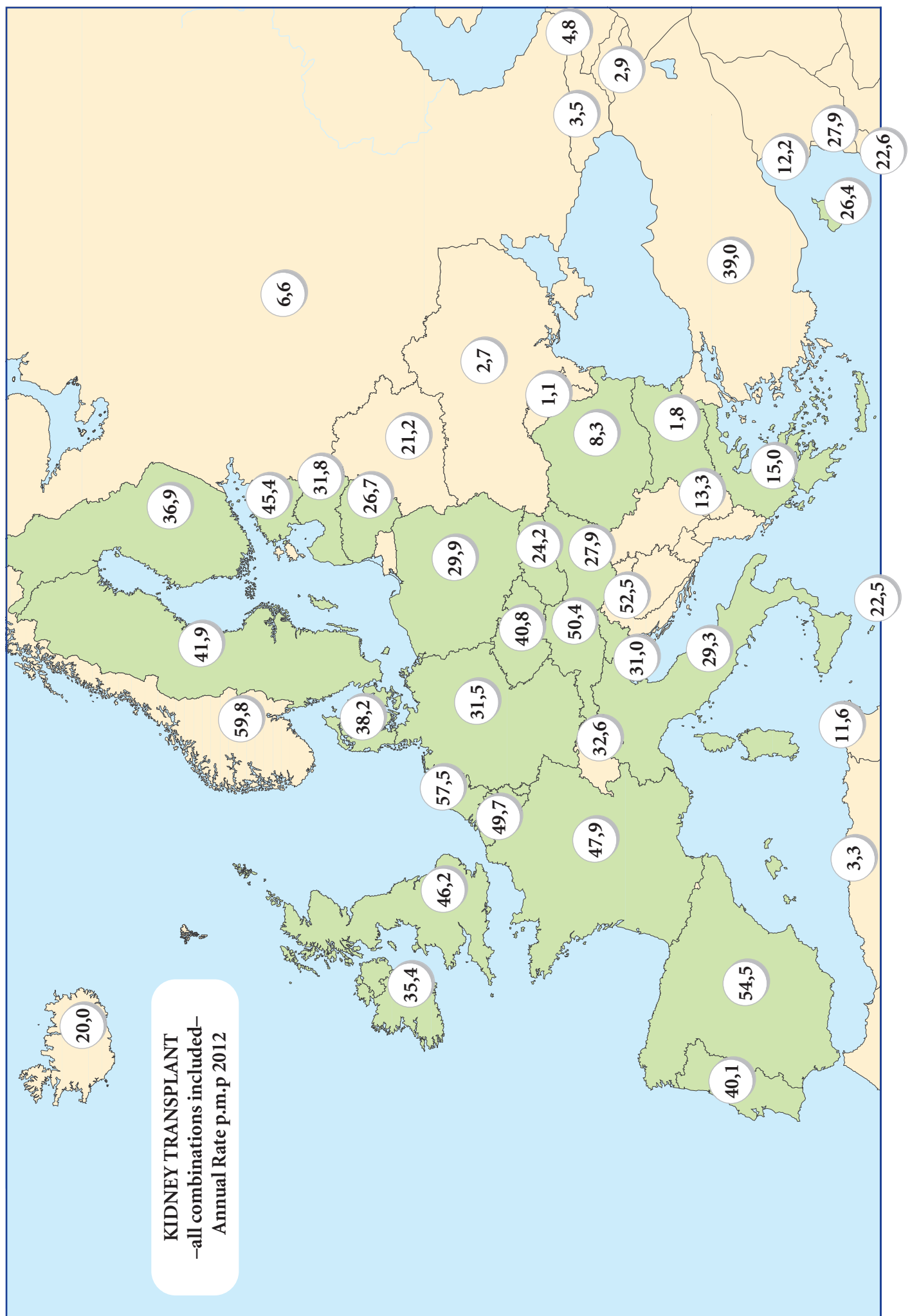
Patients included on the WL for the first time in the course of 2011	100
Total number of patients ever active on the WL during 2011	300
Patients awaiting for a transplant (only active candidates) on 31/12/2011	50
Patients who died while on the WL during 2011	25

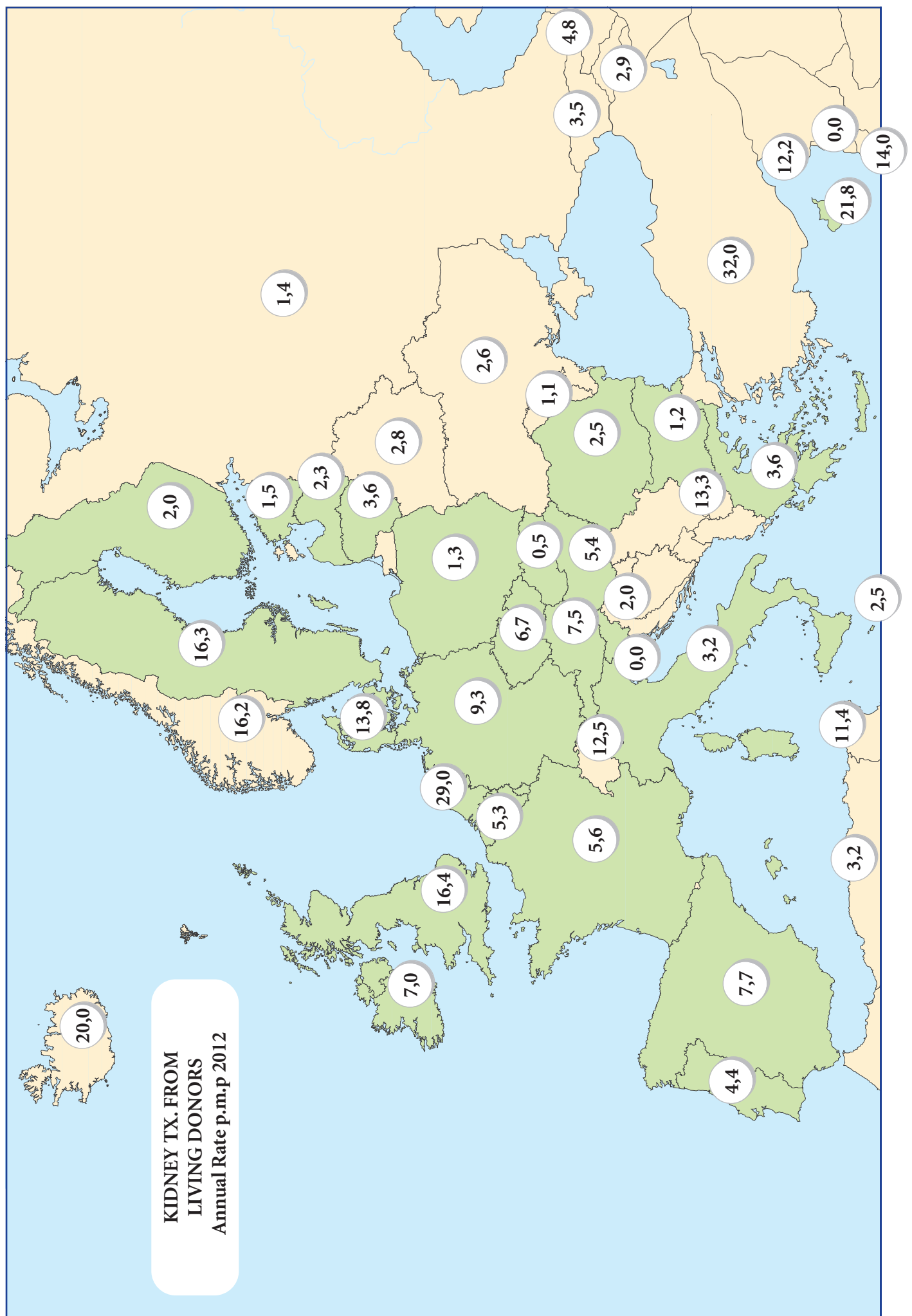
(*The United Nations Fund report (UNFPA: <http://www.unfpa.org/public/>) is used as the data source for estimates of population size)

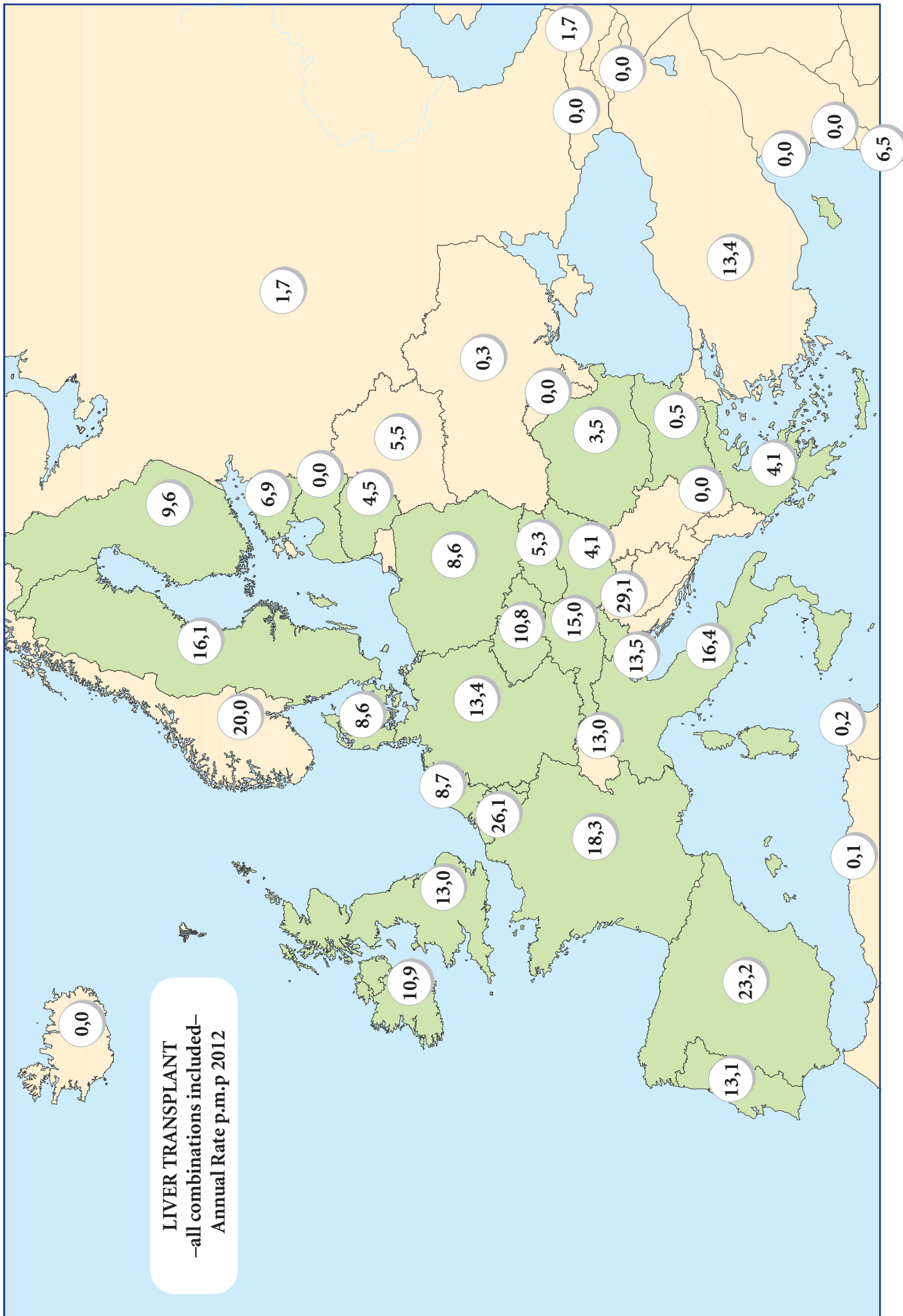
International Figures On Organ Donation And Transplantation Activity. Year 2012











EUROPEAN UNION DATA

Kidney Transplants	Liver Transplants	Heart Transplants	Lung Transplants	Pancreas Transplants	Small Bowel Transplants	Patients Transplanted
18854 (21,0% LD)	6845 (3,6% LD)	1960	1756	825	34	30274

9637 ACTUAL DECEASED ORGAN DONORS (both DBD and DCD included)

*2012 data
N= 27 COUNTRIES (503,1 million inhabitants)

Population (million inhabitants): UNFPA

Actual deceased organ donors - both DBD and DCD included- TX. from deceased donors	Number	PMP
KIDNEY TX. from deceased donors	542	15,6
LIVER TX. from living donors	471	13,6
HEART Total TX. -all combinations included-	488	14,1
HEART-LUNG Total TX.	172	5,0
LUNG Total TX. -all combinations included-	3	0,1
PANCREAS Total TX. -all combinations included-	194	5,6
SMALL BOWEL Total TX. -all combinations included-	72	2,1
RECIPIENTS Total number of patients transplanted	0	0,0
	2264	65,2

34,7

Number PMP

Population (million inhabitants): UNFPA

Actual deceased organ donors - both DBD and DCD included- TX. from deceased donors	Number	PMP
KIDNEY TX. from deceased donors	354	15,5
LIVER TX. from living donors	606	26,5
HEART Total TX. -all combinations included-	237	10,3
HEART-LUNG Total TX.	231	10,1
LUNG Total TX. -all combinations included-	76	3,3
PANCREAS Total TX. -all combinations included-	4	0,2
SMALL BOWEL Total TX. -all combinations included-	148	6,5
RECIPIENTS Total number of patients transplanted	38	1,7
	1	0,0
	1293	56,5

22,9

Number PMP

Population (million inhabitants): UNFPA

Actual deceased organ donors - both DBD and DCD included- TX. from deceased donors	Number	PMP
KIDNEY TX. from deceased donors	8143	25,8
LIVER TX. from living donors	11669	37,0
HEART Total TX. -all combinations included-	5617	17,8
HEART-LUNG Total TX.	6256	19,8
LUNG Total TX. -all combinations included-	2407	7,6
PANCREAS Total TX. -all combinations included-	29	0,1
SMALL BOWEL Total TX. -all combinations included-	1783	5,6
RECIPIENTS Total number of patients transplanted	1043	3,3
	106	0,3
	27211	86,2

315,8

Number PMP

Population (million inhabitants): UNFPA

Actual deceased organ donors - both DBD and DCD included- TX. from deceased donors	Number	PMP
KIDNEY TX. from deceased donors	38	8,4
LIVER TX. from living donors	54	12,0
HEART Total TX. -all combinations included-	54	12,0
HEART-LUNG Total TX.	35	7,8
LUNG Total TX. -all combinations included-	12	2,7
PANCREAS Total TX. -all combinations included-	0	0,0
SMALL BOWEL Total TX. -all combinations included-	12	2,7
RECIPIENTS Total number of patients transplanted	3	0,7
	0	0,0
	170	37,8

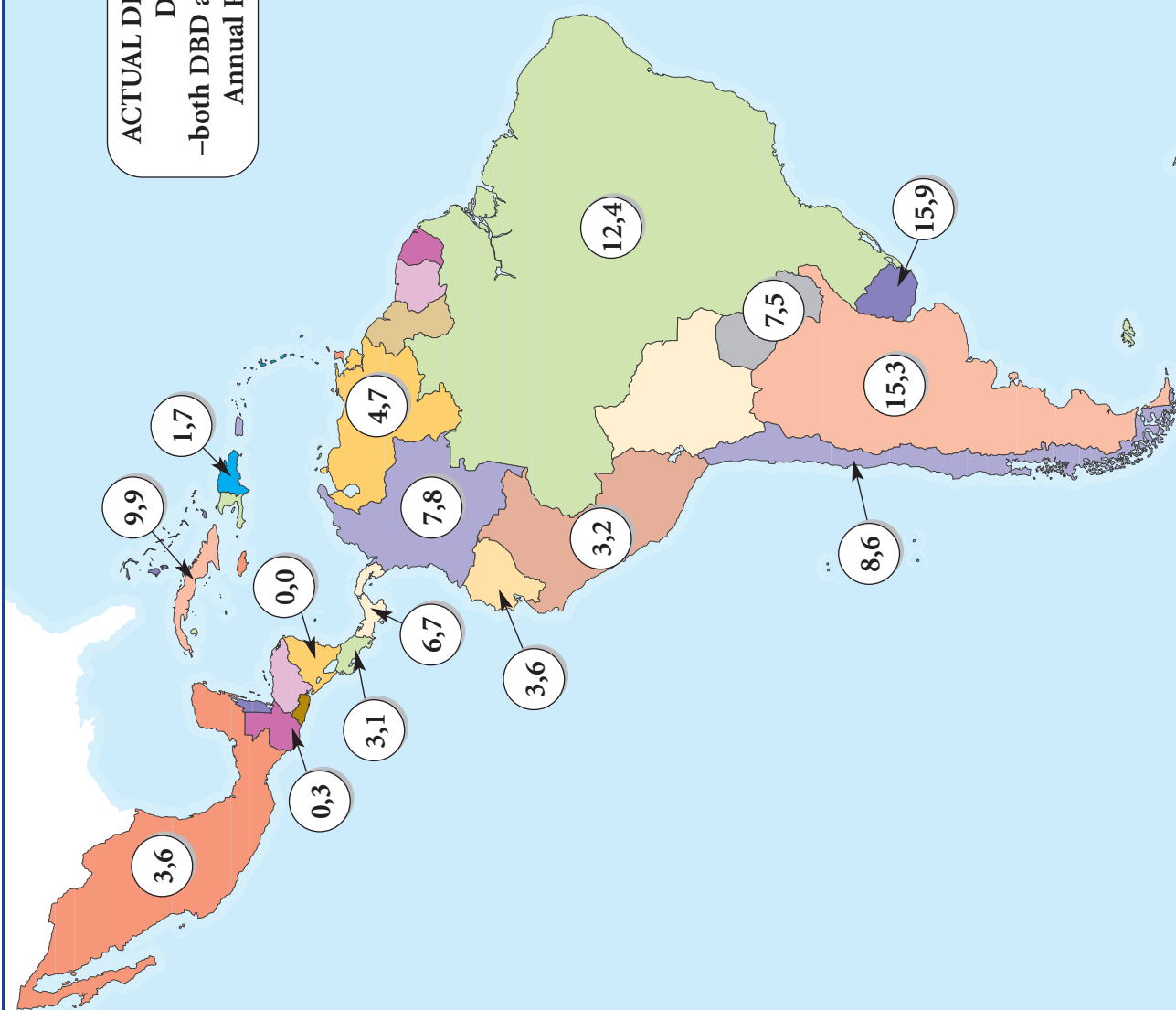
4,5

Number PMP

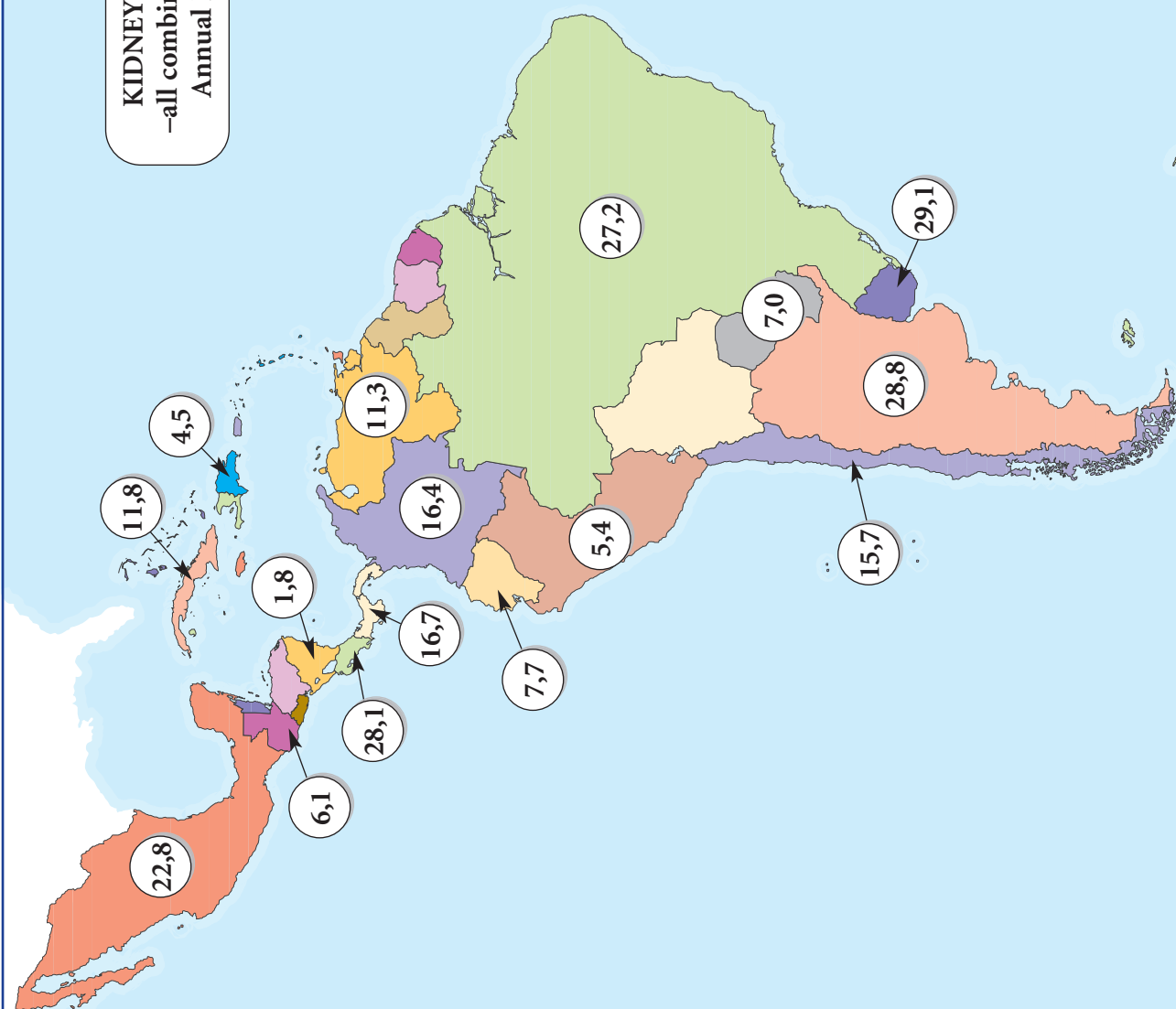
AUSTRALIA

NEW ZEALAND

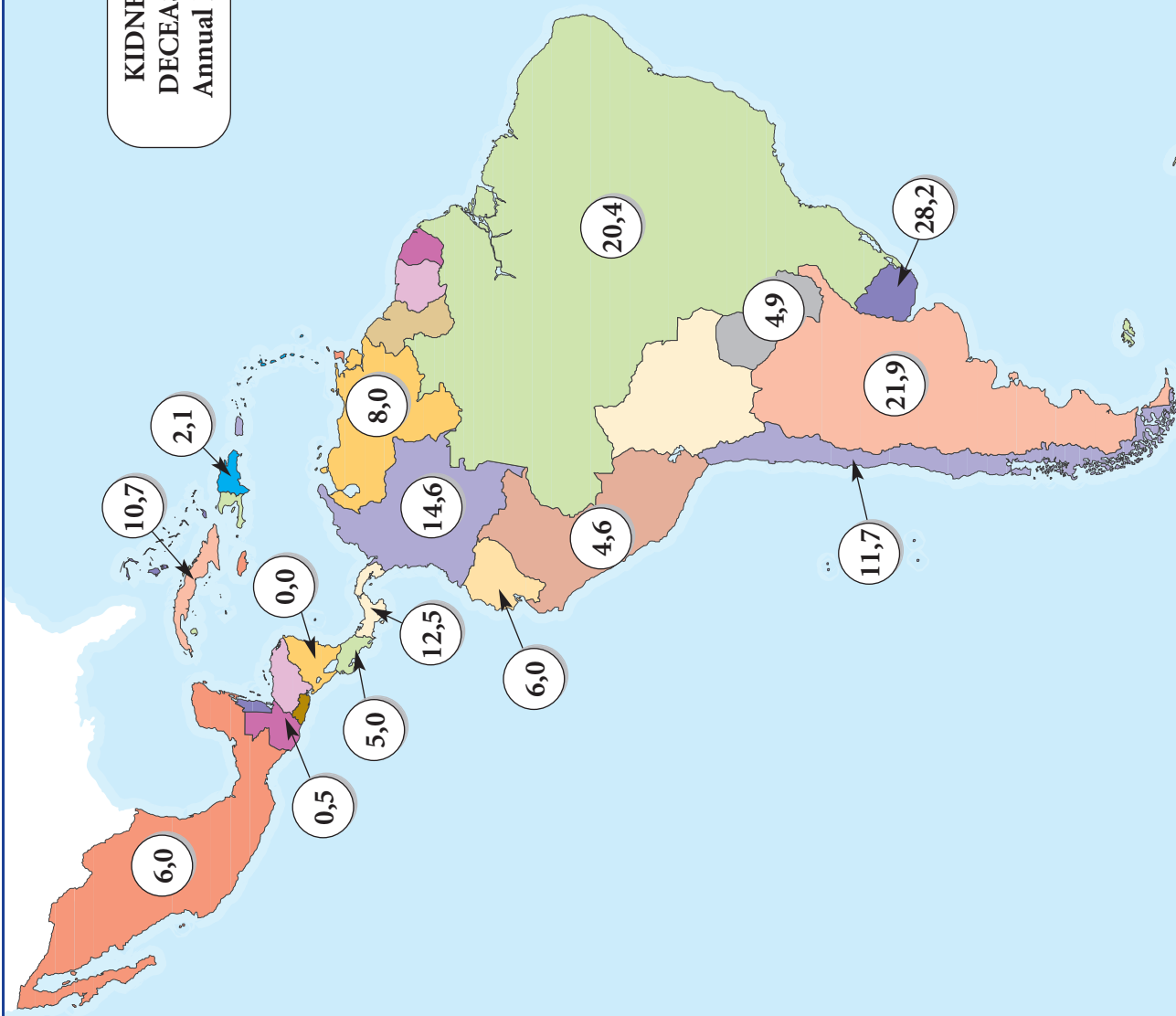
ACTUAL DECEASED ORGAN
DONORS
—both DBD and DCD included—
Annual Rate p.m.p 2012



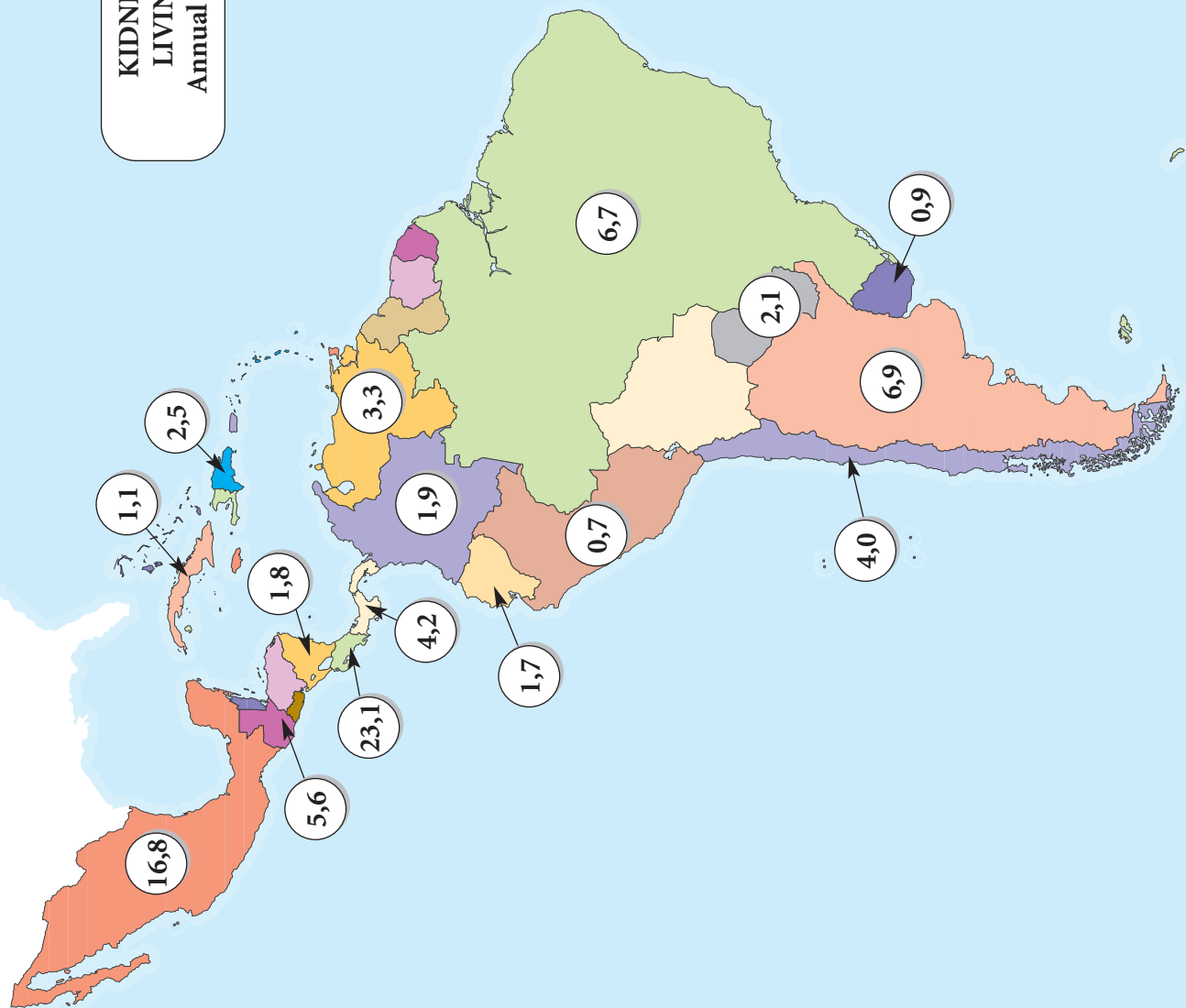
KIDNEY TRANSPLANT
 –all combinations included–
 Annual Rate p.m.p 2012



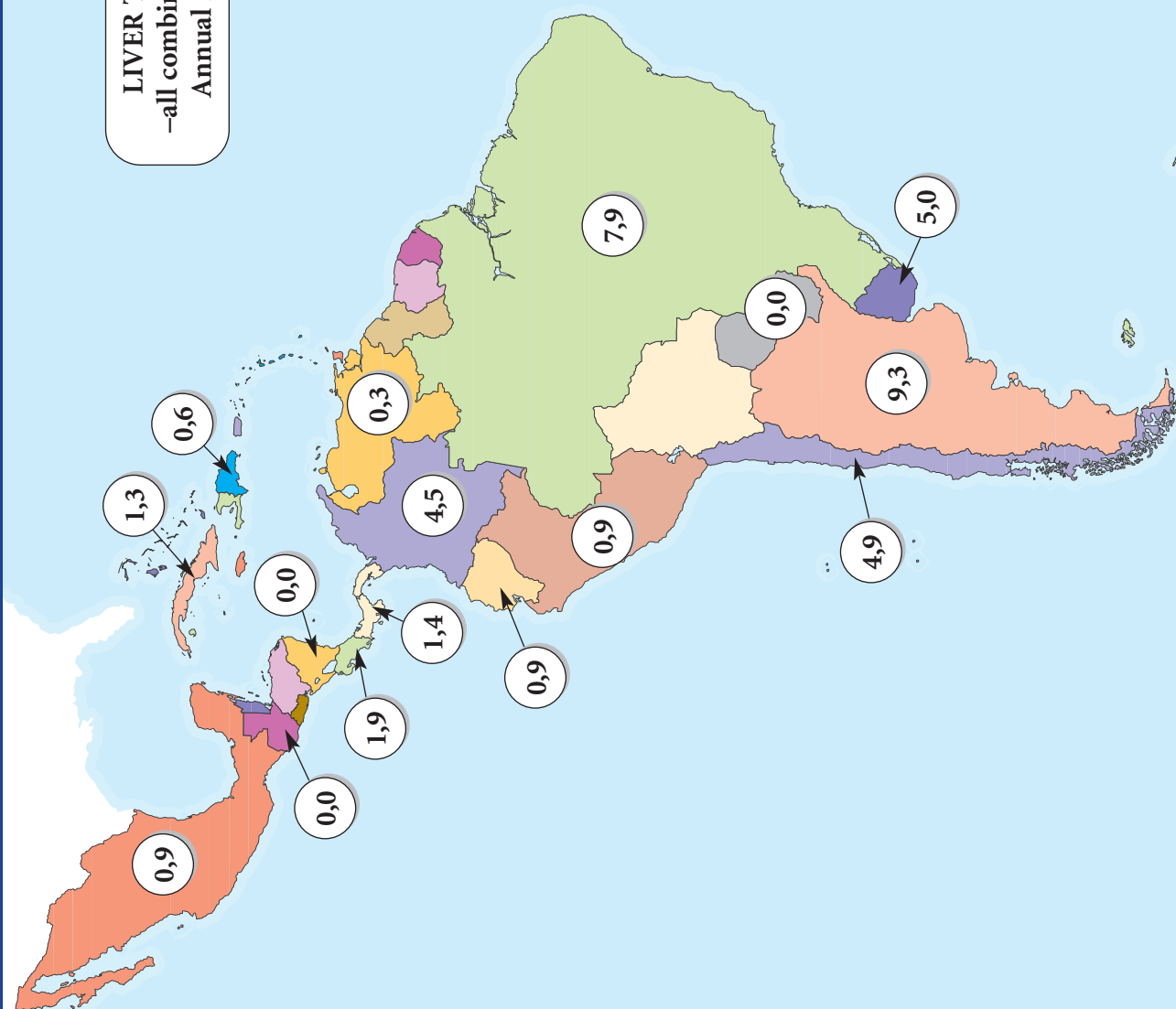
KIDNEY TX. FROM
DECEASED DONORS
Annual Rate p.m.p 2012



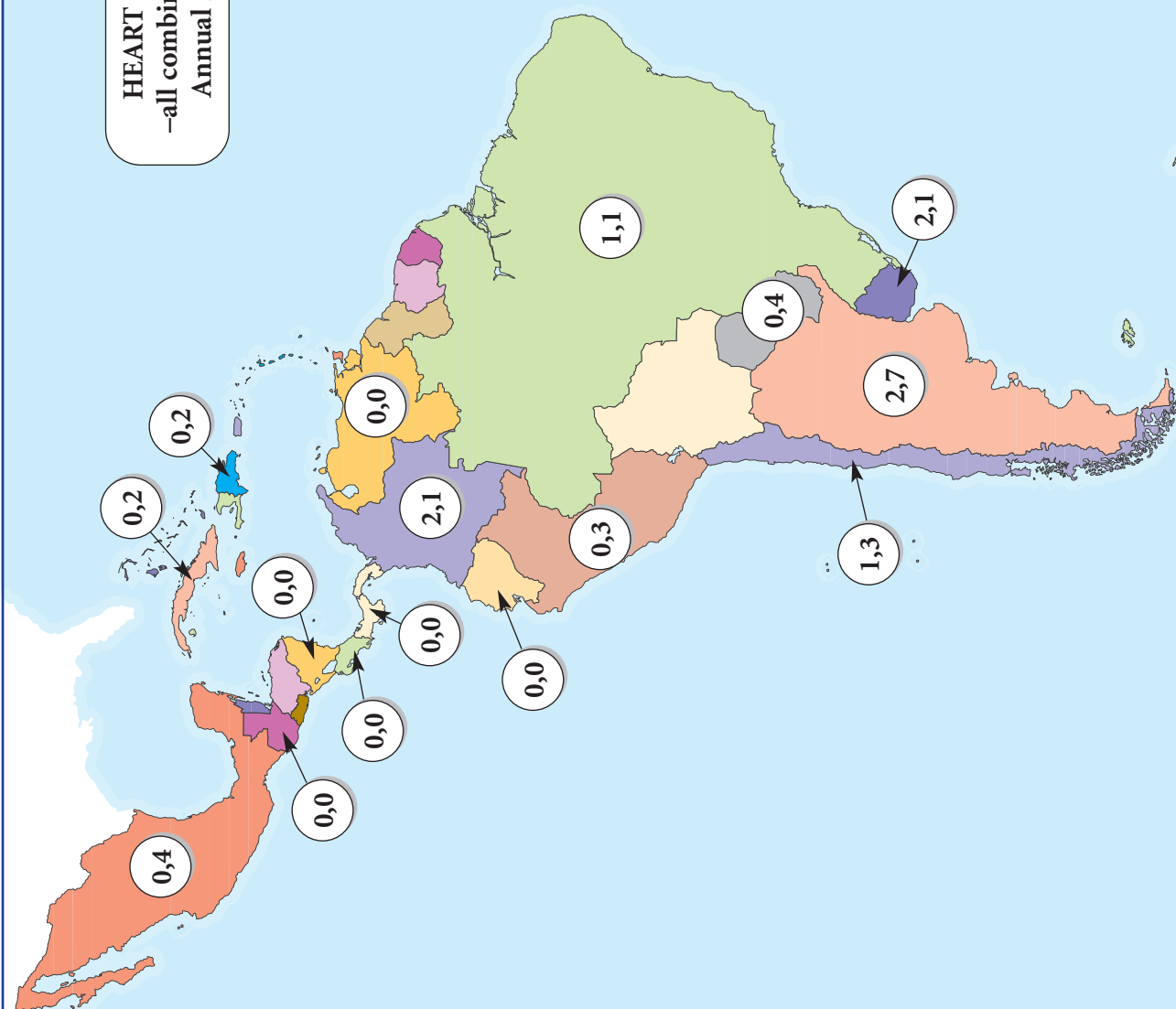
**KIDNEY TX. FROM
LIVING DONORS**
Annual Rate p.m.p 2012



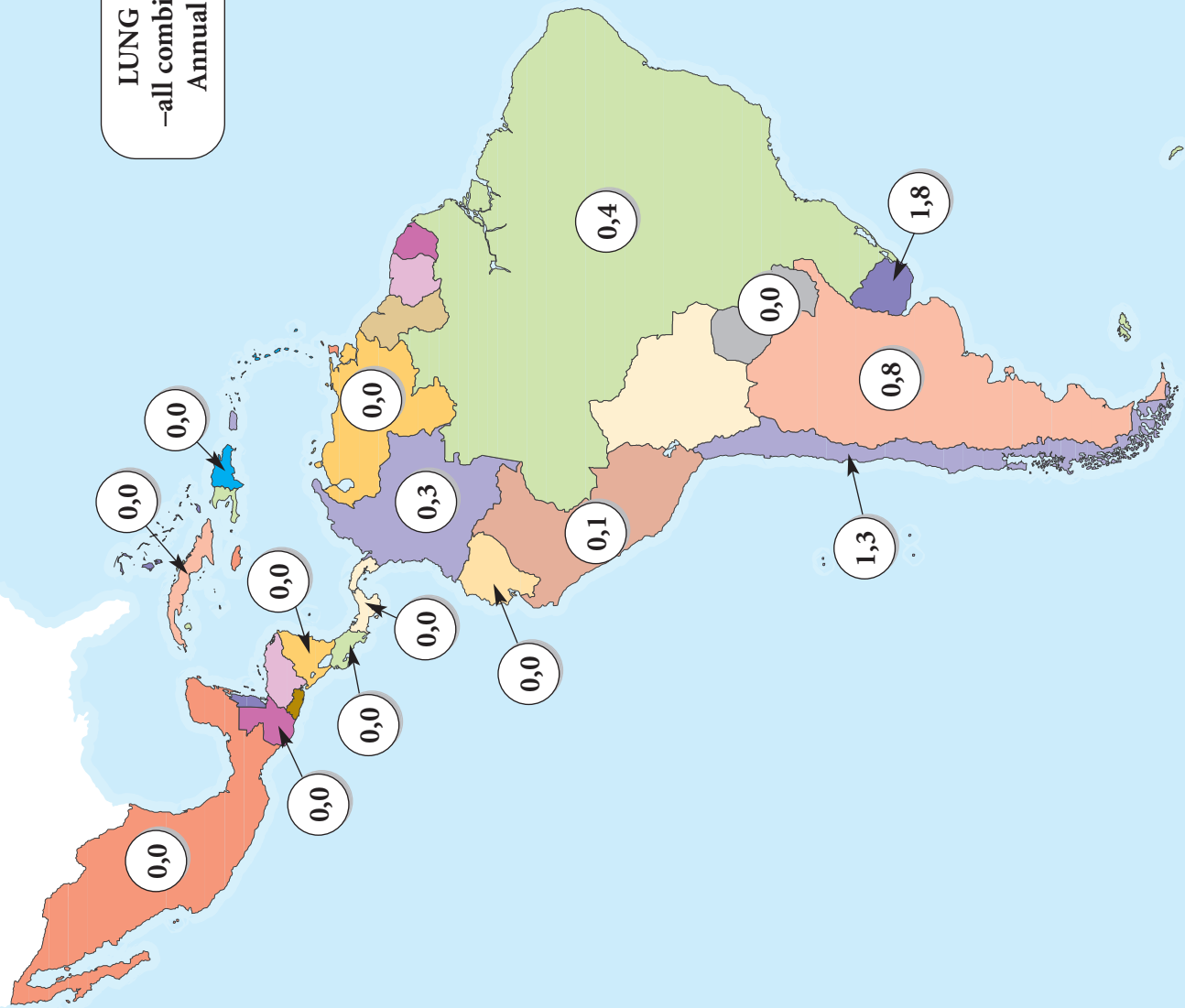
LIVER TRANSPLANT
 –all combinations included–
 Annual Rate p.m.p 2012



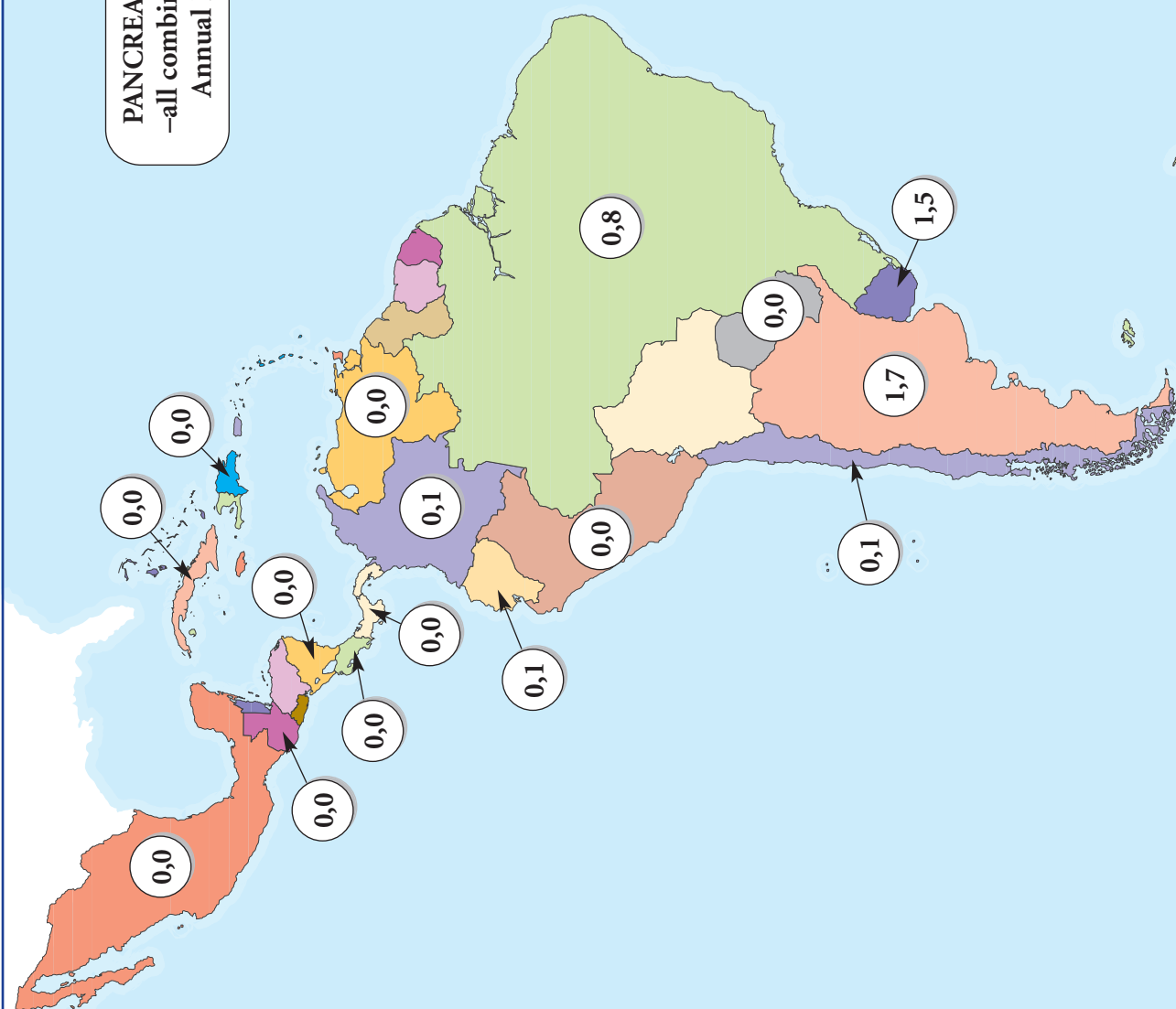
HEART TRANSPLANT
 –all combinations included–
 Annual Rate p.m.p 2012



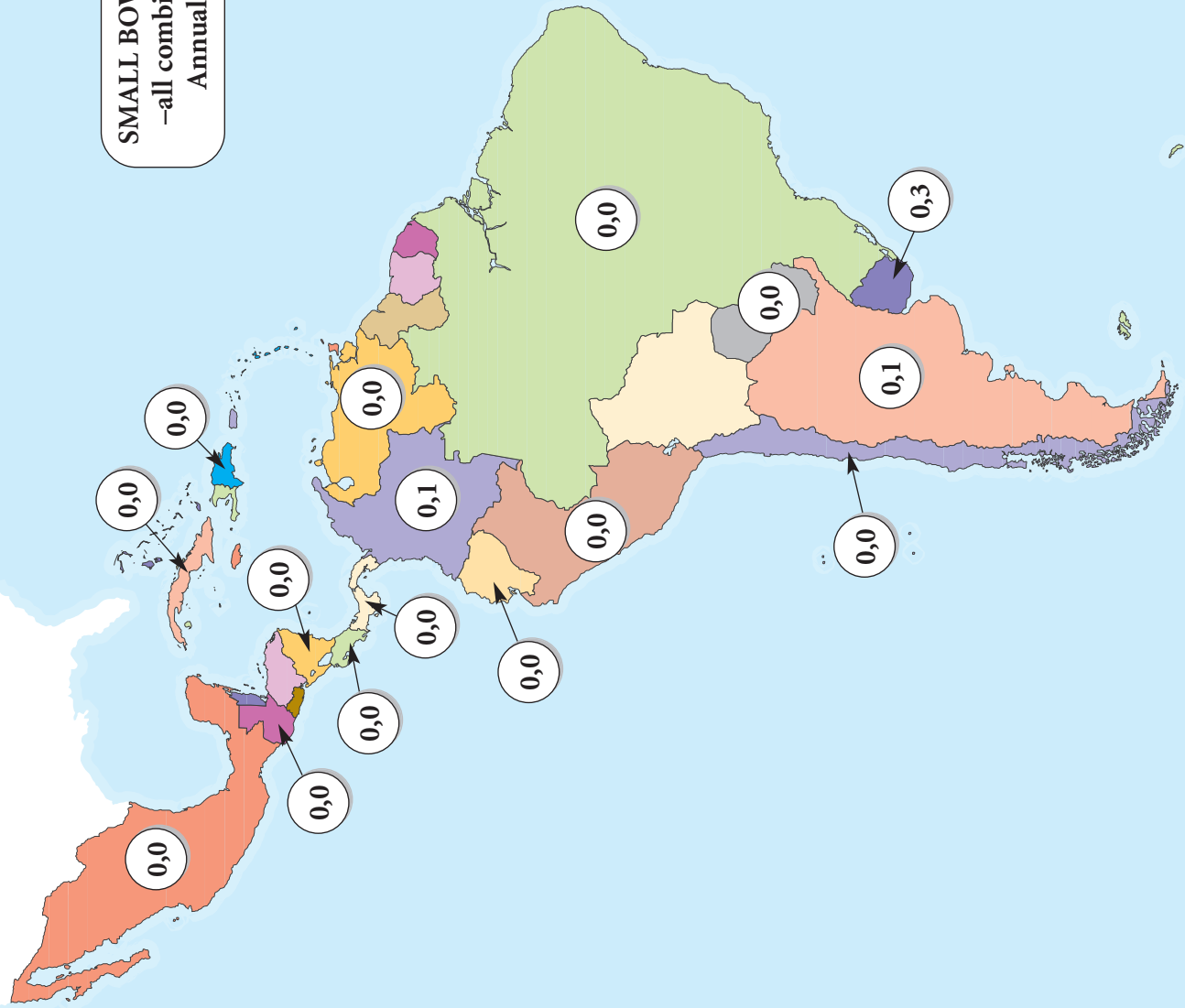
LUNG TRANSPLANT
 –all combinations included–
 Annual Rate p.m.p 2012



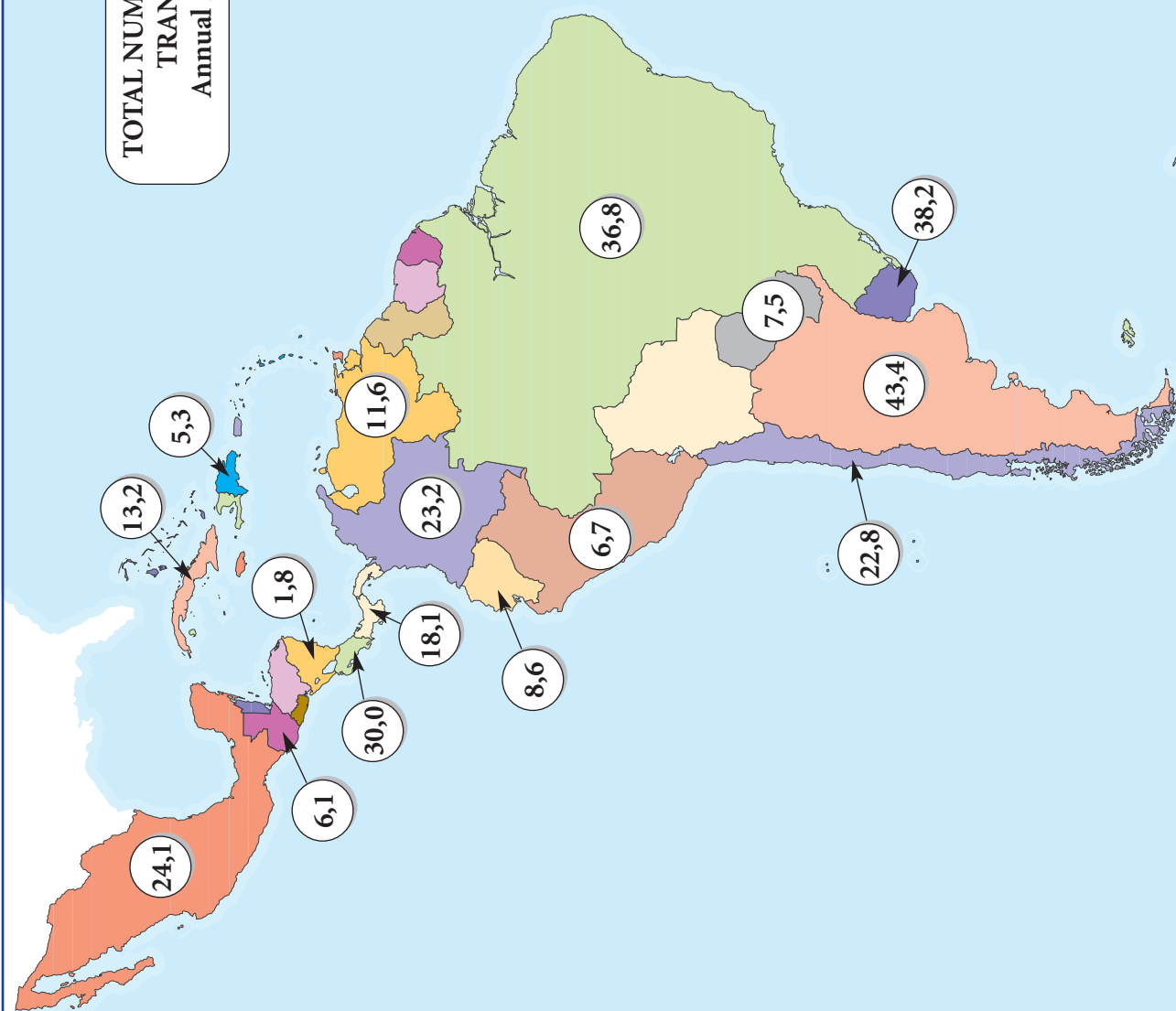
PANCREAS TRANSPLANT
 –all combinations included–
 Annual Rate p.m.p 2012



SMALL BOWEL TRANSPLANT
—all combinations included—
Annual Rate p.m.p 2012

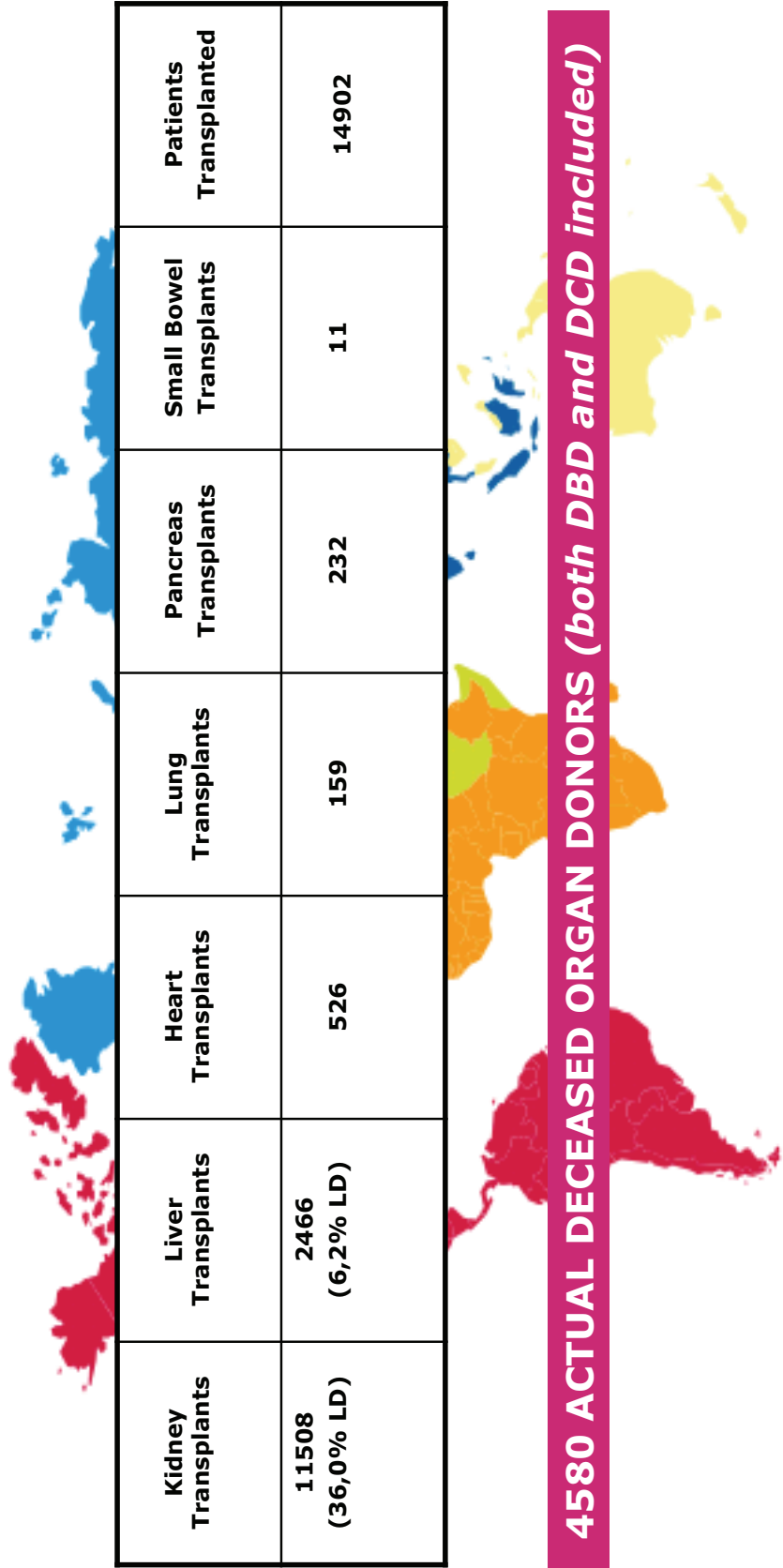


TOTAL NUMBER OF PATIENTS
TRANSPLANTED
Annual Rate p.m.p 2012





LATINAMERICAN COUNTRIES

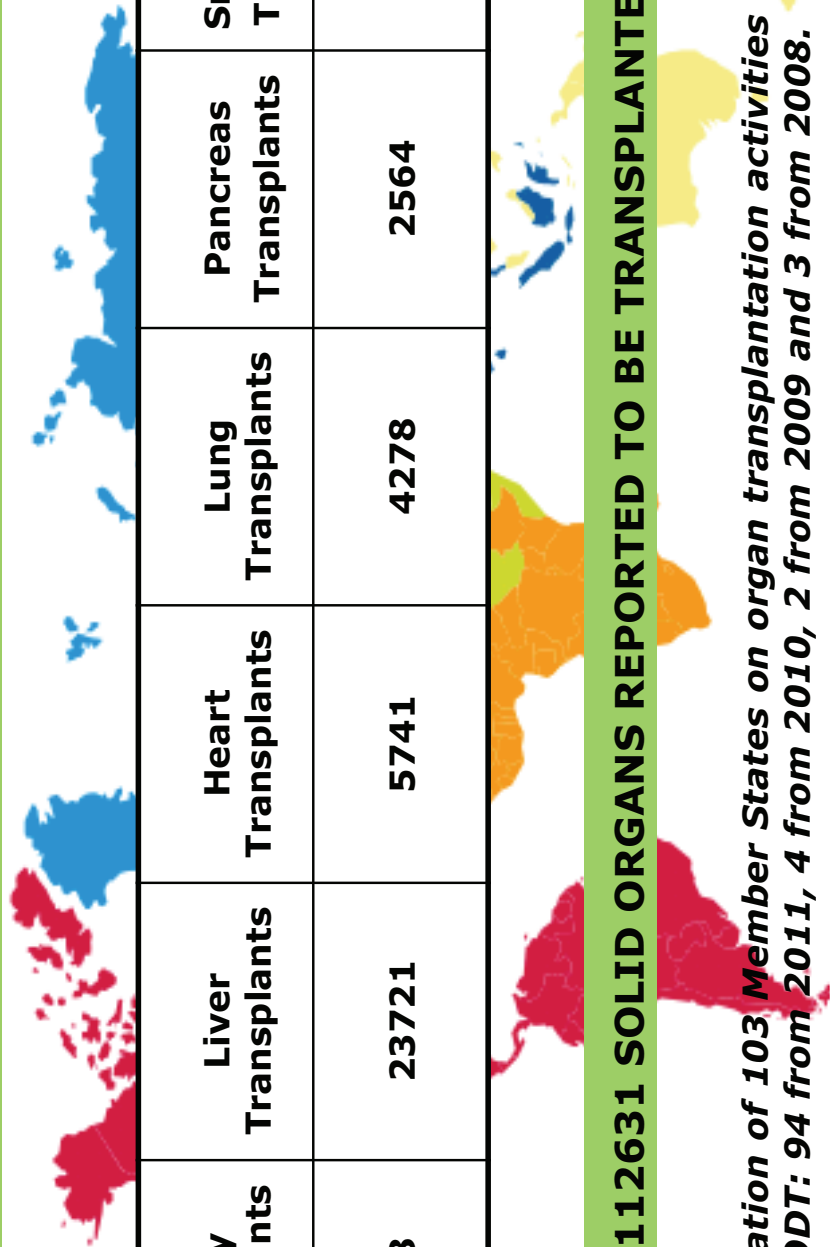


4580 ACTUAL DECEASED ORGAN DONORS (both DBD and DCD included)

*2012 data

N= 16 COUNTRIES (556,1 million inhabitants)

**GLOBAL ACTIVITY IN ORGAN TRANSPLANTATION
2011 ESTIMATES**

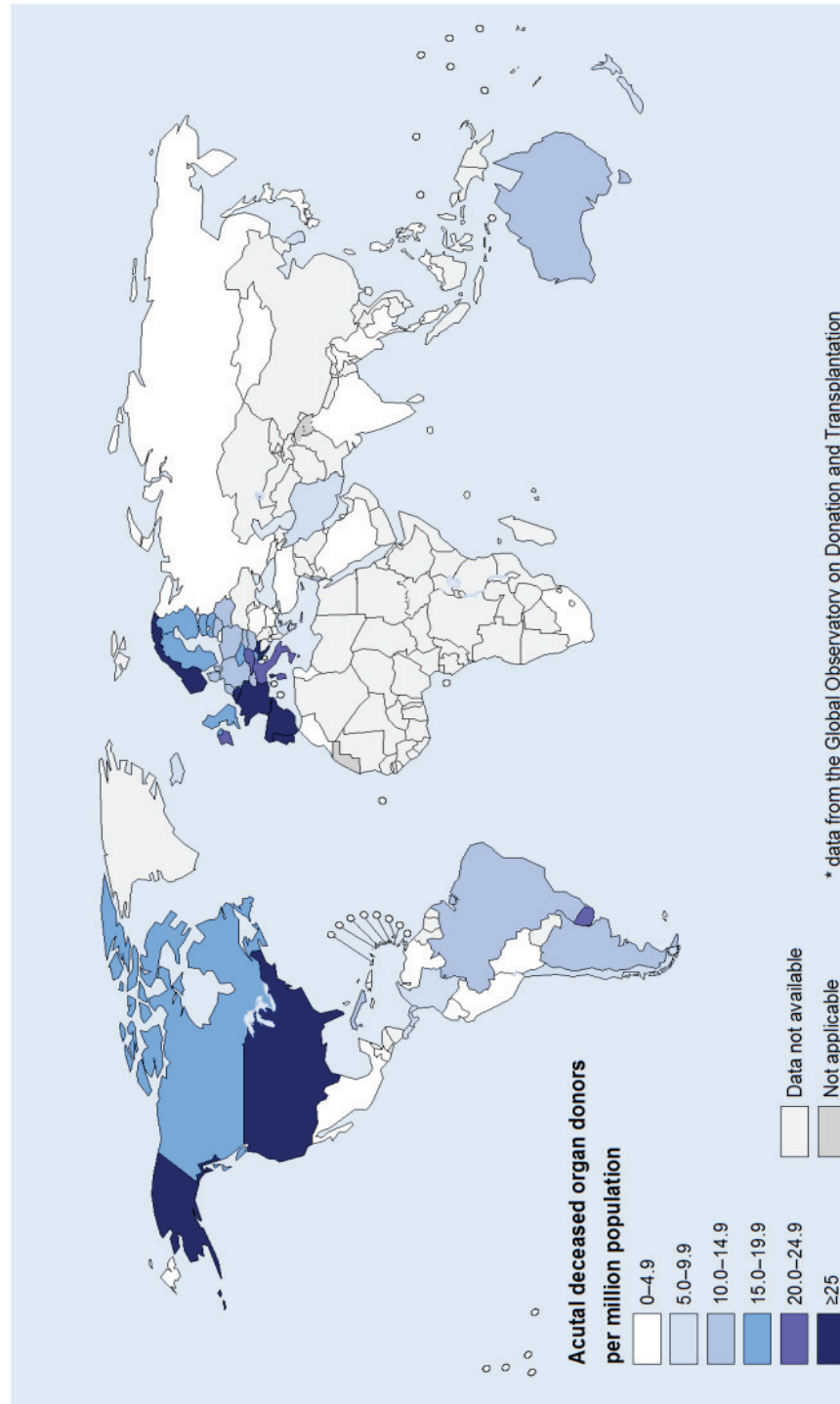


Kidney Transplants	Liver Transplants	Heart Transplants	Lung Transplants	Pancreas Transplants	Small Bowel Transplants
76118	23721	5741	4278	2564	209

112631 SOLID ORGANS REPORTED TO BE TRANSPLANTED

- Information of 103 Member States on organ transplantation activities is included in the GODT: 94 from 2011, 4 from 2010, 2 from 2009 and 3 from 2008.

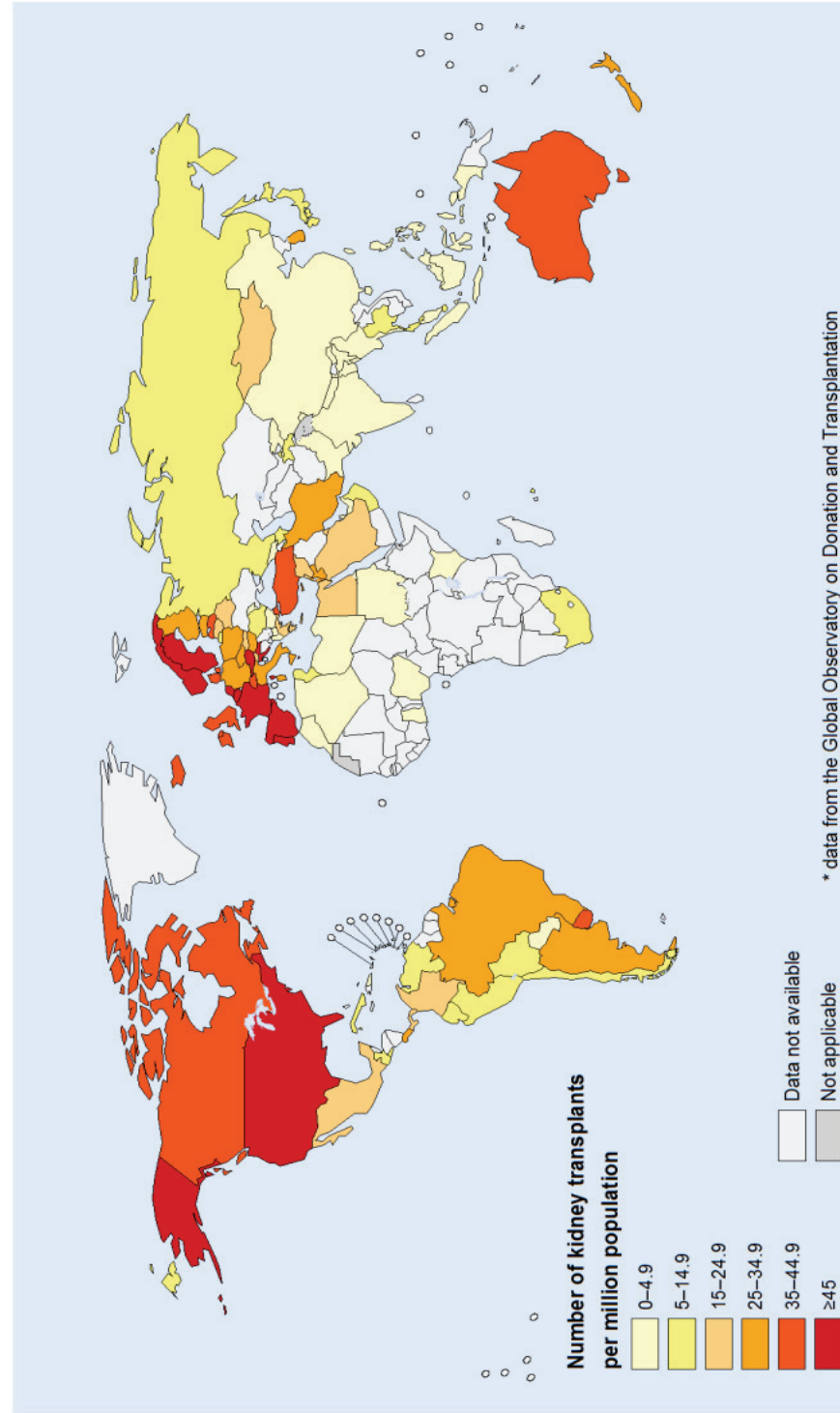
Actual donors from deceased persons, 2011*



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: Global Observatory on Donation & Transplantation. Map Production: Public Health Information and Geographic Information Systems (GIS), World Health Organization

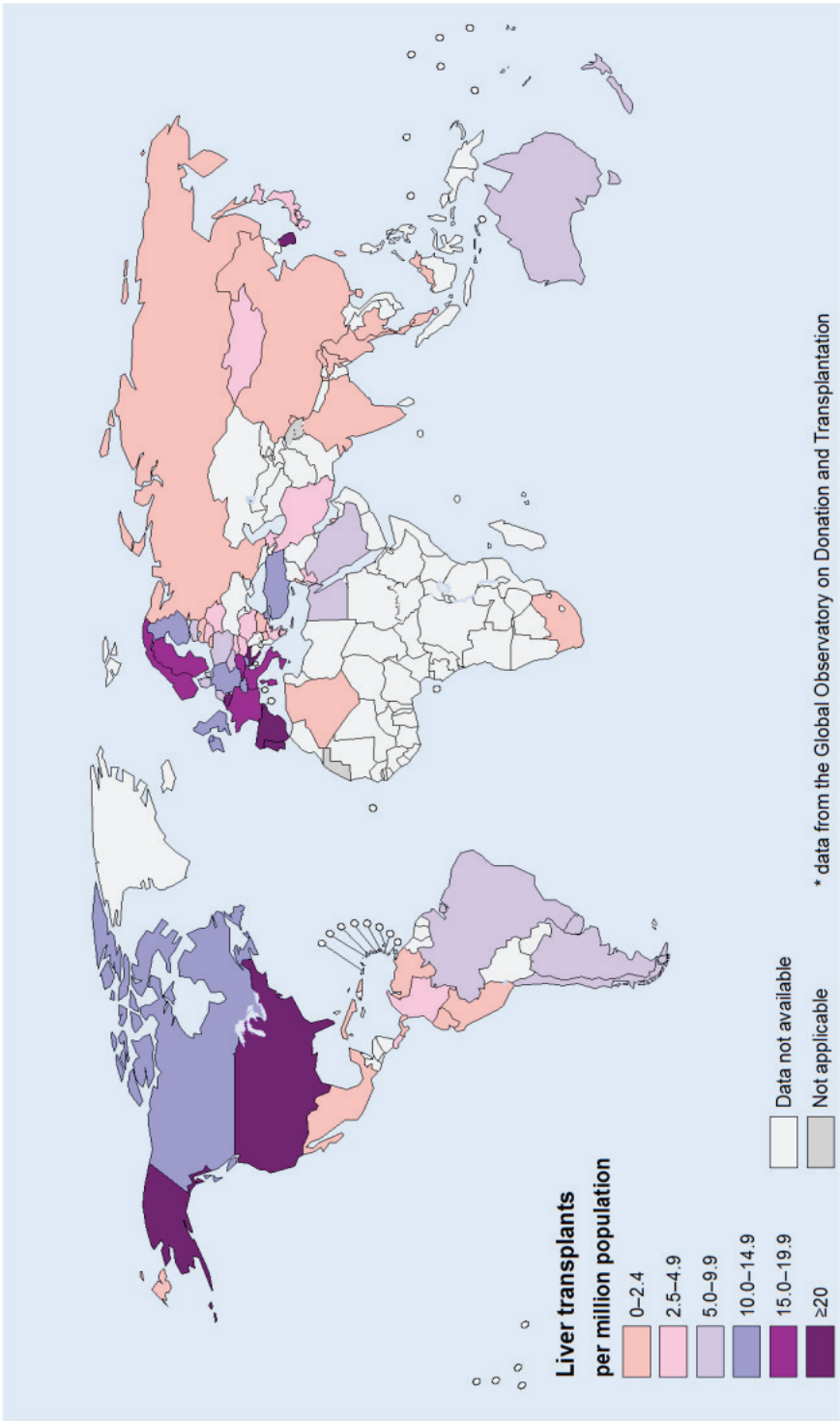
Kidney transplantation activities, 2011*



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Data Source: Global Observatory on Donation & Transplantation. Map Production: Public Health Information and Geographic Information Systems (GIS), World Health Organization

Liver transplantation activities, 2011*



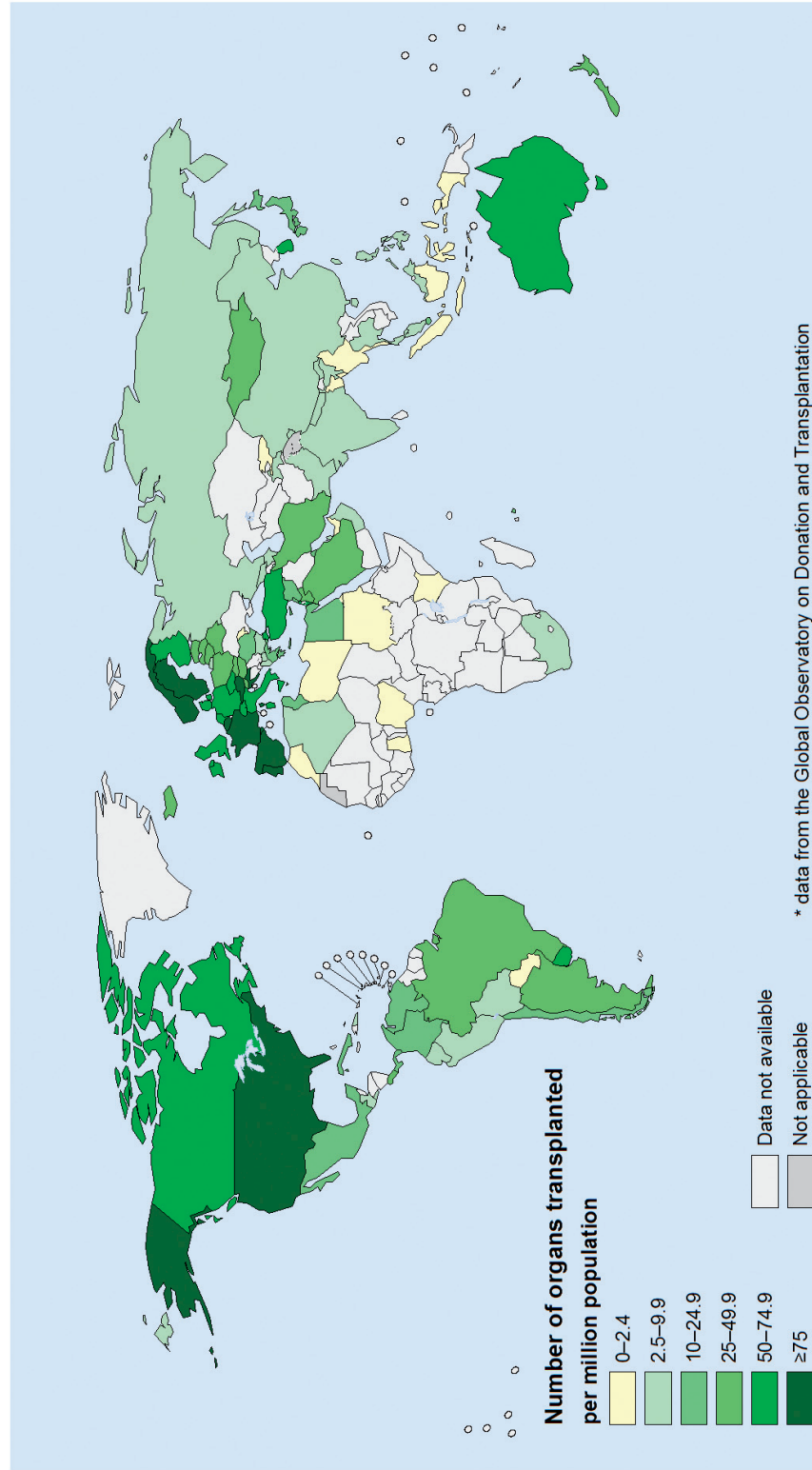
The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: Global Observatory on Donation & Transplantation. Map Production: Public Health Information and Geographic Information Systems (GIS), World Health Organization

 **World Health Organization**

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Global transplantation activities of solid organs, 2011*



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Data Source: Global Observatory on Donation & Transplantation. Map Production: Public Health Information and Geographic Information Systems (GIS), World Health Organization

International Data On Organ Donation And Transplantation Activity, Waiting Lists and Family Refusals. Year 2012.



DONATION AND TRANSPLANTATION ACTIVITY

EUROPEAN UNION COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA	AUSTRIA 8,4	BELGIUM 10,8	BULGARIA 7,4	CROATIA 4,4	CYPRUS 1,1	CZECH. R. 10,6	DENMARK 5,6	ESTONIA 1,3	FINLAND 5,4	FRANCE 63,5
DONATION										
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors -both DBD and DCD included-	198	23,6	326	30,2	2	0,3	153	34,8	4	3,6
Actual donors after circulatory death –DCD-	4	0,5	71	6,6	0	0,0	0	0,0	0	0,0
Multiorgan donors	149	17,7	252	23,3	0	0,0	142	32,3	4	3,6
TRANSPLANTATION										
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
KIDNEY	423	50,4	537	49,7	13	1,8	231	52,5	29	26,4
Total TX. -all combinations included-		14,9		10,6		69,2		3,9		82,8
% (TX. from living d./ Total TX.)										
Paediatric <15 years	6	0,7	6	0,6	0	0,0	2	0,5	1	0,9
TX. from deceased donors	360	42,9	480	44,4	4	0,5	222	50,5	5	4,5
TX. from DCD	20	2,4	92	8,5	0	0,0	0	0,0	0	0,0
Single TX.	353	42,0	476	44,1	4	0,5	221	50,2	0	0,0
Double TX.	7	0,8	4	0,4	0	0,0	1	0,2	0	0,0
TX. from living donors	63	7,5	57	5,3	9	1,2	9	2,0	24	21,8
TX. from Related living donors	63	7,5	57	5,3	9	1,2	9	2,0	24	21,8
TX. from Unrelated living donors	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
LIVER	126	15,0	282	26,1	4	0,5	128	29,1	NA	NA
Total TX. -all combinations included-										
Paediatric <15 years	4	0,5	29	2,7	0	0,0	4	0,9	NA	NA
Split TX.	3	0,4	0	0,0	0	0,0	2	0,5	NA	NA
Domino TX.	0	0,0	2	0,2	0	0,0	0	0,0	NA	NA
TX. from living donors	0	0,0	30	2,8	2	0,3	4	0,9	NA	NA
TX. from DCD	2	0,2	50	4,6	0	0,0	0	0,0	NA	NA
HEART	62	7,4	77	7,1	2	0,3	44	10,0	NA	NA
Total TX. -all combinations included-		6,7		0,1		0,0				
Paediatric <15 years	6	0,7	1	0,1	0	0,0	0	0,0	NA	NA
HEART-LUNG	3	0,4	2	0,2	0	0,0	0	0,0	NA	NA
Total TX.	0	0,0	0	0,0	0	0,0	0	0,0	NA	NA
Paediatric <15 years										
LUNG	124	14,8	129	11,9	NA	NA	0	0,0	NA	NA
Total TX. -all combinations included-										
Paediatric <15 years	5	0,6	0	0,0	0	0,0	0	0,0	NA	NA
Single TX.	3	0,4	9	0,8	NA	NA	0	0,0	NA	NA
Double TX. (heart-lung TX. included)	121	14,4	120	11,1	NA	NA	0	0,0	NA	NA
TX. from living donors	0	0,0	0	0,0	NA	NA	0	0,0	NA	NA
TX. from DCD (double + single)	2	0,2	18	1,7	NA	NA	0	0,0	NA	NA
PANCREAS	14	1,7	13	1,2	0	0,0	8	1,8	1	0,9
Total TX. -all combinations included-										
Paediatric <15 years	0	0,0	1	0,1	0	0,0	0	0,0	0	0,0
Pancreas TX. Alone	2	0,2	1	0,1	0	0,0	0	0,0	0	0,0
Kidney – Pancreas TX.	12	1,4	10	0,9	0	0,0	8	1,8	1	0,9
TX. from DCD	0	0,0	5	0,5	0	0,0	0	0,0	0	0,0
SMALL BOWEL										
Total TX. -all combinations included-										
Paediatric <15 years										
Small bowel TX. Alone										
RECIPIENTS	731	87,0	1014	93,9	19	2,6	400	90,9	29	26,4
Total number of patients transplanted										
Paediatric <15 years	21	2,5	36	3,3	0	0,0	6	1,4	1	0,9
Patients transplanted from living donors	63	7,5	87	8,1	11	1,5	13	3,0	24	21,8

SMALL BOWEL

Total TX. -all combinations included-

Paediatric <15 years

Small bowel TX. Alone

RECIPIENTS

Total number of patients transplanted

Paediatric <15 years

Patients transplanted from living donors

DONATION AND TRANSPLANTATION ACTIVITY

EUROPEAN UNION COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA	GERMANY 82,0	GREECE 11,4	HUNGARY 9,9	IRELAND 4,6	ITALY 61,0	LATVIA 2,2	LITHUANIA 3,3	LUXEMBOURG 0,5	MALTA 0,4
Actual deceased organ donors -both DBD and DCD included- Actual donors after circulatory death –DCD- Multiorgan donors	DONATION								
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Actual deceased organ donors -both DBD and DCD included- Actual donors after circulatory death –DCD- Multiorgan donors	1047 0 956	12,8 0,0 11,7	77 0 68	6,8 0,0 6,0	143 0 75	14,4 0,0 7,6	78 3 65	17,0 0,7 14,1	21,9 0,1 12,5
Actual deceased organ donors -both DBD and DCD included- Actual donors after circulatory death –DCD- Multiorgan donors	TRANSPLANTATION								
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
KIDNEY Total TX. -all combinations included- % (TX. from living d./ Total TX.) Paediatric <15 years TX. from deceased donors TX. from DCD Single TX. Double TX. TX. from living donors TX. from Related living donors TX. from Unrelated living donors	2586 29,6 68 1820 0 1798 22 766 766 0	31,5 0,8 22,2 0,0 21,9 0,3 9,3 9,3 0,0	171 23,9 6 130 0 130 0 41 41	15,0 0,5 11,4 0,0 11,4 0,0 3,6 3,6	276 19,2 13 223 0 221 2 53 53 0	27,9 1,3 22,5 0,0 22,3 0,2 5,4 5,4 0,0	163 19,6 131 6 125 6 32 25 7	35,4 0,9 28,5 1,3 27,2 1,3 7,0 5,4 1,5	29,3 10,8 0,9 26,1 0,1 24,3 1,8 2,3 3,2 0,0
LIVER Total TX. -all combinations included- Paediatric <15 years Split TX. Domino TX. TX. from living donors TX. from DCD	1097 128 82 2 78 0	13,4 1,6 1,0 0,0 1,0 0,0	47 0 0 0 0 0	4,1 0,0 0,0 0,0 0,0 0,0	41 3 0 0 0 0	4,1 0,3 0,0 0,0 0,0 0,0	50 0 0 0 0 0	10,9 0,0 0,0 0,0 0,0 0,0	16,4 1,2 1,4 0,0 0,2 0,0
HEART Total TX. -all combinations included- Paediatric <15 years	346 21	4,2 0,3	18 0	1,6 0,0	33 3	3,3 0,3	10	2,2	3,8 0,5
HEART-LUNG Total TX. Paediatric <15 years	14 0	0,2 0,0	0 0	0,0 0,0	0 0	0,0 0,0	0	0,0	0,0 0,0
LUNG Total TX. -all combinations included- Paediatric <15 years Single TX. Double TX. (heart-lung TX. included) TX. from living donors TX. from DCD (double + single)	361 12 39 318 4 0	4,4 0,1 0,5 3,9 0,0 0,0	NA NA NA NA NA NA	NA NA NA NA NA NA	14 0 10 4 0 0	3,0 0,0 2,2 0,9 0,0 0,0	14 0 10 4 0 0	3,0 0,0 2,2 0,9 0,0 0,0	1,9 0,2 0,6 1,3 0,0 0,0
PANCREAS Total TX. -all combinations included- Paediatric <15 years Pancreas TX. Alone Kidney – Pancreas TX. TX. from DCD	161 0 18 141 0	2,0 0,0 0,2 1,7 0,0	NA NA NA NA NA	NA NA NA NA NA	6 0 0 6 0	0,6 0,0 0,0 0,6 0,0	1 0 0 1 0	0,2 0,0 0,0 0,2 0,0	1,1 0,0 0,2 0,9 0,0
SMALL BOWEL Total TX. -all combinations included- Paediatric <15 years Small bowel TX. Alone			NA NA NA	NA NA NA					
RECIPIENTS Total number of patients transplanted Paediatric <15 years Patients transplanted from living donors	4370 226 847	53,3 2,8 10,3	236 6 41	20,7 0,5 3,6	338 19 53	34,1 1,9 5,4	237 32	51,5 7,0	31,8 2,8 2,3

DONATION AND TRANSPLANTATION ACTIVITY

EUROPEAN UNION COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA	NETHERLANDS 16,7	POLAND 38,3	PORTUGAL 10,7	ROMANIA 21,4	SLOVAKIA 5,5	SLOVENIA 2,0	SPAIN 46,8	SWEDEN 9,5	U. K. 62,8
DONATION									
Actual deceased organ donors -both DBD and DCD included-	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Actual donors after circulatory death –DCD-	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Multiorgan donors	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
256	15,3	16,1	252	23,6	65	3,0	1643	35,1	1164
128	7,7	0,0	0	0,0	1	0,0	161	3,4	504
210	12,6	9,1	179	16,7	65	3,0	1267	27,1	816
TRANSPLANTATION									
KIDNEY	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Total TX. -all combinations included-	961	57,5	1145	29,9	177	8,3	2551	54,5	2899
% (TX. from living d./ Total TX.)	50,5	4,4	10,9	29,9	2,3	0,0	14,2	38,9	35,6
Paediatric <15 years	27	1,6	47	1,2	6	0,3	59	1,3	95
TX. from deceased donors	476	28,5	1094	28,6	124	5,8	2190	46,8	1867
TX. from DCD	221	13,2	0	0,0	0	0,0	201	4,3	743
Single TX.	470	28,1	1090	28,5	124	5,8	2171	46,4	1808
Double TX.	6	0,4	4	0,1	0	0,0	19	0,4	59
TX. from living donors	485	29,0	51	1,3	53	2,5	361	7,7	1032
TX. from Related living donors	485	29,0	51	1,3	44	2,1	360	7,7	918
TX. from Unrelated living donors	0	0,0	0	0,0	9	0,4	1	0,0	114
LIVER	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Total TX. -all combinations included-	146	8,7	328	8,6	75	3,5	1084	23,2	816
Paediatric <15 years	17	1,0	36	0,9	4	0,2	68	1,5	105
Split TX.	5	0,3	2	0,1	0	0,0	8	0,2	153
Domino TX.	1	0,1	0	0,0	0	0,0	0	0,0	2,4
TX. from living donors	4	0,2	14	0,4	20	0,9	28	0,6	36
TX. from DCD	36	2,2	0	0,0	0	0,0	17	0,4	142
HEART	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Total TX. -all combinations included-	37	2,2	79	2,1	2	0,1	247	5,3	142
Paediatric <15 years	2	0,1	10	0,3	0	0,0	13	0,3	23
HEART-LUNG	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Total TX.	0	0,0	0	0,0	0	0,0	1	0,0	3
Paediatric <15 years	0	0,0	0	0,0	0	0,0	0	0,0	0
LUNG	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Total TX. -all combinations included-	80	4,8	16	0,4	0	0,0	238	5,1	182
Paediatric <15 years	2	0,1	2	0,1	0	0,0	7	0,1	3
Single TX.	16	1,0	10	0,3	0	0,0	107	2,3	32
Double TX. (heart-lung TX. included)	64	3,8	6	0,2	0	0,0	131	2,8	150
TX. from living donors	0	0,0	0	0,0	0	0,0	0	0,0	0
TX. from DCD (double + single)	29	1,7	0	0,0	0	0,0	6	0,1	34
PANCREAS	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Total TX. -all combinations included-	28	1,7	43	1,1	0	0,0	83	1,8	254
Paediatric <15 years	0	0,0	0	0,0	0	0,0	7	0,1	2
Pancreas TX. Alone	3	0,2	9	0,2	0	0,0	20	0,4	38
Kidney – Pancreas TX.	25	1,5	34	0,9	0	0,0	56	1,2	172
TX. from DCD	3	0,2	0	0,0	0	0,0	0	0,0	46
SMALL BOWEL	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Total TX. -all combinations included-	0	0,0	0	0,0	0	0,0	8	0,2	15
Paediatric <15 years	0	0,0	0	0,0	0	0,0	6	0,1	6
Small bowel TX. Alone	0	0,0	0	0,0	0	0,0	2	0,0	7
RECIPIENTS	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number
Total number of patients transplanted	1232	73,8	1608	42,0	254	11,9	4099	87,6	4091
Paediatric <15 years	48	2,9	95	2,5	10	0,5	160	3,4	224
Patients transplanted from living donors	489	29,3	65	1,7	73	3,4	389	8,3	1068

DONATION AND TRANSPLANTATION ACTIVITY												
OTHER COUNTRIES												
COUNTRIES Population (million inhabitants): UNFPA	ALGERIA 36,5	ARMENIA 3,1	AUSTRALIA 22,9	AZERBAIJAN 9,4	BELARUS 9,5	CANADA 34,7	GEORGIA 4,3	ICELAND 0,3	ISRAEL 7,7	LEBANON 4,3	MACEDONIA 2,1	
DONATION												
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors	1	0,0	0	0,0	106	11,2	542	15,6	0	0,0	3	10,0
-both DBD and DCD included-	0	0,0	0	0,0	0	0,0	82	2,4	0	0,0	0	0,0
Actual donors after circulatory death –DCD-	0	0,0	0	0,0	78	8,2	NA	NA	41	5,3	6	1,4
Multiorgan donors	0	0,0	0	0,0	337	14,7					0	0,0
TRANSPLANTATION												
KIDNEY												
Total TX. -all combinations included-	119	3,3	9	2,9	843	36,8	45	4,8	201	21,2	1321	38,1
% (TX. from living d./ Total TX.)	98,3		100		28,1		100,0		13,4		35,7	
Paediatric <15 years	12	0,3	0	0,0	39	1,7	1	0,1	14	1,5	0	0,0
TX. from deceased donors	2	0,1	0	0,0	606	26,5			174	18,3	850	24,5
TX. from DCD	0	0,0	0	0,0	129	5,6			0	0,0	144	4,1
Single TX.	2	0,1	0	0,0	596	26,0			174	18,3	837	24,1
Double TX.	0	0,0	0	0,0	10	0,4			0	0,0	13	0,4
TX. from living donors	117	3,2	9	2,9	237	10,3	45	4,8	27	2,8	471	13,6
TX. from Related living donors	117	3,2	9	2,9	209	9,1	44	4,7	27	2,8	15	3,5
TX. from Unrelated living donors	0	0,0	0	0,0	28	1,2	1	0,1	0	0,0	15	3,5
LIVER												
Total TX. -all combinations included-	2	0,1	0	0,0	231	10,1	16	1,7	52	5,5	488	14,1
Paediatric <15 years	0	0,0	0	0,0	35	1,5			6	0,6	0	0,0
Split TX.	0	0,0	0	0,0	38	1,7			2	0,2	11	0,3
Domino TX.	0	0,0	0	0,0	0	0,0			0	0,0	0	0,0
TX. from living donors	2	0,1	0	0,0	4	0,2	16	1,7	2	0,2	78	2,2
TX. from DCD	0	0,0	0	0,0	17	0,7			0	0,0	22	0,6
HEART												
Total TX. -all combinations included-	0	0,0	0	0,0	76	3,3			21	2,2	172	5,0
Paediatric <15 years	0	0,0	0	0,0	5	0,2			0	0,0	0	0,0
HEART-LUNG												
Total TX.	0	0,0	0	0,0	4	0,2			0	0,0	3	0,1
Paediatric <15 years	0	0,0	0	0,0	0	0,0			0	0,0	0	0,0
LUNG												
Total TX. -all combinations included-	0	0,0	0	0,0	148	6,5			0	0,0	194	5,6
Paediatric <15 years	0	0,0	0	0,0	2	0,1			0	0,0	0	0,0
Single TX.	0	0,0	0	0,0	4	0,2			0	0,0	29	0,8
Double TX. (heart-lung TX. included)	0	0,0	0	0,0	144	6,3			0	0,0	165	4,8
TX. from living donors	0	0,0	0	0,0	0	0,0			0	0,0	0	0,0
TX. from DCD (double + single)	0	0,0	0	0,0	26	1,1			0	0,0	4	0,1
PANCREAS												
Total TX. -all combinations included-	0	0,0	0	0,0	38	1,7			0	0,0	72	2,1
Paediatric <15 years	0	0,0	0	0,0	0	0,0			0	0,0	0	0,0
Pancreas TX. Alone	0	0,0	0	0,0	0	0,0			0	0,0	27	0,8
Kidney – Pancreas TX.	0	0,0	0	0,0	38	1,7			0	0,0	44	1,3
TX. from DCD	0	0,0	0	0,0	1	0,0			0	0,0	4	0,1
SMALL BOWEL												
Total TX. -all combinations included-	0	0,0	0	0,0	1	0,0			0	0,0	0	0,0
Paediatric <15 years	0	0,0	0	0,0	1	0,0			0	0,0	0	0,0
Small bowel TX. Alone	0	0,0	0	0,0	0	0,0			0	0,0	0	0,0
RECIPIENTS												
Total number of patients transplanted	121	3,3	9	2,9	1293	56,5	61	6,5	272	28,6	2264	65,2
Paediatric <15 years	12	0,3	0	0,0	241	10,5	1	0,1	20	2,1	549	15,8
Patients transplanted from living donors	119	3,3	9	2,9			61	6,5	29	3,0		

DONATION AND TRANSPLANTATION ACTIVITY

OTHER COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA	MOLDOVA 3,5	NEW ZEALAND 4,5	NORWAY 5,0	RUSSIA 142,7	SWITZERLAND 7,7	SYRIA 21,1	TUNISIA 10,7	TURKEY 74,5	UKRAINE 44,9	USA 315,8										
DONATION																				
Actual deceased organ donors -both DBD and DCD included- Actual donors after circulatory death –DCD- Multiorgan donors	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP										
	0	0,0	38	8,4	117	23,4	412	2,9	96	12,5	0	0,0	1	0,1	345	4,6	4	0,1	8143	25,8
	0	0,0	0	0,0	0	0,0	121	0,8	7	0,9	0	0,0	0	0,0	NA	NA	0	0,0	1106	3,5
	0	0,0	36	8,0	96	19,2	195	1,4	89	11,6	0	0,0	1	0,1	NA	NA	1	0,0	7522	23,8
TRANSPLANTATION																				
KIDNEY Total TX. -all combinations included- % (TX. from living d./ Total TX.) Paediatric <15 years TX. from deceased donors TX. from DCD Single TX. Double TX. TX. from living donors TX. from Related living donors TX. from Unrelated living donors	4	1,1	108	24,0	299	59,8	941	6,6	251	32,6	257	12,2	124	11,6	2905	39,0	119	2,7	17286	54,7
	100,0		50,0		27,1		20,7		38,2		100,0		98,4		81,9		96,6		32,5	
	0	0,0	10	2,2	8	1,6	56	0,4	11	1,4	20	0,9	7	0,7	146	2,0	2	0,0	534	1,7
	0	0,0	54	12,0	218	43,6	746	5,2	155	20,1	0	0,0	2	0,2	524	7,0	4	0,1	11669	37,0
	0	0,0	0	0,0	0	0,0	0	0,0	11	1,4	0	0,0	0	0,0	NA	NA	4	0,1	1639	5,2
	0	0,0	54	12,0	218	43,6	746	5,2	149	19,4	0	0,0	2	0,2	NA	NA	4	0,1		
	0	0,0	0	0,0	0	0,0	0	0,0	6	0,8	0	0,0	0	0,0	NA	NA				
	4	1,1	54	12,0	81	16,2	195	1,4	96	12,5	257	12,2	122	11,4	2381	32,0	115	2,6	5617	17,8
	4	1,1	32	7,1	81	16,2	195	1,4	95	12,3	83	3,9	122	11,4	2267	30,4	115	2,6	2778	8,8
	0	0,0	22	4,9	0	0,0	0	0,0	1	0,1	174	8,2	0	0,0	114	1,5			2838	9,0
LIVER Total TX. -all combinations included- Paediatric <15 years Split TX. Domino TX. TX. from living donors TX. from DCD	0	0,0	35	7,8	100	20,0	243	1,7	100	13,0	0	0,0	2	0,2	1001	13,4	13	0,3	6256	19,8
	0	0,0	NA	NA	6	1,2	62	0,4	4	0,5	0	0,0	0	0,0	159	2,1			461	1,5
	0	0,0	8	1,8	0	0,0	0	0,0	1	0,1	0	0,0	0	0,0	21	0,3			152	0,5
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,0			10	0,0
	0	0,0	3	0,7	0	0,0	104	0,7	5	0,6	0	0,0	1	0,1	736	9,9	12	0,3	236	0,7
	0	0,0	0	0,0	0	0,0	0	0,0	4	0,5	0	0,0	0	0,0	NA	NA			263	0,8
HEART Total TX. -all combinations included- Paediatric <15 years HEART-LUNG Total TX. Paediatric <15 years	0	0,0	12	2,7	32	6,4	132	0,9	35	4,5	0	0,0	0	0,0	61	0,8			2407	7,6
	0	0,0	1	0,2	1	0,2	7	0,0	1	0,1	0	0,0	0	0,0	5	0,1			321	1,0
	NA	NA	0	0,0	0	0,0	2	0,0	0	0,0	0	0,0	0	0,0	2	0,0			29	0,1
	NA	NA	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0			2	0,0
LUNG Total TX. -all combinations included- Paediatric <15 years Single TX. Double TX. (heart-lung TX. included) TX. from living donors TX. from DCD (double + single)	NA	NA	12	2,7	28	5,6	7	0,0	52	6,8	0	0,0	0	0,0	25	0,3			1783	5,6
	NA	NA	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0			19	0,1
	NA	NA	0	0,0	2	0,4	0	0,0	3	0,4	0	0,0	0	0,0	NA	NA			569	1,8
	NA	NA	12	2,7	26	5,2	7	0,0	49	6,4	0	0,0	0	0,0	NA	NA			1213	3,8
	NA	NA	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0			1	0,0
	NA	NA	0	0,0	0	0,0	0	0,0	2	0,3	0	0,0	0	0,0	NA	NA			21	0,1
PANCREAS Total TX. -all combinations included- Paediatric <15 years Pancreas TX. Alone Kidney – Pancreas TX. TX. from DCD	NA	NA	3	0,7	28	5,6	23	0,2	29	3,8	0	0,0	0	0,0	6	0,1			1043	3,3
	NA	NA	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0			26	0,1
	NA	NA	0	0,0	17	3,4	1	0,0	13	1,7	0	0,0	0	0,0	NA	NA			195	0,6
	NA	NA	3	0,7	11	2,2	22	0,2	15	1,9	0	0,0	0	0,0	NA	NA			801	2,5
	NA	NA	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	NA	NA			16	0,0
SMALL BOWEL Total TX. -all combinations included- Paediatric <15 years Small bowel TX. Alone	NA	NA	0	0,0	0	0,0	0	0,0	1	0,1	0	0,0	0	0,0	5	0,1			106	0,3
	NA	NA	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	2	0,0			53	0,2
	NA	NA	0	0,0	0	0,0	0	0,0	1	0,1	0	0,0	0	0,0	5	0,1			55	0,2
RECIPIENTS Total number of patients transplanted Paediatric <15 years Patients transplanted from living donors	4	1,1	170	37,8	470	94,0	1332	9,3	448	58,2	257	12,2	126	11,8	3999	53,7	132	2,9	27211	86,2
	0	0,0	NA	NA	15	3,0	125	0,9	16	2,1	20	0,9	7	0,7	312	4,2	2	0,0	1314	4,2
	4	1,1	57	12,7	81	16,2	299	2,1	101	13,1	257	12,2	123	11,5	3115	41,8	127	2,8	5861	18,6

DONATION AND TRANSPLANTATION ACTIVITY

LATINAMERICAN COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA	ARGENTINA 41,1	BRAZIL 198,4	CHILI 17,4	COLOMBIA 47,6	COSTA RICA 4,8	CUBA 11,2	DOMINICANA 10,2	ECUADOR 14,9
DONATION								
	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors -both DBD and DCD included-	630	15,3	2451	12,4	149	8,6	373	7,8
Actual donors after circulatory death –DCD-	0	0,0	0	0,0	0	0,0	0	0,0
Multiorgan donors	353	8,6	1103	5,6	83	4,8	98	2,1
TRANSPLANTATION								
	Number	PMP	Number	PMP	Number	PMP	Number	PMP
KIDNEY								
Total TX. -all combinations included-	1184	28,8	5387	27,2	274	15,7	782	16,4
% (TX. from living d./ Total TX.)	23,9		24,8		25,5		11,4	
Paediatric <15 years	59	1,4	16	0,9	16	0,9	36	0,8
TX. from deceased donors	901	21,9	4051	20,4	204	11,7	693	14,6
TX. from DCD	0	0,0	0	0,0	0	0,0	0	0,0
Single TX.	897	21,8					693	14,6
Double TX.	4	0,1					0	0,0
TX. from living donors	283	6,9	1336	6,7	70	4,0	89	1,9
TX. from Related living donors	283	6,9					80	1,7
TX. from Unrelated living donors	0	0,0					9	0,2
LIVER								
Total TX. -all combinations included-	383	9,3	1576	7,9	85	4,9	216	4,5
Paediatric <15 years	65	1,6			16	0,9	37	0,8
Split TX.	30	0,7			0	0,0	4	0,1
Domino TX.	0	0,0			0	0,0	0	0,0
TX. from living donors	26	0,6	106	0,5	7	0,4	5	0,1
TX. from DCD	0	0,0	0	0,0	0	0,0	0	0,0
HEART								
Total TX. -all combinations included-	111	2,7	227	1,1	22	1,3	101	2,1
Paediatric <15 years	5	0,1			1	0,1	11	0,2
HEART-LUNG								
Total TX.	2	0,0			0	0,0	0	0,0
Paediatric <15 years	0	0,0			0	0,0	0	0,0
LUNG								
Total TX. -all combinations included-	32	0,8	81	0,4	23	1,3	13	0,3
Paediatric <15 years	3	0,1			0	0,0	0	0,0
Single TX.	9	0,2					1	0,0
Double TX. (heart-lung TX. included)	23	0,6					12	0,3
TX. from living donors	0	0,0	0	0,0	0	0,0	0	0,0
TX. from DCD (double + single)	0	0,0	0	0,0	0	0,0	0	0,0
PANCREAS								
Total TX. -all combinations included-	68	1,7	151	0,8	1	0,1	5	0,1
Paediatric <15 years	0	0,0			0	0,0	0	0,0
Pancreas TX. Alone	5	0,1	29	0,1	0	0,0	0	0,0
Kidney – Pancreas TX.	63	1,5	122	0,6	1	0,1	5	0,1
TX. from DCD	0	0,0			0	0,0	0	0,0
SMALL BOWEL								
Total TX. -all combinations included-	5	0,1			0	0,0	5	0,1
Paediatric <15 years	3	0,1	0	0,0	0	0,0	0	0,0
Small bowel TX. Alone	4	0,1	0	0,0	0	0,0	3	0,1
RECIPIENTS								
Total number of patients transplanted	1783	43,4	7300	36,8	397	22,8	1106	23,2
Paediatric <15 years	135	3,3	1442	7,3	32	1,8	84	1,8
Patients transplanted from living donors	309	7,5			77	4,4	94	2,0

DONATION AND TRANSPLANTATION ACTIVITY

LATINAMERICAN COUNTRIES

COUNTRIES Population (million inhabitants): UNFPA		GUATEMALA 15,1	MEXICO 116,1	NICARAGUA 6,0	PANAMA 3,6				PARAGUAY 6,7	PERU 29,7	URUGUAY 3,4	VENEZUELA 29,9
DONATION												
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors -both DBD and DCD included-	5	0,3	413	3,6	0	0,0	24	6,7	50	7,5	54	15,9
Actual donors after circulatory death –DCD-	0	0,0	2	0,0	0	0,0	0	0,0	0	0,0	0	0,0
Multiorgan donors	130	1,1	130	1,1	0	0,0	5	1,4	3	0,4	18	5,3
TRANSPLANTATION												
KIDNEY Total TX. -all combinations included- % (TX. from living d./ Total TX.) Paediatric <15 years TX. from deceased donors TX. from DCD Single TX. Double TX. TX. from living donors TX. from Related living donors TX. from Unrelated living donors	92	6,1	2646	22,8	11	1,8	60	16,7	47	7,0	99	29,1
	77,2		73,6		100,0		25,0		29,8		13,8	
	10	0,7	208	1,8	4	0,7	0	0,0	1	0,1	9	0,3
	8	0,5	698	6,0	0	0,0	45	12,5	33	4,9	138	4,6
	8	0,5	687	5,9	0	0,0	45	12,5	0	0,0	0	0,0
	0	0,0	11	0,1	0	0,0	0	0,0	0	0,0	138	4,6
LIVER Total TX. -all combinations included- Paediatric <15 years Split TX. Domino TX. TX. from living donors TX. from DCD	84	5,6	1948	16,8	11	1,8	15	4,2	14	2,1	22	0,7
	71	4,7	1907	16,4	11	1,8	15	4,2	14	2,1	22	0,7
	13	0,9	41	0,4	0	0,0	0	0,0	0	0,0	0	0,0
	0	0,0	106	0,9	0	0,0	5	1,4	0	0,0	27	0,9
	0	0,0	17	0,1	0	0,0	0	0,0	0	0,0	2	0,1
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
HEART Total TX. -all combinations included- Paediatric <15 years	0	0,0	43	0,4	0	0,0	0	0,0	3	0,4	7	2,1
	0	0,0	3	0,0	0	0,0	0	0,0	1	0,1	1	0,3
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
LUNG Total TX. -all combinations included- Paediatric <15 years Single TX. Double TX. (heart-lung TX. included) TX. from living donors TX. from DCD (double + single)	0	0,0	1	0,0	0	0,0	0	0,0	0	0,0	6	1,8
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	6	1,8
	1	0,0	1	0,0	0	0,0	0	0,0	0	0,0	0	0,0
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
PANCREAS Total TX. -all combinations included- Paediatric <15 years Pancreas TX. Alone Kidney – Pancreas TX. TX. from DCD	0	0,0	1	0,0	0	0,0	0	0,0	0	0,0	5	1,5
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
	1	0,0	1	0,0	0	0,0	0	0,0	0	0,0	5	1,5
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
SMALL BOWEL Total TX. -all combinations included- Paediatric <15 years Small bowel TX. Alone	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,3
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	1	0,3
	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0	0	0,0
RECIPIENTS Total number of patients transplanted Paediatric <15 years Patients transplanted from living donors	92	6,1	2796	24,1	11	1,8	65	18,1	50	7,5	130	38,2
	10	0,7	228	2,0	4	0,7	0	0,0	2	0,3	5	1,5
	84	5,6	1956	16,8	11	1,8	20	5,6	14	2,1	3	0,9

WAITING LIST

EUROPEAN UNION COUNTRIES

COUNTRIES	AUSTRIA	BELGIUM	BULGARIA	CROATIA	CYPRUS	CZECH. R.	DENMARK	ESTONIA	FINLAND	FRANCE
Population (million inhabitants): UNFPA	8,4	10,8	7,4	4,4	1,1	10,6	5,6	1,3	5,4	63,5
KIDNEY										
N° TX CENTRES	6	8	2	4	1	7	3	1	1	43
Patients included on the WL for the first time in the course of 2012	357	450	120	181	29	448	275	45	231	4265
Total number of patients ever active on the WL during 2012	1246	1445	903	405	71	1182	597	107	523	13329
Patients awaiting for a transplant only active candidates) on 31/12/2012	745	791	878	130	63	767	318	28	291	9835
Patients who died while on the WL during 2012	23	29	12	13	0	25	13	0	20	211
Patients on dialyses on 31/12/2012		978			410			300		NA
LIVER										
N° TX CENTRES	4	6	4	4	0	2	1	1	1	22
Patients included on the WL for the first time in the course of 2012	165	315	20	146	0	144	48	8	46	1721
Total number of patients ever active on the WL during 2012	287	493	47	235	0	220	74	12	57	2662
Patients awaiting for a transplant only active candidates) on 31/12/2012	103	181	43	74	0	80	20	1	1	1104
Patients who died while on the WL during 2012	44	52	0	15	0	12	3	1	0	182
HEART										
N° TX CENTRES	4	7	2	2	0	2	2	0	1	25
Patients included on the WL for the first time in the course of 2012	98	115	7	60	0	95	36	0	22	530
Total number of patients ever active on the WL during 2012	169	178	39	80	0	185	52	0	44	830
Patients awaiting for a transplant only active candidates) on 31/12/2012	76	76	34	21	0	91	21	0	17	325
Patients who died while on the WL during 2012	9	16	3	9	0	6	4	0	3	63
LUNG										
N° TX CENTRES	2	4	0		0	1	1	1	1	13
Patients included on the WL for the first time in the course of 2012	137	106	1		0	46	43	1	26	335
Total number of patients ever active on the WL during 2012	218	238	5		0	90	69	2	34	478
Patients awaiting for a transplant only active candidates) on 31/12/2012	86	81	5		0	49	32	0	5	124
Patients who died while on the WL during 2012	4	10	0		0	18	8	0	1	16
PANCREAS										
N° TX CENTRES	3	7	0	1	1	1	0	0	1	11
Patients included on the WL for the first time in the course of 2012	20	22	0	14	2	34	0	0	7	118
Total number of patients ever active on the WL during 2012	44	82	0	15	3	136	0	0	10	264
Patients awaiting for a transplant only active candidates) on 31/12/2012	26	54	0	4	2	103	0	0	3	165
Patients who died while on the WL during 2012	0			2	0	4	0	0	0	5
SMALL BOWEL										
N° TX CENTRES			0		0	1	0	0	1	5
Patients included on the WL for the first time in the course of 2012		0	0		0	0	0	0	2	8
Total number of patients ever active on the WL during 2012		0	0		0	0	0	0	2	20
Patients awaiting for a transplant only active candidates) on 31/12/2012		0	0		0	0	0	0		10
Patients who died while on the WL during 2012		0	0		0	0	0	0		2

WAITING LIST

EUROPEAN UNION COUNTRIES

COUNTRIES	GERMANY	GREECE	HUNGARY	IRELAND	ITALY	LATVIA	LITHUANIA	LUXEMBOURG	MALTA
Population (million inhabitants): UNFPA	82,0	11,4	9,9	4,6	61,0	2,2	3,3	0,5	0,4
KIDNEY									
N° TX CENTRES	43	5	4	1	41	1	2		1
Patients included on the WL for the first time in the course of 2012	3016	219	387	235	2022	21	103		25
Total number of patients ever active on the WL during 2012	11783	1331	1264	563	8584	131	317		90
Patients awaiting for a transplant (only active candidates) on 31/12/2012	7919	1029	890	502	6731	48	133		87
Patients who died while on the WL during 2012	376	72	33	14	84	2	7		
Patients on dialyses on 31/12/2012		6285		1828	NA	500	1400		250
LIVER									
N° TX CENTRES	25	1	1	1	22	0	2		0
Patients included on the WL for the first time in the course of 2012	1686	86	94	54	1186	0	34		NA
Total number of patients ever active on the WL during 2012	3942	180	221	71	2173	0	75		NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012	1868	92	151	23	943	0	31		NA
Patients who died while on the WL during 2012	514	18	25	4	156	0	9		NA
HEART									
N° TX CENTRES	24	1	2	1	16	1	2		1
Patients included on the WL for the first time in the course of 2012	610	13	48	15	391	1	28		NA
Total number of patients ever active on the WL during 2012	1694	45	69	17	1100	7	50		NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012	1012	19	25	13	697	6	21		NA
Patients who died while on the WL during 2012	170	1	9	1	97	0	14		NA
LUNG									
N° TX CENTRES	16	0	0	1	11	0	1		0
Patients included on the WL for the first time in the course of 2012	435	0	20	36	209	0	5		NA
Total number of patients ever active on the WL during 2012	1081	0	27	41	554	0	7		NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012	483	0	8	40	356	0	3		NA
Patients who died while on the WL during 2012	70	0	0	21	67	0	1		NA
PANCREAS									
N° TX CENTRES	27	0	2	1	17	0	1		0
Patients included on the WL for the first time in the course of 2012	155	0	13	2	96	0	4		NA
Total number of patients ever active on the WL during 2012	484	0	31	2	329	0	12		NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012	254	0	22	2	189	0	8		NA
Patients who died while on the WL during 2012	13	0	3	0	7	0	1		NA
SMALL BOWEL									
N° TX CENTRES		0	0	1	3	1	0		0
Patients included on the WL for the first time in the course of 2012		0	0	0	6	0	0		NA
Total number of patients ever active on the WL during 2012		0	0	0	29	0	0		NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012		0	0	0	26	0	0		NA
Patients who died while on the WL during 2012		0	0	0	2	0	0		NA

WAITING LIST

EUROPEAN UNION COUNTRIES

COUNTRIES	NETHERLANDS	POLAND	PORTUGAL	ROMANIA	SLOVAKIA	SLOVENIA	SPAIN	SWEDEN	U. K.
Population (million inhabitants): UNFPA	16,7	38,3	10,7	21,4	5,5	2,0	46,8	9,5	62,8
KIDNEY									
N° TX CENTRES	9	20	8	5	4	1	40	4	27
Patients included on the WL for the first time in the course of 2012	1156	1196	343	454	155	54		500	2252
Total number of patients ever active on the WL during 2012	1644	2683	2316	3371	537	135	4293	926	9588
Patients awaiting for a transplant (only active candidates) on 31/12/2012	855	1296	1977		376	67		455	6522
Patients who died while on the WL during 2012	94	42	29	22	41			20	288
Patients on dialyses on 31/12/2012		18626	11282	9500	4000		25211		
LIVER									
N° TX CENTRES	3	6	3	1	2	1	25	2	7
Patients included on the WL for the first time in the course of 2012	221	435	179	128	54	32	1381	169	324
Total number of patients ever active on the WL during 2012	375	614	348	475	84	43	2022	212	1537
Patients awaiting for a transplant (only active candidates) on 31/12/2012	165	179	89		33	10	639	35	503
Patients who died while on the WL during 2012	31	38	19	61	8	7	90	9	101
HEART									
N° TX CENTRES	3	6	4	2	1	1	16	2	7
Patients included on the WL for the first time in the course of 2012	64	238	48	40	30	33	335	62	137
Total number of patients ever active on the WL during 2012	136	490	65	123	51	72	433	81	432
Patients awaiting for a transplant (only active candidates) on 31/12/2012	64	305	42		20	32	112	31	213
Patients who died while on the WL during 2012	10	51	1	11	4	8	14	4	45
LUNG									
N° TX CENTRES	3	4	1	1	0		8	2	6
Patients included on the WL for the first time in the course of 2012	90	48	19	0	0		399	61	113
Total number of patients ever active on the WL during 2012	329	78	50	0	0		499	88	466
Patients awaiting for a transplant (only active candidates) on 31/12/2012	194	48	28	0	0		204	18	241
Patients who died while on the WL during 2012	20	13	2	0	0		21	8	42
PANCREAS									
N° TX CENTRES	5	4	2	2	0	1	13	3	12
Patients included on the WL for the first time in the course of 2012	38	32	11	6	0	2	93	36	179
Total number of patients ever active on the WL during 2012	72	60	64	71	0	2	222	51	592
Patients awaiting for a transplant (only active candidates) on 31/12/2012	36	24	35		0	2	125	24	267
Patients who died while on the WL during 2012	2	0	0	6	0		3	1	27
SMALL BOWEL									
N° TX CENTRES		1	0	0	0		3	1	4
Patients included on the WL for the first time in the course of 2012		2		0	0			2	20
Total number of patients ever active on the WL during 2012		4		0	0			2	36
Patients awaiting for a transplant (only active candidates) on 31/12/2012		2		0	0				17
Patients who died while on the WL during 2012		2		0	0				3

WAITING LIST

OTHER COUNTRIES

COUNTRIES	ALGERIA	ARMENIA	AUSTRALIA	AZERBAIJAN	BELARUS	CANADA	GEORGIA	ICELAND	ISRAEL	LEBANON	MACEDONIA
Population (million inhabitants): UNFPA	36,5	3,1	22,9	9,4	9,5	34,7	4,3	0,3	7,7	4,3	2,1
KIDNEY											
N° TX CENTRES	10	1	20	4	5	32	3	1	6	9	2
Patients included on the WL for the first time in the course of 2012		0	510		344		0	6	236	59	2
Total number of patients ever active on the WL during 2012		0	2052		659		0	6			NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012		0	1116		648	2531	0	0	755	129	NA
Patients who died while on the WL during 2012		0	9		11		0	0	32	1	NA
Patients on dialyses on 31/12/2012	16500		11327		1737		0	0	5795	2500	NA
LIVER											
N° TX CENTRES	1	0	8	1	1	12	0	0	4	1	0
Patients included on the WL for the first time in the course of 2012		NA	303		82		0	0	77	0	NA
Total number of patients ever active on the WL during 2012		NA	467		110		0	0		4	NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012		NA	161		35	430	0	0	164	4	NA
Patients who died while on the WL during 2012		NA	48		18		0	0	25	0	NA
HEART											
N° TX CENTRES	0	0	5		1	11	0	0	4	4	0
Patients included on the WL for the first time in the course of 2012		NA	89		45		0	0	29	15	NA
Total number of patients ever active on the WL during 2012		NA	154		93		0	0		15	NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012		NA	64		64	161	0	0	93	20	NA
Patients who died while on the WL during 2012		NA	7		9		0	0	16	3	NA
LUNG											
N° TX CENTRES	0	0	5		1	7	0	0	3	0	0
Patients included on the WL for the first time in the course of 2012		NA	171		2		0	0	48	0	NA
Total number of patients ever active on the WL during 2012		NA	270		18		0	0		0	NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012		NA	99		12	282	0	0	90	0	NA
Patients who died while on the WL during 2012		NA	11		6		0	0	18	0	NA
PANCREAS											
N° TX CENTRES	0	0	2		1	8	0	0	6	0	0
Patients included on the WL for the first time in the course of 2012		NA	85		7		0	0	5	0	NA
Total number of patients ever active on the WL during 2012		NA	128		39		0	0		0	NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012		NA	85		37	115	0	0	12	0	NA
Patients who died while on the WL during 2012		NA	2		2		0	0		0	NA
SMALL BOWEL											
N° TX CENTRES	0	0	1		1	2	0	0	1	0	0
Patients included on the WL for the first time in the course of 2012		NA	2		1		0	0	1	0	NA
Total number of patients ever active on the WL during 2012		NA	5		4		0	0		0	NA
Patients awaiting for a transplant (only active candidates) on 31/12/2012		NA	4		3	1	0	0	2	0	NA
Patients who died while on the WL during 2012		NA	0		1		0	0		0	NA

WAITING LIST

OTHER COUNTRIES

COUNTRIES	MOLDOVA	NEW ZEALAND	NORWAY	RUSSIA	SWITZERLAND	SYRIA	TUNISIA	TURKEY	UKRAINE	USA
Population (million inhabitants): UNFPA	3,5	4,5	5,0	142,7	7,7	21,1	10,7	74,5	44,9	315,8
KIDNEY										
N° TX CENTRES	2	4	1	31	6	4	6	61	7	237
Patients included on the WL for the first time in the course of 2012	8	NA	318	1152	369	NA	116	3775	NA	34834
Total number of patients ever active on the WL during 2012	10	NA	507	3276	1207	NA	1153		NA	88867
Patients awaiting for a transplant (only active candidates) on 31/12/2012	6	NA	197	2550	905	NA		18682	NA	58390
Patients who died while on the WL during 2012	0	NA	14	83	17	NA	7	1157	NA	4537
Patients on dialyses on 31/12/2012	430	NA			671	5000	9000	54892	5000	NA
LIVER										
N° TX CENTRES	2	1	1	13	3	0	2	35	2	139
Patients included on the WL for the first time in the course of 2012	0	NA	113	165	157	NA	8	623	NA	11092
Total number of patients ever active on the WL during 2012	0	NA	126	488	282	NA	12		NA	24088
Patients awaiting for a transplant (only active candidates) on 31/12/2012		NA	17	386	122	NA	7	1646	NA	12757
Patients who died while on the WL during 2012		NA	3	58	22	NA	3	474	NA	1505
HEART										
N° TX CENTRES	1	1	1	9	3	0	3	9	2	130
Patients included on the WL for the first time in the course of 2012	0	NA	39	193	66	NA	3	146	NA	3617
Total number of patients ever active on the WL during 2012	0	NA	55	339	102	NA	3		NA	5957
Patients awaiting for a transplant (only active candidates) on 31/12/2012		NA	13	168	57	NA	1	278	NA	2455
Patients who died while on the WL during 2012		NA	1	26	8	NA	2	128	NA	326
LUNG										
N° TX CENTRES	0	1	1	3	2	0	1	6		66
Patients included on the WL for the first time in the course of 2012		NA	35	26	73	NA	2	7		2322
Total number of patients ever active on the WL during 2012		NA	75	42	122	NA	6			3665
Patients awaiting for a transplant (only active candidates) on 31/12/2012		NA	44	24	61	NA	2	9		1298
Patients who died while on the WL during 2012		NA	0	13	6	NA		10		230
PANCREAS										
N° TX CENTRES	0	0	1	4	3	0	0	4		138
Patients included on the WL for the first time in the course of 2012		NA	37	42	33	NA	NA	35		1807
Total number of patients ever active on the WL during 2012		NA	45	110	84	NA	NA			3975
Patients awaiting for a transplant (only active candidates) on 31/12/2012		NA	16	77	51	NA	NA	218		1376
Patients who died while on the WL during 2012		NA	0	7	2	NA	NA	9		166
SMALL BOWEL										
N° TX CENTRES	0	0	0	0	2	0	0	4		42
Patients included on the WL for the first time in the course of 2012		NA	0		1	NA	NA	0		155
Total number of patients ever active on the WL during 2012		NA	0		3	NA	NA			347
Patients awaiting for a transplant (only active candidates) on 31/12/2012		NA	0		0	NA	NA	0		176
Patients who died while on the WL during 2012		NA	0		0	NA	NA	0		13

WAITING LIST

LATINAMERICAN COUNTRIES

COUNTRIES	ARGENTINA	BRAZIL	CHILI	COLOMBIA	COSTA RICA	CUBA	DOMINICANA	ECUADOR
Population (million inhabitants): UNFPA	41,1	198,4	17,4	47,6	4,8	11,2	10,2	14,9
KIDNEY								
N° TX CENTRES	55	117	22	23	5	9	7	11
Patients included on the WL for the first time in the course of 2012	2021	6451	419			82	46	171
Total number of patients ever active on the WL during 2012	8112	26589	1916			532	118	212
Patients awaiting for a transplant (only active candidates) on 31/12/2012	5957	19926	1518	1120		412	71	117
Patients who died while on the WL during 2012	370	250		51			21	0
Patients on dialyses on 31/12/2012	27674	97000	18008	20624		2840	2100	
LIVER								
N° TX CENTRES	22	56	8	6	3	3	1	2
Patients included on the WL for the first time in the course of 2012	683	1714	160			16	3	17
Total number of patients ever active on the WL during 2012	1522	2120	324			28	9	23
Patients awaiting for a transplant (only active candidates) on 31/12/2012	839	1256	145	72		12	9	8
Patients who died while on the WL during 2012	139	150	37	16		2	1	1
HEART								
N° TX CENTRES	25	49	7	8	1	1	2	1
Patients included on the WL for the first time in the course of 2012	171	237	63			5	6	3
Total number of patients ever active on the WL during 2012	272	285	70			8	21	8
Patients awaiting for a transplant (only active candidates) on 31/12/2012	102	205	10	24		4	24	4
Patients who died while on the WL during 2012	48	37		5		1	3	4
LUNG								
N° TX CENTRES	12	7	4	1	1	1	0	0
Patients included on the WL for the first time in the course of 2012	92	68	68			0	0	0
Total number of patients ever active on the WL during 2012	240	175	99			0	0	0
Patients awaiting for a transplant (only active candidates) on 31/12/2012	148	162	47	6		0	0	0
Patients who died while on the WL during 2012	33	21		0		0	0	0
PANCREAS								
N° TX CENTRES	13	18	2	4	1	1	0	1
Patients included on the WL for the first time in the course of 2012	184	122	1			0	0	0
Total number of patients ever active on the WL during 2012	215	725	5			0	0	1
Patients awaiting for a transplant (only active candidates) on 31/12/2012	131	484	3	8		0	0	1
Patients who died while on the WL during 2012	16	10		0		0	0	0
SMALL BOWEL								
N° TX CENTRES	4	0	0	2	0	0	0	0
Patients included on the WL for the first time in the course of 2012	7	0	0			0	0	0
Total number of patients ever active on the WL during 2012	14	0	0			0	0	0
Patients awaiting for a transplant (only active candidates) on 31/12/2012	7	0	0	3		0	0	0
Patients who died while on the WL during 2012	0	0	0	0		0	0	0

WAITING LIST

LATINAMERICAN COUNTRIES

COUNTRIES	GUATEMALA	MEXICO	NICARAGUA	PANAMA	PARAGUAY	PERU	URUGUAY	VENEZUELA
Population (million inhabitants): UNFPA	15,1	116,1	6,0	3,6	6,7	29,7	3,4	29,9
KIDNEY								
N° TX CENTRES	3	221	3	1	5	6	4	15
Patients included on the WL for the first time in the course of 2012		4223		54	0		109	417
Total number of patients ever active on the WL during 2012		12291		268	121		572	1397
Patients awaiting for a transplant (only active candidates) on 31/12/2012		9107		198			467	1137
Patients who died while on the WL during 2012		10		9			15	23
Patients on dialyses on 31/12/2012		1000		1704			3023	15031
LIVER								
N° TX CENTRES		62	0	1	0	4	1	2
Patients included on the WL for the first time in the course of 2012		239	0	6	0		21	5
Total number of patients ever active on the WL during 2012		560	0	11	0	8	39	6
Patients awaiting for a transplant (only active candidates) on 31/12/2012		404	0	6	0	8	21	12
Patients who died while on the WL during 2012		16	0	0	0		1	4
HEART								
N° TX CENTRES		42	0	0	3	3	3	1
Patients included on the WL for the first time in the course of 2012		62	0	0	9		15	
Total number of patients ever active on the WL during 2012		103	0	0	13	4	37	
Patients awaiting for a transplant (only active candidates) on 31/12/2012		50	0	0	8	4	24	
Patients who died while on the WL during 2012		5	0	0	2		6	
LUNG								
N° TX CENTRES		7	0	0	0	2	0	0
Patients included on the WL for the first time in the course of 2012		5	0	0	0		2	0
Total number of patients ever active on the WL during 2012		10	0	0	0		3	0
Patients awaiting for a transplant (only active candidates) on 31/12/2012		6	0	0	0		7	0
Patients who died while on the WL during 2012		0	0	0	0		1	0
PANCREAS								
N° TX CENTRES		17	0	0	0	2	1	0
Patients included on the WL for the first time in the course of 2012		3	0	0	0		10	0
Total number of patients ever active on the WL during 2012		20	0	0	0		35	0
Patients awaiting for a transplant (only active candidates) on 31/12/2012		16	0	0	0		26	0
Patients who died while on the WL during 2012		0	0	0	0		4	0
SMALL BOWEL								
N° TX CENTRES		2	0	0	0	0	0	0
Patients included on the WL for the first time in the course of 2012		0	0	0	0	0	1	0
Total number of patients ever active on the WL during 2012		0	0	0	0	0	2	0
Patients awaiting for a transplant (only active candidates) on 31/12/2012		0	0	0	0	0	2	0
Patients who died while on the WL during 2012		0	0	0	0	0	0	0

FAMILY REFUSALS

EUROPEAN UNION COUNTRIES

COUNTRIES	AUSTRIA	BELGIUM	BULGARIA	CROATIA	CYPRUS	CZECH. R.	DENMARK	ESTONIA	FINLAND	FRANCE
Population (million inhabitants): UNFPA	8,4	10,8	7,4	4,4	1,1	10,6	5,6	1,3	5,4	63,5

Number of interviews, asking for consent to donation	9	216	49	NA
Number of family refusals (%)	0	30 (13,9)	12 (24,5)	727

COUNTRIES	GERMANY	GREECE	HUNGARY	IRELAND	ITALY	LATVIA	LITHUANIA	LUXEMBOURG	MALTA
Population (million inhabitants): UNFPA	82,0	11,4	9,9	4,6	61,0	2,2	3,3	0,5	0,4

Number of interviews, asking for consent to donation	117	2271	87
Number of family refusals (%)	40 (34,2)	592 (26,1)	35 (40,2)

COUNTRIES	NETHERLANDS	POLAND	PORTUGAL	ROMANIA	SLOVAKIA	SLOVENIA	SPAIN	SWEDEN	U. K.
Population (million inhabitants): UNFPA	16,7	38,3	10,7	21,4	5,5	2,0	46,8	9,5	62,8

Number of interviews, asking for consent to donation	626	154	2906
Number of family refusals (%)	70 (11,2)	45 (29,2)	305 (15,6)
			1236 (42,5)

OTHER COUNTRIES

COUNTRIES	ALGERIA	ARMENIA	AUSTRALIA	AZERBAIJAN	CANADA	GEORGIA	ICELAND	ISRAEL	LEBANON	MACEDONIA
Population (million inhabitants): UNFPA	36,5	3,1	22,9	9,4	34,7	4,3	0,3	7,7	4,3	2,1

Number of interviews, asking for consent to donation	0	517	121	NA
Number of family refusals (%)	0	216 (41,8)	64 (52,9)	NA

COUNTRIES	MOLDOVA	NEW ZEALAND	NORWAY	RUSSIA	SWITZERLAND	SYRIA	TUNISIA	TURKEY	UKRAINE	USA
Population (million inhabitants): UNFPA	3,5	4,5	5,0	142,7	7,7	21,1	10,7	74,5	44,9	315,8

Number of interviews, asking for consent to donation	3	117	0	NA	25	1477	10
Number of family refusals (%)	3 (100,0)	21 (17,9)	0	NA	24 (96,0)	1132 (76,6)	5 (50,0)

LATINAMERICAN COUNTRIES

COUNTRIES	ARGENTINA	BRAZIL	CHILI	COLOMBIA	COSTA RICA	CUBA	DOMINICANA	ECUADOR
Population (million inhabitants): UNFPA	41,1	198,4	17,4	47,6	4,8	11,2	10,2	14,9

Number of interviews, asking for consent to donation	4575	630	121	71	97
Number of family refusals (%)	1703 (37,2)	159 (25,2)	10 (8,3)	17 (23,9)	16 (16,5)

COUNTRIES	GUATEMALA	MEXICO	NICARAGUA	PANAMA	PARAGUAY	PERU	URUGUAY	VENEZUELA
Population (million inhabitants): UNFPA	15,1	116,1	6,0	3,6	6,7	29,7	3,4	29,9

Number of interviews, asking for consent to donation	0	34	245	25	282
Number of family refusals (%)	0	10 (29,4)	151 (61,3)	7 (28,0)	83 (29,4)

International Data On Tissue And Hematopoietic Stem Cell Donation And Transplantation Activity. Year 2012



DATA PROVIDED BY NATIONAL COMPETENT AUTHORITIES:

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PRELIMINARY DATA ON TISSUES - YEAR 2012

EUROPEAN UNION COUNTRIES

Country Population (Font: eurostat/ UNFPA)	AUSTRIA 8.443.018	BELGIUM 11.094.850	BULGARIA 7.327.224	CROATIA 4.398.150	CZECH REP. 10.505.445	DENMARK 5.573.894	ESTONIA 1.294.486	FINLAND 5.401.267	FRANCE 65.327.724
TYPE OF TISSUE	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
CORNEA									
N° of tissue donations	413	73	178	40	502	134	4,947		
Tissue donation PMP	37,2	10,0	40,5	30,9	47,8	24,8	75,7		
N° of tissue retrieved	973	145	374	48	998	273	9,918		
N° tissue processed (units)	740	NR	193	46	676	NR	9,918		
N° tissue distributed (units)	906	NR	133	46	676	NR	4,372		
N° tissue imported (units)	45	0	54	0	0	4	0		
N° tissue exported (units)	0	0	0	0	127	0	145		
N° of tissues transplanted	0	1,10	208	46	0	0	3,372		
N° of patients transplanted	0	NR	208	49	676	NR	3,204		
N° of transplants	0	110	208	49	676	NR	0		
SKIN									
N° of tissue donations	106	166	8	0	44	32	185		
Tissue donation PMP	16	42,766	8	0	12	5,9	2,8		
N° of tissue retrieved (cm²)	192.946	42,766	UK	0	0	NR	101.036		
N° tissue processed (units)	0	NR	UK	0	0	NR	UK		
N° tissue distributed (units)	0	0	0	0	0	0	17.410		
N° tissue imported (units)	0	0	0	0	1,019	0	0		
N° tissue exported (units)	0	61	17	0	0	0	295.905		
N° of tissues transplanted	0	32	1	0	926	15	101		
N° of patients transplanted	0	61	0	0	926	0	0		
N° of transplants	0	61	0	0	926	0	0		
CARDIAC TISSUE									
N° of tissue donations	274	0	19	0	53	NR	163		
Tissue donation PMP	24,7	0,0	4,3	0,0	5,0	0,0	2,5		
N° of tissue retrieved	549	0	9	0	90	231	368		
N° tissue processed (units)	521	0	31	0	72	NR	272		
N° tissue distributed (units)	0	0	0	0	0	0	207		
N° tissue imported (units)	188	0	1	0	0	0	16		
N° tissue exported (units)	0	0	0	0	0	0	0		
N° of tissues transplanted	0	0	0	0	0	0	207		
N° of patients transplanted	0	0	0	0	72	NR	206		
N° of transplants	0	0	0	0	72	NR	0		
BLOOD VESSEL									
N° of tissue donations	207	0	0	19	10	NR	283		
Tissue donation PMP	18,7	0,0	0	14,7	1,0	0,0	4,3		
N° of tissue retrieved	456	0	22	43	19	14	4,477		
N° tissue processed (units)	349	0	0	43	12	NR	4,477		
N° tissue distributed (units)	319	0	0	28	12	NR	1,341		
N° tissue imported (units)	0	0	0	0	0	0	59		
N° tissue exported (units)	140	0	0	0	0	0	10,41		
N° of tissues transplanted	0	0	0	48	0	NR	515		
N° of patients transplanted	0	0	0	49	12	NR	0		
N° of transplants	0	0	0	49	12	NR	0		
MUSCULOSKELETAL									
N° of tissue donations	5,787	137	240	30	232	NR	60		
Tissue donation PMP	12,197	2,834	236	2,2	12,13	0,343	9,102		
N° of tissue retrieved	2,972	NR	251	106	3,717	NR	22,246		
N° tissue processed (units)	14,653	NR	156	98	3,744	NR	31,540		
N° tissue distributed (units)	135	0	0	4	0	93	3,796		
N° tissue imported (units)	275	0	0	0	0	NR	1,180		
N° tissue exported (units)	0	95	47	94	0	NR	31,540		
N° of tissues transplanted	0	NR	47	86	2,136	NR	24,152		
N° of patients transplanted	0	95	47	86	2,136	NR	0		
N° of transplants	0	95	47	86	2,136	NR	0		
PLACENTA/AMNIOTIC MEMBRANE									
N° of tissue donations	21	14	1	32	0	12	0		
Tissue donation PMP	1,9	1,9	0,2	24,7	0,0	2,2	0,0		
N° of tissue retrieved	21	NR	59	32	16	12	8,1		
N° tissue processed (units)	106	NR	59	75	41	NR	2,398		
N° tissue distributed (units)	0	0	0	0	0	0	0		
N° tissue imported (units)	0	0	0	0	3	29	0		
N° tissue exported (units)	0	107	7	31	0	NR	2,398		
N° of tissues transplanted	0	NR	7	75	36	NR	0		
N° of patients transplanted	0	107	7	75	36	NR	0		
N° of transplants	0	107	7	75	36	NR	0		
OTHERS									
N° of tissue donations	213	34	0	0	0	NR	0		
Tissue donation PMP	19,2	4,6	0,0	0,0	0,0	NR	0,0		
N° of tissue retrieved	1,213	34	0	0	0	NR	1		
N° tissue processed (units)	389	NR	0	0	65	NR	0		
N° tissue distributed (units)	1,305	NR	0	0	65	NR	0		
N° tissue imported (units)	0	0	0	0	3	NR	0		
N° tissue exported (units)	1	0	0	0	0	NR	0		
N° of tissues transplanted	0	0	0	0	3	NR	0		
N° of patients transplanted	0	0	0	0	848	NR	0		
N° of transplants	0	0	0	0	848	NR	0		
OVARIAN & TESTICULAR TISSUES									
N° of tissue donations	0	0	0	0	0	0	0		
Tissue donation PMP	0	0	0	0	0	0	0		
N° of tissue retrieved	0	0	0	0	0	0	0		
N° tissue processed (units)	0	0	0	0	0	0	0		
N° tissue distributed (units)	0	0	0	0	0	0	0		
N° tissue imported (units)	0	0	0	0	0	0	0		
N° tissue exported (units)	0	0	0	0	0	0	0		
N° of tissues transplanted	0	0	0	0	0	0	0		
N° of patients transplanted	0	0	0	0	0	0	0		
N° of transplants	0	0	0	0	0	0	0		

PRELIMINARY DATA ON TISSUES - YEAR 2012

EUROPEAN UNION COUNTRIES

Country Population (Font: eurostat/ UNFPA)	GERMANY 81.843.743	GREECE 11.290.067	HUNGARY 9.932.000	IRELAND 4.582.769	ITALY 59.394.207	LATVIA 2.041.763	LITHUANIA 3.003.641	LUXEMBOURG 524.853	MALTA 417.520
TYPE OF TISSUE	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
CORNEA									
N. of tissue donations									
Tissue donation PMP			263		7.529	0,0	29	3	
N° of tissue retrieved			26,5		126,8	0,0	9,7	3,8	
N° tissue processed (units)			288		15.071	26	58	0	
N° tissue distributed (units)			586		12.377	0	58	0	
N° tissue imported (units)			10		6.575	0	53	0	
N° tissue exported (units)					12	0	0	0	
N° of tissues transplanted			177		480	0	53	0	
N° of patients transplanted			174		4007	26	49	0	
N° of transplants			177		0	26	53	0	
SKIN									
N. of tissue donations			4		339	0,0	NE	0,0	
Tissue donation PMP			0,4		1.020.489	0,0	NE	0,0	
N° of tissue retrieved			0		377	0	NE	0	
N° tissue processed (units)			0		0	0	NE	0	
N° tissue distributed (units)			0		4.490	0	NE	0	
N° tissue imported (units)			0		330	0	NE	0	
N° tissue exported (units)			4		0	0	NE	0	
N° of tissues transplanted			4		1.647	0	NE	0	
N° of patients transplanted			4		0	0	NE	0	
N° of transplants			4		0	0	NE	0	
CARDIAC TISSUE									
N. of tissue donations			0		231	0	NE	0,0	
Tissue donation PMP			0,0		39	0,0	0,0	0,0	
N° of tissue retrieved			20		366	0	NE	0	
N° tissue processed (units)			14		184	0	NE	0	
N° tissue distributed (units)			0		0	0	NE	0	
N° tissue imported (units)			0		0	0	NE	0	
N° tissue exported (units)			3		190	0	NE	0	
N° of tissues transplanted			3		0	0	NE	0	
N° of patients transplanted			3		0	0	NE	0	
N° of transplants			3		0	0	NE	0	
BLOOD VESSEL									
N. of tissue donations			0,0		848	0,0	NE	0,0	
Tissue donation PMP			0,0		14,3	0,0	0,0	0,0	
N° of tissue retrieved			0		1.152	0	NE	0	
N° tissue processed (units)			0		1.152	0	NE	0	
N° tissue distributed (units)			0		473	0	NE	0	
N° tissue imported (units)			0		0	0	NE	0	
N° tissue exported (units)			0		0	0	NE	0	
N° of tissues transplanted			0		262	0	NE	0	
N° of patients transplanted			0		0	0	NE	0	
N° of transplants			0		0	0	NE	0	
MUSCULOSKELETAL									
N. of tissue donations			449		3.844	18	86	1	
Tissue donation PMP			45,2		6.477	88	25,6	1,9	
N° of tissue retrieved			449		8.149	292	15,1	0	
N° tissue processed (units)			1.122		0	0	67	0	
N° tissue distributed (units)			623		16.824	0	0	0	
N° tissue imported (units)			0		0	0	0	0	
N° tissue exported (units)			0		0	0	0	0	
N° of tissues transplanted			213		7.297	232	67	0	
N° of patients transplanted			190		0	232	67	0	
N° of transplants			142		0	232	67	0	
PLACENTA/AMNIOTIC MEMBRANE									
N. of tissue donations			1		178	0	14	0	
Tissue donation PMP			0,1		3,0	0,0	4,7	0,0	
N° of tissue retrieved			60		0	0	1,7	0	
N° tissue processed (units)			20		1.364	0	126	0	
N° tissue distributed (units)			0		50	0	75	0	
N° tissue imported (units)			0		0	0	0	0	
N° tissue exported (units)			20		981	0	75	0	
N° of tissues transplanted			20		0	0	75	0	
N° of patients transplanted			20		0	0	75	0	
N° of transplants			20		0	0	75	0	
OTHERS									
N. of tissue donations			9		0	0,0	NE	0,0	
Tissue donation PMP			0,9		0,0	0,0	0,0	0,0	
N° of tissue retrieved			9		0	0	NE	0	
N° tissue processed (units)			280		0	0	NE	0	
N° tissue distributed (units)			0		0	0	NE	0	
N° tissue imported (units)			0		0	0	NE	0	
N° tissue exported (units)			0		0	0	NE	0	
N° of tissues transplanted			20		0	0	NE	0	
N° of patients transplanted			18		0	0	NE	0	
N° of transplants			18		0	0	NE	0	
OVARIAN & TESTICULAR TISSUES									
N. of tissue donations			0		0	0	0	0	
Tissue donation PMP			0		0	0	0	0	
N° of tissue retrieved			4		0	0	0	0	
N° tissue processed (units)			0		0	0	0	0	
N° tissue distributed (units)			0		0	0	0	0	
N° tissue imported (units)			0		0	0	0	0	
N° tissue exported (units)			0		0	0	0	0	
N° of tissues transplanted			0		0	0	0	0	
N° of patients transplanted			0		0	0	0	0	
N° of transplants			0		0	0	0	0	

PRELIMINARY DATA ON TISSUES - YEAR 2012

EUROPEAN UNION COUNTRIES

Country	Population (Font: eurostat/ UNFPA)	NETHERLANDS	POLAND	PORTUGAL	ROMANIA	SLOVAKIA	SLOVENIA	SPAIN	SWEDEN	U. KINGDOM
		16.730.348	38.538.447	10.542.398	21.355.849	5.404.322	2.055.496	46.196.276	9.482.855	63.256.141
TYPE OF TISSUE	TYPE OF DATA	NO DATA								
CORNEA	N. of tissue donations	1.635	559	448	48	99		2.735	516	NR
	Tissue donation PMP	977	14,5	42,5	22	18,3		59,2	54,4	0,0
	N° of tissue retrieved	3.239	1.104	905	48	186		4.808	859	7.040
	N° tissue processed (units)	3.906	1.056	NE	0	186		4.808	859	3.309
	N° tissue distributed (units)	2.603	855	NE	0	118		2.743	829	3.752
	N° tissue imported (units)	934	0	136	89	0		10	0	615
	N° tissue exported (units)	1.344	0	0	0	0		0	0	NR
	N° of tissues transplanted	1.419	0	NE	137	0		3.264	0	NR
	N° of patients transplanted	1.434	0	NE	137	113		3.248	0	NR
	N° of transplants	1.434	0	799	137	118		0	0	NR
SKIN	N. of tissue donations	495	39	1	4	3		94	83	NR
	Tissue donation PMP	29,6	1,0	0,1	0,2	0,6		2,0	8,8	0,0
	N° of tissue retrieved (cm²)	1.930.500	32.571	706	6.200	18.535		217.016	68.600	347
	N° tissue processed (units)	0	311	44	0	0		0	102	322
	N° tissue distributed (units)	11.251	690	1	0	0		0	51	4.180
	N° tissue imported (units)	0	0	74	0	0		0	0	1.225
	N° tissue exported (units)	10.051	0	0	0	0		0	0	0
	N° of tissues transplanted	167	0	0	0	0		105.065	6	NR
	N° of patients transplanted	92	0	NE	0	0		44	14	NR
	N° of transplants	92	0	NE	3	0		0	0	NR
CARDIAC TISSUE	N. of tissue donations	220	179	22	0	11		192	150	NR
	Tissue donation PMP	131	4,6	2,1	0	2,0		4,2	1,8	0,0
	N° of tissue retrieved	NE	358	5,1	0	15		350	323	985
	N° tissue processed (units)	452	230	10	0	9		350	323	931
	N° tissue distributed (units)	129	160	5	0	0		149	302	566
	N° tissue imported (units)	0	0	0	0	0		0	0	37
	N° tissue exported (units)	47	5	0	0	0		65	0	37*
	N° of tissues transplanted	6	0	NE	0	0		77	0	NR
	N° of patients transplanted	6	0	NE	0	0		0	169	NR
	N° of transplants	6	0	NE	0	0		0	0	NR
BLOOD VESSEL	N. of tissue donations	27	2	0	0	3		175	50	NR
	Tissue donation PMP	16	0,1	0	0	0,6		3,6	0,2	0,0
	N° of tissue retrieved	NE	3	0	0	0		36	238	238
	N° tissue processed (units)	27	3	0	0	0		369	118	107
	N° tissue distributed (units)	19	0	0	0	0		266	34	16
	N° tissue imported (units)	2	0	0	0	0		0	0	0*
	N° tissue exported (units)	19	0	0	0	0		20	133	0
	N° of tissues transplanted	2	0	0	0	0		191	0	NR
	N° of patients transplanted	2	0	0	0	0		167	0	NR
	N° of transplants	2	0	0	0	0		0	0	NR
MUSCULOSKELETAL	N. of tissue donations	128	365	48	137	411		2.123	1.896	NR
	Tissue donation PMP	77	9,5	4,6	6,4	76,1		46,0	199,9	0,0
	N° of tissue retrieved	NE	27	2,9	137	420		141	1.383	0,0
	N° tissue processed (units)	14.646	4.030	259	137	420		1.138	2.685	2.685
	N° tissue distributed (units)	36.649	9.657	1.321	89	294		14.630	1.201	28.851
	N° tissue imported (units)	367	0	91	13	0		901	58	11.985
	N° tissue exported (units)	26.622	0	0	0	167		432	37	2.452*
	N° of tissues transplanted	3.349	0	NE	102	0		10.610	0	NR
	N° of patients transplanted	3.167	0	NE	73	273		9.010	1.103	NR
	N° of transplants	7.640	0	NE	73	294		0	0	NR
PLACENTA/AMNIOTIC MEMBRANE	N. of tissue donations	0	65	35	0	24		68	6	NR
	Tissue donation PMP	0	1,7	3,3	0	4,4		1,5	0,6	0,0
	N° of tissue retrieved	0	89	37	0	27		1.936	305	0,0
	N° tissue processed (units)	91	812	145	0	184		1.761	346	16
	N° tissue distributed (units)	0	0	0	0	0		0	0	778
	N° tissue imported (units)	21	0	0	0	0		0	0	778*
	N° tissue exported (units)	31	0	145	0	0		1.575	0	NR
	N° of tissues transplanted	31	0	NE	NE	132		1.428	0	NR
	N° of patients transplanted	31	0	NE	NE	168		0	0	NR
	N° of transplants	31	0	NE	NE	168		0	0	NR
OTHERS	N. of tissue donations	0	0	0	0	0		0	0	NR
	Tissue donation PMP	0	0	0	0	0		0	0	0,0
	N° of tissue retrieved	0	0	0	0	0		0	0	3.173
	N° tissue processed (units)	456	0	0	0	0		0	0	13.907
	N° tissue distributed (units)	0	0	0	0	0		0	0	13.907
	N° tissue imported (units)	90	0	0	0	0		0	0	2.558
	N° tissue exported (units)	63	0	0	0	0		0	0	NR
	N° of tissues transplanted	62	0	0	NE	0		0	0	NR
	N° of patients transplanted	62	0	0	NE	0		0	0	NR
	N° of transplants	NE	0	0	NE	0		0	0	NR
OVARIAN & TESTICULAR TISSUES	N. of tissue donations	0	0	0	0	0		0	0	NR
	Tissue donation PMP	0	0	0	0	0		0	0	NR
	N° of tissue retrieved	91	0	0	0	0		0	0	0
	N° tissue processed (units)	0	0	0	0	0		0	26	0
	N° tissue distributed (units)	0	0	0	0	0		0	0	0
	N° tissue imported (units)	0	0	0	0	0		0	0	0
	N° tissue exported (units)	0	0	0	0	0		0	0	0
	N° of tissues transplanted	7	0	0	0	0		0	0	NR
	N° of patients transplanted	7	0	0	0	0		0	0	NR
	N° of transplants	1	0	0	0	0		0	0	NR

* only extra EU

PRELIMINARY DATA ON TISSUES - YEAR 2012

OTHER COUNTRIES

Country Population (Font: eurostat/ UNFPA)	ALGERIA 36,5	ICELAND 319.575	ISRAEL 7,7	MACEDONIA 2.059.794	MOLDOVA 3.500.000	NORWAY 4.985.870	SWITZERLAND 7.954.662	TUNISIA 10,7	TURKEY 74.724.269
TYPE OF TISSUE	TYPE OF DATA	NO DATA	ISRAEL 7,7	MACEDONIA 2.059.794	MOLDOVA 3.500.000	NORWAY 4.985.870	SWITZERLAND 7.954.662	TUNISIA 10,7	TURKEY 74.724.269
CORNEA	N. of tissue donations		818		NE	63		430	1.913
	Tissue donation PMP		106,2		0,0	126		40,2	25,6
	N° of tissue retrieved		0		0,0	126		371	2.074
	N° tissue processed (units)		0		0,0	86		0	0
	N° tissue distributed (units)		0		0,0	119		0	0
	N° tissue imported (units)		0		0,0	196		0	0
	N° tissue exported (units)		0		0,0	946		946	0
	N° of patients transplanted		320		0,0	196		946	0
SKIN	N° of transplants		0		0,0	196		946	0
	N. of tissue donations		57		2,6	0,0		0,0	0,0
	Tissue donation PMP		7,4		1.700	0,0		0,0	0,0
	N° of tissue retrieved		0		NE	0,0		0,0	0,0
	N° tissue processed (units)		0		NE	0,0		0,0	0,0
	N° tissue distributed (units)		0		0,0	0,0		0,0	0,0
	N° tissue imported (units)		0		0,0	0,0		0,0	0,0
	N° tissue exported (units)		0		0,0	0,0		0,0	0,0
CARDIAC TISSUE	N° of tissues transplanted		0		3	0,0		0	0
	N° of patients transplanted		0		3	0,0		0	0
	N. of tissue donations		19		0,0	0,0		0,00	5
	Tissue donation PMP		2,50		0,0	0,0		0,0	0,1
	N° of tissue retrieved		0		0,0	0,0		0,0	5
	N° tissue processed (units)		0		0,0	0,0		0,0	0,0
	N° tissue distributed (units)		0		0,0	0,0		0,0	0,0
	N° tissue imported (units)		0		0,0	0,0		0,0	0,0
BLOOD VESSEL	N° tissue exported (units)		0		0,0	0,0		0,0	0,0
	N° of tissues transplanted		0		0,0	0,0		0,0	0,0
	N° of patients transplanted		0		0,0	0,0		0,0	0,0
	N. of tissue donations		0,0		0,0	0,0		0,0	0,0
	Tissue donation PMP		0,0		0,0	0,0		0,0	0,0
	N° of tissue retrieved		0		0,0	0,0		0,0	0,0
	N° tissue processed (units)		0		0,0	0,0		0,0	0,0
	N° tissue distributed (units)		0		0,0	0,0		0,0	0,0
MUSCULOSKELETAL	N° tissue imported (units)		0		0,0	0,0		0,0	0,0
	N° tissue exported (units)		0		0,0	0,0		0,0	0,0
	N° of tissues transplanted		0		0,0	0,0		0,0	0,0
	N° of patients transplanted		0		0,0	0,0		0,0	0,0
	N. of tissue donations		12		13	178		58	0,0
	Tissue donation PMP		1,6		37	35,7		34	0,0
	N° of tissue retrieved		0		51	37,4		36	0,0
	N° tissue processed (units)		0		184	199		0	0,0
PLACENTA/AMNIOTIC MEMBRANE	N° tissue distributed (units)		0		181	115		0	0,0
	N° tissue imported (units)		0		0	40		0	0,0
	N° tissue exported (units)		0		0	0		0	0,0
	N° of tissues transplanted		0		0	257		11	0,0
	N° of patients transplanted		0		145	236		11	0,0
	N. of tissue donations		0		120	277		0	0,0
	Tissue donation PMP		0		121			0	0,0
	N° of tissue retrieved		0,0		NE	1		0,0	0,0
OTHERS	N° tissue processed (units)		0,0		0,0	0,2		0,0	0,0
	N° tissue distributed (units)		0		NE	40		0,0	0,0
	N° tissue imported (units)		0		NE	30		0,0	0,0
	N° tissue exported (units)		0		NE	0		0,0	0,0
	N° of tissues transplanted		0		NE	68		0,0	0,0
	N° of patients transplanted		0		NE	48		0,0	0,0
	N. of tissue donations		0,0		NE	48		0,0	0,0
	Tissue donation PMP		0,0		0,0	0,0		0,0	0,0
OVARIAN & TESTICULAR TISSUES	N° of tissue retrieved		0,0		0,0	0,0		0,0	0,0
	N° tissue processed (units)		0		0,0	64		0,0	0,0
	N° tissue distributed (units)		0		0,0	0,0		0,0	0,0
	N° tissue imported (units)		0		0,0	0,0		0,0	0,0
	N° tissue exported (units)		0		0,0	0,0		0,0	0,0
	N° of tissues transplanted		0		0,0	0,0		0,0	0,0
	N° of patients transplanted		0		0,0	0,0		0,0	0,0
	N. of tissue donations		0,0		0,0	0,0		0,0	0,0

PRELIMINARY DATA ON TISSUES - YEAR 2012

LATINAMERICAN COUNTRIES

Country	ARGENTINA	BRAZIL	CHILI	COLOMBIA	COSTA RICA	CUBA	DOMINICANA	ECUADOR
Population (Font: eurostat/ UNFPA)	41,1	198,4	17,4	47,6	4,8	11,2	10,2	14,9
TYPE OF TISSUE	NO DATA				NO DATA			
CORNEA	N. of tissue donations	27.595		1.710	265	1.175		115
	Tissue donation PMP	0		35,9	55,2	104,9		7,7
	N° of tissue retrieved	0		1.710	0	585		228
	N° of tissues transplanted	1.071		1.856	0	0		170
	N° of patients transplanted	1.062		1.856	0	585		170
SKIN	N° of transplants	1.071		1.856	263	585		170
	N. of tissue donations	0	131	85	9	0	0	0
	Tissue donation PMP	0,0	0,7	1,8	1,9	0,0	0,0	0,0
	N° of tissue retrieved (cm²)	0	57.629	85	13.652	0	0	0
	N° of tissues transplanted	24.487	42.170	70	0	0	0	0
CARDIAC TISSUE	N° of patients transplanted	61	0	70	0	0	0	0
	N° of transplants	61	0	70	44	0	0	0
	N. of tissue donations	17	272	72	8	0	0	0
	Tissue donation PMP	0,40	1,40	1,50	1,70	0,00	0,0	0,0
	N° of tissue retrieved	0	544	72	8	0	0	0
BLOOD VESSEL	N° of tissues transplanted	229	275	77	0	0	0	0
	N° of patients transplanted	225	0	77	0	0	0	0
	N° of transplants	229	0	77	5	0	0	0
	N. of tissue donations	0	0	0	6	0	0	0
	Tissue donation PMP	0,0	0,0	0,0	1,3	0,0	0,0	0,0
MUSCULOSKELETAL	N° of tissue retrieved	0	0	0	10	0	0	0
	N° of tissues transplanted	0	0	0	0	0	0	0
	N° of patients transplanted	0	0	0	0	0	0	0
	N° of transplants	0	0	0	5	0	0	0
	N. of tissue donations	1.537	1.681	1.053	0	381	0	0
PLACENTA/AMNIOTIC MEMBRANE	Tissue donation PMP	37,4	8,5	22,1	0,0	34,0	0,0	0,0
	N° of tissue retrieved	0	23.637	1.053	0	381	0	0
	N° of tissues transplanted	10.987	24.028	16.198	0	0	0	0
	N° of patients transplanted	6.068	0	16.198	0	160	0	0
	N° of transplants	10.987	0	16.198	0	161	0	0
OTHERS	N. of tissue donations	137	0	7	6	0	0	0
	Tissue donation PMP	3,3	0,0	0,1	1,3	0,0	0,0	0,0
	N° of tissue retrieved	0	0	7	6	0	0	0
	N° of tissues transplanted	4.876	0	464	0	0	0	0
	N° of patients transplanted	379	0	464	0	115	0	0
	N° of transplants	379	0	464	1	128	0	0
	N. of tissue donations	0	0	0	0	52	0	0
	Tissue donation PMP	0,0	0,0	0,0	0,0	4,6	0,0	0,0
	N° of tissue retrieved	0	0	0	0	42	0	0
	N° of tissues transplanted	0	0	0	0	0	0	0
	N° of patients transplanted	0	0	0	0	0	0	0
	N° of transplants	0	0	0	0	0	0	0

PRELIMINARY DATA ON TISSUES - YEAR 2012

LATINAMERICAN COUNTRIES

Country	GUATEMALA	MEXICO	NICARAGUA	PANAMA	PARAGUAY	PERU	URUGUAY	VENEZUELA
Population (Font: eurostat/ UNFPA)	15,1	116,1	6,0	3,6	6,7	29,7	3,4	29,9
TYPE OF TISSUE	TYPE OF DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA		
CORNEA	N. of tissue donations	2.638					209	116
	Tissue donation PMP	22,7					61,5	3,9
	N° of tissue retrieved	2.638					209	111
	N° of tissues transplanted	2.907					186	208
	N° of patients transplanted	2.907					179	208
SKIN	N. of tissue donations	10					14	0
	Tissue donation PMP	0,1					4,1	0,0
	N° of tissue retrieved (cm²)	0					20.900	0
	N° of tissues transplanted	0					19.700	0
	N° of patients transplanted	0					18	0
CARDIAC TISSUE	N. of tissue donations	7					394	0
	Tissue donation PMP	0,10					1	26
	N° of tissue retrieved	0					0,30	0,90
	N° of tissues transplanted	2					2	15
	N° of patients transplanted	2					2	7
BLOOD VESSEL	N. of tissue donations	2					2	7
	Tissue donation PMP	0					2	7
	N° of tissue retrieved	0,0					21	0
	N° of tissues transplanted	0					6,2	0,0
	N° of patients transplanted	0					22	0
MUSCULOSKELETAL	N. of tissue donations	0					18	0
	Tissue donation PMP	0					18	0
	N° of tissue retrieved	0					18	0
	N° of tissues transplanted	0					132	0
	N° of patients transplanted	0					134	0
PLACENTA/AMNIOTIC MEMBRANE	N. of tissue donations	196					31	0
	Tissue donation PMP	1,7					9,1	0,0
	N° of tissue retrieved	0					31	0
	N° of tissues transplanted	0					3.442	0
	N° of patients transplanted	0					132	0
OTHERS	N. of tissue donations	0					97	0
	Tissue donation PMP	0,0					28,5	0,0
	N° of tissue retrieved	0					88	0
	N° of tissues transplanted	0					20.950	0
	N° of patients transplanted	0					50	0
	N. of tissue donations	6					20.950	0
	Tissue donation PMP	0,1					11	0
	N° of tissue retrieved	0					3,2	0,0
	N° of tissues transplanted	0					1.297	0
	N° of patients transplanted	0					7	0
	N. of tissue donations	0					7	0
	Tissue donation PMP	0					7	0
	N° of tissue retrieved	0					7	0
	N° of tissues transplanted	0					7	0
	N° of patients transplanted	0					7	0

PRELIMINARY DATA ON HPC CELLS - YEAR 2012

EUROPEAN UNION COUNTRIES

Country Population (Font: eurostat/ UNFPA)	AUSTRIA 8.443.018	BELGIUM 11.094.850	BULGARIA 7.327.224	CROATIA 4.398.150	CYPRUS 862.011	CZECH REP. 10.505.445	DENMARK 5.573.894	ESTONIA 1.294.486	FINLAND 5.401.267	FRANCE 65.327.724	
CATEGORY OF DATA	TYPE OF DATA										
POTENTIAL DONATION AND SEARCHING IN THE NATIONAL REGISTRIES	N° of potential donors at 31.12	0	0	0	31.758	117.528	61.889	0	0	21.560	206.471
	N° of coord blood unit at 31.12	0	0	0	2.026	2.182	0	0	0	3.369	23.539
	N° of searches requested	0	0	0	318	5.301	19.493	0	0	NR	20.718
	N° of unrelated donation	0	0	0	11	31	94	0	0	NR	1.320
DONATION	N° of donation - Autologous	0	607	108	792	39	0	0	43	NR	3.154
	N° of donation - Allogenic	0	0	12	2.103	1.713	49	0	2	448	1.172
	N° of donation - Allogenic, related	0	0	12	43	0	0	0	2	NR	713
	N° of donation - Allogenic, unrelated	0	0	0	2.060	1.713	49	0	0	448	459
BANKING of CORD BLOOD	N° of unrelated coord blood units collected	0	4.744	0	2.048	1.685	0	0	0	NR	7.642
	N° of unrelated coord blood units distributed	0	53	0	0	2	11	0	0	NR	206
	N° of unrelated coord blood units at 31.12	0	21.148	0	2.338	2.184	11	0	0	NR	23.539
	N° of related coord blood units collected	0	15	0	15	1.771	0	0	0	NR	0
	N° of related coord blood units distributed	0	7	0	0	0	0	0	0	NR	0
	N° of related coord blood units at 31.12	0	325	0	155	17.062	0	0	0	NR	0
TRANSPLANT	N° of transplants - Autologous	0	0	96	118	22	0	0	40	NR	2.766
	N° of patients transplanted - Autologous	0	0	92	109	22	0	0	2	NR	2.630
	N° of transplants - Allogenic	0	0	20	58	0	0	0	13	NR	1.721
	N° of patients transplanted - Allogenic	0	0	18	57	0	0	0	1	NR	1.686
	N° of transplants - Allogenic, related	0	0	12	27	0	0	0	2	NR	710
	N° of patients transplanted - Allogenic, related	0	0	11	27	0	0	0	0	NR	NR
	N° of transplants - Allogenic, unrelated	0	0	8	31	0	0	0	11	NR	1.011

PRELIMINARY DATA ON HPC CELLS - YEAR 2012

EUROPEAN UNION COUNTRIES

Country Population (Font: eurostat/ UNFPA)	GERMANY 81.843.743	GREECE 11.290.067	HUNGARY 9.932.000	IRELAND 4.582.769	ITALY 59.394.207	LATVIA 2.041.763	LITHUANIA 3.003.641	LUXEMBOURG 524.853	MALTA 417.520
CATEGORY OF DATA	TYPE OF DATA				NO DATA				NO DATA
POTENTIAL DONATION AND SEARCHING IN THE NATIONAL REGISTRIES	N° of potential donors at 31.12	0	0		339.472		7.808	0	
	N° of coord blood unit at 31.12	0	0		28.688		863	0	
	N° of searches requested	0	0		3.809		189	0	
	N° of unrelated donation	0	0		734		4	0	
DONATION	N° of donation - Autologous	9.569	347		4.699		287	34	
	N° of donation - Allogenic	12.090	52		23.619		67	0	
	N° of donation - Allogenic, related	962	50		2.700		16	0	
	N° of donation - Allogenic, unrelated	11.128	2		20.919		51	0	
BANKING of CORD BLOOD	N° of unrelated coord blood units collected	4.893	0		20.761		NE	0	
	N° of unrelated coord blood units distributed	14	0		86		NE	0	
	N° of unrelated coord blood units at 31.12	14.684	0		36.299		NE	0	
	N° of related coord blood units collected	29	9.532		350		169	0	
	N° of related coord blood units distributed	2	2		0		0	0	
	N° of related coord blood units at 31.12	126	46.174		3.215		863	0	
TRANSPLANT	N° of transplants - Autologous	3.813	195		3.134		123	22	
	N° of patients transplanted - Autologous	3.096	209		0		97	21	
	N° of transplants - Allogenic	2.999	87		1.736		69	0	
	N° of patients transplanted - Allogenic	2.797	85		0		62	0	
	N° of transplants - Allogenic, related	905	36		980		16	0	
	N° of patients transplanted - Allogenic, related	817	35		0		14	0	
	N° of transplants - Allogenic, unrelated	2.094	51		756		53	0	
	N° of patients transplanted - Allogenic, unrelated	1.980	50		0		48	0	

PRELIMINARY DATA ON HPC CELLS - YEAR 2012

EUROPEAN UNION COUNTRIES

Country Population (Font: eurostat/ UNFPA)	NETHERLANDS 16.730.348	POLAND 38.538.447	PORTUGAL 10.542.398	ROMANIA 21.355.849	SLOVAKIA 5.404.322	SLOVENIA 2.055.496	SPAIN 46.196.276	SWEDEN 9.482.855	U. KINGDOM 63.256.141
CATEGORY OF DATA	TYPE OF DATA								
POTENTIAL DONATION AND SEARCHING IN THE NATIONAL REGISTRIES	NO DATA								
	N° of potential donors at 31.12	41.667	408.388	311.508	NR		107.003	0	NR
	N° of coord blood unit at 31.12	3.237	871	91.892	3.222		55.509	0	NR
	N° of searches requested	486	1.852	3.071	0		1.723	0	NR
	N° of unrelated donation	441	443	339	0		687	0	NR
DONATION	N° of donation - Autologous	20.059	10.063	353	2.215		1.700	447	NR
	N° of donation - Allogenic	47	5.920	169	1.632		1.017	988	NR
	N° of donation - Allogenic, related	0	5.620	73	1.632		541	63	NR
	N° of donation - Allogenic, unrelated	47	300	96	0		476	925	NR
BANKING of CORD BLOOD	N° of unrelated coord blood units collected	280	538	5.838	0		3.674	837	12.754
	N° of unrelated coord blood units distributed	96	2	0	0		109	17	NR
	N° of unrelated coord blood units at 31.12	184	0	8.445	22		55.509	3.693	NR
	N° of related coord blood units collected	0	0	13.999	17.549		4	0	514
	N° of related coord blood units distributed	0	0	1	0		4	0	NR
	N° of related coord blood units at 31.12	0	0	91.981	67.625		0	43	NR
TRANSPLANT	N° of transplants - Autologous	17	797	334	0		1.700	628	NR
	N° of patients transplanted - Autologous	662	0	312	0		0	458	NR
	N° of transplants - Allogenic	546	448	130	1		999	329	NR
	N° of patients transplanted - Allogenic	463	414	125	1		0	252	NR
	N° of transplants - Allogenic, related	178	186	64	1		541	92	NR
	N° of patients transplanted - Allogenic, related	163	169	62	1		0	64	NR
	N° of transplants - Allogenic, unrelated	368	262	66	0		458	237	NR
	N° of patients transplanted - Allogenic, unrelated	300	245	63	0		0	188	NR

PRELIMINARY DATA ON HPC CELLS - YEAR 2012

OTHER COUNTRIES

Country Population (Font: eurostat/ UNFPA)	ALGERIA 36,5	ICELAND 319.575	ISRAEL 7,7	MACEDONIA 2.059.794	MOLDOVA	NORWAY 4.985.870	SWITZERLAND 7.954.662	TUNISIA 10,7	TURKEY 74.724.269
CATEGORY OF DATA	TYPE OF DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
POTENTIAL DONATION AND SEARCHING IN THE NATIONAL REGISTRIES	N° of potential donors at 31.12				NE	29.168			0
	N° of coord blood unit at 31.12				NE	0			0
	N° of searches requested				0	14.510			0
	N° of unrelated donation				0	1			0
DONATION	N° of donation - Autologous				0	217			1.408
	N° of donation - Allogenic				0	68			699
	N° of donation - Allogenic, related				0	41			84
	N° of donation - Allogenic, unrelated				0	27			615
BANKING of CORD BLOOD	N° of unrelated coord blood units collected				0	0			0
	N° of unrelated coord blood units distributed				0	0			0
	N° of unrelated coord blood units at 31.12				0	0			0
	N° of related coord blood units collected				0	81			0
	N° of related coord blood units distributed				0	0			0
	N° of related coord blood units at 31.12				0	614			0
TRANSPLANT	N° of transplants - Autologous				0	27			0
	N° of patients transplanted - Autologous				0	26			0
	N° of transplants - Allogenic				0	50			0
	N° of patients transplanted - Allogenic				0	50			0
	N° of transplants - Allogenic, related				0	0			0
	N° of patients transplanted - Allogenic, related				0	0			0
	N° of transplants - Allogenic, unrelated				0	50			0
	N° of patients transplanted - Allogenic, unrelated				0	50			0

PRELIMINARY DATA ON HPC CELLS - YEAR 2012

LATINAMERICAN COUNTRIES

Country Population (Font: eurostat/ UNFPA)	ARGENTINA 41,1	BRAZIL 198,4	CHILI 17,4	COLOMBIA 47,6	COSTA RICA 4,8	CUBA 11,2	DOMINICANA 10,2	ECUADOR 14,9
CATEGORY OF DATA	TYPE OF DATA							
POTENTIAL DONATION AND SEARCHING IN THE NATIONAL REGISTRIES								
		933		0				
		112		428				
		541		0				
		0		0				
DONATION								
		0		0				
		0		0				
		0		0				
		0		0				
BANKING of CORD BLOOD								
		0		0				
		0		0				
		0		0				
		0		0				
		0		0				
		0		0				
TRANSPLANT								
		441		261				
		422		0				
		204		138				
		195		0				
		126		103				
		118		0				
		78		35				
		77		0				

PRELIMINARY DATA ON HPC CELLS - YEAR 2012

LATINAMERICAN COUNTRIES

Country Population (Font: eurostat/ UNFPA)	GUATEMALA	MEXICO	NICARAGUA	PANAMA	PARAGUAY	PERU	URUGUAY	VENEZUELA
		15,1	116,1	6,0	3,6	6,7	29,7	3,4 29,9
CATEGORY OF DATA	TYPE OF DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA		
POTENTIAL DONATION AND SEARCHING IN THE NATIONAL REGISTRIES	N° of potential donors at 31.12	154		0			559	0
	N° of coord blood unit at 31.12	15		0			0	0
	N° of searches requested	0		0			20	0
	N° of unrelated donation	0		0			0	0
DONATION	N° of donation - Autologous	0		0			0	0
	N° of donation - Allogenic	0		0			0	0
	N° of donation - Allogenic, related	0		0			0	0
	N° of donation - Allogenic, unrelated	0		0			0	0
BANKING of CORD BLOOD	N° of unrelated coord blood units collected	0		0			0	0
	N° of unrelated coord blood units distributed	0		0			0	0
	N° of unrelated coord blood units at 31.12	0		0			0	0
	N° of related coord blood units collected	0		0			0	0
	N° of related coord blood units distributed	0		0			0	0
	N° of related coord blood units at 31.12	0		0			0	0
TRANSPLANT	N° of transplants - Autologous	26		25			119	33
	N° of patients transplanted - Autologous	0		25			90	33
	N° of transplants - Allogenic	128		9			33	18
	N° of patients transplanted - Allogenic	0		9			33	18
	N° of transplants - Allogenic, related	128		9			29	18
	N° of patients transplanted - Allogenic, related	0		9			29	18
	N° of transplants - Allogenic, unrelated	0		0			4	0
	N° of patients transplanted - Allogenic, unrelated	0		0			4	0

Council Of Europe Convention, Resolutions, Recommendations And Reports



Chairmen of the European Committee (Partial Agreement) on Organ Transplantation (CD-P-TO)

1988- 1995	HORS Jacques (FRANCE)
1995- 2000	MATESANZ Rafael (SPAIN)
2000- 2003	DOYLE Peter (UK)
2003- 2005	MATESANZ Rafael (SPAIN)
2005- 2010	LOTY Bernard (FRANCE)
2010- 2012	PFEFFER Per (NORWAY)
2012-	NANNI COSTA Alessandro (ITALY)

Council of Europe Convention, Resolutions, Recommendations and Reports

CONVENTIONS

Convention for the protection of human rights and dignity of the human being with regard to the application of biology and medicine: Convention on human rights and biomedicine.

Explanatory report to the Convention for the protection of human rights and dignity of the human being with regard to the application of biology and medicine: Convention on human rights and biomedicine.

Additional protocol to the Convention on human rights and biomedicine concerning transplantation of organs and tissues of human origin.

Explanatory report to the Additional protocol to the Convention on human rights and biomedicine concerning transplantation of organs and tissues of human origin.

Convention on Action against Trafficking in Human Beings (*including for the purpose of organ removal*).

Explanatory report to the Convention on Action against Trafficking in Human Beings (*including for the purpose of organ removal*).

RECOMMENDATIONS

Recommendation No. R (94) 1 of the Committee of Ministers to member states on human tissue banks.

Recommendation No. R (97) 15 of the Committee of Ministers to member states on xenotransplantation.

Recommendation No. R (97) 16 of the Committee of Ministers to member states on liver transplantation from living related donors.

Recommendation No. R (98) 2 of the Committee of Ministers to member states on provision of haematopoietic progenitor cells.

Recommendation Rec(2001)5 of the Committee of Ministers to member states on the management of organ transplant waiting lists and waiting times.

Recommendation Rec(2003)10 of the Committee of Ministers to member states on xenotransplantation.

Explanatory memorandum to Recommendation Rec(2003)10 of the Committee of Ministers to member states on xenotransplantation.

Recommendation Rec(2003)12 of the Committee of Ministers to member states on organ donor registers.

Recommendation Rec(2004)7 of the Committee of Ministers to member states on organ trafficking.

Recommendation Rec(2004)8 of the Committee of Ministers to member states on autologous cord blood banks.

Explanatory memorandum to Recommendation Rec(2004)8 of the Committee of Ministers to member states on autologous cord blood Banks.

Recommendation Rec(2004)19 of the Committee of Ministers to member states on criteria for the authorisation of organ transplantation facilities.

Recommendation Rec(2005)11 of the Committee of Ministers to member states on the role and training of professionals responsible for organ donation (transplant “donor co-ordinators”).

Recommendation Rec(2006)15 of the Committee of Ministers to member states on the background, functions and responsibilities of a National Transplant Organisation (NTO).

Recommendation Rec(2006)16 of the Committee of Ministers to member states on quality improvement programmes for organ donation.

RESOLUTIONS

Resolution (78) 29 on harmonisation of legislations of member states relating to removal, grafting and transplantation of human substances.

Resolution CM/Res(2008)4 on adult-to-adult living donor liver Transplantation.

Resolution CM/Res(2008)6 on transplantation of kidneys from living donors who are not genetically related to the recipient.

REPORTS

Organ shortage: current status and strategies for improvement of organ donation – A European consensus document.

Joint Council of Europe/United Nations Study on trafficking in organs, tissues and cells and trafficking in human beings for the purpose of the removal of organs.

Survey On The Implementation Of Council Of Europe Recommendation Rec (2004) 8 Of The Committee Of Ministers To Member States On Autologous Cord Blood Banks



Survey on the implementation of Council of Europe Recommendation Rec(2004)8 of the Committee of Ministers to member states on autologous cord blood banks

Faucher C. & Laouabdia-Sellami K.

On behalf of the European Committee (Partial Agreement) on Organ Transplantation¹

INTRODUCTION AND BACKGROUND

Since the first report of the allogeneic transplantation of hematopoietic stem cells from a cord blood unit to a patient who was consequently cured of his Fanconi anaemia in 1988, thousands of allogeneic cord blood transplantations have been performed around the world, mainly for malignant and inherited haematological diseases. Fundamental clinical research in this field is currently very active, with a view to improving the outcome of allogeneic cord blood transplantation.

The Council of Europe has been studying the issue of cord blood donation for a number of years and has always been concerned about the proliferation of private cord blood banks dedicated to the collection and storage of cord blood for autologous purposes. This resulted in the adoption of Recommendation Rec(2004)8 of the Committee of Ministers to member states on autologous cord blood banks² and its Explanatory Memorandum on 19 May 2004 at the 88th meeting of the Ministers' Deputies. Rec(2004) 8 recommends that member states only allow the establishment of cord blood banks on the basis of altruistic and voluntary cord blood donations. More generally, it presents the view of the Council of Europe that the promotion of cord blood donation for autologous use and the establishment of cord blood banks for autologous use should not be supported by member states or their health services.

The principal current use of umbilical cord blood is for the collection of haematopoietic progenitor cells that can be transplanted into patients with acquired or congenital diseases of the bone marrow. In addition, it is known that umbilical cord blood could act as a source of stem cells. Nevertheless, cord blood that is stored only for autologous use is very rarely needed. It is currently widely accepted among the medical community that the medical indications for transfusion to a child of stem cells taken from preserved placental blood derived from that child's own umbilical cord are extremely limited. Even if it is the case that, in the future, children do

develop diseases requiring a haematopoietic progenitor cells transplant, there is evidence to suggest that it is preferable to use allogeneic transplantation to achieve the "graft vs. tumour effect" in haematological diseases. In cases of congenital disease and in some leukaemias with intra-uterine cell mutations, autologous hematopoietic progenitor cell transplantation is contraindicated. Therefore, the probability of autologous use before the age of 20, in conditions of increasingly doubtful safety as time passes, is infinitely smaller than the likelihood of an allogeneic indication, so that children whose cord blood had been stored would still be potential users of allogeneic banks in any case. As a result, these children would benefit from others without there being any possibility of reciprocity.

Furthermore, there is no scientific evidence that umbilical cord blood for autologous use can be stored for long enough to be of any use to the vast majority of donors. An international system for locating allogeneically-compatible donors already exists and storage for autologous purposes could seriously endanger and limit altruistic and voluntary donation, thereby limiting the possibility of treating a significant number of patients.

Most autologous cord blood banks are driven by financial objectives rather than altruistic ones, and they seek to achieve these commercial objectives by providing parents with the illusion of therapeutic promise for the future, which so far is devoid of any scientific foundation. As such, advertisements by such banks are usually intentionally ambiguous regarding the absence of indications and the potential future uses of the properties of stem cells (if and when medical research finds such uses). Nevertheless, parents should be informed of the current lack of any scientific or medical justification for systematic collection of cord blood for exclusively autologous purposes and they should be encouraged to participate instead in the necessary development of public allogeneic and anonymous cord blood banks.

Moreover, the quality of donations stored by autologous (private) banks is notoriously variable compared to allogeneic (public) banks, largely because the income of private cord blood banks tends to be related to the number of units banked rather than units issued. In fact, a very high percentage of the units collected in allogeneic banks are discarded as they do not pass the very stringent quality criteria. These

¹ European Committee (Partial Agreement) on Organ Transplantation (CD-P-TO). More information available at <http://www.edqm.eu/en/organ-transplantation-work-programme-72.html>

² Recommendation Rec(2004)8 of the Committee of Ministers to member states on autologous cord blood banks, available at <https://wcd.coe.int/ViewDoc.jsp?id=744641&Lang=en>

quality issues make it very unlikely that units stored by private banks could be selected for transplantation.

In November 2012, the European Committee (Partial Agreement) on Organ Transplantation of the Council of Europe (CD-P-TO) submitted a survey to its member states in order to collect information on the implementation of Recommendation Rec(2004)8. The following analysis summarises their responses.

RESULTS

- **53%** (25/47) of Council of Europe member states responded to the survey
- **88%** (22/47, including Croatia) of respondents were European Union member states
- **84%** (21/25) have cord blood banks of any kind established in the country

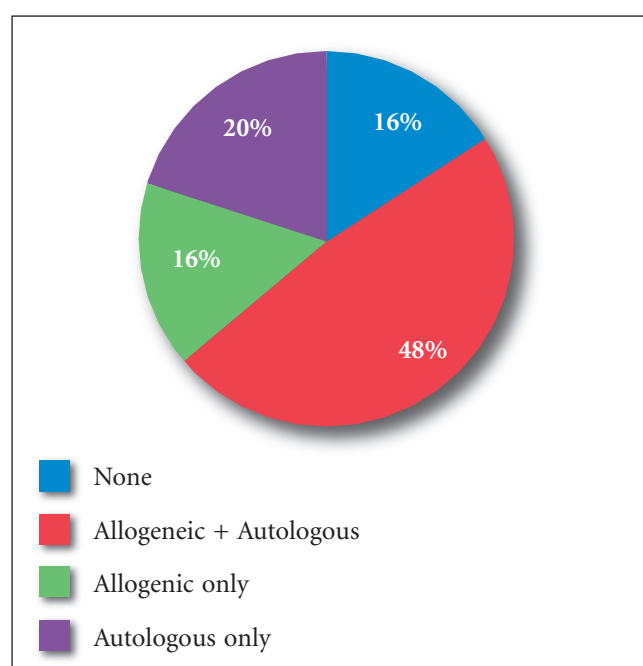


Figure 1. Presence of cord blood banks in Council of Europe member states. Percentages are calculated based on the responses of the 25 respondent member states.

Summary of the answers submitted by the member states:

- **44%** (11/25) used Council of Europe Recommendation Rec(2004)8, at least partially, to set up their own national regulations on cord blood banks.
- **16%** (4/25) have explicitly forbidden autologous cord blood banks (1/25 only after an autologous cord blood bank had already been established).
- **16%** (4/25) declared not having regulations concerning cord blood banking and no allogeneic or autologous cord blood banks had been established. In one member state, legislation is currently being drawn up.
- **68%** (17/25) declared having one or more autologous cord blood banks established in the country and/or pri-

vate banks that collect cord blood units and send them to be stored in another country with more convenient legislation. Among these 17 countries:

- **16 member states** have authorised the establishment of these banks. In one country, autologous cord blood banks are established, but not authorised: the legal framework for cord blood banks does exist, but it is not enforced by the Health Authority;
- among the member states with autologous cord blood banks and/or private banks that collect cord blood units and send them to be stored in another country, **9 have public information** on altruistic donation of cord blood distributed either by the national Health Authority, the national organisation for transplantation/transfusion (public or private foundations) or both. Where public information exists, autologous cord blood banking is generally not recommended because of the absence of scientific evidence for its therapeutic use;
- **11 member states** with autologous cord blood banks declared having the same laws for autologous and allogeneic cord blood banks;
- **only 1 member state**, which has an autologous bank that collects cord blood units and that sends them to another country to be stored, has asked this establishment to annually report its activity (i.e. number of cord blood units transferred for storage purposes);
- **in 1 member state**, autologous cord blood banks are authorised but, by law, they must make stored cord blood units available for allogeneic purposes if needed. As a result, nearly all cord blood units collected for autologous purposes are sent to another country for storage.
- Among the 21 member states that declared having established cord blood banks:
 - **81%** (17/21) have a legal framework based on the European Union tissues and cell directives (Directives 2004/23/EC, 2006/17/EC, 2006/86/EC) or national regulations;
 - **95%** (20/21) also have a publicly-funded Bone Marrow donor registry;
 - The number of allogeneic cord blood units available in public cord blood banks is much lower than cord blood units stored in autologous cord blood banks, where these figures are known by the Health Authorities.

CONCLUSIONS

Many Council of Europe member states have autologous cord blood banks established in the country and/or private establishments that collect cord blood units and send them for storage to another country. Few member states have used Council of Europe Recommendation Rec(2004)8 of the Com-

mittee of Ministers to member states on autologous cord blood banks to establish their legal framework on cord blood banking. Furthermore, few member states provide independent public information on altruistic cord blood donation.

Many non-European Union Council of Europe member states did not respond to the questionnaire and, thus, the situation relating to cord blood banking in those countries is unknown.

The European Committee on Organ Transplantation (CD-P-TO) of the Council of Europe deems this a very worrisome

situation and will study the possibility of further action, including the elaboration of an information booklet on cord blood donation addressed to parents and to be used by national health authorities. The proposed booklet will include the most recent and accurate scientific and medical data on cord blood transplantation.

Currently, allogeneic transplantation of hematopoietic stem cells from cord blood is the only effective therapy for malignant and inherited haematological diseases for thousands of patients across the world.

Members of the Council of Europe European Committee (Partial Agreement) on Organ Transplantation (CD-P-TO) (25/06/2013)

Chairman

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Members

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BREZOVSKY Pavel

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SWEDEN

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AYDIN Mehmet Ali (secondment)

UKRAINE

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AZERBAIJAN

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Mgr RALLO Vito

ISRAEL

ASHKENAZI Tamar

MOLDOVA

CODREANU Igor

SCANDIATRANSPLANT

HOCKERSTEDT Krister

TTS (THE TRANSPLANTATION SOCIETY)

DELMONICO Francis

KUYPERS Dirk

RUSSIAN FEDERATION

GABBASOVA Lyalya

NIKOLAEV German

UNOS (UNITED NETWORK FOR ORGAN SHARING)

PRUETT Timothy

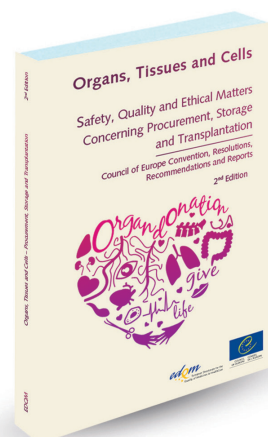
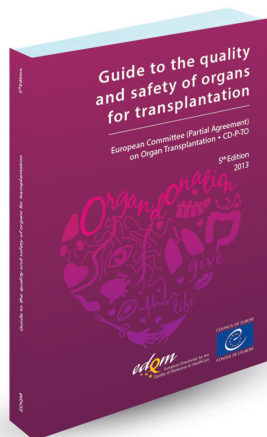
USA

WITTEN Celia

WHO (WORLD HEALTH ORGANISATION)

NOEL Luc

3 Publications from EDQM on transplantation



Information:
www.edqm.eu

