

NEWSLETTER TRANSPLANT

International figures
on donation and
transplantation
2016



EDQM
Volume 22
2017



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 2016.

Editor: Beatriz Domínguez-Gil & Rafael Matesanz

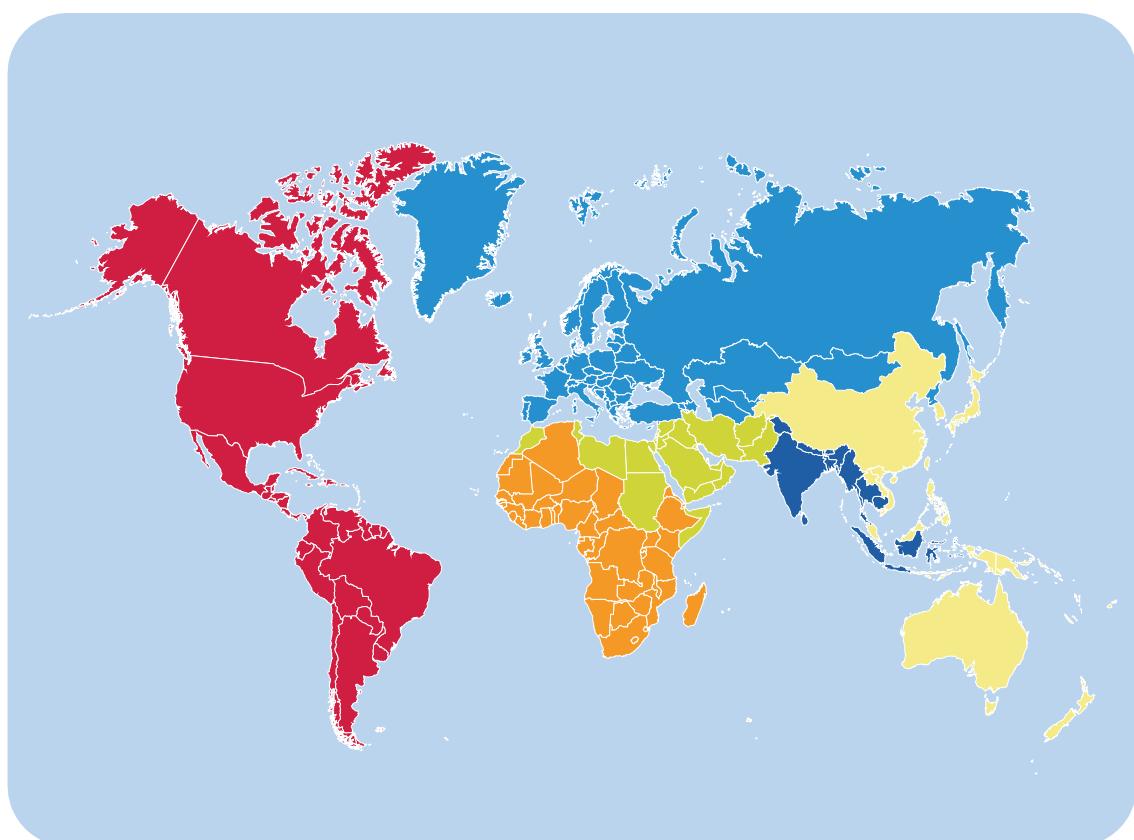
NATIONAL DATA PROVIDED BY:

AUSTRIA Birgit Priebe Dave Green (ET)	PORTUGAL Catarina Bolotinha	MALAYSIA Raja Farah Faizura Raja Shahruddin	ARGENTINA Mª del Carmen Bacqué
BELGIUM Luc Colenbie Dave Green (ET)	ROMANIA Dan Adrian Luscalov	MONTENEGRO Marina Ratkovic	BRAZIL Heder Murari Borba
BULGARIA Violetta Marinkova	SLOVAKIA Danile Kuba Magdaléna Krátká	NEW ZEALAND Nick Cross	CHILE Jose Luis Rojas
CROATIA Martina Anušić Juričić Dave Green (ET)	SLOVENIA Barbara Uštar Dave Green (ET)	NORWAY Ilse Duus Weinreich (SKT) Frank Pedersen (SKT)	COLOMBIA Yazmin R. Arias Murillo Mª Angélica Salinas Edwin Cárdenas
CYPRUS Michael Hadjigavriel	SPAIN Elisabeth Coll Carmen Martín	REPUBLIC OF MOLDOVA Igor Codreanu	COSTA RICA Martha Romero P. Roselyn Serrano V. Juan Carlos Valverde M.
CZECH REPUBLIC Michaela Vrbová	SWEDEN Ilse Duus Weinreich (SKT) Frank Pedersen (SKT)	RUSSIA Lyayla Gabbasova	CUBA Alexander Mármol
DENMARK Ilse Duus Weinreich (SKT) Frank Pedersen (SKT)	UNITED KINGDOM Kaj Anker Jørgensen (SKT)	SAUDI ARABIA Besher Al-Attar	DOMINICAN REPUBLIC Fernando R. Morales Alexander Altman
ESTONIA Virge Pall	(ET) EUROTTRANSPLANT Members: Austria, Belgium, Croatia, Germany, Hungary, Luxemburg, Netherlands and Slovenia	UNITED KINGDOM Mahmoud Obeid	ECUADOR José Javier Bermúdez
FINLAND Ilse Duus Weinreich (SKT) Frank Pedersen (SKT)	(SKT) SCANDIATRANSPLANT Members: Denmark, Finland, Norway, Sweden and Iceland	SWITZERLAND Franziska Beyeler	GUATEMALA Rudolf García-Gallont
Kaj Anker Jørgensen (SKT)	ARMENIA Ashot Sarkissian	SYRIAN ARAB REPUBLIC Bassam Saeed	HONDURAS Rubén Galeas
FRANCE Louise Durand	AUSTRALIA Byron Arcia	THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA Goce Spasovski	MEXICO J. Salvador Aburto José Madrigal
GERMANY Brigitte Ossadnik Dave Green (ET)	BELARUS Nikolay Yakovets	TURKEY Tuna Ilbars	PANAMA Cesar J. Cuero Camilo Chong
GREECE Konstantina Tsaroucha	BOSNIA AND HERZEGOVINA Lada Sarajlić	UNITED STATES OF AMERICA Sarah Taranto	PARAGUAY Hugo A. Espinoza C.
HUNGARY Sándor Mihály	CANADA Michael Terner		URUGUAY Milka Bengochea
IRELAND Lynn Martin	GEORGIA Gia Tomadze		
ITALY Andrea Ricci	ICELAND Ilse Duus Weinreich (SKT)		
LATVIA Janis Jushinskis	MALTA Frank Pedersen (SKT)		
LITHUANIA Vita Petronytė	NETHERLANDS Kaj Anker Jørgensen (SKT)		
LUXEMBURG Dave Green (ET)	POLAND Tamar Ashkenazi		
MALTA Paul Calleja	KUWAIT Mustafa Al-Mousawi		

Organización Nacional de Trasplantes (ONT) – Spain

Beatriz Domínguez-Gil
Beatriz Mahillo
Marina Alvarez
Mar Carmona

NEWSLETTER TRANSPLANT 2017



CONTENTS

• International Figures On Organ Donation And Transplantation Activity. Year 2016	3
• International Data On Organ Donation And Transplantation Activity, Waiting List And Family Refusals. Year 2016	37
• International Data On Tissues And Hematopoietic Stem Cell Donation And Transplantation Activity. Year 2016	53
• Council Of Europe Resolutions. Year 2017	61
– Resolution CM/ Res (2017) 1 on principles for the selection, evaluation, donation and follow-up of the non-resident living organ donors	62
– Resolution CM/ Res (2017) 2 on establishing procedures for the management of patients having received an organ transplant abroad upon return to their home country to receive follow-up care	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

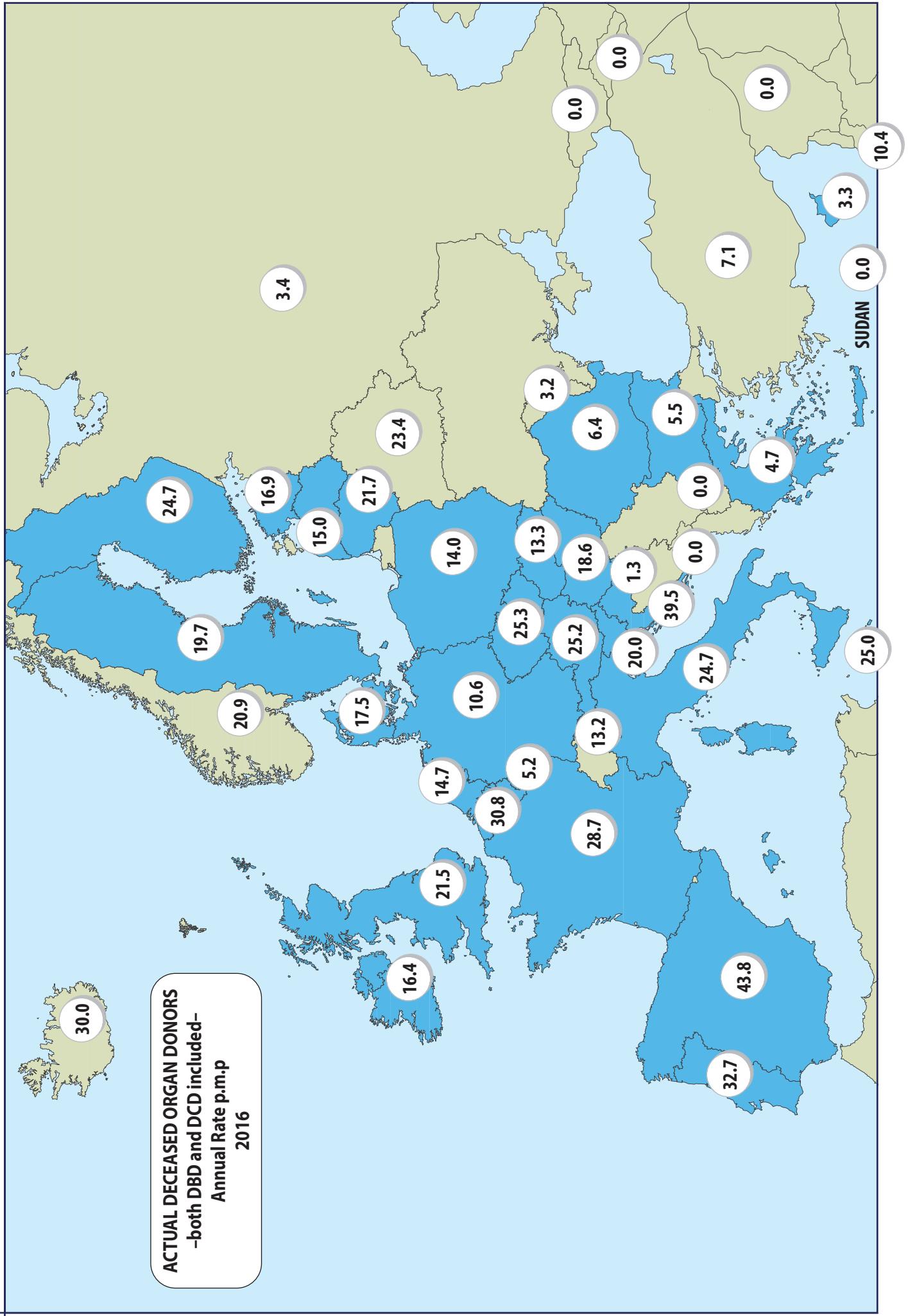
Example: At 1/1/2016 there were 200 patients active on the WL. Along the year, 100 patients are newly included on the WL (first row). In total, 300 patients have been ever active on the WL during the year (second row). Along the year, 200 patients were transplanted (number recorded in a different questionnaire), 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).

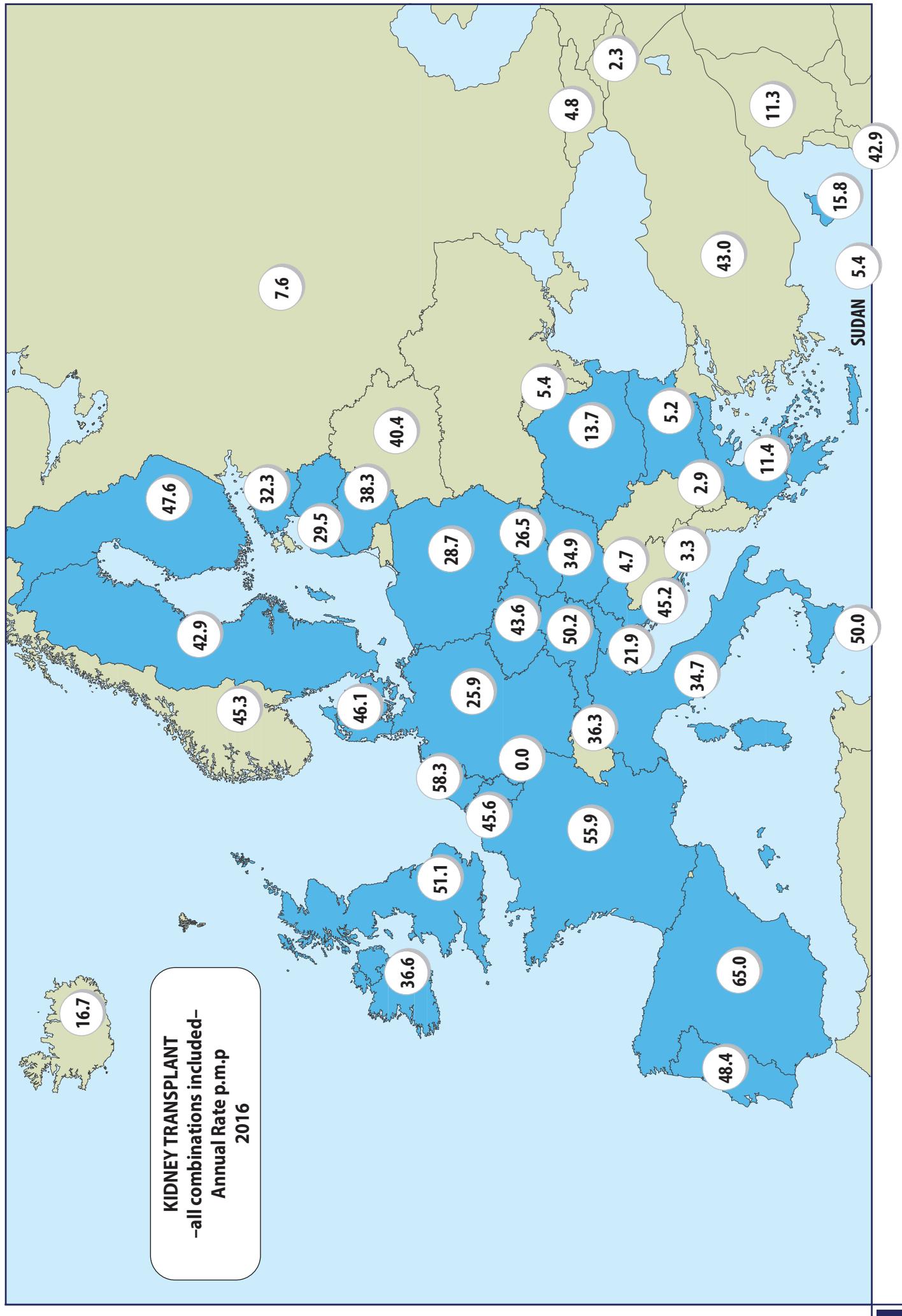
Patients included on the WL for the first time in the course of 2016	100
Total number of patients ever active on the WL during 2016	300
Patients awaiting for a transplant (only active candidates) on 31/12/2016	50
Patients who died while on the WL during 2016	25

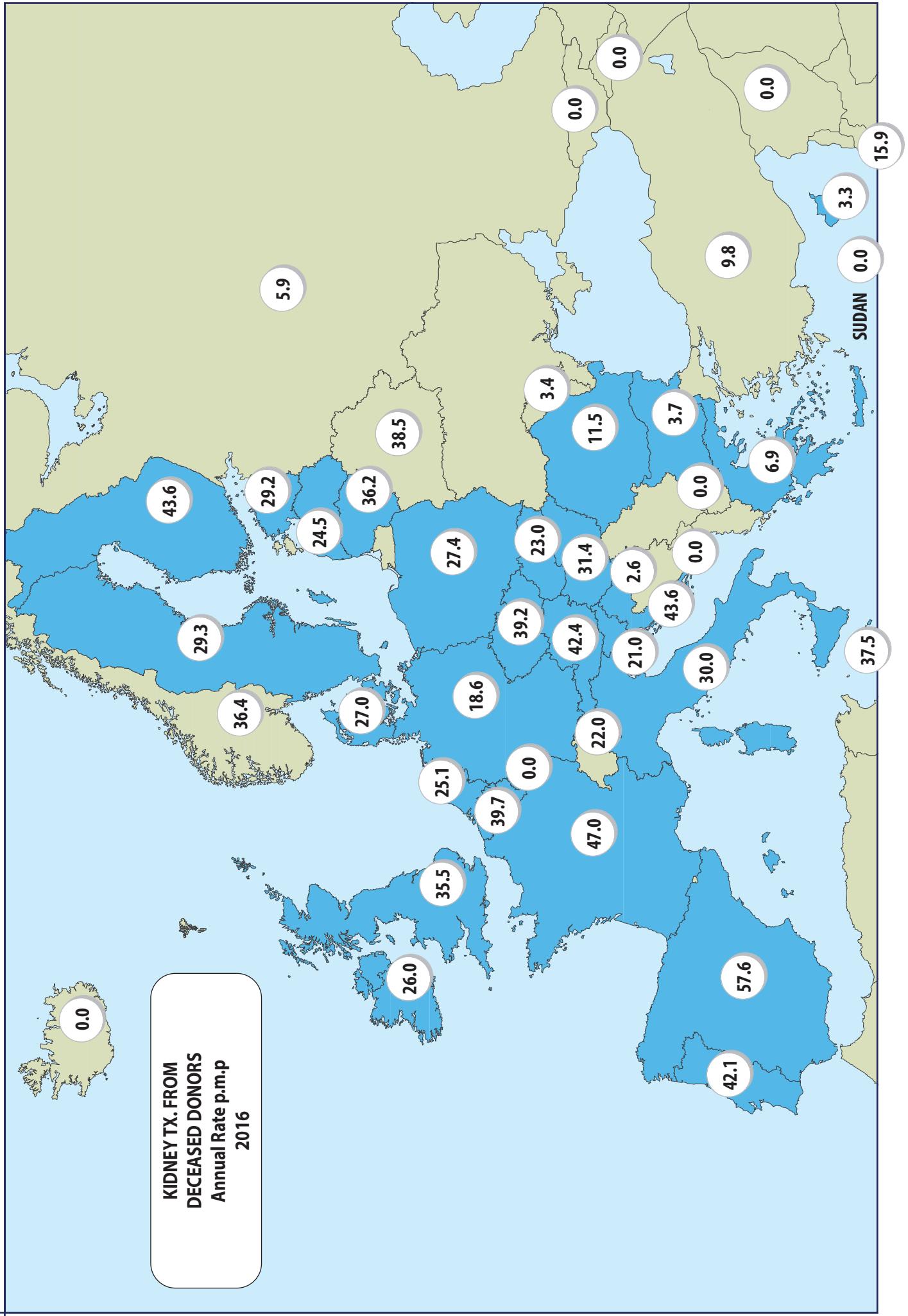
(*The United Nations Fund report (UNFPA: <http://www.unfpa.org/public/>) is used as the data source for estimates of population size)

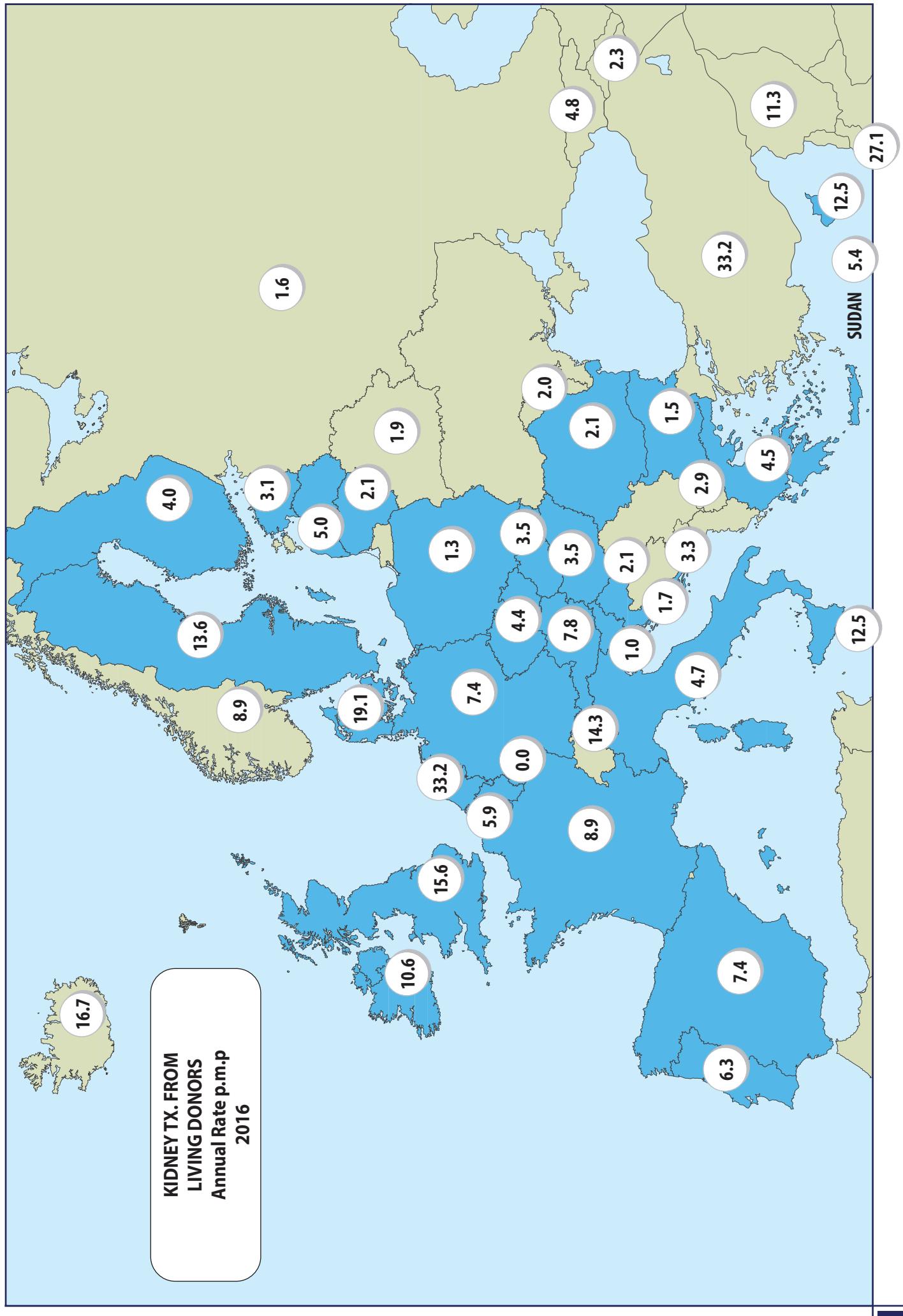
International Figures On Organ Donation And Transplantation Activity. Year 2016



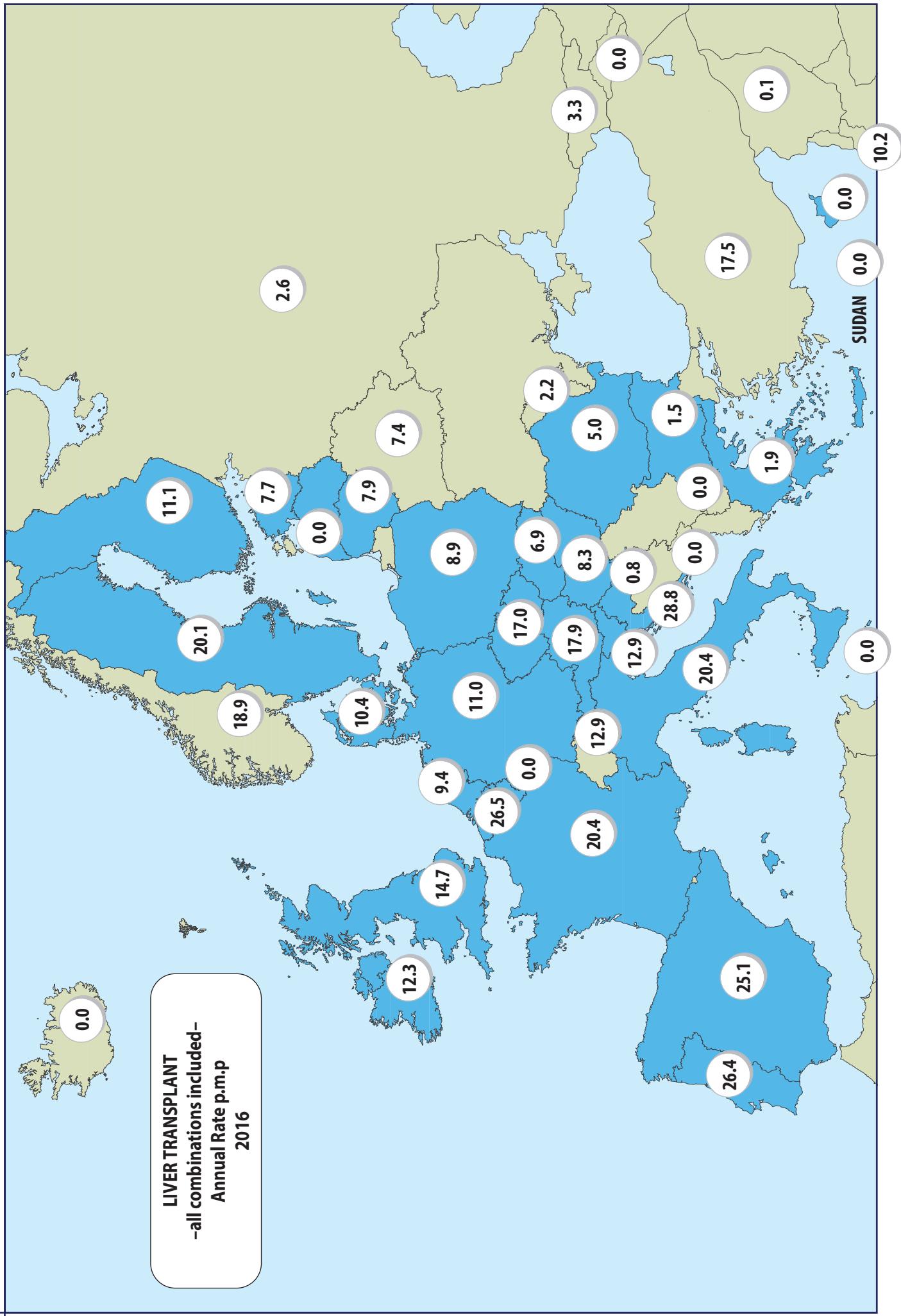


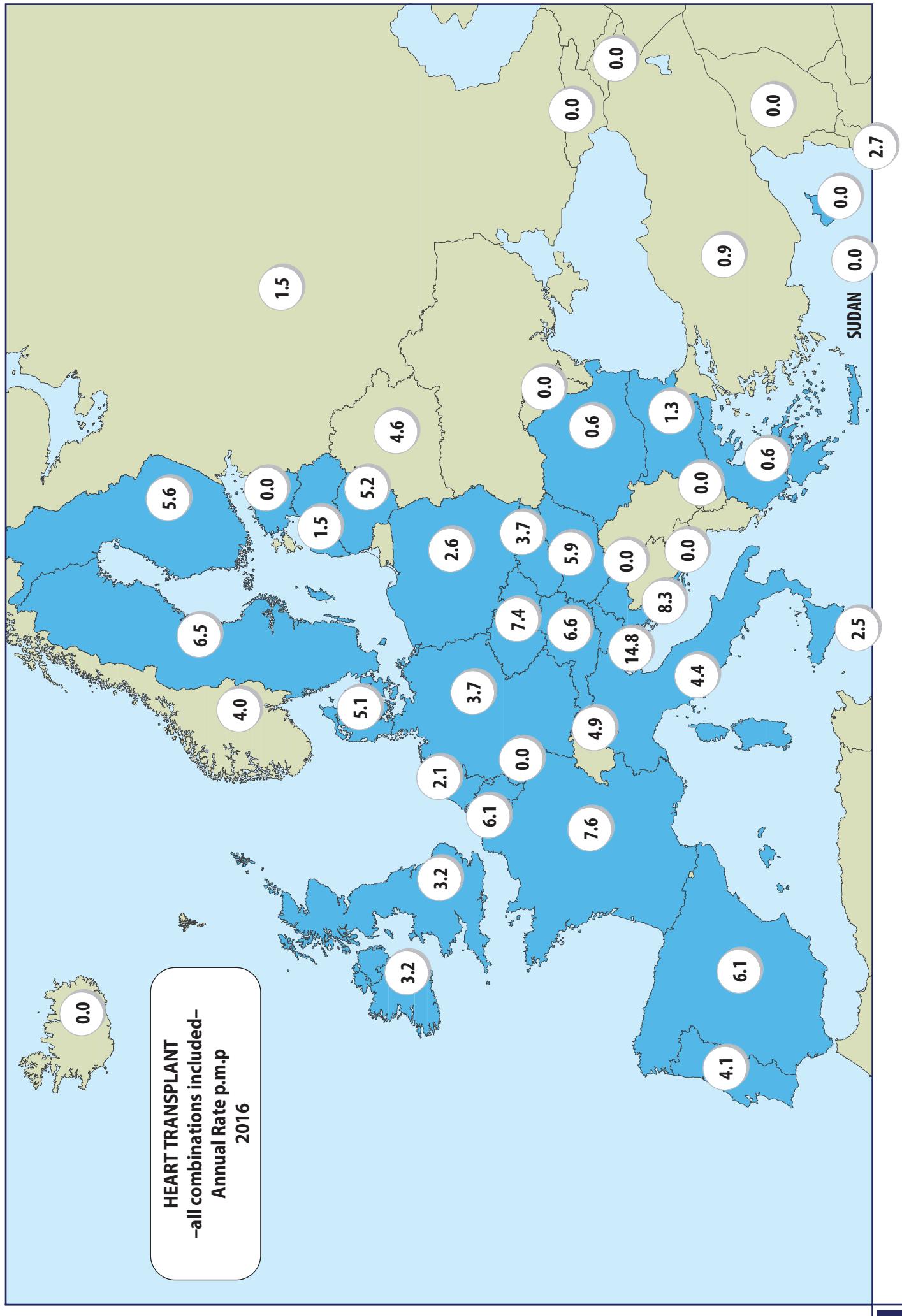




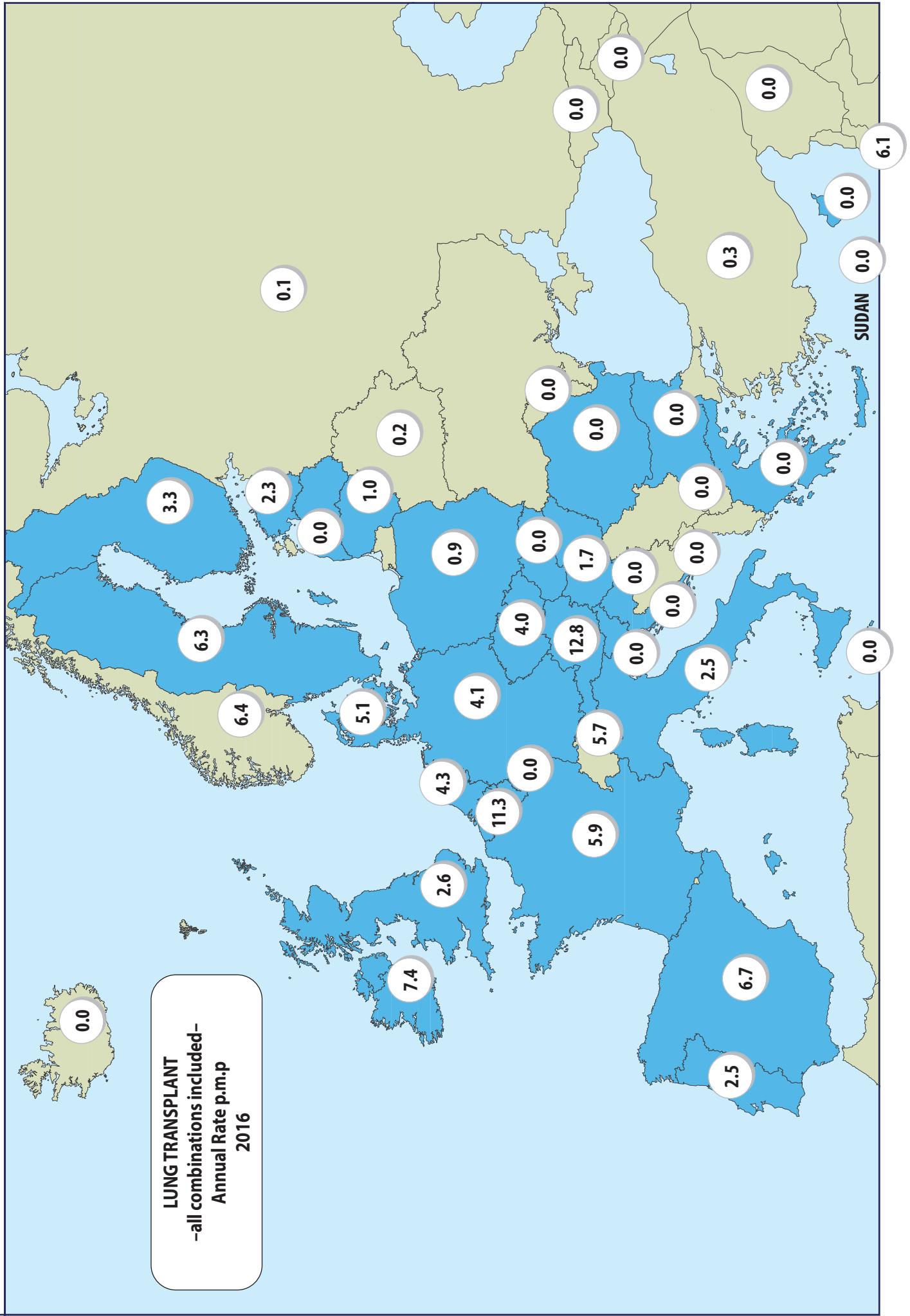


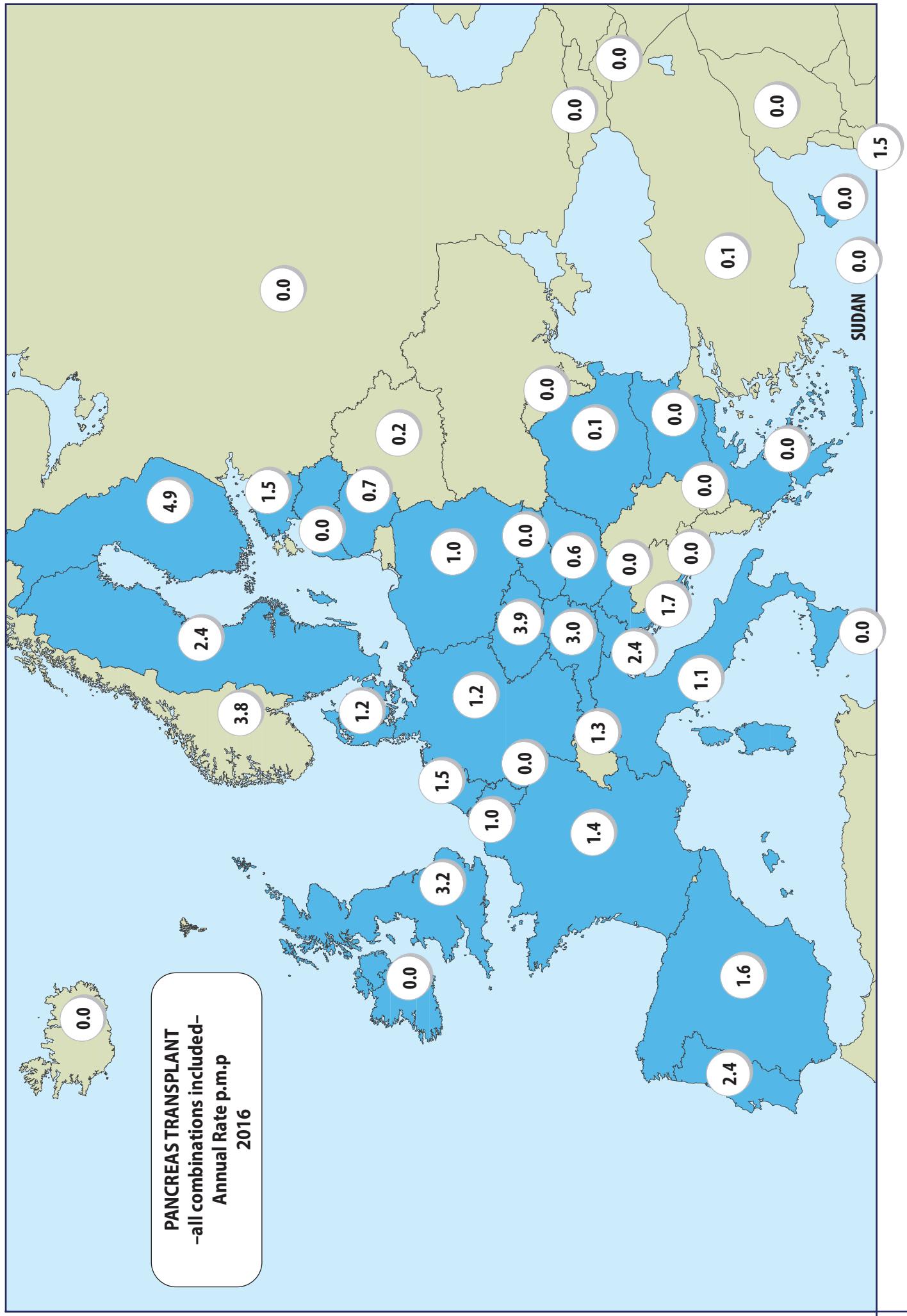
KIDNEY TX. FROM
LIVING DONORS
Annual Rate p.m.p.
2016

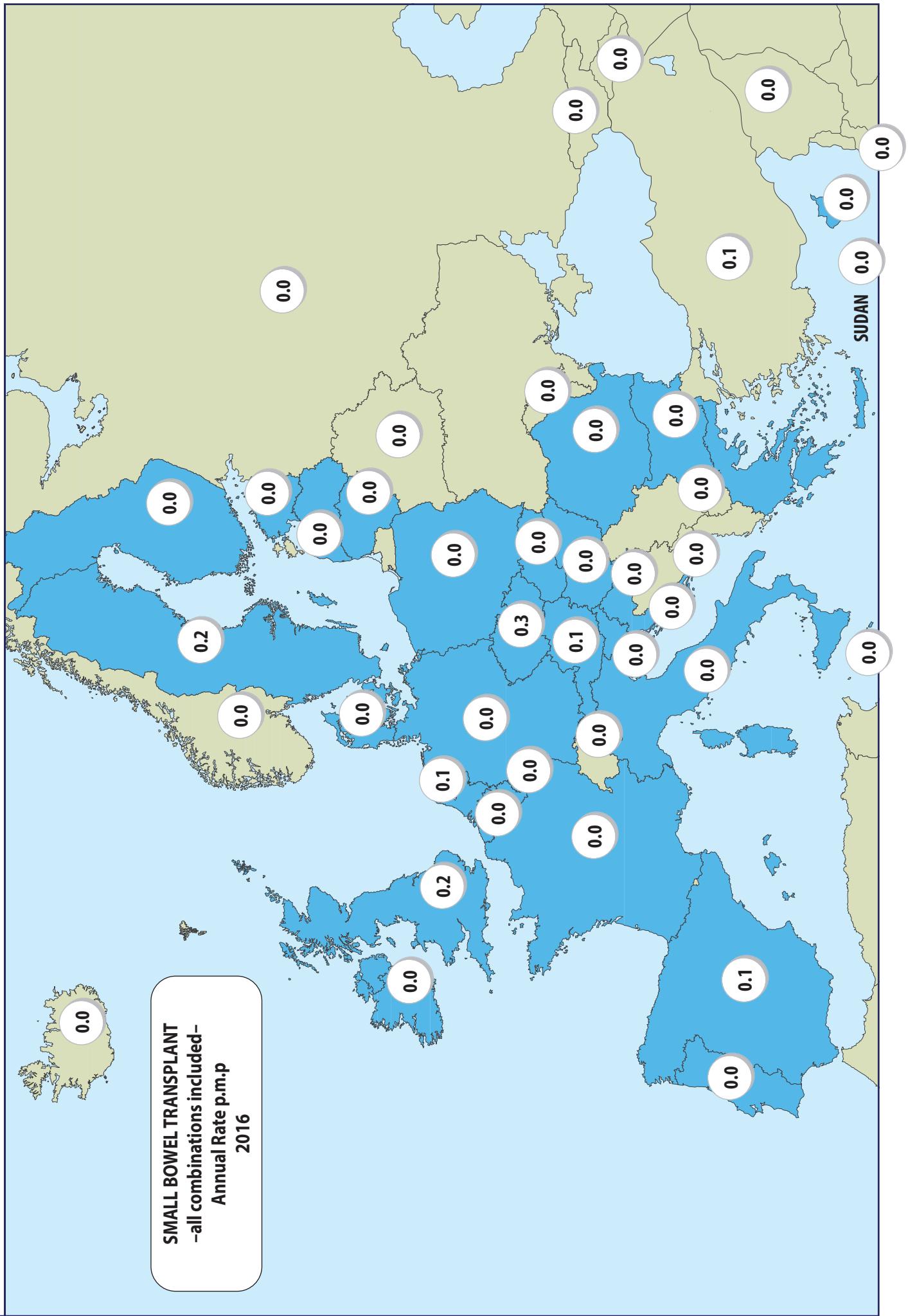


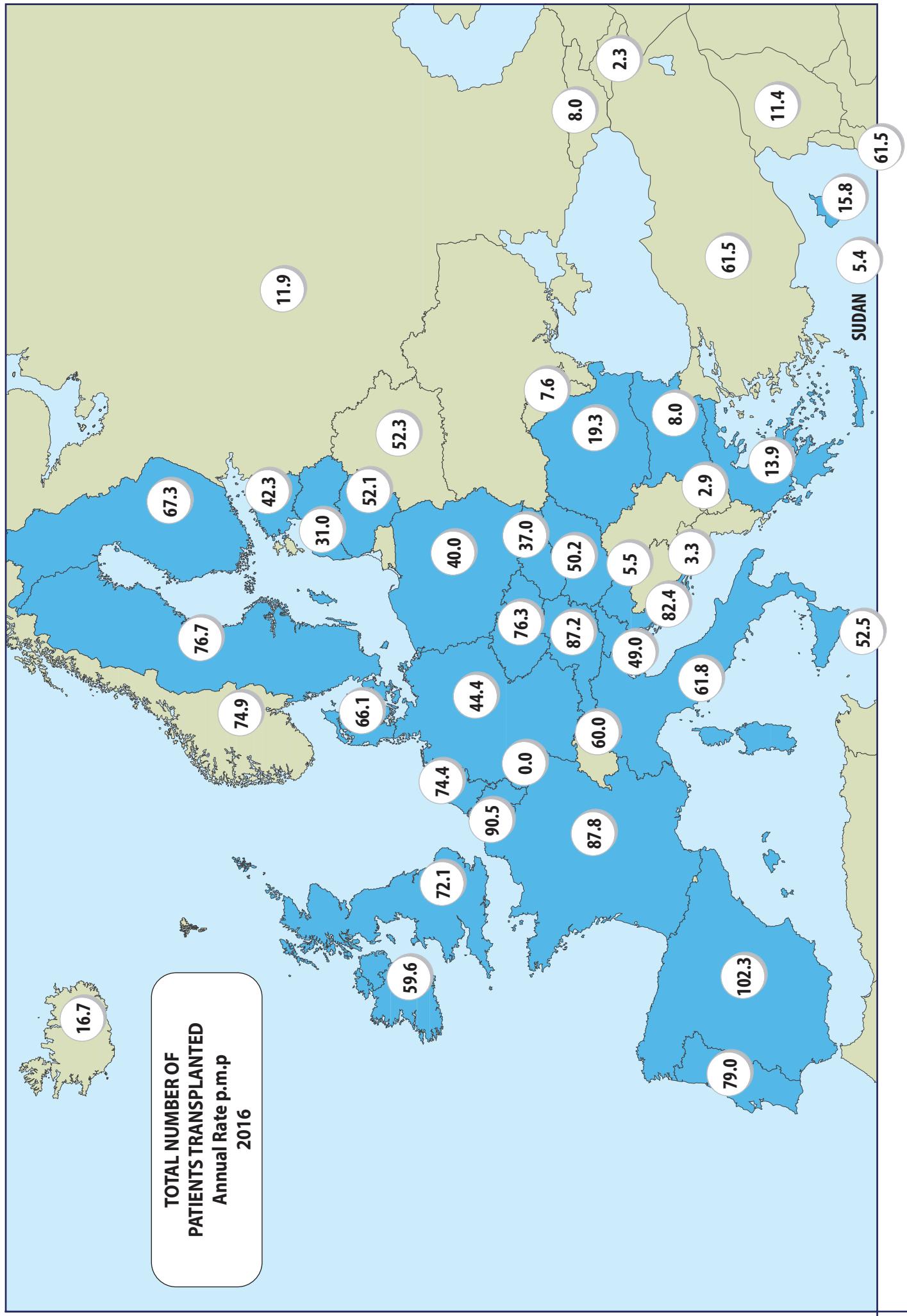


HEART TRANSPLANT
-all combinations included-
Annual Rate p.m.p.
2016











WHO collaborating
Centre on Donation
and Transplantation



MINISTERIO
GOBIERNO
DE ESPAÑA
DE SALUD, POLÍTICA SOCIAL
E IGUALDAD

EUROPEAN UNION DATA

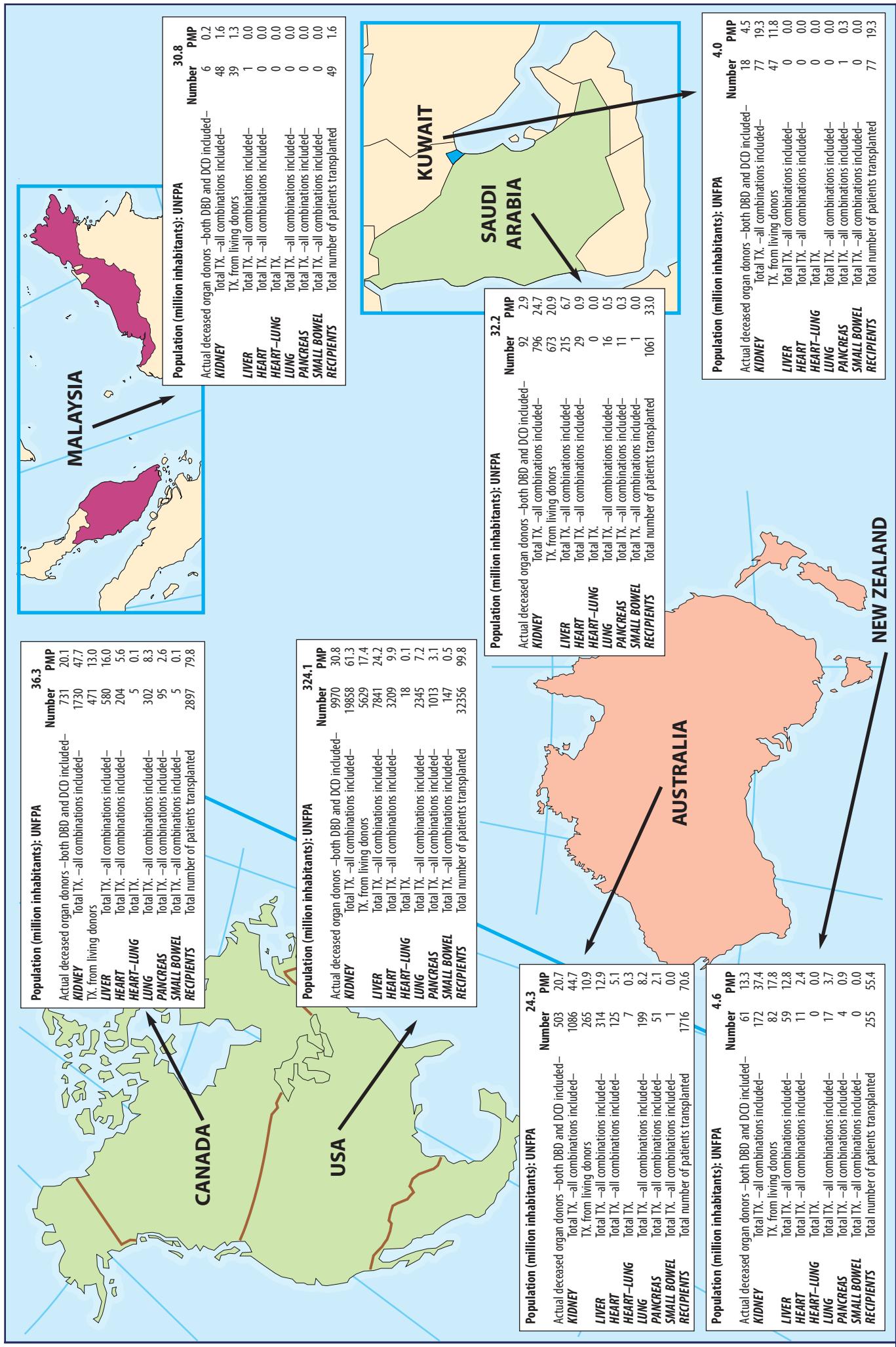


Kidney Transplants	Liver Transplants	Heart Transplants	Lung Transplants	Pancreas Transplants	Small Bowel Transplants	Organs Transplanted
20638 (20.3% LD)	7762 (4.4% LD)	2254	1916	780	35	33385

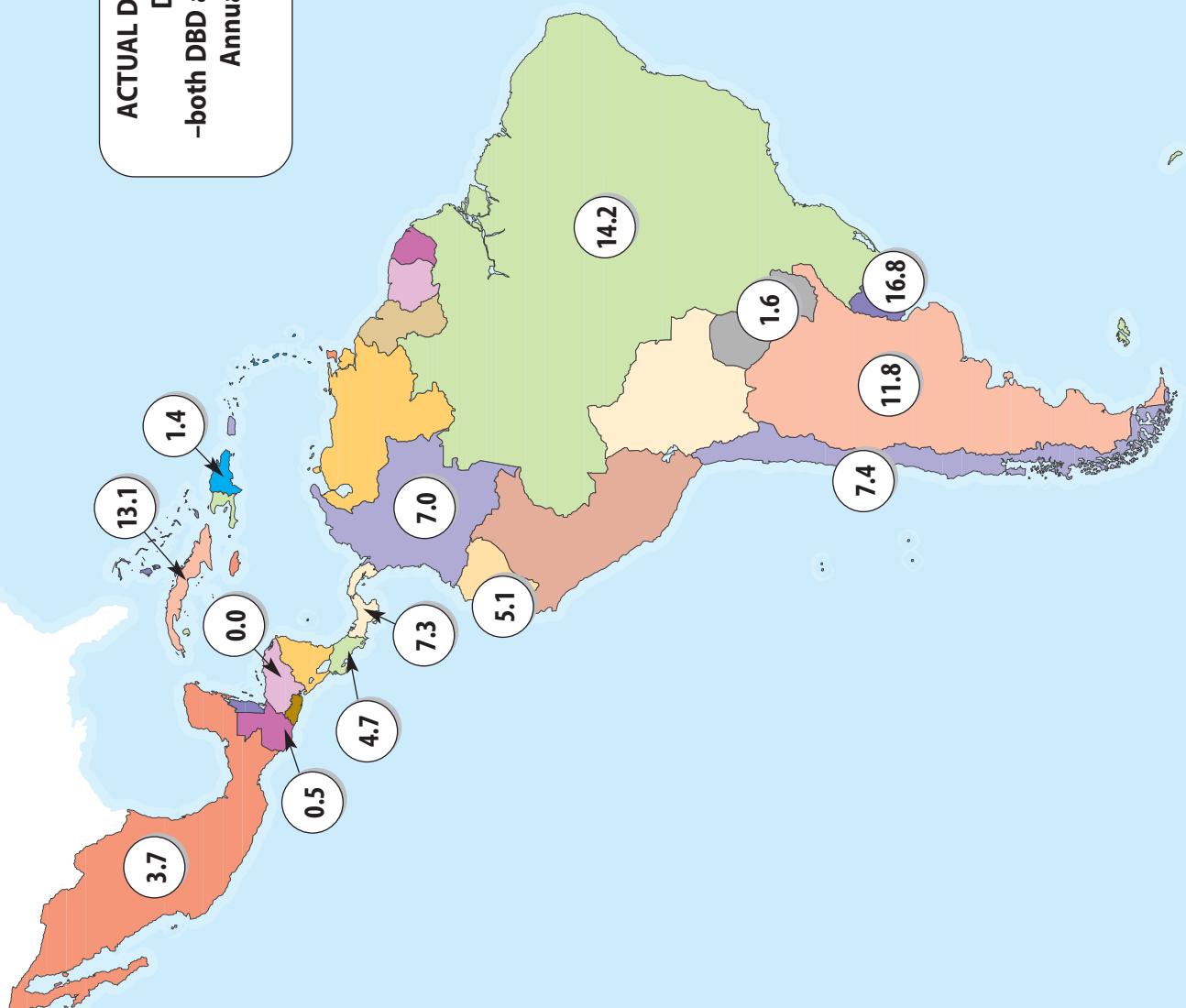
10893 ACTUAL DECEASED ORGAN DONORS (both DBD and DCD included)

2016 data

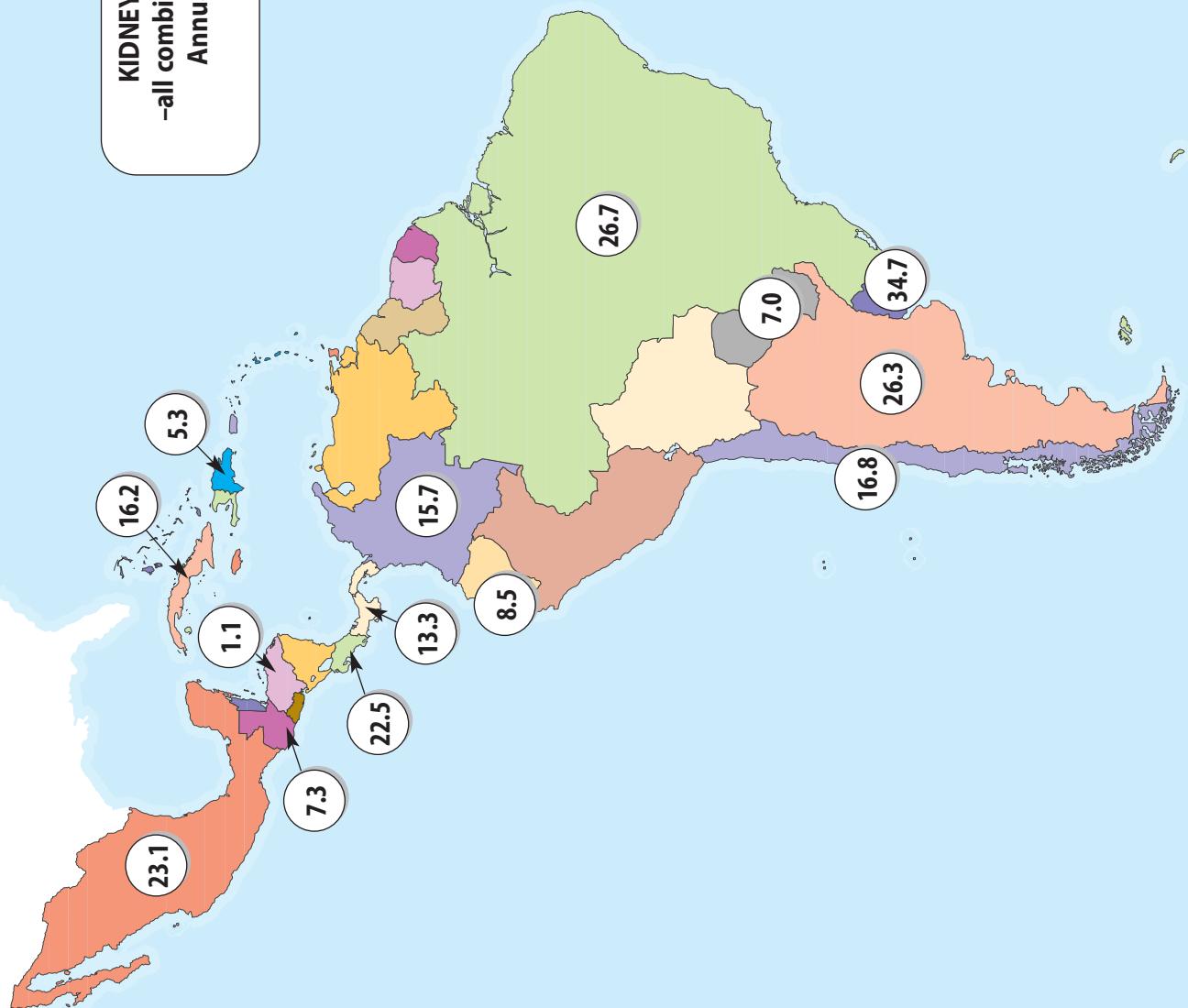
N = 28 COUNTRIES (505.9 million inhabitants)



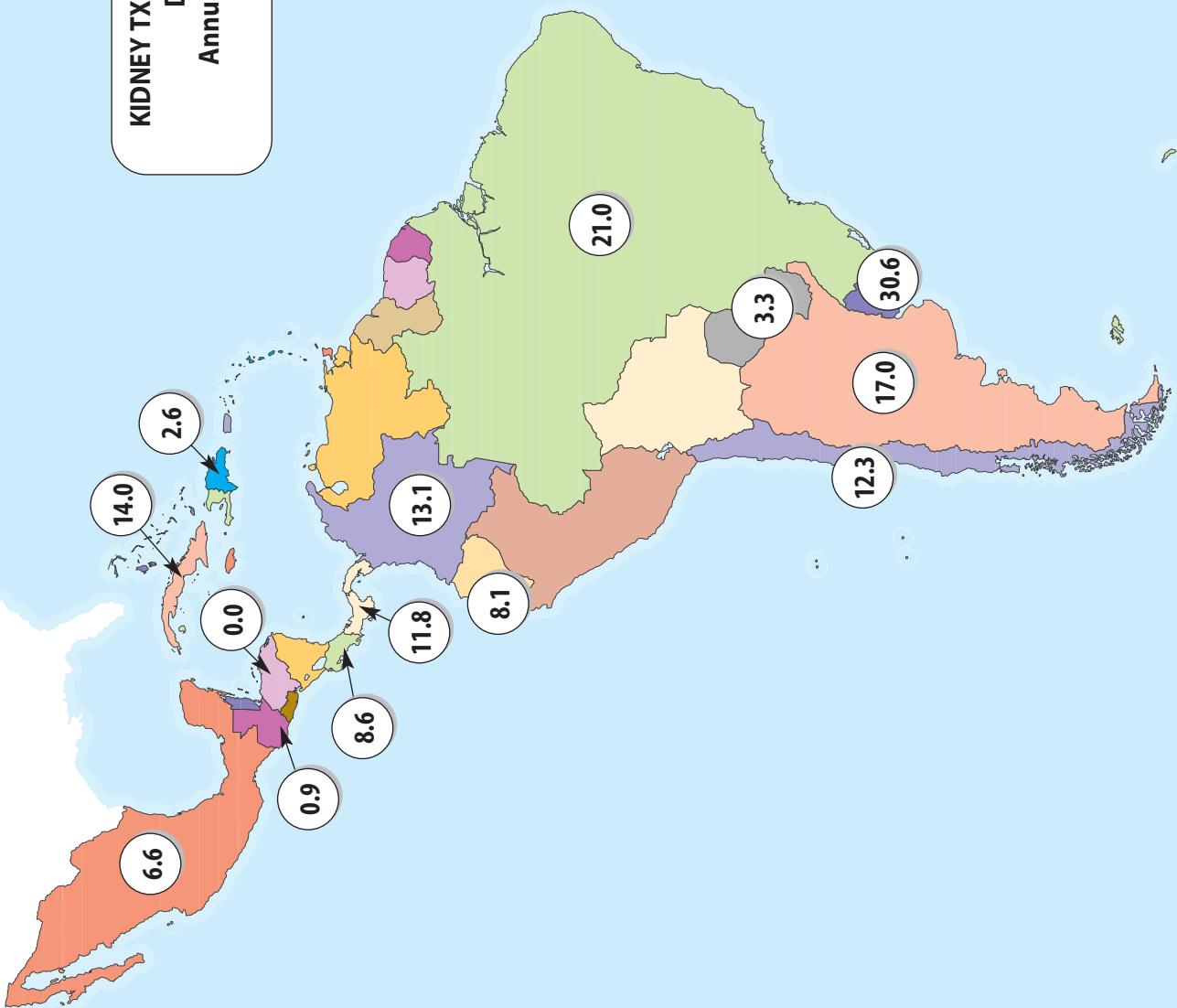
**ACTUAL DECEASED ORGAN
DONORS**
-both DBD and DCD included-
Annual Rate p.m.p
2016



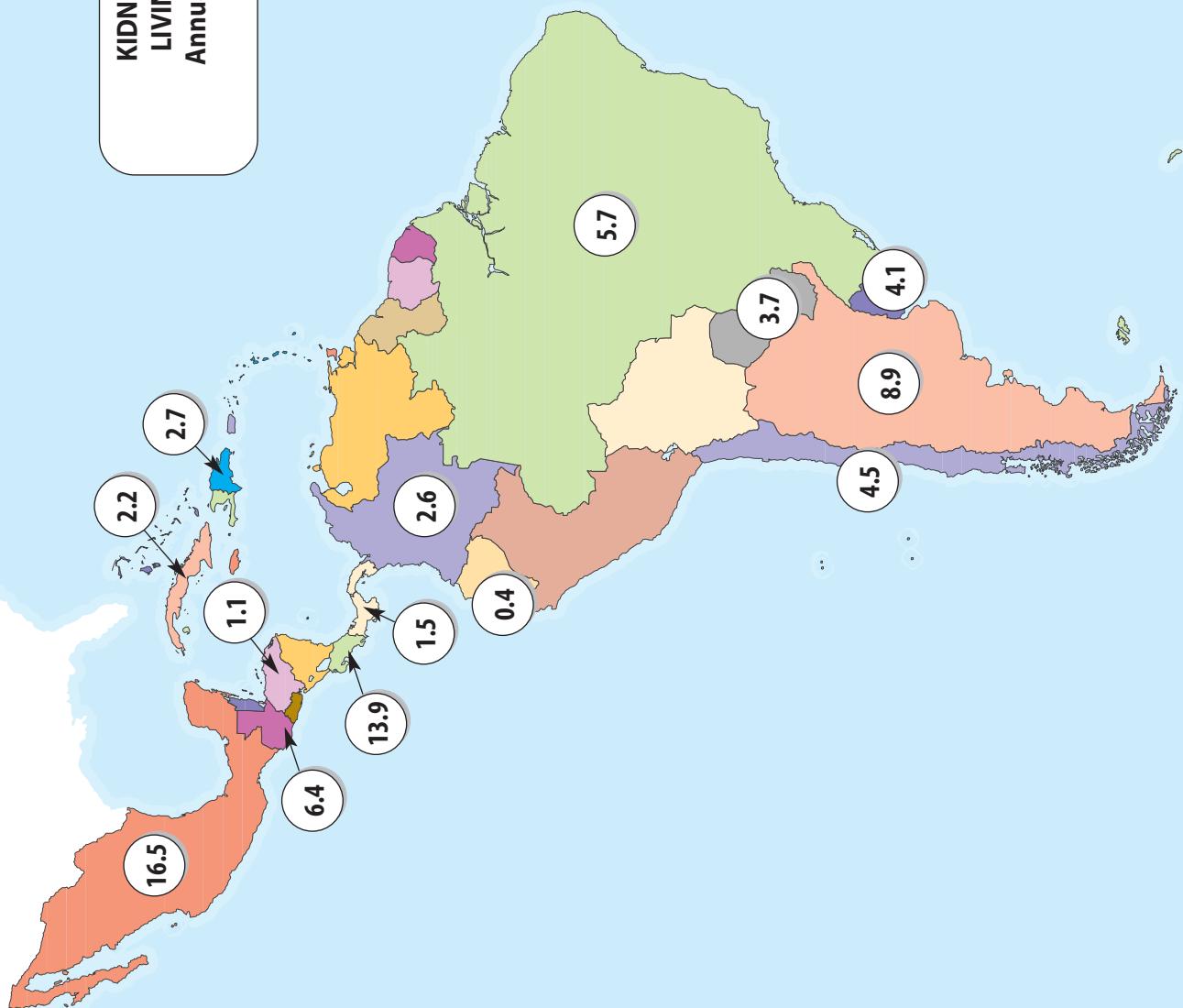
KIDNEY TRANSPLANT
-all combinations included-
Annual Rate p.m.p
2016



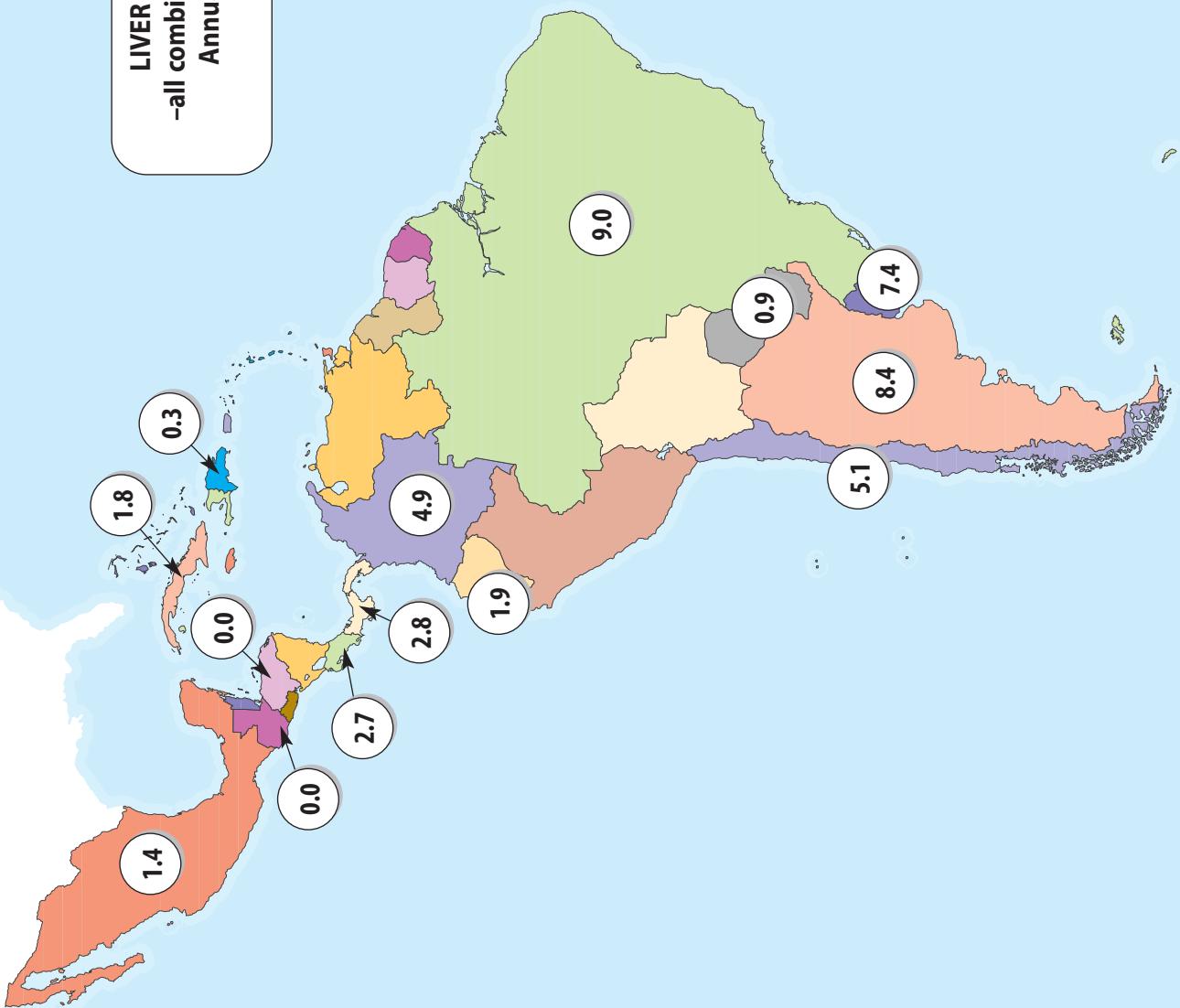
**KIDNEY TX. FROM DECEASED
DONORS**
Annual Rate p.m.p
2016



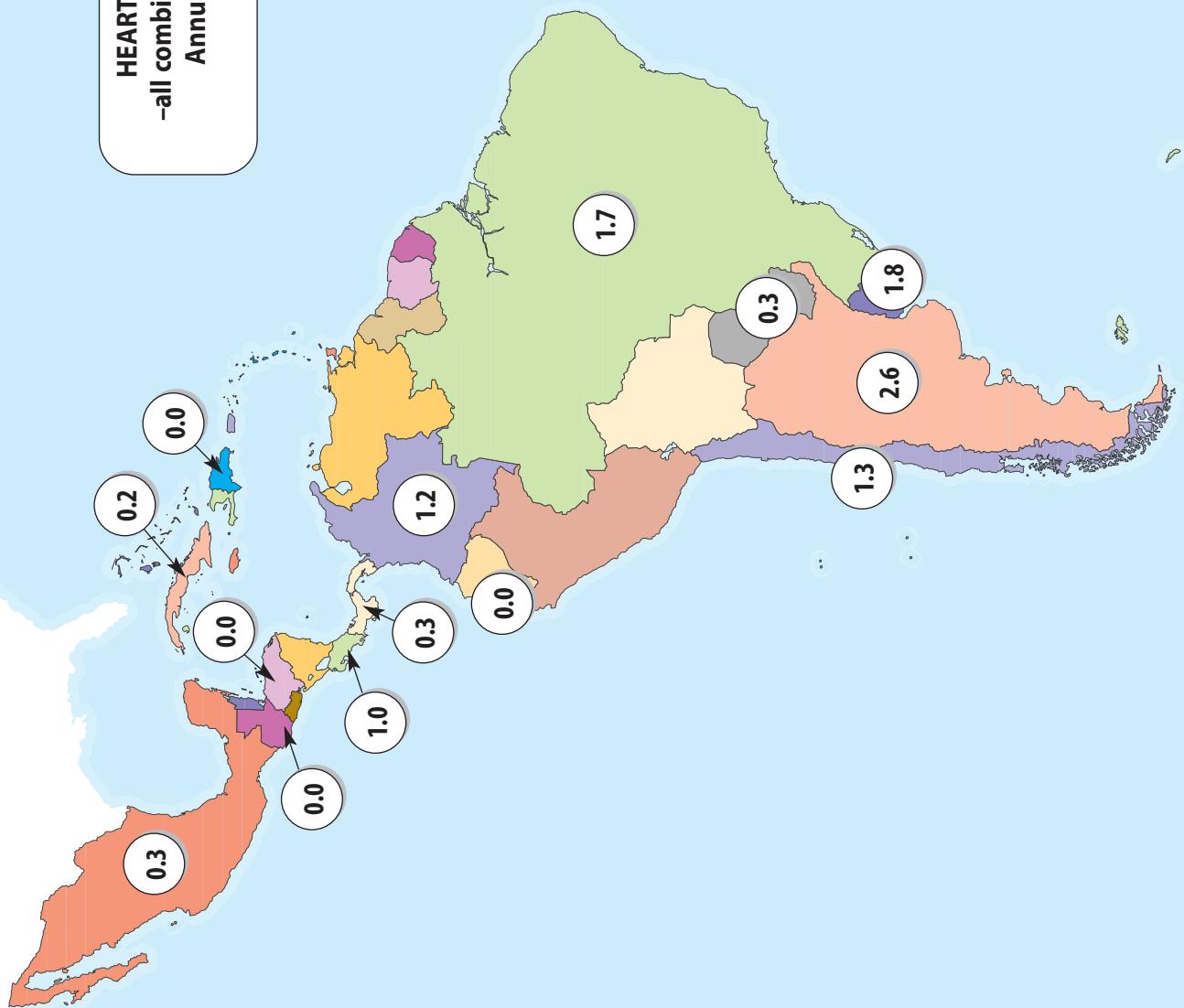
**KIDNEY TX. FROM
LIVING DONORS**
Annual Rate p.m.p.
2016



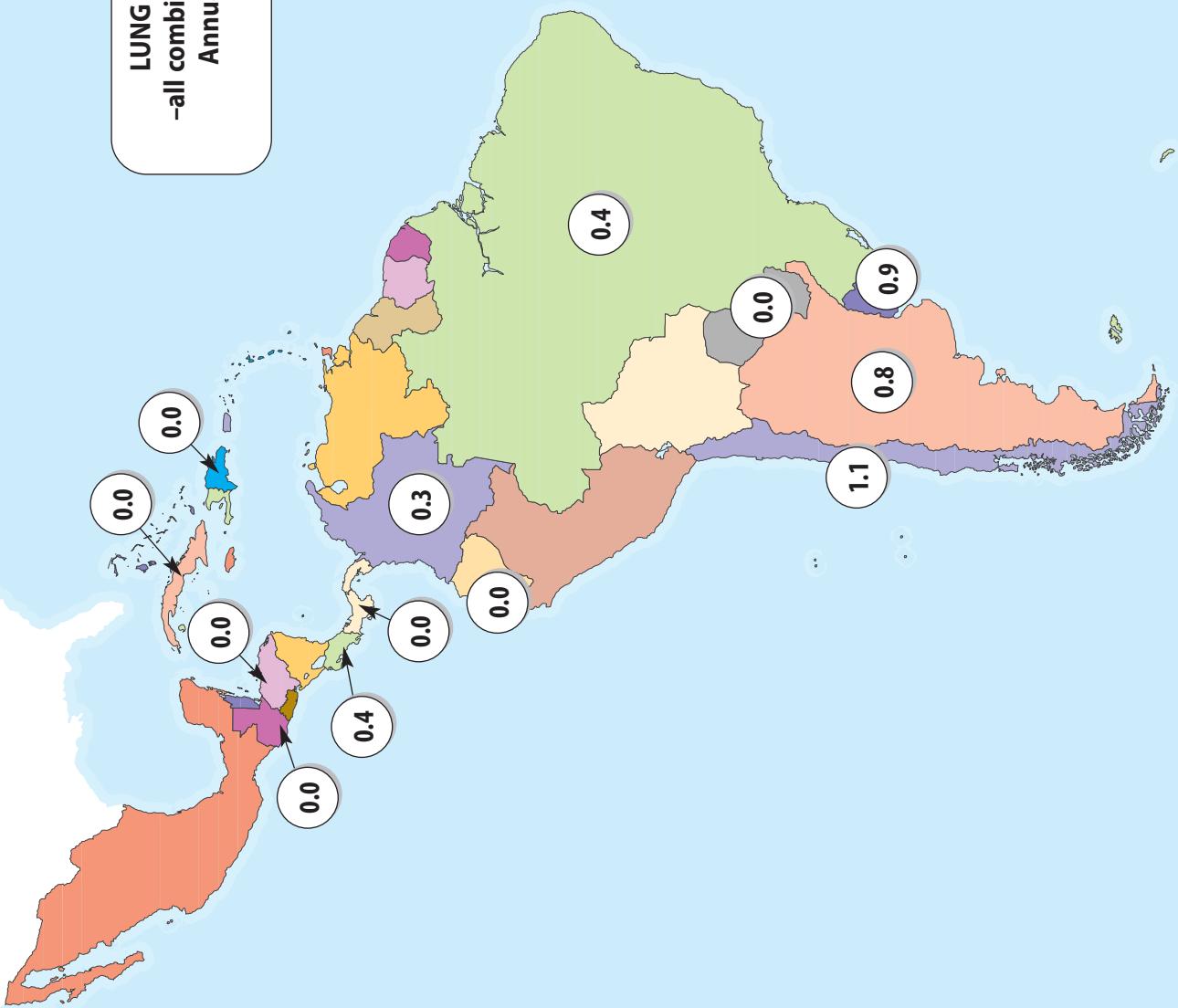
LIVER TRANSPLANT
-all combinations included-
Annual Rate p.m.p
2016



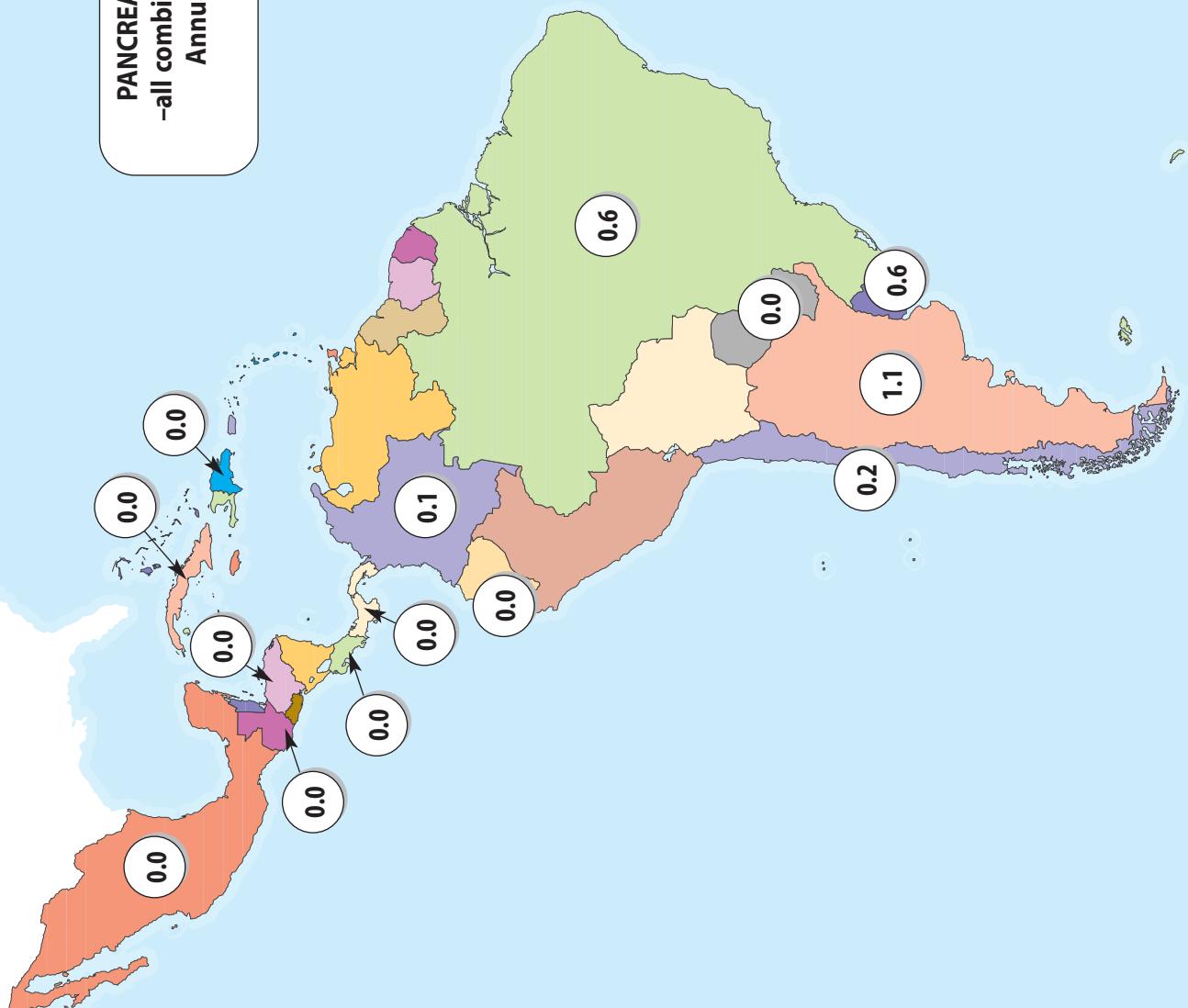
HEART TRANSPLANT
-all combinations included-
Annual Rate p.m.p
2016



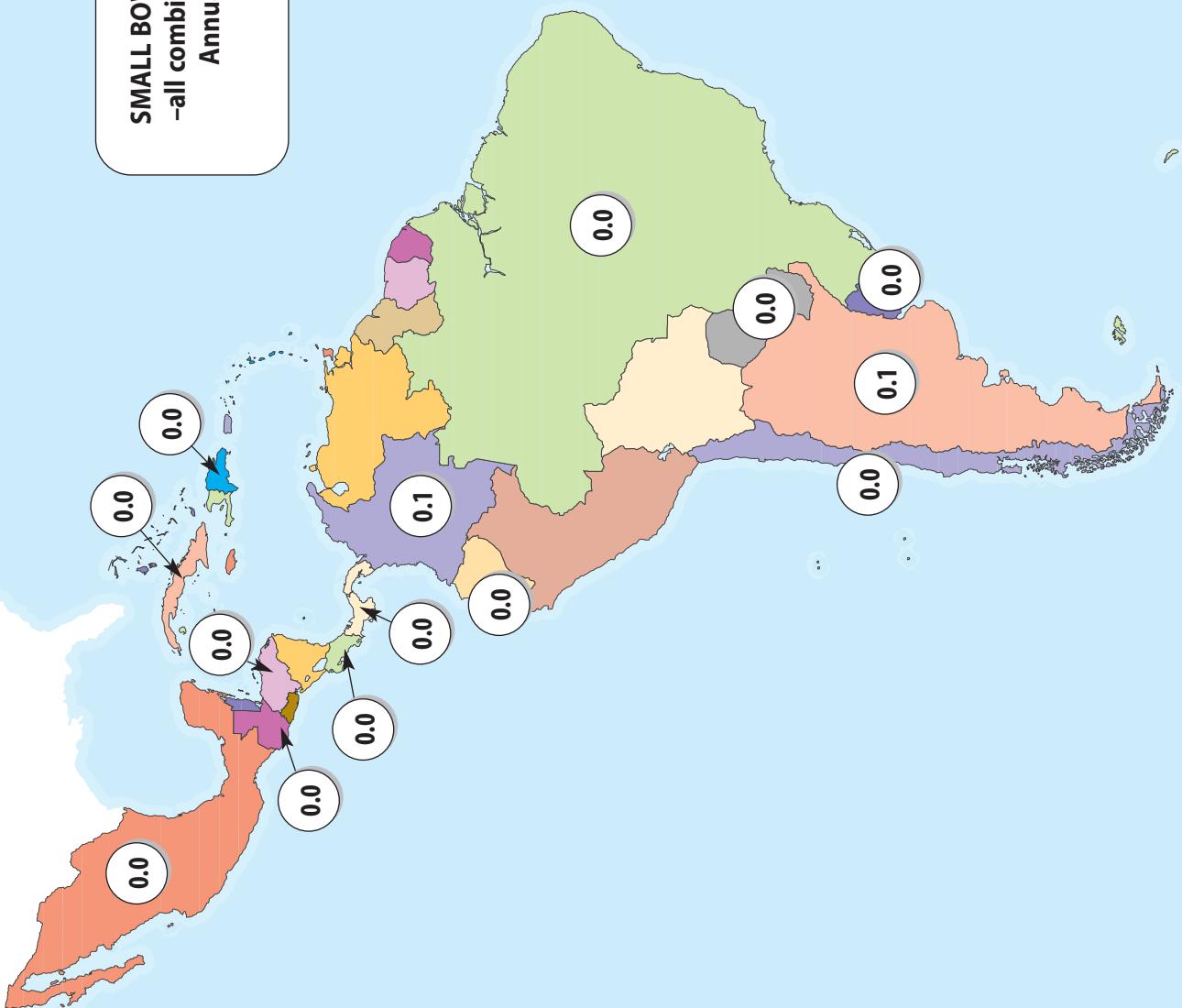
LUNG TRANSPLANT
-all combinations included-
Annual Rate p.m.p
2016

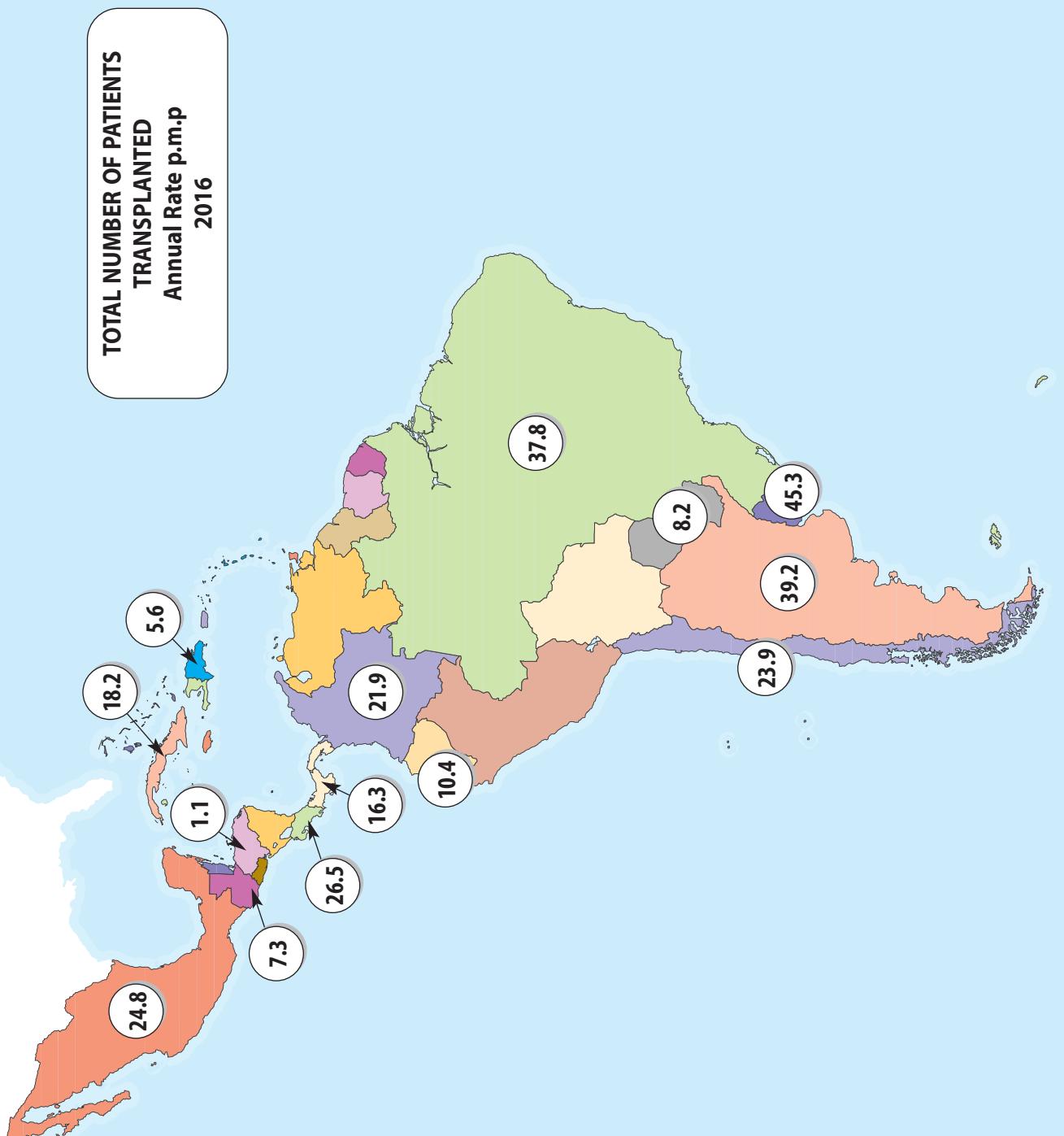


PANCREAS TRANSPLANT
-all combinations included-
Annual Rate p.m.p
2016



SMALL BOWEL TRANSPLANT
-all combinations included-
Annual Rate p.m.p
2016







Global Observatory on Donation and Transplantation



LATINAMERICAN COUNTRIES



Kidney Transplants	Liver Transplants	Heart Transplants	Lung Transplants	Pancreas Transplants	Small Bowel Transplants	Organs Transplanted
11626 (36.3% LD)	2868 (9.1% LD)	603	167	196	8	15468

4820 ACTUAL DECEASED ORGAN DONORS (both DBD and DCD included)

2016 data

N = 14 COUNTRIES (531.1 million inhabitants)

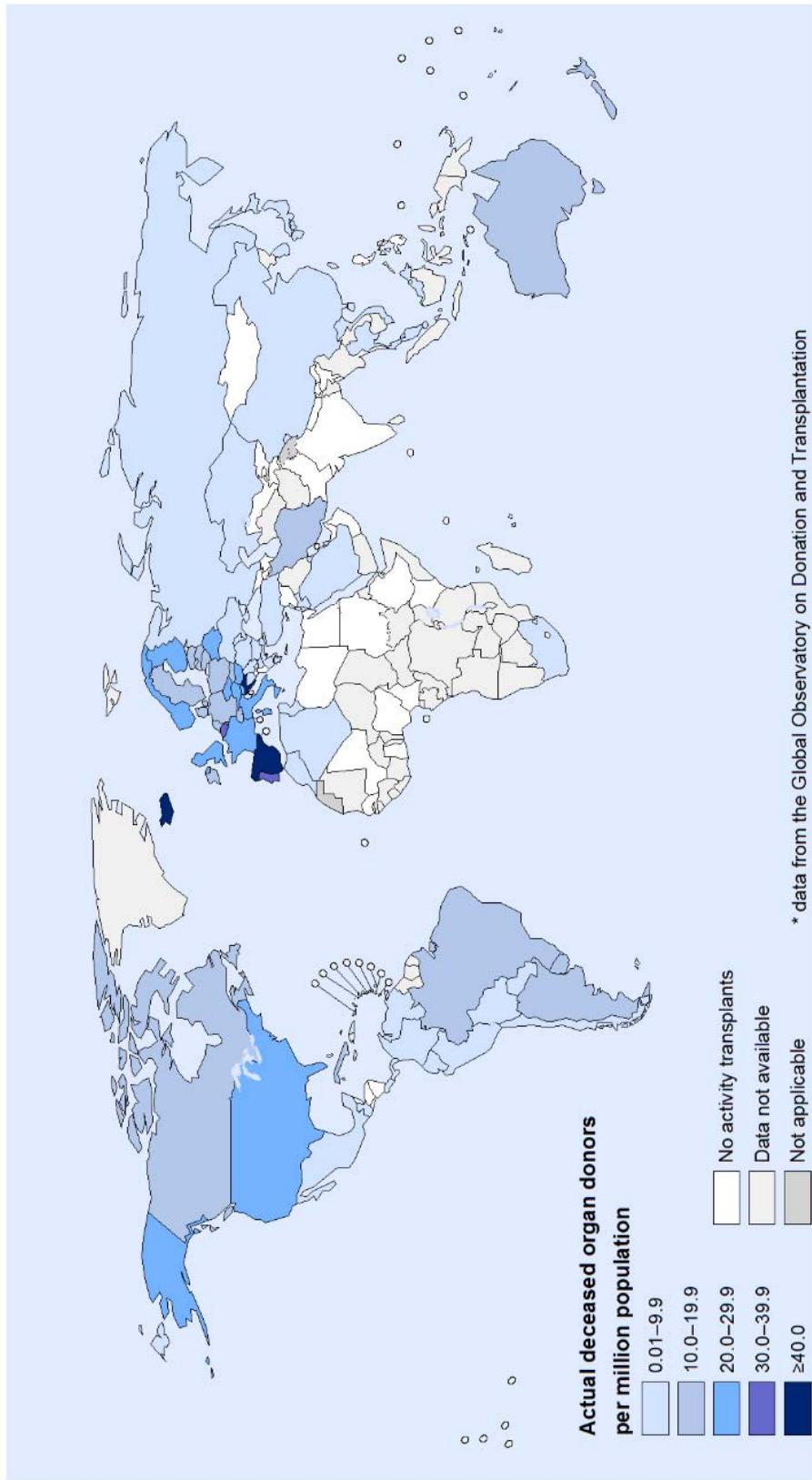
GLOBAL ACTIVITY IN ORGAN TRANSPLANTATION 2015 ESTIMATES



30557 ACTUAL DECEASED ORGAN DONORS (both DBD and DCD included)

- Information of 111 Member States on organ transplantation activities is included in the GODT:
89 of 2015, 9 of 2014, 7 of 2013, 2 of 2012, 3 of 2011 and 1 of 2010.

Actual donors from deceased persons, 2015*



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 and dashed 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: Information Evidence and Research (IER)
World Health Organization

World Health Organization
© WHO 2017. All rights reserved.

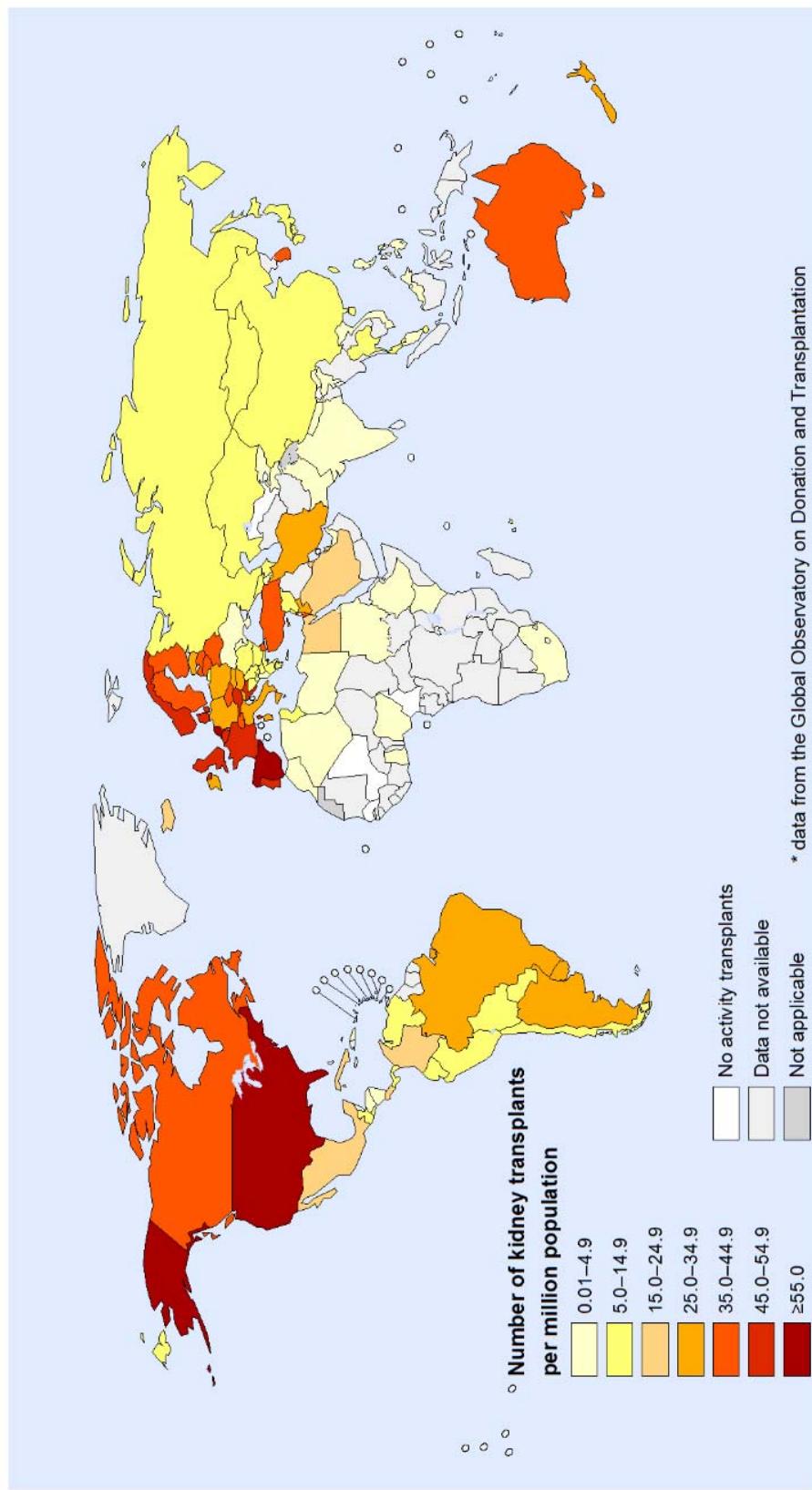


Global Observatory on Donation and Transplantation



MINISTERIO
DE SANIDAD, POLITICA SOCIAL
E IGUALDAD

Kidney transplantation activities, 2015*



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 and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

* data from the Global Observatory on Donation and Transplantation

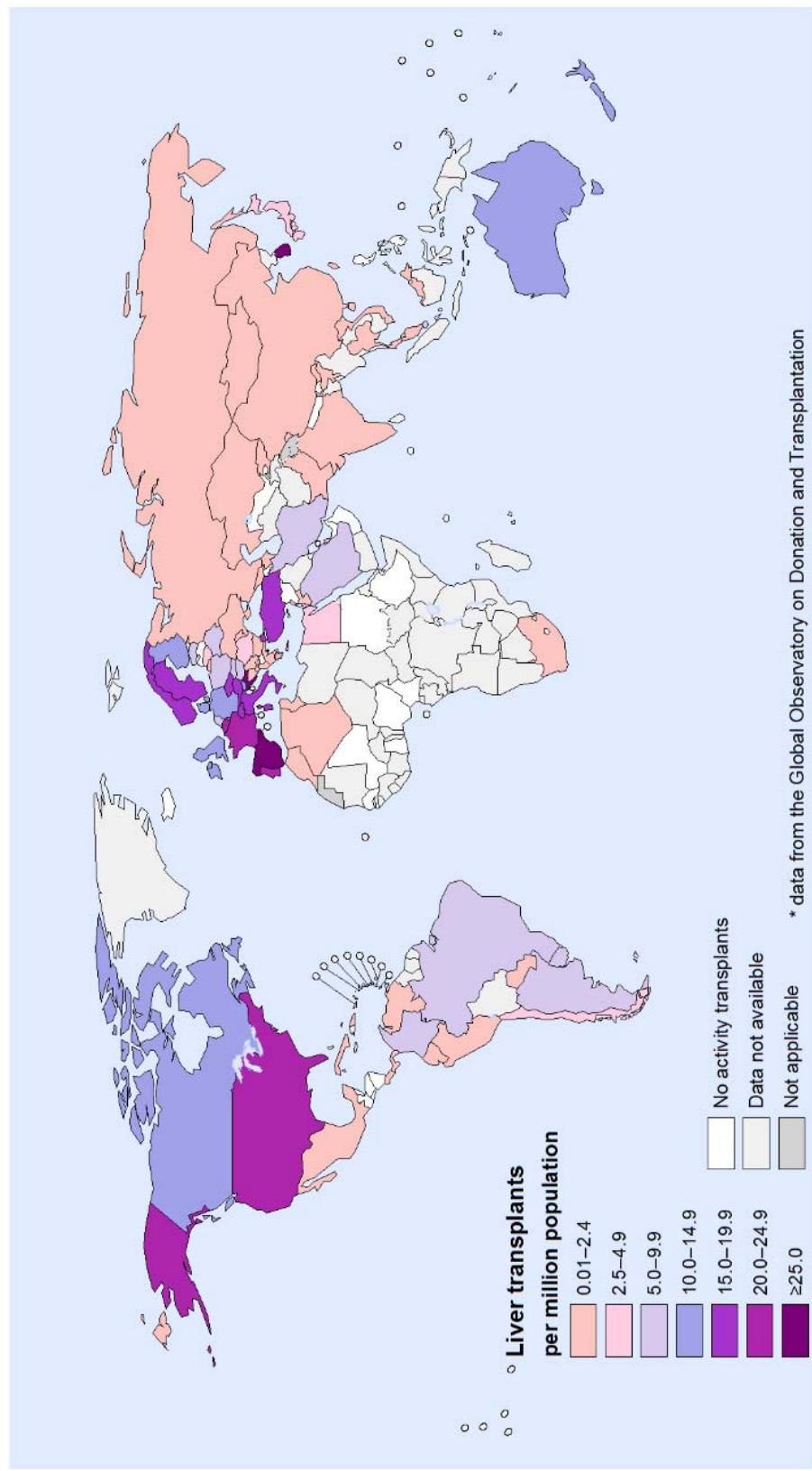


World Health Organization

© WHO 2017. All rights reserved.

Data Source: Global Observatory on Donation & Transplantation; Map Production: Information Evidence and Research (IER)
World Health Organization

Liver transplantation activities, 2015*

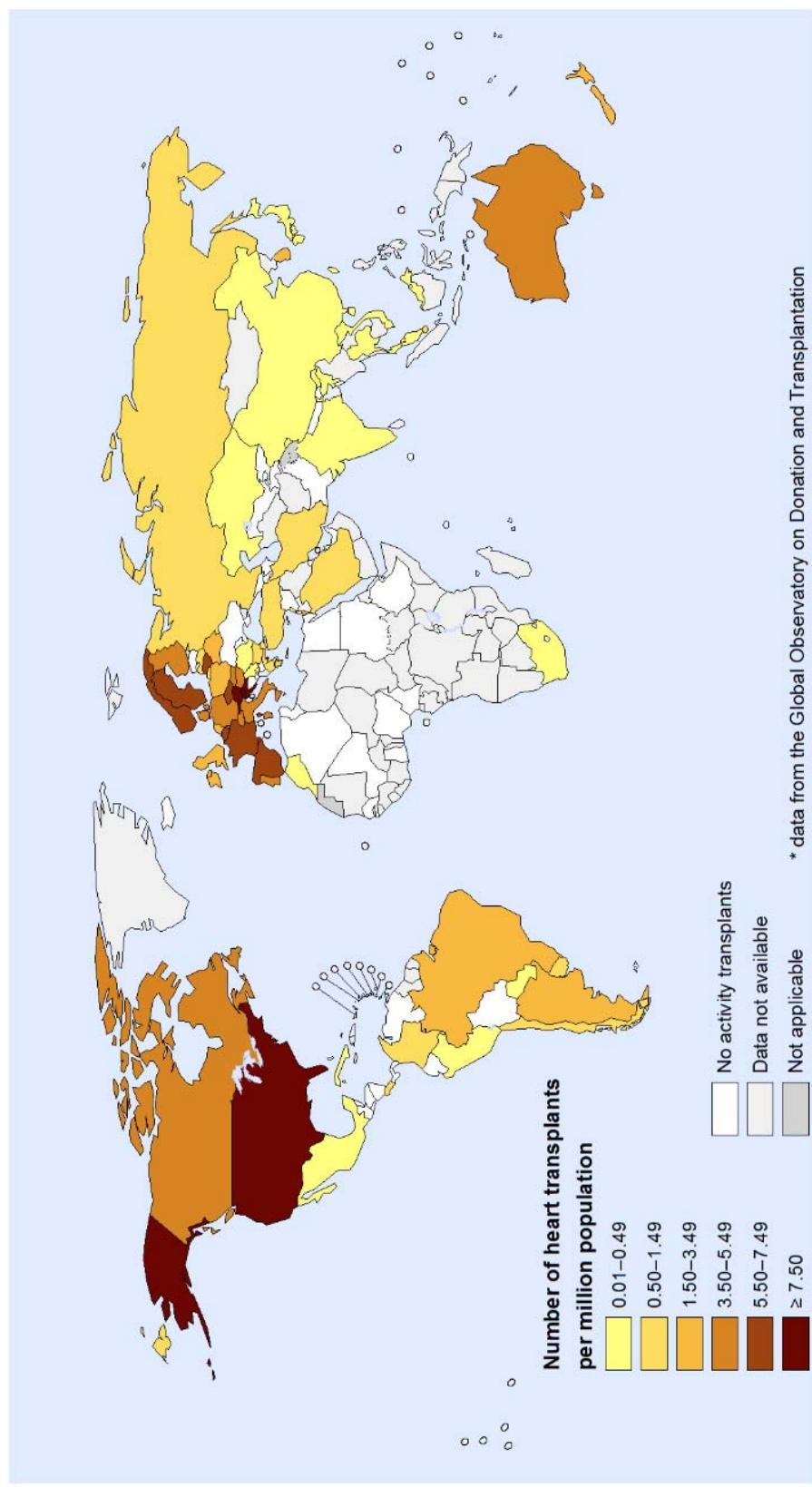


The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers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

Data Sources: Global Observatory on Donation & Transplantation. Map Production: Information Evidence and Research (IER) World Health Organization

World Health Organization
© WHO 2017. All rights reserved.

Heart transplantation activities, 2015*



* data from the Global Observatory on Donation and Transplantation

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 and dashed 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: Information Evidence and Research (IER)
World Health Organization

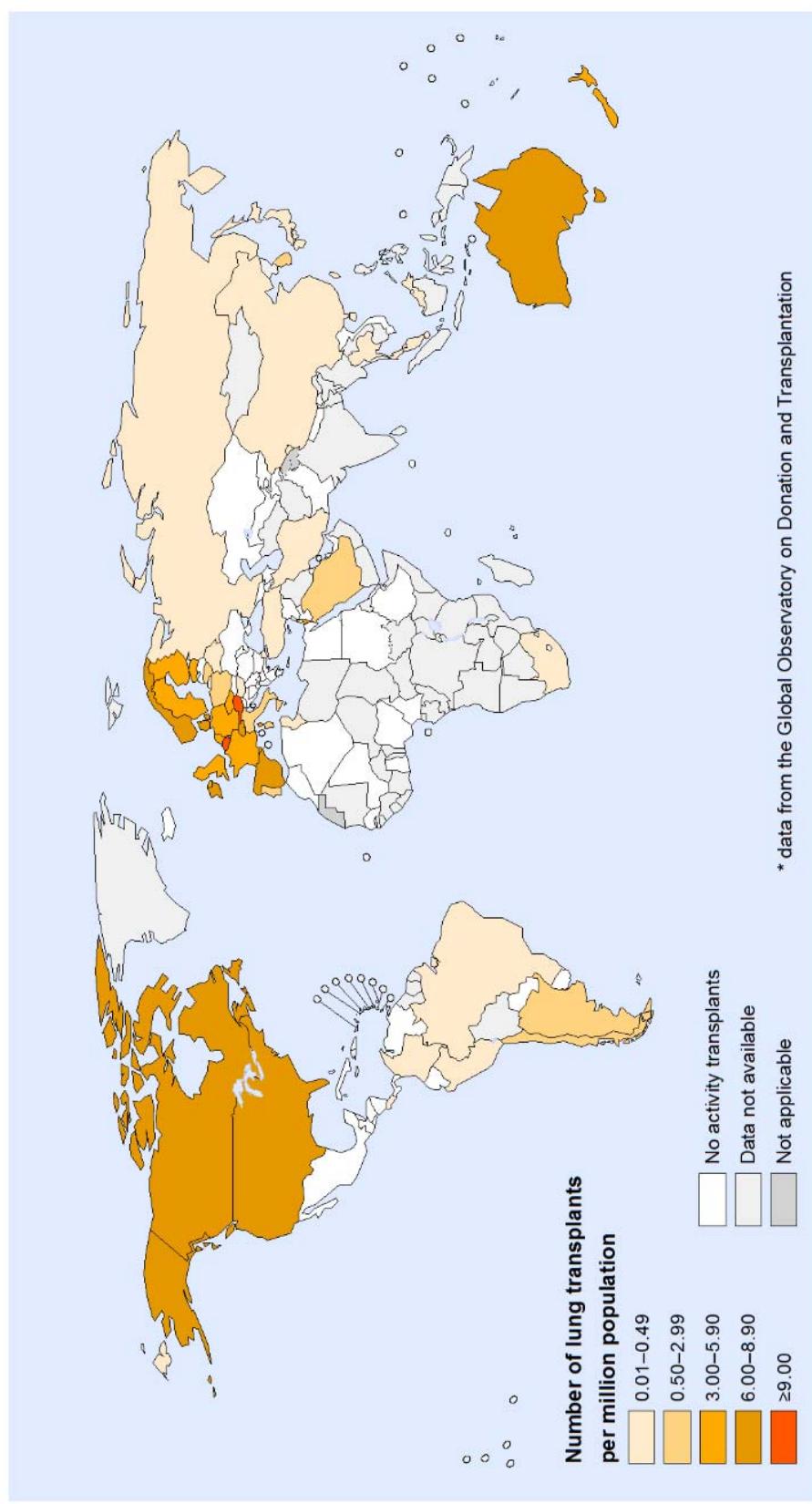


© WHO 2017. All rights reserved.



Global Observatory on Donation and Transplantation

Lung transplantation activities, 2015*



* data from the Global Observatory on Donation and Transplantation

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 and dashed 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, Information Evidence and Research (IER)
World Health Organization

© WHO 2017. All rights reserved.



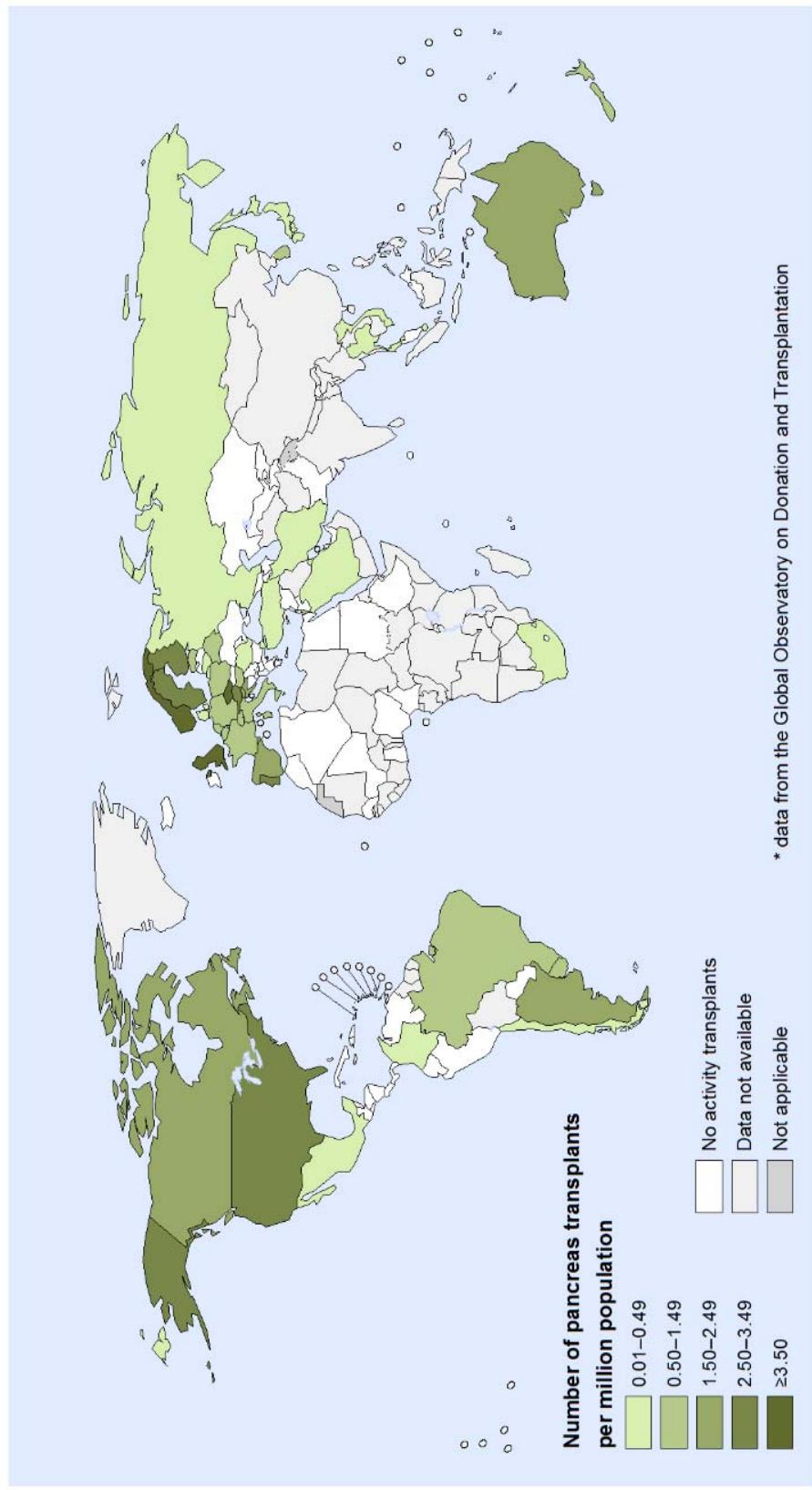
Global Observatory on Donation and Transplantation



MINISTERIO DE SANIDAD, POLITICA SOCIAL E IGUALDAD

GOBIERNO DE ESPAÑA

Pancreas transplantation activities, 2015*



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 and dashed 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: Information & Evidence and Research (IER) World Health Organization

World Health Organization
© WHO 2017. All rights reserved.



Global Observatory on Donation and Transplantation

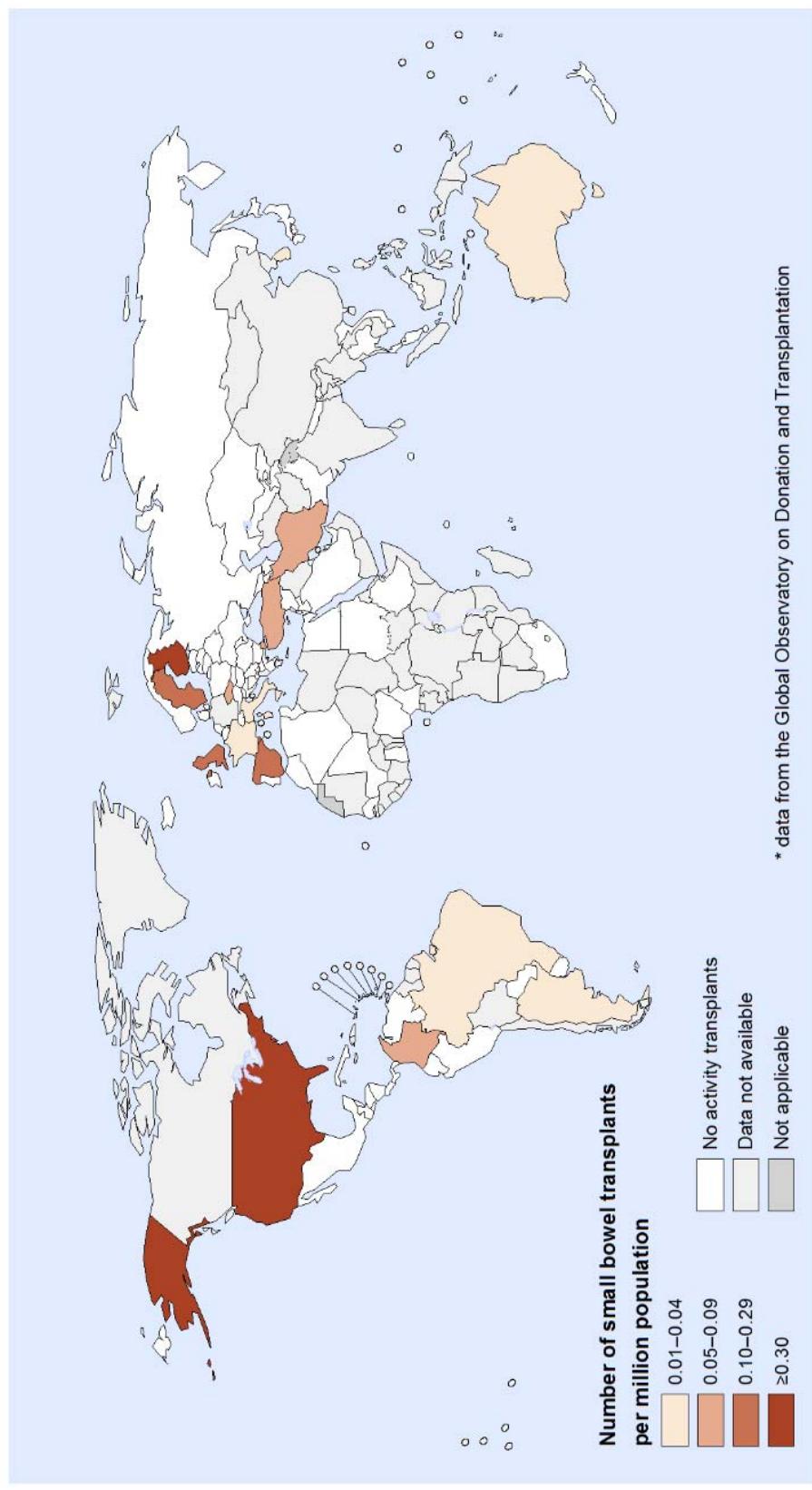


WHO Collaborating
Centre on Donation
and Transplantation



MINISTERIO
DE SANIDAD, POLITICA SOCIAL
E IGUALDAD

Small bowel transplantation activities, 2015*



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 and dashed 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: Information Evidence and Research (IER) World Health Organization



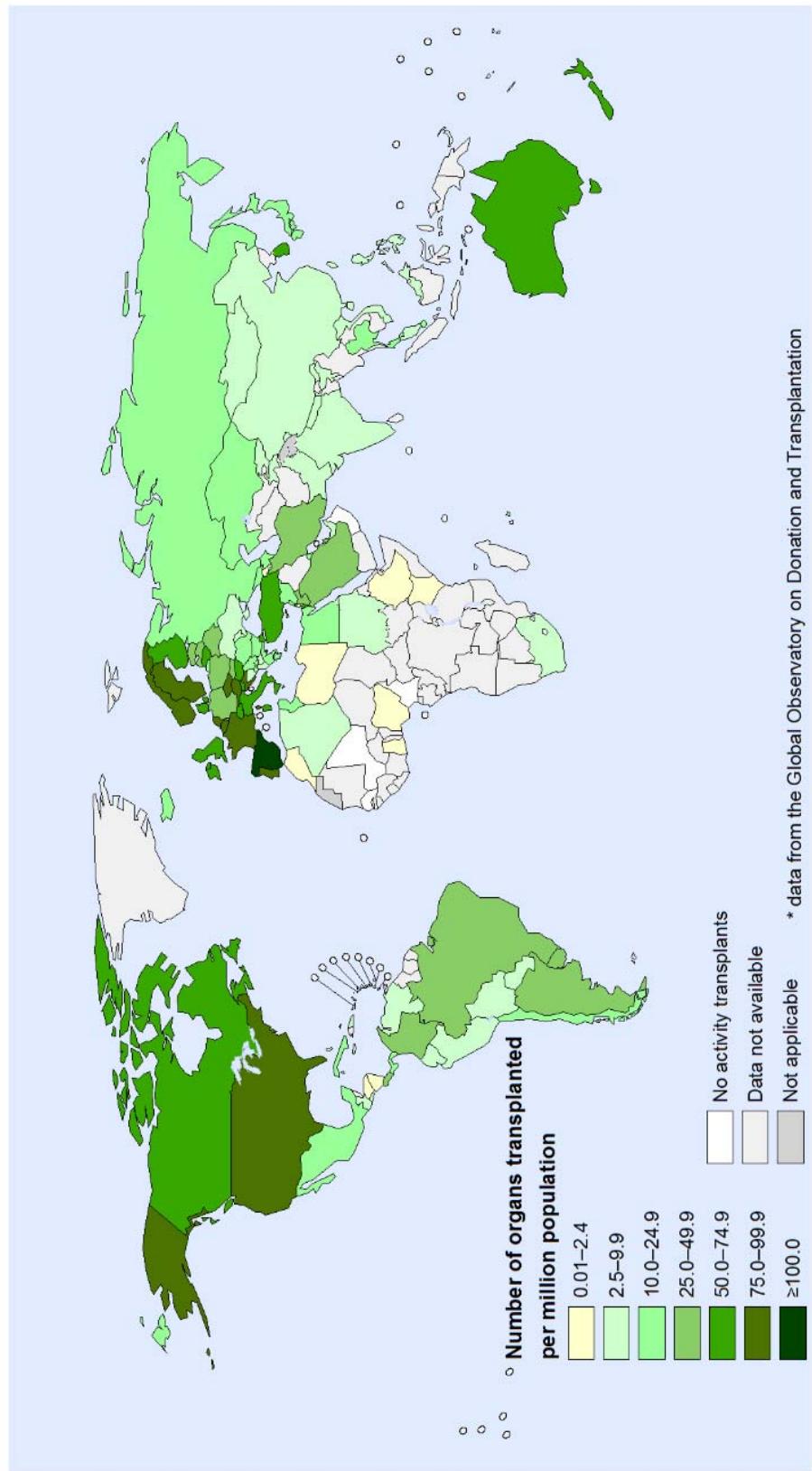
© WHO 2017. All rights reserved.



Global Observatory on Donation and Transplantation



Global transplantation activities of solid organs, 2015*



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 and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.



© WHO 2017. All rights reserved.

Data Source: Global Observatory on Donation & Transplantation. Map Production: Information Evidence and Research (IER)
World Health Organization

International Data On Organ Donation And Transplantation Activity, Waiting List And Family Refusals. Year 2016



DONATION AND TRANSPLANTATION ACTIVITY

COUNTRIES Population (million inhabitants): UNFPA		EUROPEAN UNION COUNTRIES				DONATION AND TRANSPLANTATION ACTIVITY			
Austria 8.6	Belgium 11.4	Bulgaria 7.1	Croatia 4.2	Cyprus 1.2	Czech Republic 10.5	Denmark 5.7	Estonia 1.3	Finland 5.5	France 64.7
Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors									
-both DBD and DCD included-									
Actual donors after circulatory death -DCD-									
Multitorgan donors									
KIDNEY									
Total TX. -all combinations included-	432	50.2	520	45.6	37	5.2	190	45.2	458
% (TX. from living d. / Total TX.)	15.5	12.9	29.7	3.7	78.9	19	15.8	10.0	9.5
Paediatric <15 years	7	0.8	16	1.4	0	0.0	0	0.6	1
TX. from deceased donors	365	42.4	453	39.7	26	3.7	183	43.6	7
-TX. from DCD	10	1.2	118	10.4	0	0.0	0	0.4	154
-Single TX.	356	41.4	453	39.7	26	3.7	182	43.3	412
-Double TX.	9	1.0	0	0.0	1	0.2	409	39.0	3.3
TX. from living donors	67	7.8	67	5.9	11	1.5	15	12.5	152
-TX. from Related living donors	62	7.2	64	5.6	11	1.5	15	12.5	39.0
-TX. from Unrelated living donors	5	0.5	3	0.3	0	0.0	0	0.0	26.7
LIVER									
Total TX. -all combinations included-	154	17.9	302	26.5	11	1.5	121	28.8	179
Paediatric <15 years	8	0.9	36	3.2	1	0.1	0	0.0	17.0
Split TX.	6	0.7	1	0.1	0	0.0	0	0.0	10.0
Domino TX.	0	0.0	3	0.3	0	0.0	0	0.0	1.1
TX. from living donors	2	0.2	43	3.8	1	0.1	0	0.0	1.1
TX. from DCD	0	0.0	73	6.4	0	0.0	0	0.0	0.0
HEART									
Total TX. -all combinations included-	57	6.6	70	6.1	9	1.3	35	8.3	78
Paediatric <15 years	2	0.2	2	0.2	0	0.0	0	0.0	7.4
HEART-LUNG									
Total TX. -all combinations included-	0	0.0	2	0.2	0	0.0	0	0.0	35
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	5.1
LUNG									
Total TX. -all combinations included-	110	12.8	129	11.3	0	0.0	0	0.0	59
Paediatric <15 years	4	0.5	1	0.1	0	0.0	0	0.0	10.4
-Single TX.	3	0.3	3	0.3	0	0.0	0	0.0	6
-Double TX. (heart-lung TX. included)	107	12.4	126	11.1	0	0.0	0	0.0	34.6
TX. from living donors	0	0.0	0	0.0	0	0.0	0	0.0	3.4
TX. from DCD (double + single)	1	0.1	35	3.1	0	0.0	0	0.0	29
PANCREAS									
Total TX. -all combinations included-	26	3.0	11	1.0	0	0.0	7	1.7	41
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	4.0
Pancreas TX. Alone	2	0.2	0	0.0	0	0.0	0	0.0	1
Kidney – Pancreas TX.	24	2.8	11	1.0	0	0.0	7	1.7	32
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	0.0
SMALL BOWEL									
Total TX. -all combinations included-	1	0.1	0	0.0	0	0.0	0	0.0	2.7
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	4.9
Small bowel TX. Alone	1	0.1	0	0.0	0	0.0	0	0.0	0.0
RECIPIENTS									
Total number of patients transplanted	750	87.2	1032	90.5	57	8.0	346	82.4	19
Paediatric <15 years	21	2.4	55	4.8	1	0.1	0	0.0	15.8
Patients transplanted from living donors	69	8.0	110	9.6	12	1.7	7	1.7	15.5

DONATION AND TRANSPLANTATION ACTIVITY

COUNTRIES (million inhabitants): UNFFPA	EUROPEAN UNION COUNTRIES												Malta 0.4												
	GERMANY 80.7			GREECE 10.9			HUNGARY 9.8			IRELAND 4.7			ITALY 59.8			LATVIA 2.0			LITHUANIA 2.9			LUXEMBOURG 0.6			
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	
Actual deceased organ donors	857	10.6	51	4.7	182	18.6	77	16.4	1478	24.7	30	15.0	63	21.7	3	5.2	10	25.0	0	0.0	0	0.0	0	0.0	25.0
-both DBD and DCD included-	0	0.0	0	0.0	0	0.0	3	0.6	20	0.3	11	5.5	2	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
Actual donors after circulatory death -DCD-	757	9.4	46	4.2	128	13.1	53	11.3	914	15.3	4	2.0	32	11.0	3	5.2	10	25.0	0	0.0	0	0.0	0	0.0	25.0
KIDNEY	TRANSPLANTATION																								
Total TX. -all combinations included-	2094	25.9	124	11.4	342	9.9	34.9	172	29.1	36.6	2076	34.7	59	16.9	29.5	111	5.4	38.3	0	0.0	0	0.0	20	50.0	
% (TX. from living d. / Total TX.)	64	28.5	3	39.5	10	1.0	7	1.5	59	1.0	0	0.0	3	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
Paediatric <15 years	1497	18.6	75	6.9	308	31.4	122	6	1.3	1796	30.0	49	24.5	105	36.2	0	0.0	0	0.0	15	37.5				
TX. from deceased donors	0	0.0	0	0.0	0	0.0	0	0.0	122	26.0	1668	27.9	49	24.5	105	36.2	0	0.0	0	0.0	15	37.5			
-TX. from DCD	1482	18.4	75	6.9	307	31.3	122	1.1	0	0.0	128	2.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
-Single TX.	15	0.2	0	0.0	1	0.1	0	0.0	50	10.6	280	4.7	10	5.0	6	2.1	0	0.0	5	12.5					
-Double TX.	597	7.4	49	4.5	34	3.5	50	10.6	278	4.6	10	5.0	6	2.1	0	0.0	4	10.0							
TX. from living donors	593	7.3	49	4.5	34	3.5	50	10.6	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.5			
-TX. from Related living donors	4	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
-TX. from Unrelated living donors																									
LIVER	TRANSPLANTATION																								
Total TX. -all combinations included-	888	11.0	21	1.9	81	8.3	58	12.3	1221	20.4	0	0.0	23	7.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
Paediatric <15 years	109	1.4	0	0.0	3	0.3	0	0.0	78	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
Split TX.	73	0.9	0	0.0	0	0.0	0	0.0	98	1.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
Domino TX.	12	0.1	0	0.0	0	0.0	0	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
TX. from living donors	50	0.6	0	0.0	0	0.0	0	0.0	7	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
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	10	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
HEART	TRANSPLANTATION																								
Total TX. -all combinations included-	297	3.7	6	0.6	58	5.9	15	3.2	266	4.4	3	1.5	15	5.2	0	0.0	0	0.0	0	0.0	0	0.0	1	2.5	
Paediatric <15 years	33	0.4	0	0.0	2	0.2	0	0.0	26	0.4	1	0.5	2	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
HEART-LUNG	TRANSPLANTATION																								
Total TX.	7	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
Paediatric <15 years	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
LUNG	TRANSPLANTATION																								
Total TX. -all combinations included-	328	4.1	0	0.0	17	1.7	35	7.4	147	2.5	0	0.0	3	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
Paediatric <15 years	7	0.1	0	0.0	0	0.0	0	0.0	5	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
Single TX.	38	0.5	0	0.0	1	0.1	0	0.0	20	4.3	19	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
Double TX. (heart-lung TX. included)	290	3.6	0	0.0	0	0.0	0	0.0	15	1.6	32	2.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
TX. from living donors	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
TX. from DCD (double + single)	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	TRANSPLANTATION																								
Total TX. -all combinations included-	97	1.2	0	0.0	6	0.6	0	0.0	67	1.1	0	0.0	2	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
Paediatric <15 years	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 TX. Alone	10	0.1	0	0.0	6	0.6	0	0.0	10	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
Kidney – Pancreas TX.	85	1.1	0	0.0	0	0.0	0	0.0	56	0.9	0	0.0	2	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
TX. from DCD	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
SMALL BOWEL	TRANSPLANTATION																								
Total TX. -all combinations included-	4	0.0	0	0.0	0	0.0	0	0.0	2	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
Paediatric <15 years	2	0.0	0	0.0	0	0.0	0	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
Small bowel TX. Alone																									
RECIPIENTS	TRANSPLANTATION																								
Total number of patients transplanted	3586	44.4	151	13.9	492	50.2	280	59.6	3698	61.8	62	31.0	151	52.1	0	0.0	0	0.0	0	0.0	0	0.0	21	52.5	
Paediatric <15 years	647	8.0	49	4.5	34	3.5	50	1.5	167	2.8	48	10.6	10	5.0	6	2.1	0	0.0	0	0.0	0	0.0	0	0.0	12.5
Patients transplanted from living donors																									

DONATION AND TRANSPLANTATION ACTIVITY

COUNTRIES Population (million inhabitants): UNFFA		EUROPEAN UNION COUNTRIES									
		Netherlands 17.0	Poland 38.6	Portugal 10.3	Romania 19.4	Slovakia 5.4	Slovenia 2.1	Spain 46.1	Sweden 9.9	United Kingdom 65.1	
Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors											
-both DBD and DCD included-											
Actual donors after circulatory death -DCD-	250	14.7	542	14.0	337	32.7	124	6.4	72	13.3	46
Multitorgan donors	132	7.8	7	0.2	10	0	0	0.0	42	20.0	20.0
	187	11.0	356	9.2	223	21.7	93	4.8	0	0	15.2
TRANSPLANTATION											
KIDNEY											
Total TX. -all combinations included-	991	58.3	1108	4.5	287	499	48.4	265	13.7	143	265
% (TX. from living d. / Total TX.)	20	57.0	1.2	37	1.0	13	1.3	2	0.1	2	0.4
Paediatric <15 years	426	25.1	1058	27.4	434	42.1	224	11.5	124	23.0	44
TX. from deceased donors	210	12.4	12	0.3	12	1.2	0	0.0	0	0.0	0
-TX. from DCD	425	25.0	1057	27.4	407	39.5	224	11.5	123	22.8	44
-Single TX.	1	0.1	1	0.0	27	2.6	0	0.0	1	0.2	0
-Double TX.	565	33.2	50	1.3	65	6.3	41	2.1	19	3.5	2
TX. from living donors	442	26.0	48	1.2	65	6.3	41	2.1	19	3.5	2
-TX. from Related living donors	123	7.2	2	0.1	0	0.0	0	0.0	0	0.0	0
-TX. from Unrelated living donors											
LIVER											
Total TX. -all combinations included-	159	9.4	345	8.9	272	26.4	97	5.0	37	6.9	27
Paediatric <15 years	26	1.5	39	1.0	10	1.0	0	0.0	0	0.0	0
Split TX.	2	0.1	0	0.0	5	0.5	0	0.0	0	0.0	0
Domino TX.	0	0.0	0	0.0	15	1.5	0	0.0	0	0.0	0
TX. from living donors	12	0.7	28	0.7	0	0.0	5	0.3	0	0.0	0
TX. from DCD	44	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0
HEART											
Total TX. -all combinations included-	35	2.1	101	2.6	42	4.1	11	0.6	20	3.7	31
Paediatric <15 years	2	0.1	6	0.2	0	0.0	1	0.1	0	0.0	0
HEART-LUNG											
Total TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
LUNG											
Total TX. -all combinations included-	73	4.3	35	0.9	26	2.5	0	0.0	0	0.0	0
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
-Single TX.	9	0.5	15	0.4	7	0.7	0	0.0	0	0.0	0
-Double TX. (heart-lung TX. included)	64	3.8	20	0.5	19	1.8	0	0.0	0	0.0	0
TX. from living donors	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
TX. from DCD (double + single)	31	1.8	0	0.0	0	0.0	0	0.0	0	0.0	0
PANCREAS											
Total TX. -all combinations included-	25	1.5	38	1.0	25	2.4	1	0.1	0	0.0	5
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Pancreas TX. Alone	5	0.3	7	0.2	1	0.1	0	0.0	0	0.0	0
Kidney – Pancreas TX.	19	1.1	31	0.8	24	2.3	1	0.1	0	0.0	5
TX. from DCD	0	0	0	0.0	0	0.0	0	0.0	0	0.0	0
SMALL BOWEL											
Total TX. -all combinations included-	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0
Paediatric <15 years			0	0.0	0	0.0	0	0.0	0	0.0	0
Small bowel TX. Alone			0	0.0	0	0.0	0	0.0	0	0.0	0
RECIPIENTS											
Total number of patients transplanted	1265	74.4	1545	40.0	814	79.0	374	19.3	200	37.0	103
Paediatric <15 years	48	2.8	82	2.1	23	2.2	4	0.2	2	0.4	1
Patients transplanted from living donors	577	33.9	78.00	2.0	65	6.3	46	2.4	19	3.5	8.0

DONATION AND TRANSPLANTATION ACTIVITY

COUNTRIES		OTHER COUNTRIES										DONATION AND TRANSPLANTATION ACTIVITY						
		Population (million inhabitants): UNFFPA		Armenia 3.0	Australia 24.3	Belarus 9.5	Bosnia and Herzegovina 3.8	Canada 36.3	Georgia 4.0	Iceland 0.3	Israel 8.2	Kuwait 4.0	Malaysia 30.8	Kuwait 4.0	Malaysia 30.8	Montenegro 0.6		
		Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	
Actual deceased organ donors	0	0.0	503	20.7	222	23.4	5	1.3	731	20.1	0	0.0	9	30.0	85	10.4	48	1.6
-both DBD and DCD included-	0	0.0	128	5.3	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
Actual donors after circulatory death -DCD-	0	0.0	154	16.2	5	1.3	5	1.3	0	0.0	0	0.0	5	16.7	63	7.7	1	0.0
Multorgan donors	0	0.0																
KIDNEY																		
Total TX. -all combinations included-	7	2.3	1086	44.7	384	40.4	18	4.7	1730	47.7	19	4.8	5	16.7	352	42.9	77	19.3
% (TX. from living d. / Total TX.)	100.0	24.4	19	4.7	44.4	27.2	100.0	100.0	100.0	100.0	19	2.3	63.1	61.0	81.3	48	1.6	
Paediatric <15 years	0	0.0	19	0.8	16	1.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TX. from deceased donors	0	0.0	821	33.8	366	38.5	10	2.6	1259	34.7	0	0.0	0	0.0	130	15.9	30	7.5
-TX. from DCD	0	0.0	195	8.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.5	0	0.0
-Single TX.	0	0.0	801	33.0	366	38.5	0	0.0	0	0.0	0	0.0	0	0.0	124	15.1	30	7.5
-Double TX.	0	0.0	20	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.7	0	0.0
TX. from living donors	7	2.3	265	10.9	18	1.9	8	2.1	471	13.0	19	4.8	5	16.7	222	27.1	47	11.8
-TX. from Related living donors	7	2.3	219	9.0	18	1.9	0	0.0	0	0.0	0	0.0	0	0.0	93	11.3	39	1.3
-TX. from Unrelated living donors	0	0.0	46	1.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	129	15.7	0	0.0
LIVER																		
Total TX. -all combinations included-	0	0.0	314	12.9	70	7.4	3	0.8	580	16.0	13	3.3	0	0.0	84	10.2	0	0.0
Paediatric <15 years	0	0.0	56	2.3	9	0.9	0	0.0	0	0.0	0	0.0	0	0.0	15	1.8	0	0.0
Split TX.	0	0.0	65	2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.6	0	0.0
Domino TX.	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
TX. from living donors	0	0.0	2	0.1	6	0.6	0	0.0	73	2.0	13	3.3	0	0.0	8	1.0	0	0.0
TX. from DCD	0	0.0	15	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
HEART																		
Total TX. -all combinations included-	0	0.0	125	5.1	44	4.6	0	0.0	204	5.6	0	0.0	0	0.0	22	2.7	0	0.0
Paediatric <15 years	0	0.0	16	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.4	0	0.0
HEART-LUNG																		
Total TX.	0	0.0	7	0.3	1	0.1	0	0.0	5	0.1	0	0.0	0	0.0	1	0.1	0	0.0
Paediatric <15 years	0	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
LUNG																		
Total TX. -all combinations included-	0	0.0	199	8.2	2	0.2	0	0.0	302	8.3	0	0.0	0	0.0	50	6.1	0	0.0
Paediatric <15 years	0	0.0	16	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
-Single TX.	0	0.0	6	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	23	2.8	0	0.0
-Double TX. (heart-lung TX. included)	0	0.0	193	7.9	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0	27	3.3	0	0.0
TX. from living donors	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
TX. from DCD (double + single)	0	0.0	44	1.8	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-	0	0.0	51	2.1	2	0.2	0	0.0	95	2.6	0	0.0	0	0.0	12	1.5	1	0.3
Paediatric <15 years	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 TX. Alone	0	0.0	5	0.2	0	0.0	0	0.0	34	0.9	0	0.0	0	0.0	2	0.2	0	0.0
Kidney – Pancreas TX.	0	0.0	46	1.9	2	0.2	0	0.0	61	1.7	0	0.0	0	0.0	10	1.2	1	0.3
TX. from DCD	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-	0	0.0	1	0.0	0	0.0	0	0.0	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Paediatric <15 years	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 TX. Alone	0	0.0	107	4.4	25	2.6	21	5.5	2897	79.8	32	8.0	5	16.7	504	61.5	77	19.3
RECIPIENTS																		
Total number of patients transplanted	7	2.3	1716	70.6	497	52.3	21	5.5	2897	79.8	32	8.0	5	16.7	37	4.5	49	1.6
Paediatric <15 years	0	0.0	107	4.4	25	2.6	8	2.1	544	15.0	32	8.0	5	16.7	230	28.0	47	11.8
Patients transplanted from living donors	7	2.3	268	11.03	24	2.5	8	2.1	0	0.0	0	0.0	0	0.0	0	0.0	39	1.3

DONATION AND TRANSPLANTATION ACTIVITY

COUNTRIES																						
Population (million inhabitants): UNFPA		New Zealand	Norway	Republic of Moldova	Russian Federation	Saudi Arabia	Sudan	Switzerland	Syrian Arab Republic	The former Yugoslav Rep. of Macedonia	Turkey	United States of America										
		4.6	5.3	4.1	143.4	32.2	41.2	8.4	8.6	2.1	79.6	324.1										
Actual deceased organ donors -both DBD and DCD included- Actual donors after circulatory death -DCD- Multorgan donors	61 6 46	13.3 1.3 10.0	111 2 85	20.9 0.4 16.0	13 0 6	3.2 0.0 1.5	487 55 312	3.4 0.4 2.2	92 1 59	2.9 0 1.8	0 0 0	111 15 84	13.2 1.8 10.0	0 0 0	562 0 449	7.1 0.0 5.6	9970 1684 7738	30.8 5.2 23.9				
KIDNEY Total TX. -all combinations included- % (TX. from living d. / Total TX.)	172	37.4	240	45.3	22	5.4	1084	7.6	796	24.7	224	5.4	305	36.3	211	11.3	6	2.9	3423	43.0	19858	61.3
		47.7		19.6	36.4	0.0	81	0.6	852	5.9	123	3.8	15	0.4	139.3	100.0	100.0	0	172	2.2	489	28.3
	6	1.3	19.6	36.4	14	3.4	81	0.6	852	5.9	123	3.8	15	0.4	185	22.0	0	0	784	9.8	14229	43.9
	90	2.2	4	0.8	0	0.0	0	0.0	0	0.0	0	0.1	0	0.0	0	0	0	0	0	0.0	2559	7.9
	10	18.5	193	36.4	13	3.2	121	2.1	121	3.8	0	0.0	179	21.3	0	0	0	0	780	9.8	13951	43.0
	85																					
	5	1.1	0	0.9	1	0.2	232	1.6	673	20.9	224	5.4	6	0.7	120	14.3	211	11.3	6	2.9	2639	33.2
	82	17.8	47	8.9	8	2.0	232	1.6	584	18.1	221	5.4	86	4.6	125	3	86	2.9	2358	29.6	5629	17.4
	76	16.5	47	8.9	7	1.7	0	0.0	0	0.0	0	0.2	0	0.0	0	0.1	0	0	281	3.5	4555	14.1
	6	1.3	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	0	0.0	1074	3.3
LIVER Total TX. -all combinations included- Paediatric <15 years	59	12.8	100	18.9	9	2.2	378	2.6	215	6.7	0	0	108	12.9	1	0.1	0	0	1396	17.5	7841	24.2
	11	2.4	10	1.9	0	0.0	96	0.7	0	0.0	0	0.0	5	0.6	0	0	0	0	215	2.7	515	1.6
	3	0.7	11	2.1	0	0.0	0	0.0	0	0.0	0	0.0	16	1.9	0	0	0	0	6	0.1	186	0.6
	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0	0	0	0	0.0	9	0.0
	3	0.7	0	0.0	1	0.2	149	1.0	145	4.5	0	0.0	11	1.3	0	0.1	0	0	1004	12.6	345	1.1
	2	0.4	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	0	0.0	447	1.4
HEART Total TX. -all combinations included- Paediatric <15 years	11	2.4	21	4.0	0	0.0	220	1.5	29	0.9	0	0.0	41	4.9	0	0.0	0	0.0	69	0.9	3209	9.9
	0	0.0	1	0.2	0	0.0	2	0.0	3	0.1	0	0.0	4	0.5	0	0.0	0	0.0	10	0.1	376	1.2
HEART-LUNG Total TX. Paediatric <15 years	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	18	0.1
LUNG Total TX. -all combinations included- Paediatric <15 years	17	3.7	34	6.4	0	0.0	16	0.1	16	0.5	0	0.0	48	5.7	0	0.0	0	0.0	22	0.3	2345	7.2
	0	0.0	0	0.0	0	0.0	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	24	0.1
	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	588	1.8
	17	3.7	34	6.4	0	0.0	15	0.5	0	0.0	47	5.6	0	0.0	0	0.0	0	0.0	0	0.0	1757	5.4
	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.5	0	0.0	0	0.0	0	0.0	0	0.3
PANCREAS Total TX. -all combinations included- Paediatric <15 years	4	0.9	20	3.8	0	0.0	6	0.0	11	0.3	0	0.0	11	1.3	0	0.0	0	0.0	6	0.1	1013	3.1
	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	5	0.1	147	0.5
	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	55	0.2
	4	0.9	16	3.0	0	0.0	4	0.1	0	0.0	9	1.1	0	0.0	1	0.0	0	0.0	1	0.0	798	2.5
	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	21	0.1
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	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1	147	0.5
	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	5	0.1	67	0.2
RECIPIENTS Total number of patients transplanted Paediatric <15 years Patients transplanted from living donors	255 17 85	55.4 3.7 18.5	397 19 47	74.9 3.6 8.9	31 0 9	7.6 0.0 2.2	1704 181 381	11.9 1.3 2.7	1061 15.2 131	33.0 0.4 224	224 14 5.4	5.4 1.7 2.1	504 14 15.6	60.0 0.0 0.0	212 1.3 212	11.4 0.7 11.4	6 0.7 6	2.9 0.0 2.9	4895 388 3630	61.5 4.9 45.6	32356 1393 5969	99.8 4.3 18.4

DONATION AND TRANSPLANTATION ACTIVITY

COUNTRIES (million inhabitants): UNFPA		ARGENTINA 43.8				BRAZIL 209.6				LATINAMERICAN COUNTRIES				COSTA RICA 4.9				CUBA 11.4				DOMINICAN REPUBLIC 10.6			
		Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP				
Actual deceased organ donors		515	11.8	2983	14.2	134	7.4	343	7.0	23	4.7	149	13.1	15	1.4										
-both DBD and DCD included-		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				
Actual donors after circulatory death -DCD-		327	7.5	2086	10.0	76	4.2	272	5.6	10	2.0	19	1.7	3	0.3										
KIDNEY																									
Total TX. -all combinations included-		1150	35.1	26.3	5600	26.7	304	16.8	762	15.6	110	22.4	185	13.5	16.2	56	51.8								
% (TX. from living d. / Total TX.)																									
Paediatric <15 years		63	1.4	310	1.5	19	1.0	27	0.6	7	1.4	3	0.3	0	0.0										
TX. from deceased donors		746	17.0	4400	21.0	222	12.3	637	13.1	42	8.6	160	14.0	27	2.5										
-TX. from DCD		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0										
-Single TX.		743	16.9	4362	20.8	221	12.2	636	13.1	42	8.6	160	14.0	27	2.5										
-Double TX.		3	0.1	38	0.2	1	0.1	1	0.0	0	0.0	0	0.0	0	0.0										
-Double TX.		404	9.2	1200	5.7	82	4.5	125	2.6	68	13.9	25	2.2	29	2.7										
TX. from living donors		392	8.9	1120	5.3	82	4.5	116	2.4	54	11.0	23	2.0	20	1.9										
-TX. from Related living donors		12	0.3	80	0.4	0	0.0	9	0.2	14	2.9	2	0.2	9	0.8										
-TX. from Unrelated living donors																									
LIVER																									
Total TX. -all combinations included-		368	8.4	1880	9.0	93	5.1	240	4.9	13	2.7	20	1.8	3	0.3										
Paediatric <15 years		71	1.6	180	0.9	22	1.2	37	0.8	4	0.8	7	0.6	0	0.0										
Split TX.		41	0.9					6	0.1	0	0.0	0	0.0	0	0.0										
Domino TX.		0	0.0	157	0.7	0	0.0	0	0.0	0	0.0	3	0.6	2	0.2										
TX. from living donors		38	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0										
TX. from DCD		0	0.0																						
HEART																									
Total TX. -all combinations included-		115	2.6	357	1.7	23	1.3	58	1.2	5	1.0	2	0.2	0	0.0										
Paediatric <15 years		10	0.2	32	0.2	1	0.1	2	0.0	0	0.0	0	0.0	0	0.0										
HEART-LUNG																									
Total TX.		1	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0										
Paediatric <15 years		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-		34	0.8	92	0.4	19	1.0	16	0.3	2	0.4	0	0.0	0	0.0										
Paediatric <15 years		1	0.0	5	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0										
-Single TX.		16	0.4	31	0.1	15	0.8	3	0.1	0	0.0	0	0.0	0	0.0										
-Double TX. (heart-lung TX. included)		18	0.4	61	0.3	4	0.2	13	0.3	0	0.0	0	0.0	0	0.0										
TX. from living donors		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0										
TX. from DCD (double + single)		0	0.0																						
PANCREAS																									
Total TX. -all combinations included-		48	1.1	134	0.6	4	0.2	5	0.1	0	0.0	0	0.0	0	0.0										
Paediatric <15 years		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0										
Pancreas TX. Alone		2	0.1	26	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0										
Kidney – Pancreas TX.		46	1.1	108	0.5	4	0.2	5	0.1	0	0.0	0	0.0	0	0.0										
TX. from DCD		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-		4	0.1	1	0.0	0	0.0	3	0.1	0	0.0	0	0.0	0	0.0										
Paediatric <15 years		3	0.1	0	0.0	0	0.0	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	0	0.0	0	0.0	0	0.0	0	0.0										
RECIPIENTS																									
Total number of patients transplanted		1719	39.2	7924	37.8	432	23.9	1068	21.9	130	26.5	207	18.2	59	5.6										
Paediatric <15 years		148	3.4	527	2.5	41	2.3	66	1.4	11	2.2	10	0.9	0	0.0										
Patients transplanted from living donors		442	10.1	1357	6.5	96	5.3	166	3.4	71	14.5	27	2.4	29	2.7										

DONATION AND TRANSPLANTATION ACTIVITY

COUNTRIES Population (million inhabitants): UNFFA	LATINAMERICAN COUNTRIES										Uruguay 3.4				
	Ecuador 16.4			Guatemala 16.7			Honduras 8.2			Mexico 128.6					
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	
Actual deceased organ donors	83	5.1	8	0.5	0	0.0	470	3.7	29	7.3	11	1.6	57	16.8	
-both DBD and DCD included-	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Actual donors after circulatory death -DCD-	31	1.9	0	0.0	0	0.0	452	3.5	10	2.5	6	0.9	22	6.5	
KIDNEY															
Total TX. -all combinations included-	139	8.5	122	7.3	9	1.1	2971	23.1	53	13.3	47	7.0	118	34.7	
% (TX. from living d. / Total TX.)	4	4.3	14	0.8	5	100.0	150	1.2	0	0.0	3	0.4	0	0.0	
Paediatric <15 years	133	8.1	15	0.9	0	0.0	851	6.6	47	11.8	22	3.3	104	30.6	
TX. from deceased donors	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
-TX. from DCD															
-Single TX.															
-Double TX.															
TX. from living donors	6	0.4	107	6.4	9	1.1	2120	16.5	6	1.5	25	3.7	14	4.1	
-TX. from Related living donors	6	0.4	94	5.6	9	1.1	1795	14.0	6	1.5	25	3.7	14	4.1	
-TX. from Unrelated living donors	0	0.0	13	0.8	0	0.0	325	2.5	0	0.0	0	0.0	0	0.0	
LIVER															
Total TX. -all combinations included-	31	1.9	0	0.0	0	0.0	178	1.4	11	2.8	6	0.9	25	7.4	
Paediatric <15 years	0	0.0	0	0.0	0	0.0	20	0.2	0	0.0	0	0.0	6	1.8	
Split TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Domino TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
TX. from living donors	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	0	0.0	2	0.6	
TX. from DCD	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
HEART															
Total TX. -all combinations included-	0	0.0	0	0.0	0	0.0	34	0.3	1	0.3	2	0.3	6	1.8	
Paediatric <15 years	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	1	0.3	
HEART-LUNG															
Total TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Paediatric <15 years	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-	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	3	0.9	
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
-Single TX.	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	
-Double TX. (heart-lung TX. included)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
TX. from living donors	0	0.0	0	0.0	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	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
PANCREAS															
Total TX. -all combinations included-	0	0.0	0	0.0	0	0.0	3	0.0	0	0.0	0	0.0	2	0.6	
Paediatric <15 years	0	0.0	0	0.0	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	3	0.0	0	0.0	0	0.0	0	0.0	
Kidney – Pancreas TX.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6	
TX. from DCD	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-	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Paediatric <15 years	0	0.0	0	0.0	0	0.0	0	0.0	0	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	0	0.0	0	0.0	
RECIPIENTS															
Total number of patients transplanted	170	10.4	122	7.3	9	1.1	3186	24.8	65	16.3	55	8.2	154	45.3	
Paediatric <15 years	4	0.2	14	0.8	6	0.4	171	1.3	6	0.0	3	0.4	7	2.1	
Patients transplanted from living donors	6	0.4	107	6.4	9	1.1	2123	16.5	6	1.5	25	3.7	16	4.7	

EUROPEAN UNION COUNTRIES										WAITING LIST		
COUNTRIES	Austria 8.6	Belgium 11.4	Bulgaria 7.1	Croatia 4.2	Cyprus 1.2	Czech Republic 10.5	Denmark 5.7	Estonia 1.3	Finland 5.5	France 64.7		
KIDNEY												
Nº TX CENTRES	4	7	4	4	1	7	3	1	1	44		
Patients included on the WL for the first time in the course of 2016	465	498	190	260	12	492	348	60	319	5181		
Total number of patients ever active on the WL during 2016	1090	579	1151	371	68	504	710	112	639	17998		
Patients awaiting for a transplant (only active candidates) on 31/12/2016	587	797	1019	171	52		402	50	310	7669		
Patients who died while on the WL during 2016	25	34	91	4	5	40	21	5	4	297		
Patients on dialyses on 31/12/2016	4451	973	2550	600				347				
LIVER												
Nº TX CENTRES	3	6	3	2	0	2	1	1	1	21		
Patients included on the WL for the first time in the course of 2016	171	345	31	162	0	208	65	12	67	1824		
Total number of patients ever active on the WL during 2016	235	376	75	224	0	61	88	15	71	3089		
Patients awaiting for a transplant (only active candidates) on 31/12/2016	50	174	55	61	0	79	22	2	6	702		
Patients who died while on the WL during 2016	14	45	8	24	0	9	1	2	2	162		
HEART												
Nº TX CENTRES	3	7	2	2	0	2	2	0	1	24		
Patients included on the WL for the first time in the course of 2016	79	105	19	59	0	122	31	0	38	573		
Total number of patients ever active on the WL during 2016	131	223	45	83	0	77	47	0	74	951		
Patients awaiting for a transplant (only active candidates) on 31/12/2016	55	117	21	34	0	68	16	0	32	237		
Patients who died while on the WL during 2016	8	20	14	9	0	12	2	0	3	79		
LUNG												
Nº TX CENTRES	2	5	0	0	0	1	1	1	1	12		
Patients included on the WL for the first time in the course of 2016	161	162	6	0	0	62	41	7	41	359		
Total number of patients ever active on the WL during 2016	235	171	14	0	0	49	63	14	51	519		
Patients awaiting for a transplant (only active candidates) on 31/12/2016	90	122	6	0	0	50	28	7	30	94		
Patients who died while on the WL during 2016	15	7	5	0	0	21	5	3	0	11		
PANCREAS												
Nº TX CENTRES	3	6	1	1	1	1	1	1	1	10		
Patients included on the WL for the first time in the course of 2016	20	29	2	13	0	50	4	4	22	116		
Total number of patients ever active on the WL during 2016	34	97	10	23	3	14	18	7	33	337		
Patients awaiting for a transplant (only active candidates) on 31/12/2016	9	65	10	14	2	23	9	5	4	121		
Patients who died while on the WL during 2016	1	2	0	1	1	0	1	0	0	1		
SMALL BOWEL												
Nº TX CENTRES	1	6	1	0	1	0	0	0	1	2		
Patients included on the WL for the first time in the course of 2016	0	0	0	0	0	2	0	0	2	2		
Total number of patients ever active on the WL during 2016	1	0	1	0	0	1	0	0	0	2		
Patients awaiting for a transplant (only active candidates) on 31/12/2016	0	0	0	0	0	0	0	0	0	6		
Patients who died while on the WL during 2016	0	0	0	0	0	0	0	0	0	0		

WAITING LIST

EUROPEAN UNION COUNTRIES										
COUNTRIES	Population (million inhabitants): UNFPA	Germany 80.7	Greece 10.9	Hungary 9.8	Ireland 4.7	Italy 59.8	Latvia 2.0	Lithuania 2.9	Luxembourg 0.6	Malta 0.4
KIDNEY										
Nº TX CENTRES		38	5	4	1	42	1	2	0	
Patients included on the WL for the first time in the course of 2016		2901	196	444	221	2138	44	125	0	
Total number of patients ever active on the WL during 2016		11129	1344	1182	705	9093	94	237	0	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		7876	1193	748	481	6830	19	104	0	
Patients who died while on the WL during 2016		438	21	33	12	163	0	11	0	
Patients on dialyses on 31/12/2016			10548	6281	2075	1000	1400	0	285	
LIVER										
Nº TX CENTRES		22	1	1	1	21	0	2	0	
Patients included on the WL for the first time in the course of 2016		1284	64	124	80	1464	0	49	0	
Total number of patients ever active on the WL during 2016		2730	196	229	109	2479	0	77	0	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		1157	146	118	33	1022	0	34	0	
Patients who died while on the WL during 2016		369	28	18	8	102	0	7	0	
HEART										
Nº TX CENTRES		24	1	2	1	17	1	2	0	
Patients included on the WL for the first time in the course of 2016		450	12	78	18	412	7	18	0	
Total number of patients ever active on the WL during 2016		1248	48	121	37	1106	13	52	0	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		725	36	48	16	742	7	30	0	
Patients who died while on the WL during 2016		114	6	10	3	70	2	6	0	
LUNG										
Nº TX CENTRES		16		1	1	11	0	1	0	
Patients included on the WL for the first time in the course of 2016		415		26	64	196	0	6	0	
Total number of patients ever active on the WL during 2016		841		36	96	570	0	20	0	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		390		7	42	347	0	10	0	
Patients who died while on the WL during 2016		61		6	11	56	0	7	0	
PANCREAS										
Nº TX CENTRES		27		2	1	17	0	1	0	
Patients included on the WL for the first time in the course of 2016		196		22	87	0	3	0	0	
Total number of patients ever active on the WL during 2016		456		36	330	0	7	0	0	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		275		23	251	0	3	0	0	
Patients who died while on the WL during 2016		22		1	6	0	1	0	0	
SMALL BOWEL										
Nº TX CENTRES		9		0	0	3	0	0	0	
Patients included on the WL for the first time in the course of 2016		0		0	2	0	0	0	0	
Total number of patients ever active on the WL during 2016		0		0	22	0	0	0	0	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		9		0	12	0	0	0	0	
Patients who died while on the WL during 2016				0	0	0	0	0	0	

WAITING LIST

		EUROPEAN UNION COUNTRIES								
COUNTRIES	Population (million inhabitants): UNFFPA	Netherlands	Poland 38.6	Portugal 10.3	Romania 19.4	Slovakia 5.4	Slovenia 2.1	Spain 46.1	Sweden 9.9	United Kingdom 65.1
KIDNEY										
Nº TX CENTRES		21	8	5	4	1	40	4	24	
Patients included on the WL for the first time in the course of 2016	1415	1268	342	693	152	41		399	2395	
Total number of patients ever active on the WL during 2016	1991	2720	2395	4826	465	91		837	8937	
Patients awaiting for a transplant (only active candidates) on 31/12/2016	629	1069	2011	4276	278	44		446	5215	
Patients who died while on the WL during 2016	66	78	30	11	27	1		11	301	
Patients on dialyses on 31/12/2016		21000	12458	9800	3300	1450		27727	3032	
LIVER										
Nº TX CENTRES		8	3	3	2	1		25	2	
Patients included on the WL for the first time in the course of 2016	219	398	249	174	37	31		1324	335	
Total number of patients ever active on the WL during 2016	329	569	404	550	102	49		2115	1734	
Patients awaiting for a transplant (only active candidates) on 31/12/2016	125	173	110	372	27	17		645	549	
Patients who died while on the WL during 2016	28	41	25	27	17	3		78	3	
HEART										
Nº TX CENTRES		6	4	3	1	1		16	2	
Patients included on the WL for the first time in the course of 2016	59	235	61	44	28	53		372	69	
Total number of patients ever active on the WL during 2016	161	599	73	154	63	95		527	102	
Patients awaiting for a transplant (only active candidates) on 31/12/2016	101	388	17	18	26	50		152	30	
Patients who died while on the WL during 2016	3	78	10	5	8	6		23	1	
LUNG										
Nº TX CENTRES		5	1	1	0	0		8	2	
Patients included on the WL for the first time in the course of 2016	121	69	4	0	0	0		352	71	
Total number of patients ever active on the WL during 2016	298	112	4	0	0	0		668	106	
Patients awaiting for a transplant (only active candidates) on 31/12/2016	195	57	59	3	0	0		289	31	
Patients who died while on the WL during 2016	18	18	1	0	0	0		19	6	
PANCREAS										
Nº TX CENTRES		5	2	2	1	1		13	3	
Patients included on the WL for the first time in the course of 2016	51	50	46	20	0	1		82	24	
Total number of patients ever active on the WL during 2016	103	113	83	132	0	10		160	46	
Patients awaiting for a transplant (only active candidates) on 31/12/2016	58	48	34	89	0	5		76	13	
Patients who died while on the WL during 2016	3	7	1	6	0	0		4	0	
SMALL BOWEL										
Nº TX CENTRES		1	0	0	0	0		3	1	
Patients included on the WL for the first time in the course of 2016	0	0	0	0	0	0		8	2	
Total number of patients ever active on the WL during 2016	2	0	0	0	0	0		18	4	
Patients awaiting for a transplant (only active candidates) on 31/12/2016	0	0	0	0	0	0		11	1	
Patients who died while on the WL during 2016		0	0	0	0	0		3	0	

WAITING LIST

OTHER COUNTRIES

COUNTRIES	Armenia	Australia	Belarus	Bosnia and Herzegovina	Canada	Georgia	Iceland	Israel	Kuwait	Malaysia	Montenegro
Population (million inhabitants): UNFPA	3.0	24.3	9.5	3.8	36.3	4.0	0.3	8.2	4.0	30.8	0.6
KIDNEY											
Nº TX CENTRES	1	20	6	2	25	3	1	6	1	3	1
Patients included on the WL for the first time in the course of 2016		760	315			0	0	363	106	1414	3
Total number of patients ever active on the WL during 2016		1901	779		0	0			205	7031	38
Patients awaiting for a transplant (only active candidates) on 31/12/2016		1061	380	219	2260	0	0	847	111	5941	
Patients who died while on the WL during 2016		8	15		100	0	0	37	4	457	2
Patients on dialyses on 31/12/2016		800	12461	1999	0	0	0	6542	1800	39683	197
LIVER											
Nº TX CENTRES	0	8	1	1	9	2	0	3	0	1	0
Patients included on the WL for the first time in the course of 2016		336	84		0	0	0	174		5	3
Total number of patients ever active on the WL during 2016		523	175	24		0	0			12	7
Patients awaiting for a transplant (only active candidates) on 31/12/2016		136	95		354	0	0	104		7	5
Patients who died while on the WL during 2016		8	4		90	0	0	50		0	1
HEART											
Nº TX CENTRES	0	5	3	0	11	0	0	2	0	1	0
Patients included on the WL for the first time in the course of 2016		133	80	7		0	0	51		1	1
Total number of patients ever active on the WL during 2016		186	144		0	0	0			7	3
Patients awaiting for a transplant (only active candidates) on 31/12/2016		44	67		139	0	0	69		5	2
Patients who died while on the WL during 2016		4	13		26	0	0	10		0	1
LUNG											
Nº TX CENTRES	0	5	2	0	6	0	0	2	0	1	0
Patients included on the WL for the first time in the course of 2016		234	22		0	0	0	95		7	1
Total number of patients ever active on the WL during 2016		319	29		0	0	0			14	1
Patients awaiting for a transplant (only active candidates) on 31/12/2016		77	25		215	0	0	89		10	0
Patients who died while on the WL during 2016		11	1		45	0	0	25		3	1
PANCREAS											
Nº TX CENTRES	0	2	1	0	8	0	0	2	1	0	0
Patients included on the WL for the first time in the course of 2016		69	15		0	0	0	2		0	0
Total number of patients ever active on the WL during 2016		157	60		0	0	0			0	0
Patients awaiting for a transplant (only active candidates) on 31/12/2016		81	56		25	0	0	7		0	0
Patients who died while on the WL during 2016		4	2		0	0	0	0		0	0
SMALL BOWEL											
Nº TX CENTRES	0	1	1	0	3	0	0	1	0	0	0
Patients included on the WL for the first time in the course of 2016		5	0		0	0	0			0	0
Total number of patients ever active on the WL during 2016		5	1		0	0	0			0	0
Patients awaiting for a transplant (only active candidates) on 31/12/2016		4	0		0	0	0	7		0	0
Patients who died while on the WL during 2016		0	1		0	0	0	0		0	0

WAITING LIST										
COUNTRIES		OTHER COUNTRIES								
Population (million inhabitants): UNFFPA	New Zealand	Norway	Republic of Moldova	Russian Federation	Saudi Arabia	Sudan	Switzerland	Syrian Arab Republic	The former Yugoslav Republic of Macedonia	Turkey
KIDNEY										
Nº TX CENTRES	4.6	5.3	4.1	143.4	32.2	41.2	8.4	18.6	2.1	79.6
Patients included on the WL for the first time in the course of 2016	3	1	1	35	13	7	6	8	2	70
Total number of patients ever active on the WL during 2016	70	307	28	1372	721	65	418			240
Patients awaiting for a transplant (only active candidates) on 31/12/2016	94	611	69	4818	4851	345				6232
Patients who died while on the WL during 2016	350	350	37	3606	2708	44	531			35976
Patients on dialyses on 31/12/2016	14	14	4	77	324	14	26			102454
	502	502	35000	16315	7010	450				28430
										21914
										61446
										1804
										5147
										723413
LIVER										
Nº TX CENTRES	1	1	1	22	4	3	1	0	38	143
Patients included on the WL for the first time in the course of 2016	70	111	47	573	180	207			2098	12305
Total number of patients ever active on the WL during 2016	94	131	108	1409	625				4447	24604
Patients awaiting for a transplant (only active candidates) on 31/12/2016	24	17	74	899	200	114			2317	11631
Patients who died while on the WL during 2016	4	7	25	85	210	29			706	1883
HEART										
Nº TX CENTRES	1	1	0	11	2	3		0	13	136
Patients included on the WL for the first time in the course of 2016	18	26	3	342	32	73			387	4360
Total number of patients ever active on the WL during 2016	31	43	3	497	75				1042	7731
Patients awaiting for a transplant (only active candidates) on 31/12/2016	14	14	3	240	23	56			750	3124
Patients who died while on the WL during 2016	2	2	0	37	25	13			215	477
LUNG										
Nº TX CENTRES	1	1	0	2	1	2		0	6	70
Patients included on the WL for the first time in the course of 2016	24	38	21	30	45				37	2762
Total number of patients ever active on the WL during 2016	29	94	66	55					97	4046
Patients awaiting for a transplant (only active candidates) on 31/12/2016	8	44	45	22	19				46	1144
Patients who died while on the WL during 2016	2	10	5	17	9				24	273
PANCREAS										
Nº TX CENTRES	1	1	0	4	2	2		0	10	137
Patients included on the WL for the first time in the course of 2016	4	23	72	15	24				33	1514
Total number of patients ever active on the WL during 2016	11	51	145	31					302	2956
Patients awaiting for a transplant (only active candidates) on 31/12/2016	4	28	137	15	16				278	1140
Patients who died while on the WL during 2016	0	0	2	5	1				14	139
SMALL BOWEL										
Nº TX CENTRES	0	0	0	0	1	2		0	1	40
Patients included on the WL for the first time in the course of 2016	0	0	0						4	199
Total number of patients ever active on the WL during 2016	0	0	0						0	396
Patients awaiting for a transplant (only active candidates) on 31/12/2016	0	0	0						1	203
Patients who died while on the WL during 2016	0	0	0						4	18

WAITING LIST

		LATINAMERICAN COUNTRIES							
COUNTRIES		Argentina 43.8	Brazil 209.6	Chile 18.1	Colombia 48.7	Costa Rica 4.9	Cuba 11.4	Dominican Republic 10.6	
KIDNEY									
Nº TX CENTRES		53	130	22	23	4	9	8	
Patients included on the WL for the first time in the course of 2016		2005	11408	618			500	85	
Total number of patients ever active on the WL during 2016		8250	29772	1912			800	123	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		6245	19927	1271			385	94	
Patients who died while on the WL during 2016		482	1265	26				2	
Patients on dialyses on 31/12/2016		29246	93606	21134			3205	2300	
LIVER									
Nº TX CENTRES		23	58	9	9	3	3	1	
Patients included on the WL for the first time in the course of 2016		740	3365	147			20	12	
Total number of patients ever active on the WL during 2016		2008	4673	256			32	20	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		1268	1230	96			25	9	
Patients who died while on the WL during 2016		204	772	31			33	2	
HEART									
Nº TX CENTRES		20	41	7	8	1	1	2	
Patients included on the WL for the first time in the course of 2016		36	572	31			5	0	
Total number of patients ever active on the WL during 2016		184	823	51			5	0	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		148	271	21			4	0	
Patients who died while on the WL during 2016		40	120	3			3	0	
LUNG									
Nº TX CENTRES		7	6	5	4	1	0	0	
Patients included on the WL for the first time in the course of 2016		50	139	29			3	0	
Total number of patients ever active on the WL during 2016		241	345	78			0	0	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		191	175	40			2	0	
Patients who died while on the WL during 2016		46	45	7			1	0	
PANCREAS									
Nº TX CENTRES		17	15	3	5	1	0	0	
Patients included on the WL for the first time in the course of 2016		1	342	14			0	0	
Total number of patients ever active on the WL during 2016		14	843	27			0	0	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		15	496	23			2	0	
Patients who died while on the WL during 2016		1	56	0			0	0	
SMALL BOWEL									
Nº TX CENTRES		2	2	2	4	1	0	0	
Patients included on the WL for the first time in the course of 2016		3	3	1			0	0	
Total number of patients ever active on the WL during 2016		10	9	2			0	0	
Patients awaiting for a transplant (only active candidates) on 31/12/2016		4	1	1			1	0	
Patients who died while on the WL during 2016		0	0	1			0	0	

WAITING LIST						
COUNTRIES		LATINAMERICAN COUNTRIES				
Population (million inhabitants): UNFPA		Ecuador	Guatemala	Honduras	Mexico	Panama
KIDNEY						
Nº TX CENTRES						
Patients included on the WL for the first time in the course of 2016	6		3	248	1	4
Patients included on the WL for the first time in the course of 2016	119			4681	74	38
Total number of patients ever active on the WL during 2016	567			17002	238	64
Patients awaiting for a transplant (only active candidates) on 31/12/2016	153			12743	157	42
Patients who died while on the WL during 2016	8			297	25	0
Patients on dialyses on 31/12/2016	567			2300	2115	1100
LIVER						
Nº TX CENTRES						
Patients included on the WL for the first time in the course of 2016	6		0	74	1	1
Patients included on the WL for the first time in the course of 2016	8			288		10
Total number of patients ever active on the WL during 2016	34			681	10	54
Patients awaiting for a transplant (only active candidates) on 31/12/2016	3			410	2	2
Patients who died while on the WL during 2016	0			29	2	5
HEART						
Nº TX CENTRES						
Patients included on the WL for the first time in the course of 2016	0		0	50	1	3
Patients included on the WL for the first time in the course of 2016				60	4	4
Total number of patients ever active on the WL during 2016				104	10	19
Patients awaiting for a transplant (only active candidates) on 31/12/2016				53	7	39
Patients who died while on the WL during 2016				6	1	28
LUNG						
Nº TX CENTRES						
Patients included on the WL for the first time in the course of 2016	0		0	10	0	0
Patients included on the WL for the first time in the course of 2016				1	0	1
Total number of patients ever active on the WL during 2016				2	1	8
Patients awaiting for a transplant (only active candidates) on 31/12/2016				1	1	0
Patients who died while on the WL during 2016				0	0	0
PANCREAS						
Nº TX CENTRES						
Patients included on the WL for the first time in the course of 2016	0		0	22	0	0
Patients included on the WL for the first time in the course of 2016				4	0	0
Total number of patients ever active on the WL during 2016				23	1	0
Patients awaiting for a transplant (only active candidates) on 31/12/2016				19	1	0
Patients who died while on the WL during 2016				0	0	0
SMALL BOWEL						
Nº TX CENTRES						
Patients included on the WL for the first time in the course of 2016	0		0	3	0	0
Patients included on the WL for the first time in the course of 2016				4	0	0
Total number of patients ever active on the WL during 2016				23	0	0
Patients awaiting for a transplant (only active candidates) on 31/12/2016				19	0	0
Patients who died while on the WL during 2016				0	0	0

FAMILY REFUSALS									
EUROPEAN UNION COUNTRIES									
COUNTRIES	Austria 8.6	Belgium 11.4	Bulgaria 7.1	Croatia 4.2	Cyprus 1.2	Czech Rep. 10.5	Denmark 5.7	Estonia 1.3	Finland 5.5
Population (million inhabitants): UNFPA									France 64.7
Number of interviews, asking for consent to donation	294	402	26	186	10				
Number of family refusals (%)	80 (27.2)	51 (12.7)	9 (34.6)	20 (10.8)	4 (40.0)				
Number of interviews, asking for consent to donation	294	402	26	186	10				
Number of family refusals (%)	80 (27.2)	51 (12.7)	9 (34.6)	20 (10.8)	4 (40.0)				
COUNTRIES	Germany 80.7	Greece 10.9	Hungary 9.8	Ireland 4.7	Italy 59.8	Latvia 2.0	Lithuania 2.9	Luxembourg 0.6	Malta 0.4
Population (million inhabitants): UNFPA									
Number of interviews, asking for consent to donation	242	72	2488	25	103				
Number of family refusals (%)	16 (6.6)	36 (50.0)	807 (32.4)	9 (36.0)	26 (25.2)				
COUNTRIES	Netherlands 17.0	Poland 38.6	Portugal 10.3	Romania 19.4	Slovakia 5.4	Slovenia 2.1	Spain 46.1	Sweden 9.9	United Kingdom 65.1
Population (million inhabitants): UNFPA									
Number of interviews, asking for consent to donation	677	352	112	55	2391				
Number of family refusals (%)	71 (10.5)	9	57 (16.2)	11 (9.8)	13 (23.6)				
Number of interviews, asking for consent to donation	677	352	112	55	2391				
Number of family refusals (%)	71 (10.5)	9	57 (16.2)	11 (9.8)	13 (23.6)				
OTHER COUNTRIES									
COUNTRIES	Armenia	Australia	Belarus	Bosnia and Herzegovina	Canada	Georgia	Iceland	Israel	Malaysia
Population (million inhabitants): UNFPA									
Number of interviews, asking for consent to donation	3.0	24.3	9.5	3.8	36.3	4.0	0.3	8.2	4.0
Number of family refusals (%)	0	1074	17						
Number of interviews, asking for consent to donation	0	428 (39.9)	12 (70.6)						
COUNTRIES	New Zealand	Norway	Republic of Moldova	Russian Federation	Saudi Arabia	Sudan	Switzerland	Syrian Arab Republic	The former Yugoslav Republic of Macedonia
Population (million inhabitants): UNFPA									
Number of interviews, asking for consent to donation	4.6	5.3	4.1	143.4	32.2	41.2	8.4	18.6	2.1
Number of family refusals (%)	168	46	13 (28.3)		333			0	0
Number of interviews, asking for consent to donation	168	46	13 (28.3)		333			0	0
Number of family refusals (%)					230 (69.1)				
LATINAMERICAN COUNTRIES									
COUNTRIES	Argentina 43.8	Brazil 209.6	Chile 18.1	Colombia 48.7	Costa Rica 4.9	Cuba 11.4	Turkey	United States of America	Dominican Republic 10.6
Population (million inhabitants): UNFPA									
Number of interviews, asking for consent to donation	1177	5921	272	714	42	161	72		
Number of family refusals (%)	434 (36.9)	2561 (43.3)	139 (51.1)	286 (40.1)	6 (14.3)	12 (7.5)			
Number of interviews, asking for consent to donation	1177	5921	272	714	42	161	72		
Number of family refusals (%)	434 (36.9)	2561 (43.3)	139 (51.1)	286 (40.1)	6 (14.3)	12 (7.5)			
COUNTRIES	Ecuador 16.4	Guatemala 16.7	Honduras 8.2	Mexico 128.6	Panama 4.0	Paraguay 6.7	Uruguay 3.4		
Population (million inhabitants): UNFPA									
Number of interviews, asking for consent to donation	1177	5921	272	714	42	161	72		
Number of family refusals (%)	434 (36.9)	2561 (43.3)	139 (51.1)	286 (40.1)	6 (14.3)	12 (7.5)			
Number of interviews, asking for consent to donation	1177	5921	272	714	42	161	72		
Number of family refusals (%)	434 (36.9)	2561 (43.3)	139 (51.1)	286 (40.1)	6 (14.3)	12 (7.5)			

International Data On Tissues And Hematopoietic Stem Cell Donation And Transplantation Activity. Year 2016



Data provided by National Competent Authorities:

EUROPE	Luxembourg Martine Debacker	LATIN AMERICA
Austria		Argentina M ^a del Carmen Bacqué
Belgium	Latvia Ieva Bekere	Brasil Heder Murari Borba
Bulgaria Yordan Peev	The Republic of Moldova Igor Codreanu Tatiana Timbalari	Chile Jose Luis Rojas
Cyprus Carolina Stylianou	Macedonia	Colombia
Czech Republic Eva Křemenová	Malta Patricia Galea	Costa Rica Martha Romero P. Roselyn Serrano V. Juan Carlos Valverde M.
Germany Ralf Tönjes	Netherlands Frank Van Linden	Cuba Alexander Mármol
Denmark	Norway Zaheer Rana	Dominican Republic Fernando R. Morales Alexander Altman
Estonia Siim Suutre	Poland Izabela Uhrynowska-Tyszkiewicz Artur Kaminski	Ecuador José Javier Bermúdez
Spain Bibiana Ramos Esteban Molano	Portugal Paulo Severino	Guatemala
Finland Anne Tammiruusu	Romania Andrei Nica	Honduras
France Samuel Arrabal	Sweden Mona Hansson	Mexico J. Salvador Aburto José Madrigal
Greece	Slovenia Gorazd Čebulc	Panama Cesar J. Cuero Camilo Chong
Croatia Milena Ivanković	Slovakia Magdaléna Krátka Daniel Kuba	Paraguay Hugo A. Espinoza C.
Hungary János Sajtos	Turkey	Uruguay Milka Bengochea
Ireland	United Kingdom	
Italy Fiorenza Bariani Letizia Lombardini		
Lithuania Justina Davainytė		

PRELIMINARY DATA ON TISSUES - YEAR 2016

EUROPEAN UNION COUNTRIES												
Country	Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Estonia	Finland	France	Germany	Greece	
Population (Source: eurostat)	8.690.076	11.311.117	7.153.784	4.190.669	848.319	10.553.843	5.659.715	1.315.944	5.487.308	66.759.950	82.175.684	
TYPE OF TISSUE	TYPE OF DATA	NO DATA	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 N° of tissue retrieved N° tissue processed (units) N° tissue distributed (units) N° tissue imported (units) N° tissue exported (units) N° of tissues transplanted N° of patients transplanted N° of transplants	57 80 113 113 109 2 0 109 109 109	293 69.9 57.9 58.0 340 0 40 320 310 320	0 0 0 0 0 0 0 42 42	85.1 80.6 1.804 670 735 0 157 42 42	19.4 34.3 38 41 40 0 2 36 45 48	188 83.9 390 11.136 259 4.979 0 2 NA NA NA	5.601 83.9 NA 11.136 259 4.979 0 2 NA NA NA	0.0 0.0 5.11 5.179 4.21 0 2 NA NA NA	NA NA NA NA NA NA NA NA NA	8.089 133.3 16.178 NA NA NA NA NA NA	80.89 133.3 16.178 NA NA NA NA NA NA
BLOOD VESSELS	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° tissue processed (units) N° tissue distributed (units) N° tissue imported (units) N° tissue exported (units) N° of tissues transplanted N° of patients transplanted N° of transplants	0 0.0 0 0 0 0 0 0 0 0	7 1.7 10 5 0 0 5 4 4	0 0 0 0 0 0 0 0 0	9 9 16 16 26 21 26 26	21 16.0 33 36 32 41 11 31 32	19 3.5 47 NA 41 0 NA NA NA	8.635 129.3 9.313 206 2.508 42 NA NA NA	0.0 0.0 162 88 2 54 NA NA NA	NA NA 7 19 0 0 NA NA NA	578 9.5 770 409 NA NA 7 7 NA	578 9.5 770 409 NA NA 7 7 NA
CARDIAC TISSUE	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° tissue processed (units) N° tissue distributed (units) N° tissue imported (units) N° tissue exported (units) N° of tissues transplanted N° of patients transplanted N° of transplants	0 0.0 0 0 0 0 0 0 0	4 1.0 5 0 3 0 3 3 3	0 0 0 0 0 0 0 0 0	124.4 11.7 124 124 114 0 111 111 113	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	49 8.9 805 NA NA 0 NA NA NA	3.47 5.2 805 NA NA 6 NA NA NA	0.0 0.0 285 77 115 90 99 160 NA	NA NA 26 44 0 0 NA NA NA	241 4.0 446 202 202 15 15 NA NA	241 4.0 446 202 202 15 15 NA NA
MUSCULOSKELETAL	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° tissue processed (units) N° tissue distributed (units) N° tissue imported (units) N° tissue exported (units) N° of tissues transplanted N° of patients transplanted N° of transplants	6.402 6.402 245 177 177 0 5.704 130 130 130	172 41.0 252 248 142 0 0 202 202 160	0 0 0 0 0 0 0 8 8	1.699 16.0 4.626 4.278 3.639 0 1.019 766 585 750	158 16.0 164 342 341 0 0 208 246 283	921 167.8 164 342 341 0 0 NA NA NA	26.837 40.0 27.174 37.803 47.528 38.1 12.268 49.52 47.528 35.909	0 0.0 20.283 71.566 4.956 0 38.829 NA NA NA	NA NA 646 NA NA 0 NA NA NA	4.259 9.857 NA 14.858 14.858 146 146 NA NA NA	4.259 9.857 NA 14.858 14.858 146 146 NA NA NA
PLACENTA/AMNIOTIC MEMBRANE	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° tissue processed (units) N° tissue distributed (units) N° tissue imported (units) N° tissue exported (units) N° of tissues transplanted N° of patients transplanted N° of transplants	14 2.0 14 9 9 0 1.84 1.70 1.70 1.70	9 2.1 9 0.0 0.0 0 0 160 162 162	0 0 0 1.1 1.1 0 0 8 8	12 1.1 18 2.272 3.227 0 54 585 585 750	23 23 121 78 0 0 0 78 78	7 1.3 126 NA NA 0 NA NA NA	1.11 1.7 143 NA NA 0 NA NA NA	0 0 0 NA NA 0 NA NA NA	NA NA NA NA NA 0 NA NA NA	279 4.6 268 NA NA NA NA NA NA	279 4.6 268 NA NA NA NA NA NA
SKIN	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° tissue processed (cm.) N° tissue distributed (units) N° tissue imported (units) N° tissue exported (units) N° of tissues transplanted N° of patients transplanted N° of transplants	77 10.8 73 0 0 0 0 62 0 0	10 2.4 73 452 483 0 18 500 6 14	0 0 0 0 0 0 0 0 0 0	36 3.4 36 1.513 142.200 0 1.444 0 0 0	6 4.6 NA 15 0 0 0 0 0 0	28 5.1 143.993 NA NA 0 0 0 0 0	0.0 4.0 59.877 720 720 0 30.000 454.347.5 666 NA	NA NA NA NA NA 0 NA NA NA NA	NA NA NA NA NA 0 NA NA NA NA	389 6.4 1.044.258 NA NA NA NA NA NA	389 6.4 1.044.258 NA NA NA NA NA NA
OTHERS	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° tissue processed (units) N° tissue distributed (units) N° tissue imported (units) N° tissue exported (units) N° of tissues transplanted N° of patients transplanted N° of transplants	63 8.8 63 0 0 0 0 62 0 0	6 1.4 6 4557 1 0 1.377 36 0 1 1 0	0 0 0 0 0 0 0 0 0 0	60 5.7 60 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	NA NA NA NA NA 0 0 0 0 0	NA NA NA NA NA 0 0 0 0 0	114 1.9 114 NA NA 27 NA NA NA NA	114 1.9 114 NA NA 27 NA NA NA NA

PRELIMINARY DATA ON TISSUES - YEAR 2016

PRELIMINARY DATA ON TISSUES - YEAR 2016

Country	TYPE OF TISSUE	LATINAMERICAN COUNTRIES									Paraguay	Uruguay			
		Argentina	Brazil	Chile	Colombia	Costa Rica	Cuba	Dominican Republic	Ecuador	Guatemala	Honduras	Mexico			
<i>Population (Source: UNFPA, state of world population, 2016 - Million)</i>		43.8	209.6	18.1	48.7	4.9	11.4	10.6	16.4	16.7	8.2	128.6	4.0	6.7	3.4
	NO DATA	NO DATA	NO DATA	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 N° of tissue retrieved N° of tissues transplanted N° of patients transplanted N° of transplants	30.769 146.8 0 143 14.640 0 14.640	182 10.1 0 143 143 0 143	172 35.1 0 182 229 0 0	0 0 0 0 0 0 0	36 3.4 0 0 0 0 0	276 16.8 264 0 0 478 478	0 0 0 0 0 0 0	3.464 3.464 3.484 0 3.484 0 3.484	0 0 0 0 0 0 0	86 12.8 76 76 76 76 76	84 24.7 173 198 188 0			
BLOOD VESSEL	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° of tissues transplanted N° of patients transplanted N° of transplants	0 0 0 0 0 0	0 0 0 0 0 0	3 0.6 6 12 10 12	0 0 0 0 0 0	0 0 0 0 0 0	2 0.1 2 0 0 0	0 0.1 2 0 0 0	0 0.0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	9 2.6 18 12 9			
CARDIAC TISSUE	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° of tissues transplanted N° of patients transplanted N° of transplants	220 1.0 0 140 0 140	2 0.1 4 0 0 0	3 0.6 6 12 12 12	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	2 0.0 2 0 1 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			
MUSCULOSKELETAL	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° of tissues transplanted N° of patients transplanted N° of transplants	1.628 7.8 0 16.321 0 16.321	2 0.1 4 0 0 0	7 1.4 12 2 2 2	0 0.0 0 0 0 0	0 0 0 0 0 0	276 16.8 0 0 0 0	0 0.0 0 0 0 0	325 2.5 325 0 0 0	0 0.0 0 0 0 0	0 0 0 0 0 0	16 4.7 27 460 1 104			
PLACENTA/AMNIOTIC MEMBRANE	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° of tissues transplanted N° of patients transplanted N° of transplants	0 0.0 0 0 0 0	0 0.0 0 0 0 0	4 0.8 3428.7 29 16 27	0 0.0 0 0 0 0	0 0 0 0 0 0	374 22.8 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	129 37.9 54 368 66 0			
SKIN	N. of tissue donations Tissue donation PMP N° of tissue retrieved (cm) N° of tissues transplanted N° of patients transplanted N° of transplants	516 2.5 0 88.865 0 88.865	0 0 0 0 0 0	5 1.0 0 9 9 9	0 0.0 0 0 0 0	0 0 0 0 0 0	56 0.4 0 0 0 0	56 0.4 56 0 0 0	0 0.0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	21 6.2 40.200 1.064 30 0			
OTHERS	N. of tissue donations Tissue donation PMP N° of tissue retrieved N° of tissues transplanted N° of patients transplanted N° of transplants	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 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	5 1.5 9 7 6 0			

PRELIMINARY DATA ON HPC CELLS - YEAR 2016

EUROPEAN UNION COUNTRIES															
Country	Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Ireland	Italy
<i>Population (Source: eurostat)</i>	8.690.076	11.311.117	7.153.784	4.190.669	848.319	10.553.843	5.659.715	1.315.944	5.487.308	66.759.950	82.175.684	10.783.748	9.830.485	4.724.720	60.665.551
CATEGORY OF DATA	TYPE OF DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO 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 N° of cord blood unit at 31.12 N° of searches requested N° of unrelated donation	NA NA 0 0	47.103 3.237 434 53	144.890 3.635 22.292 46	94.720 4.173 51.361 158	NA NE NA NA	33.119 3.344 24.451 0	263.343 35.103 26.105 1.261	NA NA NA NA	NA NA NA NA	NA NA NA NA	NA NA NA NA	NA NA NA NA	380.594 34.453 3.279 818	
DONATIONS	N° of donations - Autologous N° of donations - Allogenic N° of donations - Allogenic, related N° of donations - Allogenic, unrelated	1.946 9 0 9	495 654 37 617	21 46 2 44	134 154 46 108	56 5 0 5	329 75 44 31	3.328 1.249 890 359	4.417 7.933 7.001 932	374 150 77 73	4.542 1.438 1.190 248	374 150 77 73	4.542 1.438 1.190 248	374 150 77 73	
BANKING of CORD BLOOD	N° of unrelated cord blood units collected N° of unrelated cord blood units distributed N° of unrelated cord blood units at 31.12 N° of related cord blood units collected N° of related cord blood units distributed N° of related cord blood units at 31.12	0 0 0 NA 0 0	610 0 3.319 6 0 202	344 3 3.635 3.400 NA 24.150	95 0 4.631 5 0 172	NE NE NE NE NE NE	0 0 35.103 0 0 0	1.163 154 36.862 30 1 0	1.007 0 36.862 30 1 0	NE NE NE NE 2 39.257	14.661 38 983 187 7 184	14.661 38 983 187 7 184	14.661 38 983 187 7 184	14.661 38 983 187 7 184	
TRANSPLANTS	N° of transplants - Autologous N° of patients transplanted - Autologous N° of transplants - Allogenic N° of patients transplanted - Allogenic N° of transplants - Allogenic, related N° of patients transplanted - Allogenic, related N° of transplants - Allogenic, unrelated N° of patients transplanted - Allogenic, unrelated	64 53 19 19 9 9 10 10	171 134 75 64 26 23 49 41	21 21 0 0 0 0 0 0	470 368 270 252 100 93 170 159	52 NA 20 NA 5 NA 15 NA	3.151 2.043 1.958 1.71 898 NA 15 NA	4.620 3.734 3.124 2.934 973 NA 1.060 2.151	NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA	2.896 2.355 1.778 1.694 1.010 908 786 755	2.896 2.355 1.778 1.694 1.010 908 786 755	2.896 2.355 1.778 1.694 1.010 908 786 755	2.896 2.355 1.778 1.694 1.010 908 786 755	

PRELIMINARY DATA ON HPC CELLS - YEAR 2016

Country	Population (Source: eurostat)	EUROPEAN UNION COUNTRIES										OTHER COUNTRIES			
		Latvia	Lithuania	Luxembourg	Malta	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	United Kingdom	
CATEGORY OF DATA	TYPE OF DATA													Norway	Republic of Moldova
POTENTIAL DONATION AND SEARCHING IN THE NATIONAL REGISTRIES	N° of potential donors at 31.12	UK	11.440	NA	NE	132.723	NA	395.568	22.386	10.491	17.033	147.049	NA	32.927	NE
	N° of cord blood units at 31.12	UK	1.472	NA	NE	4.237	NA	9.236	0	1.745	343	64.290	4.634	0	NE
	N° of searches requested	UK	NA	NA	NE	565	NA	2.701	301	22.967	0	2.244	NA	0	NE
	N° of unrelated donations	UK	57	NA	NE	392	NA	119	6	39	26	699	NA	27	NE
DONATIONS	N° of donations - Autologous	UK	292	NA	NE	3.233	NA	457	2.947	3.658	0	1.975	769	24	NE
	N° of donations - Allogenic	UK	31	NA	NE	239	NA	1.904	26	40	101	1.064	987	84	NE
	N° of donations - Allogenic, related	UK	22	NA	NE	181	NA	87	20	37	15	760	103	30	NE
	N° of donations - Allogenic, unrelated	UK	9	NA	NE	58	NA	1.817	6	3	86	304	884	54	NE
BANKING OF CORD BLOOD	N° of unrelated cord blood units collected	UK	0	NA	NE	432	416	1.778	0	0	343	2.152	756	0	NE
	N° of unrelated cord blood units distributed	UK	0	NA	NE	105	26	4	0	0	NA	220	8	0	NE
	N° of unrelated cord blood units at 31.12	UK	0	NA	NE	NA	4.358	9.217	-6	0	343	64.290	4.634	0	NE
	N° of related cord blood units collected	UK	138	NA	NE	2	NA	0	11.094	17	NA	0	44	0	NE
	N° of related cord blood units distributed	UK	0	NA	NE	0	NA	0	0	5	NA	0	0	0	NE
	N° of related cord blood units at 31.12	UK	1.229	NA	NE	NA	NA	150	120.545	12	NA	0	118	0	NE
TRANSPLANTS	N° of transplants - Autologous	UK	154	NA	NE	3.433	NA	395	147	133	86	1.975	566	102	NE
	N° of patients transplanted - Autologous	UK	154	NA	NE	990	NA	375	146	103	0	0	535	94	NE
	N° of transplants - Allogenic	UK	64	NA	NE	579	NA	140	64	78	41	1.241	283	77	NE
	N° of patients transplanted - Allogenic, related	UK	64	NA	NE	569	NA	135	63	74	0	0	266	77	NE
	N° of patients transplanted - Allogenic, related	UK	16	NA	NE	170	NA	68	31	32	15	760	100	4	NE
	N° of transplants - Allogenic, unrelated	UK	16	NA	NE	162	NA	66	30	31	0	0	89	4	NE
	N° of transplants - Allogenic, unrelated	UK	48	NA	NE	409	NA	72	33	46	26	481	183	73	NE
	N° of patients transplanted - Allogenic, unrelated	UK	48	NA	NE	407	NA	69	33	43	0	0	177	73	NE

PRELIMINARY DATA ON HPC CELLS - YEAR 2016

		LATINAMERICAN COUNTRIES													
Country		Argentina	Brazil	Chile	Colombia	Costa Rica	Cuba	Dominican Republic	Ecuador	Guatemala	Honduras	Mexico	Panama	Paraguay	Uruguay
Population (Source: UNFPA, state of world population, 2016 – Million)		43.8	209.6	18.1	48.7	4.9	11.4	10.6	16.4	16.7	8.2	128.6	4.0	6.7	3.4
CATEGORY OF DATA	TYPE OF DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO 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	Nº of potential donors at 31.12	4.210.371	0	46	0	0	0	0	0	0	0	0	0	0	0
	Nº of cord blood units at 31.12	14.703	0	0	0	0	0	0	0	0	0	0	0	0	0
	Nº of searches requested	10.503	0	0	0	0	0	0	0	0	0	0	0	0	0
	Nº of unrelated donations	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BANKING of CORD BLOOD	Nº of unrelated cord blood units at 31.12	14.703	0	0	0	0	0	0	0	0	0	0	0	0	0
	Nº of related cord blood units at 31.12	0	0	0	0	0	0	0	1.205	0	0	0	0	0	0
TRANSPLANTS	Nº of transplants - Autologous	1.149	0	0	0	0	0	0	0	0	0	32	8	0	0
	Nº of patients transplanted - Autologous	0	0	38	0	0	0	17	0	0	0	32	8	0	0
	Nº of transplants - Allogenic	853	0	46	0	0	0	9	0	0	0	60	1	0	0
	Nº of patients transplanted - Allogenic	0	0	46	0	0	0	9	0	0	0	60	1	0	0
	Nº of transplants - Allogenic, related	472	0	46	0	0	0	9	0	0	0	14	1	0	0
	Nº of patients transplanted - Allogenic, related	0	0	46	0	0	0	9	0	0	0	14	1	0	0
	Nº of transplants - Allogenic, unrelated	381	0	0	0	0	0	0	0	0	0	46	0	0	0
	Nº of patients transplanted - Allogenic, unrelated	0	0	0	0	0	0	0	0	0	0	46	0	0	0

Council Of Europe Resolutions.

Year 2017



Resolution CM/Res(2017)1 on principles for the selection, evaluation, donation and follow-up of the non-resident living organ donors

*(Adopted by the Committee of Ministers on 14 June 2017
at the 1289th meeting of the Ministers' Deputies)*

The Committee of Ministers, in its composition restricted to the representatives of States Parties to the Convention on the Elaboration of a European Pharmacopoeia (ETS No. 50),¹

Considering that the aim of the Council of Europe is to achieve greater unity between its member States and that this aim may be pursued, *inter alia*, by the adoption of common action in the health field;

Having regard to Resolution Res(78)29 on the harmonisation of legislation of member States related to removal, grafting and transplantation of human substances and the final text of the 3rd Conference of European Health Ministers (Paris, 16-17 November 1987);

Having regard to the Convention on Human Rights and Biomedicine (ETS No. 164) and in particular to Articles 19 and 20 thereof;

Having regard to the Additional Protocol to the Convention on Human Rights and Biomedicine concerning the Transplantation of Organs and Tissues of Human Origin (ETS No. 186) and the Explanatory Report thereof, in particular Chapter III – Organ and tissue removal from living persons, Article 9 – General rule;

Having regard to the Convention on Action against Trafficking in Human Beings (CETS No. 197);

Having regard to the Convention against Trafficking in Human Organs (CETS No. 216);

Having regard to the Convention for the Protection of Individuals with regard to Automatic Processing of Personal Data (ETS No. 108) and its Additional Protocol on Supervisory Authorities and Transborder Data Flows (ETS No. 181);

Recalling Recommendation Rec(2004)7 on organ trafficking;

Recalling its Resolution CM/Res(2008)4 on adult-to-adult living donor liver transplantation;

Recalling its Resolution CM/Res(2008)6 on transplantation of kidneys from living donors who are not genetically related to the recipient and in particular the principles and measures laid down in its Appendix;

Recalling its Resolution CM/Res(2013)56 on the development and optimisation of live kidney donation programmes;

Recalling its Resolution CM/Res(2015)11 on establishing harmonised national living donor registries with a view to facilitating international data sharing;

Taking into account the Directive 2010/53/EU of the European Parliament and of the Council on standards of quality and safety of human organs intended for transplantation, in particular Article 15;

Taking into account Regulation (EU) 2016/679 of the European Parliament and the Council of 27 April 2016 *on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)*, and in particular Article 9 points (h) and (i), which contain provisions allowing for processing of health data “*for the purposes of preventive or occupational medicine, [...] medical diagnosis, the provision of health or social care or treatment or the management of health or social care systems and services [...]” and “for reasons of public interest in the area of public health [...] or ensuring high standards of quality and safety of health care and of medicinal products or medical devices,*

1. Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Republic of Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, “the former Yugoslav Republic of Macedonia”, Turkey, Ukraine and United Kingdom.

on the basis of Union or member State law which provides for suitable and specific measures to safeguard the rights and freedoms of the data subject, in particular professional secrecy”²

Taking into account the WHO Guiding Principles on Human Cell, Tissue and Organ Transplantation adopted by the World Health Assembly in May 2010;³

Taking into account the Declaration of Istanbul on Organ Trafficking and Transplant Tourism, adopted in 2008;⁴

Taking into account the consensus statements made by the Amsterdam Forum on the Care of the Live Kidney Donor^{5,6} and by the Vancouver Forum on the Live Lung, Liver, Pancreas, and Intestine Donor;^{7,8}

Taking into account the consensus statements on living organ donation made by an executive group representing the American Societies of Transplantation, Transplant Surgeons and Nephrology, and the National Kidney Foundation;⁹

Taking into account the position paper of the European Committee on Organ Transplantation (CD-P-TO) on the long-term outcome of living kidney donation, with the endorsement of the European Society for Organ Transplantation (ESOT), the International Society of Nephrology (ISN) and The Transplantation Society (TTS);¹⁰

Taking into account the Council of Europe *Guide on the Quality and Safety of Organs for Transplantation*, in particular its chapter on living donation;¹¹

Considering the large deficit of organs for transplantation compared to demand at present and in the foreseeable future, even after developing deceased donation to its maximum therapeutic potential;

Considering that many countries are developing living donation programmes as a way to pursue self-sufficiency in transplantation;

Taking into account that live kidney donation is a safe procedure, if performed according to recognised international standards, in terms of donor evaluation, selection and donor care;

Considering that living donation carries risks and requires robust legislative and operational procedures in place to safeguard the health of the living donor;

Aware that organ shortages, or lack of access to a deceased donor programme, have also encouraged organ trafficking, often involving patients seeking potential donors abroad;

Aware that many countries are accepting organ donation from non-resident living donors with or without a genetic or emotional link to the recipient who come lawfully (with a visa or other authorisation) to the country and wish to become living organ donors;

Considering that for a number of reasons – economic, emotional, cultural or physical – the detection of possible cases of human trafficking for the purpose of organ removal and/or trafficking in human organs may be particularly difficult when evaluating and accepting non-resident living donors;

Recognising that countries accepting non-resident living donors should ensure rigorous donor selection, evaluation and follow-up;

Considering that the non-resident living donor who travels from another country to donate is particularly vulnerable and that additional measures are needed to ensure their protection and care;

2. Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Republic of Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, “the former Yugoslav Republic of Macedonia”, Turkey, Ukraine and United Kingdom. Available at: http://ec.europa.eu/justice/data-protection/reform/files/regulation_oj_en.pdf

3. Available at <http://www.who.int/transplantation/TxGP08-en.pdf>

4. Adopted at the International Summit on Transplant Tourism and Organ Trafficking organised by the Transplantation Society and the International Society of Nephrology, Istanbul, Turkey, 30 April - 2 May 2008. Available at http://www.edqm.eu/medias/fichiers/The_Declaration_of_Istanbul.pdf

5. The Ethics Committee of the Transplantation Society: The Consensus Statement of the Amsterdam Forum on the Care of the Live Kidney Donor. *Transplantation* 78(4):491-92, 2004. Available at: http://journals.lww.com/transplantjournal/Fulltext/2004/08270/The_Consensus_Statement_of_the_Amsterdam_Forum_on.1.aspx

6. Report from the Amsterdam Forum On the Care of the Live Kidney Donor: Data and Medical Guidelines. Council of the Transplantation Society. *Transplantation* 79(6):S53-66, 2005. Available at: <https://www.ncbi.nlm.nih.gov/pubmed/15785361>

7. Report of the Vancouver Forum on the Care of the Live Organ Donor: Lung, Liver, Pancreas, and Intestine Data and Medical Guidelines. Barr ML, Belghiti J, Villamil FG, Pomfret EA, Sutherland DS, Gruessner RW. Available at: <https://www.livingdonorassistance.org/documents/Report%20of%20Vancouver%20Forum.pdf>

8. The Ethics Statement of the Vancouver Forum on the Live Lung, Liver, Pancreas, and Intestine Donor. *Transplantation* 81(10):1386-7, 2006. Available at: <https://www.livingdonorassistance.org/documents/Ethics%20Statement%20of%20Vancouver%20Forum.pdf>

9. Abecassis et al.: Consensus statement on the live organ donor. *JAMA* 284(22):2219-26, 2000

10. Available at https://www.edqm.eu/sites/default/files/position_paper_long_term_outcome_of_living_kidney_donation_2015.pdf

11. Available at <https://go.edqm.eu/OTg>

Considering that non-resident living donors, especially those from developing countries, may have limited resources or access to health care to ensure appropriate post-donation long term follow-up;

Recommends that the governments of States Parties to the Convention on the Elaboration of a European Pharmacopoeia take the necessary measures for the care and safeguard of the non-resident living donor, in accordance with the principles and practices set out in the appendix to this resolution.

Appendix to Resolution CM/Res(2017)1

INTRODUCTION

As a way to pursue self-sufficiency in transplantation, many countries are developing and optimising living donor programmes to complement the limited availability of organs from deceased donors, or as the only source of organs.

However a lack of or delay in access to a suitable donor has encouraged human and organ trafficking. There are growing reports of donors being coerced to consent to donation; or who are offered financial or equivalent inducements to be an organ donor. Living donors also have a greater potential to develop medical and psychosocial conditions in the short and the longer term without adequate follow-up. This has prompted the development of international recommendations and standards for the care and protection of the living donor to encourage countries to develop their own national legislation, better regulatory oversight and any necessary changes to policy and operational protocols.

Non-resident donors may be particularly vulnerable and assessing the validity of their consent to donation – which must be free, specific and informed – is vital but can be especially challenging. The donor, in exchange for some form of financial inducement to give consent, may have been given inadequate or insufficient information about the donation procedure, risks and potential consequences or they may have been subject to coercion to agree to donation. The donor may be presented falsely as having a genetic or emotional relationship with the recipient. They may be given poor or no post-operative care and long term follow-up. In spite of these risks, specific international recommendations on how to safeguard the non-resident living donor have not been developed.

Although many countries allow non-resident living donation, there are recognised variations in approach,

such as the data collected, the screening and consent process, the reimbursement of loss of earnings and justifiable expenses (such as travel and medical costs) related to the donation procedure, and access to post-operative follow-up care.

These concerns have prompted the European Committee on Organ Transplantation (CD-P-TO) of the Council of Europe, using as a basis the legal instruments and guidelines of the Council of Europe and other relevant organisations, to prepare guidance for member States on the principles and practices to safeguard the non-resident living donor. These measures should be put in place in conjunction with the existing national provisions to ensure the safety and well-being of living donors.

Work-up of the potential non-resident living donor before travel for donation

- The formal process of referral of the non-resident donor should be agreed between the transplant centre/hospital undertaking the donation and implantation procedure and the referring centre/hospital of the prospective living donor.
- Initial tests and evaluation to identify and rule out any obvious reasons that would contraindicate the donation should be performed preferably in the donor's own country. Exclusion criteria should include donor physical or mental health problems, social or behavioural issues or be based on ABO blood groups or Human Leukocyte Antigen (HLA) incompatibility between donor and recipient. These initial evaluations will reduce unnecessary travel or expenses if any obvious contraindications to donation are found.
- Arrangements for long-term follow-up once the living donor has returned home should be discussed to ensure that medical care is available. As recently stated in the CD-P-TO Position Paper on the long-term outcome of living kidney donation, if adequate long-term life-long follow-up cannot be guaranteed, the donor should not be accepted.¹²
- The process and level of reimbursement of justifiable expenses, including loss of income, incurred by the non-resident living donor should be discussed at an early stage to ensure the process is clear and cost-neutral for the donor. For the non-resident donor, reimbursement should include the initial assessment, testing and evaluation costs, travel, accommodation, loss of earnings, the cost of the donation procedure and the costs of any related treatment including that

12. Long-term Outcome of Living Kidney Donation: Position Paper of the European Committee on Organ Transplantation, Council of Europe. Transplantation. 2016 Feb;100(2):270.

of complications as a result of the donation.¹³ It should be clear from whom the reimbursement will be made (e.g. insurance companies, State funders or social security schemes). Similarly, regimes for the protection and indemnification of the non-resident donor should be in place in the event of undue damage resulting from the donation on their territory, on equal conditions with resident donors.

- Unless such basic health-related and administrative requirements are satisfied, non-resident living donors should be discouraged from leaving their country of residence for the transplanting country.

Lawful entry of the non-resident living donor

— Clear procedures should be established with relevant agencies for the lawful entry of the potential non-resident living donor (or the potential non-resident donor and recipient) into the country and exit post donation. In countries where authorisation or a visa is required, transplant centres/hospitals may need to work with the potential donor, recipient and referring centre/hospital to provide any necessary documentation to help facilitate entry into the country for a sufficient period of time to enable the living donor procedure and related post-operative recovery.

Further work-up of the potential non-resident living donor once in the country where the donation is expected to take place

— The work-up for donation should continue in the country where the transplant will take place. Specific medical tests, particularly from the infectious disease point of view, may be needed according to the epidemiology of the country of residence of the non-resident living donor.¹⁴

— Specific psychosocial evaluation pre-donation, intended to prevent donation from non-resident donors with significant risk of developing mental health disorders or psychological/social problems, and to avoid worsening their quality of life, should also be undertaken. The psychosocial evaluation should be aimed at: the assessment of the donor-recipient relationship; competency; knowledge and understanding of donation risks and benefits; psychological functioning, motivations and expectations; and social support.

— Procedures should be in place to verify the claimed relationship between the potential donor and the recipient, and, where it cannot be proven, the donation

should not proceed. Such checks should include official documents (e.g. birth certificates or marriage certificates) and affidavits by embassies or consulates, as needed. If the genetic relationship is not conclusively established after evaluating the documentary evidence, HLA testing should be performed. National legislations should clearly establish which relationships are acceptable and, in the case of non-resident living donors, they should preferentially be limited to first- or second-degree genetic relatives or spouses (or equivalent). In exceptional cases, other relationships may be accepted when they can be unequivocally verified and in accordance with national legislations.

- Consent (free, specific and informed) should be given and fully recorded. It should be made clear to the potential donor that consent may be withdrawn at any time before donation with no need for a specific formal procedure. Authorisation of the donation by an independent body should take place in line with the clinical and regulatory framework in place in the country where the transplant procedure will take place.
- Living donors should be provided with detailed information on the short and long-term medical and psychological risks for their own health and well-being; the potential risks and complications for the intended recipient; alternative treatments for the intended recipient; any information about contraindications that might prevent donation; and information about the possible use of the organ if it is procured but cannot be used for the intended recipient (e.g. transplant of the organ into another patient on the waiting list).
- Information about the donation procedure should be provided in a manner able to be fully understood by the potential non-resident living donor, relying on interpreters and culturally competent advocates where required, to ensure that any outstanding issue or concern is thoroughly addressed. Should an interpreter be required, the services should not be provided or arranged by the donor, the recipient or anyone in their entourage.
- Countries should ensure that living donor programmes include procedures for living donor assessment or advocacy, independent of the transplant team. This is particularly important for the non-resident donor. The living donor advocate should be an independent medical, psychosocial and legal counsellor, with

13. Recommendation No. S1 of 15 March 2012 concerning financial aspects of cross-border living organ donations. Available at: [http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32012H0810\(01\)](http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32012H0810(01))

14. Guide to the Quality and Safety of Organs for Transplantation, available at <https://go.edqm.eu/OTg>

neither time constraints nor interests shared with any party. Donor advocacy has the dual purpose of supporting the potential donor and ensuring the legal safeguards are followed, for example by assessing the donor's motivation to donate. This will help confirm that the donor is giving free, specific and informed consent; ensuring that they fully understand the process and the risks; confirming that they are not being pressurised – emotionally, physically or economically – into consent for donation; and that the donor, or a third party, has not been offered or received any financial gain or comparable advantage for the donation. To undertake the assessment, the potential donor and recipient should be interviewed together and separately by a trained assessor independent of the transplant team, taking into account any language and cultural requirements.

- National protocols should specify the action(s) to be taken, in addition to deferral of donation, should a suspicion of organ trafficking or trafficking in human beings for the purpose of organ removal arise. This could include reporting the case to the national regulator and/or the law enforcement authority. Official international data sharing may prevent further attempts to perform the illicit organ procurement from the same donor or from a different unsuitable organ donor for the same recipient or by the same criminal network for a different donor-recipient pair at a different location.

Organ procurement from the non-resident living donor and follow-up

- The initial follow-up of the non-resident living donor – both medical and psychosocial – should be undertaken by the transplant centre/hospital as part

of the post-surgery rehabilitation. Arrangements for long-term follow-up should have been discussed as part of the initial work-up and consent process, to ensure that medical care is available once the living donor has returned home.

- The non-resident living donor should be provided complete medical records to ensure continuity of care once they return to their country of residence.

RECORDING THE DONATION

National Living Donor Registries should be established in all countries to enable transparency, traceability, data analysis and improvement to clinical practice. These registries should include data on the donor and recipient, the hospital(s) involved, the surgical procedure and the follow-up of the donor.^{15,16} All donation procedures, including those involving non-resident living donors, should be recorded in such Living Donor Registries.

For the non-resident living donor, donor information from the transplant centre/hospital that has performed the donation or from the Living Donor Registry of the country where the procedure took place should be shared with the country of origin of the non-resident living donor, for example, with the healthcare professional or hospital continuing the follow-up care of the non-resident living donor, the referring hospital, the national transplant organisation, the Ministry of Health and/or with the national Living Donor Registry. This data sharing, which should be done in conformity with national and international data protection rules and other applicable legislation, will ensure connection between traceability and biovigilance systems of both countries and continuity of care for the donor.

Resolution CM/Res(2017)2 on establishing procedures for the management of patients having received an organ transplant abroad upon return to their home country to receive follow-up care

*(Adopted by the Committee of Ministers on 14 June 2017
at the 1289th meeting of the Ministers' Deputies)*

The Committee of Ministers, in its composition restricted to the representatives of States Parties to the Convention on the Elaboration of the European Pharmacopoeia (ETS No. 50),¹

Considering that the aim of the Council of Europe is to achieve greater unity between its member States and that this aim may be pursued, *inter alia*, by the adoption of common action in the health field;

Having regard to Resolution Res(78)29 on the harmonisation of legislation of member States related to removal, grafting and transplantation of human substances and the final text of the 3rd Conference of European Health Ministers (Paris, 16-17 November 1987);

Having regard to the Convention on Human Rights and Biomedicine (ETS No. 164) and in particular to Articles 19 and 20 thereof;

Having regard to the Additional Protocol to the Convention on Human Rights and Biomedicine concerning the Transplantation of Organs and Tissues of Human Origin (ETS No.186) and the Explanatory Report thereof, in particular Chapter III – Organ and tissue removal from living persons, Article 9 – General rule;

Having regard to the Convention on Action against Trafficking in Human Beings (CETS No. 197);

Having regard to the Convention against Trafficking in Human Organs (CETS No. 216);

Having regard to the Convention for the Protection of Individuals with regard to Automatic Processing of Personal Data (ETS No. 108) and its Additional Protocol on Supervisory Authorities and Transborder Data Flows (ETS No. 181);

Recalling Recommendation Rec(2004)7 on organ trafficking;

Recalling its Resolution CM/Res(2013)55 on establishing procedures for the collection and dissemination of data on transplantation activities outside a domestic transplantation system;

Recalling its Resolution CM/Res(2015)11 on establishing harmonised national living donor registries with a view to facilitating international data sharing;

Taking into account the Directive 2010/53/EU of the European Parliament and of the Council on standards of quality and safety of human organs intended for transplantation;

Taking into account Commission Implementing Directive 2012/25/EU of 9 October 2012 laying down information procedures for the exchange, between member States, of human organs intended for transplantation;²

1. Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Republic of Moldova, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, “the former Yugoslav Republic of Macedonia”, Turkey, Ukraine and United Kingdom.

2. Available at: http://ec.europa.eu/health/blood_tissues_organs/docs/organs_impl_directive_2012_en.pdf

Taking into account Regulation (EU) 2016/679 of the European Parliament and the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation), and in particular Article 9 points (h) and (i), which contain provisions allowing for processing of health data “for the purposes of preventive or occupational medicine, [...] medical diagnosis, the provision of health or social care or treatment or the management of health or social care systems and services [...]” and “for reasons of public interest in the area of public health [...] or ensuring high standards of quality and safety of health care and of medicinal products or medical devices, on the basis of Union or member State law which provides for suitable and specific measures to safeguard the rights and freedoms of the data subject, in particular professional secrecy”,³

Taking into account the WHO Guiding Principles on Human Cell, Tissue and Organ Transplantation adopted by the World Health Assembly in May 2010,⁴ and in particular Guiding Principles 10 and 11, which call for health authorities to ensure traceability and vigilance and to monitor results of both living donation and transplantation;

Aware that, in exceptional circumstances, some patients may be properly referred for transplantation abroad by their treating physicians for medical, organisational (e.g. co-operation agreements between countries) or social reasons (e.g. to facilitate family support);

Aware that organ shortage, or lack of access to a deceased donor programme, have also encouraged organ trafficking and human trafficking for the purpose of organ removal, often involving patients seeking to receive an organ transplant abroad;

Taking into account the Declaration of Istanbul on Organ Trafficking and Transplant Tourism, adopted in 2008,⁵ which defines that travel for transplantation becomes transplant tourism – and ethically unacceptable – if it involves organ trafficking, human trafficking for the purpose of organ removal or if the resources devoted to providing transplants to patients from outside a country (may they be organs, professionals, and transplant centres) undermine the country's ability to provide transplant services for its own population;

Taking into account the Declaration of Istanbul Custodian Group guidelines on ethical travel for transplantation;

Taking into account the Resolution of Madrid,⁶ calling for all States to strive towards self-sufficiency in organ transplantation;

Taking into account the Statement of the Pontifical Academy of Sciences Summit on Organ Trafficking and Transplant Tourism;⁷

Considering that patients having received an organ transplant abroad, should it have been through proper travel for transplantation or through transplant tourism, typically return to their country of origin shortly after the transplantation procedure to receive post-transplantation care;

Considering that patients having received an organ transplant abroad as a result of transplant tourism are much more likely to suffer serious complications or life-threatening conditions, particularly infections caused by opportunistic pathogens, microorganisms not previously seen in their home country or multidrug resistant organisms which entail a risk not only to themselves but to public health;

Aware that systematic and appropriate registration of patients who undergo organ transplantation within a jurisdiction allows traceability of organs from donors to recipients and vice versa, as well as vigilance and surveillance, and enables the evaluation of the long-term outcomes of transplantation, the minimisation of public health risks and the detection of cases that may raise ethical and/or criminal concerns;

Considering that the principles of transparency, traceability and continuity of care are desirable not only for patients having received an organ transplant domestically but also for those having received a transplant abroad;

Considering that the quality of care provided to patients having received an organ transplant abroad would be enhanced upon registration in national transplant registries and by ensuring connection between traceability and biovigilance systems which would allow to have up-to-date epidemiological information and to provide personalised care depending on the country where the patient has received the organ transplant;

3. Available at: http://ec.europa.eu/justice/data-protection/reform/files/regulation_oj_en.pdf

4. Available at: <http://www.who.int/transplantation/TxGP08-en.pdf>

5. Adopted at the International Summit on Transplant Tourism and Organ Trafficking organised by the Transplantation Society and the International Society of Nephrology, Istanbul, Turkey, 30 April-2 May 2008. Available at: http://www.edqm.eu/medias/fichiers/The_Declaration_of_Istanbul.pdf

6. The Madrid resolution on organ donation and transplantation, Transplantation, 2011, vol. 91 (pg. S29-31)

7. Available at: http://www.pas.va/content/accademia/en/events/2017/organ_trafficking/statement.html

Considering that currently patients who receive a transplant abroad are not systematically recorded in national registries in most member States and that their care is circumscribed to the attention that may be provided by their treating physician upon return home;

Considering that the international exchange of information about patients who receive a transplant abroad will help to better understand and analyse the phenomenon of travel for transplantation and to identify possible hotspots of transplant tourism that deserve careful investigation by the concerned countries;

Aware that procedures established for the management of patients who receive an organ transplant abroad, similarly to those procedures established for the management of patients who receive an organ transplant domestically, should respect the professional obligations of healthcare professionals towards patients and be in conformity with national and international data protection rules and other applicable national legislation, especially national transplantation law;

Aware that information collected from patients who receive a transplant abroad in circumstances that may be consistent with organ trafficking and/or human trafficking for the purpose of organ removal can provide the basis to initiate and/or co-operate in criminal investigations and help to detain and combat illicit practices;

Recommends to the governments of States Parties to the Convention on the Elaboration of a European Pharmacopoeia:

1. to provide the resources and the means to progress towards self-sufficiency in transplantation at a national level – with regional co-operation as appropriate – by reducing the need for transplants through preventive measures and improving access to national transplant programmes in an ethical and regulated manner;
2. to ensure that patients having received an organ transplant abroad are promptly referred for evaluation at a transplant centre, where the best available expertise and knowledge will be available to guarantee appropriate screening and care of these patients;
3. to ensure that specific guidelines and training for the evaluation and management of patients who have received an organ transplant abroad, particularly addressing infectious diseases, is provided to healthcare professionals at transplant centres;
4. to ensure that patients having received an organ transplant abroad receive the necessary medical

care upon their return to their home country, which should be the same as that provided to any other patient having received an organ transplant domestically;

5. to ensure that the same data routinely collected by healthcare professionals and recorded in national transplant registries on patients having received an organ transplant domestically, including long-term follow-up information, are also routinely collected for patients having received an organ transplant abroad;
6. to support and promote communication and collaboration between transplantation centres, and where relevant, health authorities from the country where the transplantation procedure took place and where the patient returns to receive follow-up care. While respecting the privacy of the patient and professional obligations to patients, in conformity with national and international data protection rules and other applicable legislation, the data to be shared should include at least the date of the procedure, city and hospital where the procedure took place and type of organ transplanted. This exchange would ensure transparency of practices, the establishment of links between the traceability and biovigilance systems of both countries and guarantee the best possible care is provided to the patient and, as relevant, to the living donor or to the recipients of other organs and tissues from the same deceased donor;
7. to increase awareness among healthcare professionals on organ trafficking and/or human trafficking for the purpose of organ removal and support the development of clear protocols to identify patients who may have received an organ transplant abroad in circumstances consistent with organ trafficking and/or human trafficking for the purpose of organ removal;
8. to develop a framework for healthcare and other professionals to communicate information about suspected or confirmed events of organ trafficking and/or human trafficking for the purpose of organ removal to the appropriate national authorities, while respecting their professional obligations to patients. The decision in a member State may range from developing legislation and mechanism that provide for a (voluntary or mandatory) non-anonymised reporting of detected or suspicious events to the appropriate national authorities, to a (voluntary or mandatory) reporting of anonymised data that reveals

- information on entities, hospital or professional engaged in illegitimate transplantation but not the identities of the patients concerned;
9. to take the necessary steps to ensure that national healthcare systems and/or insurance providers do not cover the costs of transplant procedures performed abroad involving organ trafficking and/or human trafficking for the purpose of organ removal;
10. to facilitate a comprehensive international collection of information by regularly reporting anonymised activity data on patients having received an organ transplant abroad to the Secretariat of the European Committee on Organ Transplantation (CD-P-TO) of the Council of Europe with a view to analysing and discussing such results within the CD-P-TO and informing member States.

Members of the European Committee (Partial Agreement) on Organ Transplantation (CD-P-TO)(23/05/2017)

Chair

HAASE-KROMWIJK Bernadette

Vice-Chair

PORTA Eliana

Members

AUSTRIA

ZUCKERMANN Andreas
FATTINGER Bernhard
WOREL Nina

BELGIUM

COLENBIE Luc
VANDEWALLE Giovani

BULGARIA

GICHEVA Maria
DOITCHINOVA-SIMEONOVA Maryana
AVRAMOVA Boryana

CROATIA

BUSIC Mirela
ANUSIC JURCIC Martina
GOBULIC CEPULIC Branka

CYPRUS

HADJIGAVRIEL Michalis

CZECH REPUBLIC

ADAMEC Miloš

DENMARK

ILKJAER Lars

ESTONIA

DMITRIEV Peeter
KAARE Ain

FINLAND

MAKISALO Heikki

FRANCE

LAOUABDIA-SELLAMI Karim
TESKRAT Fewzi

GERMANY

SIEPMANN Claudia
RAHMEL Axel
TONJES Ralf Reinhard

GREECE

BOLETIS John

HUNGARY

MIHALY Sandor

ICELAND

HEIMSDOTTIR Jorlaug

IRELAND

EGAN Jim
SHERIDAN Gerard

ITALY

NANNI COSTA Alessandro
COZZI Emanuele
CARELLA Claudia
MORRESI Assunta

LATVIA

JUSINSKIS Janis
LEJNIECE Sandra

LUXEMBURG

REMY Philippe

MALTA

ZARB ADAMI Joseph
ABELA Carmel
CALLEJA Paul

MONTENEGRO

RATKOVIC Marina

NORWAY

OYEN Ole

NETHERLANDS

BOKHORST Arlinke

POLAND

KAMINSKI Artur
CZERWINSKI Jaroslaw

PORTUGAL

FRANCA Ana
BOLOTINHA Catarina
PIRES DA SILVA Ana

REPUBLIC OF MOLDOVA

CODREANU Igor

ROMANIA

ZOTA Victor
TURCU Rosana Maria Cristina

SERBIA

LONCAR Zlatibor

SLOVAK REPUBLIC

ZILINKA Zuzana

SLOVENIA

AVSEC Danica

SPAIN

DOMINGUEZ-GIL Beatriz
MARAZUELA Rosario

SWEDEN

STROM Helena

SWITZERLAND

MOREL Philippe
IMMER Franz
VOLZ Alexandra

TURKEY

ILBARS Tuna
ATES Utku

UKRAINE

NYKONENKO Oleksandr
NYKONENKO Andriy

UNITED KINGDOM

DARK John

Observers

ARMENIA

SARKISSIAN Ashot
DAGHBASHYAN Smbat

BELARUS

RUMMO Oleg
LIASHCHUK Siarhei

CANADA

AGBANYO Francisca

DH-BIO (BIOETHICS COMMITTEE, COUNCIL OF EUROPE)

HALILA Ritva

DTI FOUNDATION

MANYALICH Marti

EATB (EUROPEAN ASSOCIATION OF TISSUE BANKS)

SANCHEZ IBANEZ Jacinto
HENNERBICHLER Simone

EUROPEAN EYE BANK ASSOCIATION (EEBA)

ARMITAGE John

ESOT (EUROPEAN SOCIETY FOR ORGAN TRANSPLANTATION)

FORSYTHE John
BERNEY Thierry

EUROPEAN COMMISSION

PUCINKAITE-KUBIK Ingrida
FEHILY Deirdre

EUROTRANSPLANT

BRANGER Peter

GEORGIA

TOMADZE Gia

HOLY SEE

Mgr RALLO Vito

ISRAEL

ASHKENAZI Tamar

RUSSIAN FEDERATION

GABBASOVA Lyalya
NIKOLAEV German

SAT (SOUTH-EUROPE ALLIANCE FOR TRANSPLANTS)

IMMER Franz

SCANDIATRANSPLANT

ERICZON Bo-Göran

TTS (THE TRANSPLANTATION SOCIETY)

DELMONICO Francis
KUYPERS Dirk

UNOS (UNITED NETWORK FOR ORGAN SHARING)

PRUETT Timothy

USA

WITTEN Celia

WHO (WORLD HEALTH ORGANISATION)

NUÑEZ Jose R.



Guide to the quality
and safety of
**ORGANS FOR
TRANSPLANTATION**

6th Edition
2016



**FREE
DOWNLOAD!**



go.edqm.eu/dl

Paper copies of these guides may be ordered from
www.edqm.eu/store

ISSN 2171-4118 / NIPO: 691-15-002-5

Free copies of the paper version of this Newsletter
can be ordered at <https://store.edqm.eu>



GOBIERNO
DE ESPAÑA

MINISTERIO
DE SANIDAD, SERVICIOS SOCIALES
E IGUALDAD



edqm
European Directorate | Direction européenne
for the Quality | de la qualité
of Medicines | du médicament
& HealthCare | & soins de santé

COUNCIL OF EUROPE

CONSEIL DE L'EUROPE