NEWSLETTER TRANSPLANT

International figures on donation and transplantation 2020



EDQM Volume 26 2021









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 2020.**

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NEWSLETTER TRANSPLANT 2021



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indefinitiopoletic progenitor cen donors

FOR THE PURPOSES OF THIS NEWSLETTER, THE FOLLOWING DEFINITIONS ARE USED:

ACTUAL DECEASED ORGAN DONOR

A deceased person from whom at least one organ was recovered for the purpose of transplantation.

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 cri-

Modified Maastricht Categories (Paris 2012) of DCD donors:

II/ Witnessed cardiac arrest (uncontrolled): Sudden unexpected irreversible cardiac arrest, with unsuccessful attempt at resuscitation by a medical team.

III/ Withdrawal of life-sustaining therapy (controlled DCD): Planned withdrawal of life-sustaining therapy with an expected cardiac arrest.

IV/ Cardiac arrest while brain dead (uncontrolled or controlled): Sudden or planned cardiac arrest after brain death diagnosis, but before organ recovery.

UTILISED DECEASED ORGAN DONOR

An actual donor from whom at least one organ was transplanted.

ORGAN TRANSPLANTS

The transfer (engraftment) of human organs from a donor to a recipient with the aim of restoring function (s) in the body.

TOTAL TRANSPLANTS (ALL COMBINATIONS INCLUDED)

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

One double-kidney transplant is counted as 1 transplant.

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: The donor is genetically and/or emotionally related to the recipient.

A1/ Genetically related: A genetic relation exists between donor and recipient (e.g. brother/sister, parent/offspring). Therefore, a certain immunological compatibility exists too.

A2/ Emotionally related: The donor is a genetically unrelated family member (e.g. spouse) of the recipient or a friend (to be considered as a family member).

B – Unrelated: The donor has no genetic or emotional relationship with the recipient. The relation between donor and recipient must be outlined further by a sub-specification. Immunological compatibility exists only by chance.

B1/ Paired exchange or cross-over: By a controlled programme, unrelated donor and recipient pairs exchange grafts beyond any emotional or genetic relation, with the aim of overcoming immunological restrictions.

B2/ Non-directed altruistic or anonymous: By a controlled programme, the donor can provide a graft to society which allocates this to a province of the programme of the defined rules.

this to a previously unknown recipient by defined rules.

B3/ Directed altruistic: By a controlled programme, the donor provides a graft to a recipient of the donor's choice.

Patient who undergoes organ transplantation from a deceased donor and whose organ is suitable for transplant to another transplant candidate.

DOMINO TRANSPLANT

A procedure in which an organ is removed from one transplant candidate and immediately transplanted into a second patient, with the first patient receiving a new organ from a deceased donor.

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

DOUBLE-LUNG TX.

One double-lung transplant is counted as 1 transplant.

TOTAL NUMBER OF PATIENTS TRANSPLANTED

The recipient of more than one organ (e.g. combined kidney-liver) is counted as one recipient.

PAFDIATRIC

Includes only paediatric activity (patients aged < 18 years).

WAITING LIST

Example: At 1/1/2020 there were 200 patients active on the waiting list (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 received an organ transplant, 50 patients remained 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 2020	100
Total number of patients ever active on the WL during 2020	300
Patients awaiting for a transplant (only active candidates) on 31/12/2020	50
Patients who died while on the WL during 2020	25

FAMILY REFUSALS

Numbers of interviews to pose the option of organ donation: Number of interviews to present families with the option of donating the organs of the deceased person.

Number of family refusals: Number of negative responses to donate after holding interviews with the families.

Letter from the Editor



Letter from the Editor

Beatriz Domínguez-Gil, MD, PhD Director Organización Nacional de Trasplantes, Spain Editor of Newsletter Transplant

Dear friends,

It is with pleasure that I introduce a new issue of the Newsletter Transplant, one of the most valuable tools produced by the European Committee of Organ Transplantation of the Council of Europe (CD-P-TO) in conjunction with the Spanish Organización Nacional de Trasplantes (ONT). Since 1996, this publication has allowed the CD-P-TO to share information on donation and transplantation activities in member states of the Council of Europe (CoE) - and beyond - and to present some of the projects developed by this committee, as well as other documents of relevance to the field. The Newsletter Transplant is in itself an opportunity to demonstrate the active contribution of the CD-P-TO to secure fundamental human rights and freedoms, as well as to increase organ availability, improve the effectiveness of transplantation systems and enhance the quality and safety of organs, tissues and cells for clinical use.

Without doubt, monitoring of practices in donation and transplantation of substances of human origin in member states is essential for the sake of transparency and international benchmarking. This is the main aim of the Newsletter Transplant and the reason it has become an international reference. In this new issue, the Newsletter Transplant provides data from more than 80 countries throughout the world for the year 2020. The information presented relates to organ donation and transplantation activities, management of the waiting lists, and transplant centres. Donation data are displayed by type of deceased donor (after neurological or circulatory determination of death, and Maastricht categories) and type of living donor (related or unrelated to the recipient, specified or unspecified). Data are also presented by age group and gender for both organ donors and recipients. Let me take this opportunity to remind you that the underlying data collection is also hosted by the Global Observatory on Organ Donation and Transplantation (http://www.transplantobservatory.org/), developed and maintained by the ONT by designation of the World Health Organization. The Observatory allows users to download the data and display figures and different types of analyses online.

Information presented in the *Newsletter Transplant* is not limited to the organ field, but also includes data collected via the Eurocet platform by the Centro Nazionale di Trapianti (CNT) in Italy on the donation, procurement, processing, distribution and clinical use of tissues and cells from a significant number of countries.

2020 was a highly complex year due to the COVID-19 pandemic, which unfortunately continues to have a profound impact on all countries in terms of health, social life and economic activities. Donation and transplantation programmes across the world have also suffered during this terrible pandemic, which has imposed major obstacles to these activities. To evaluate the precise impact of the COVID-19 health crisis on transplant programmes, this issue of the Newsletter Transplant displays a set of figures and tables that allows easy comparisons of organ donation and transplantation activities (by transplant type) in 2020 versus 2019, the pre-pandemic year, for a significant number of countries. The figures reveal that, although to a variable extent, the transplantation activity has decreased in most countries (by 18% globally), which identifies our patients as collateral victims of the COVID-19 pandemic. The positive message is that we have been able to make our programs co-exist with COVID-19 within a very short period of time, by increasing our knowledge about testing and selection of potential donors and recipients with regard to the infection caused by SARS-CoV-2, the impact of the disease on transplant recipients, the management of transplant programmes and the way we protect and treat our patients. International co-operation has been critical to these achievements. Thanks to these efforts, along with our commitment and continued work, we will hopefully be able to return to normal – and continue improving – in the years to come.

The CD-P-TO, through a number of initiatives, programmes and legal instruments, has over the years actively contributed to the development and implementation of quality and safety standards in the field of donation and transplantation, facilitating the exchange of knowledge between countries and institutions, securing fundamental rights and ensuring respect for the human body. I would like to remind you of the importance and usefulness of the technical guides in the fields of organs, tissues and cells that are regularly updated by ad hoc working groups. These are invaluable tools for regulators and health professionals throughout Europe and beyond. The Committee of Ministers of the CoE has recently adopted two recommendations, presented in this issue of the *Newsletter Transplant*, to recommend member states to take all necessary measures and steps to ensure that quality and safety standards in the fields of organs, tissues and cells are carried out in accordance with these two technical guides. The adoption of these recommendations by the CoE Committee of Ministers represents an acknowledgment of the important work carried out by the EDQM and the CoE in this area and provides the CD-P-TO and relevant ad hoc working groups with the legal basis to continue elaborating and updating these guides.

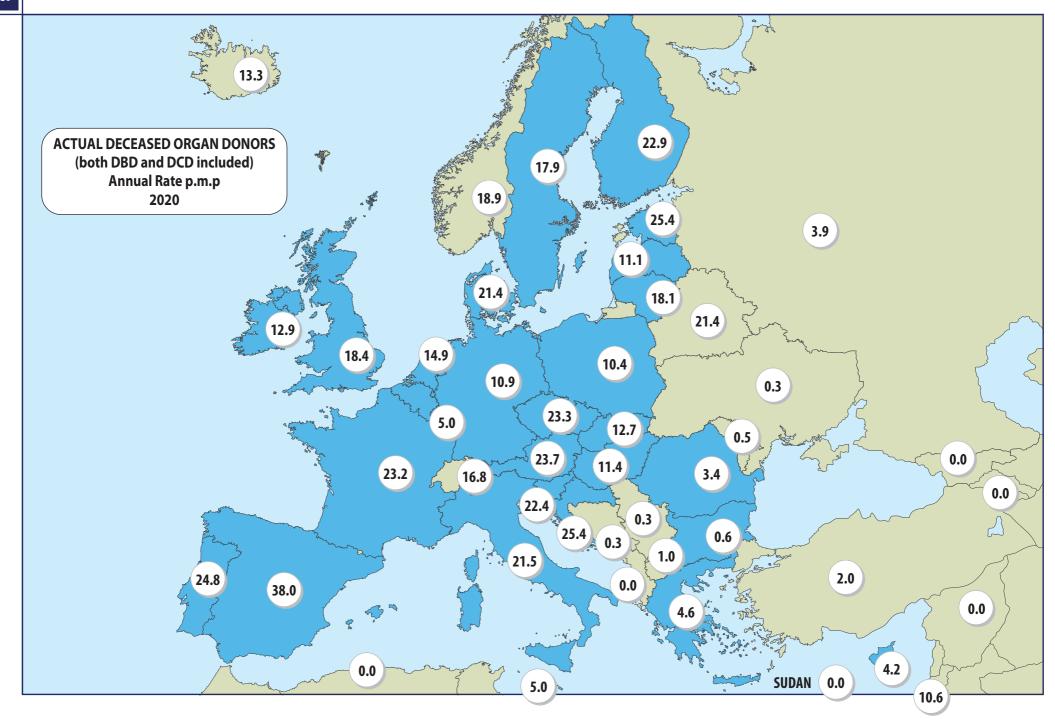
In addition, the CD-P-TO has continued to identify topics of interest and elaborate legal instruments in the field that have subsequently been adopted by the Committee of Ministers of the CoE. These documents have profoundly impacted national legislation, ethical frameworks, strategic plans on organisational aspects of donation and transplantation, and professional practices, supporting countries to address the many challenges posed by transplantation practices in a uniform manner. In this issue, we include a new recommendation to member states targeted at the protection of donors of haematopoietic progenitor cells. This recommendation provides guidance based on the most robust scientific evidence available to ensure harmonised protection measures for both related and unrelated donors. The new guidance addresses the screening and evaluation of potential donors, the short- and long-term postdonation follow-up, and the need to collect data to enable professionals in the field to learn from experience and maximise the safety of future donors.

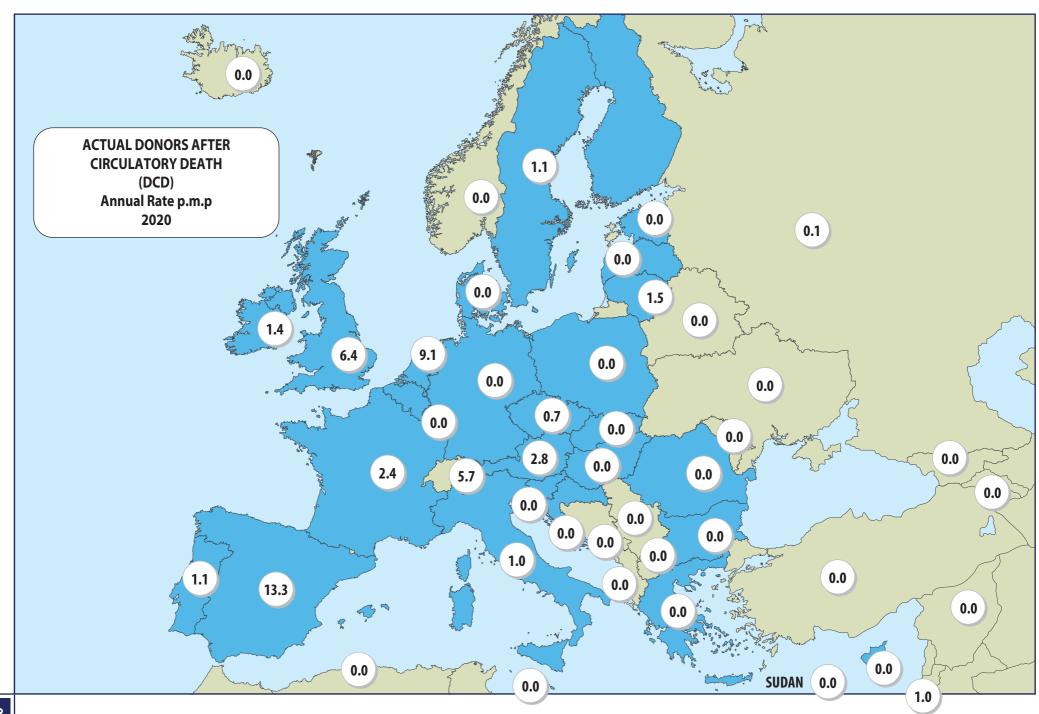
Please allow me to finish this letter by thanking all those who make the *Newsletter Transplant* possible members of the CD-P-TO, national focal points providing data on a regular basis and the EDQM Secretariat. Let me also thank the members of the ONT whose continuous work, commitment and enthusiasm are essential for an exercise that every year showcases the outcomes of the efforts undertaken all over the world in the fascinating field of transplantation.

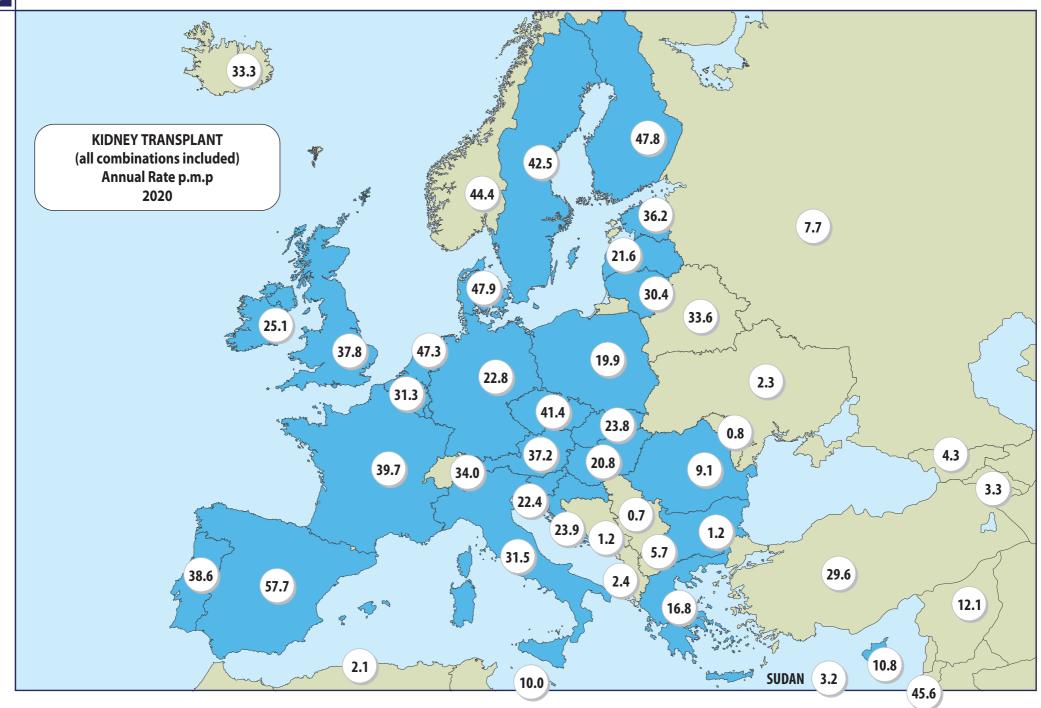


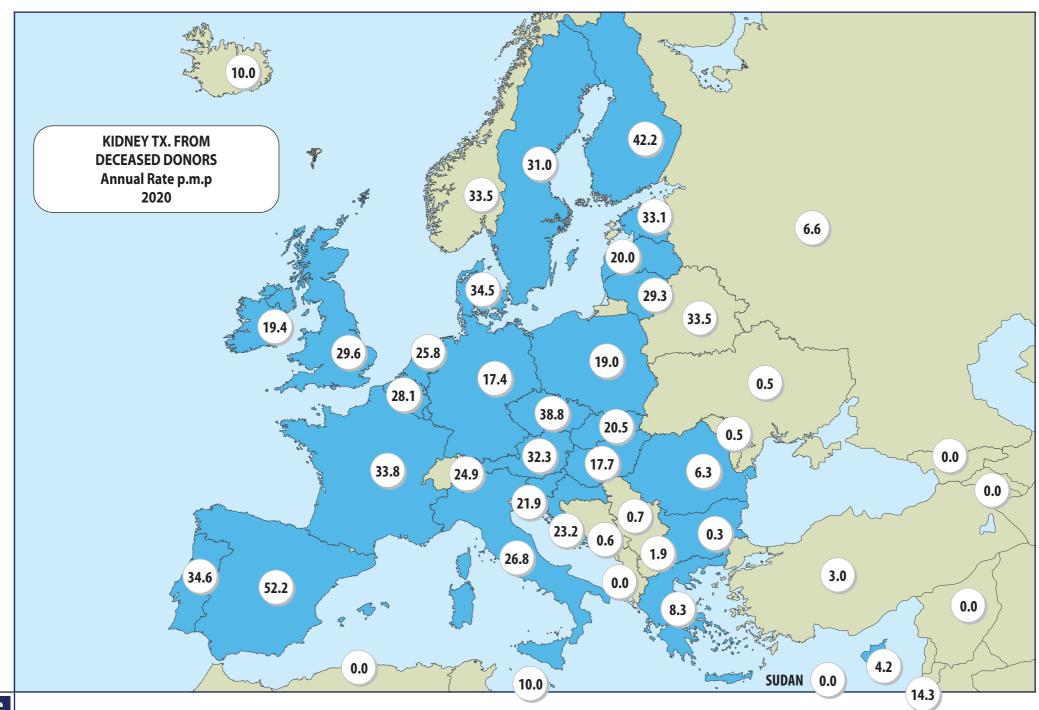
International Figures on Organ Donation and Transplantation Activity. Year 2020

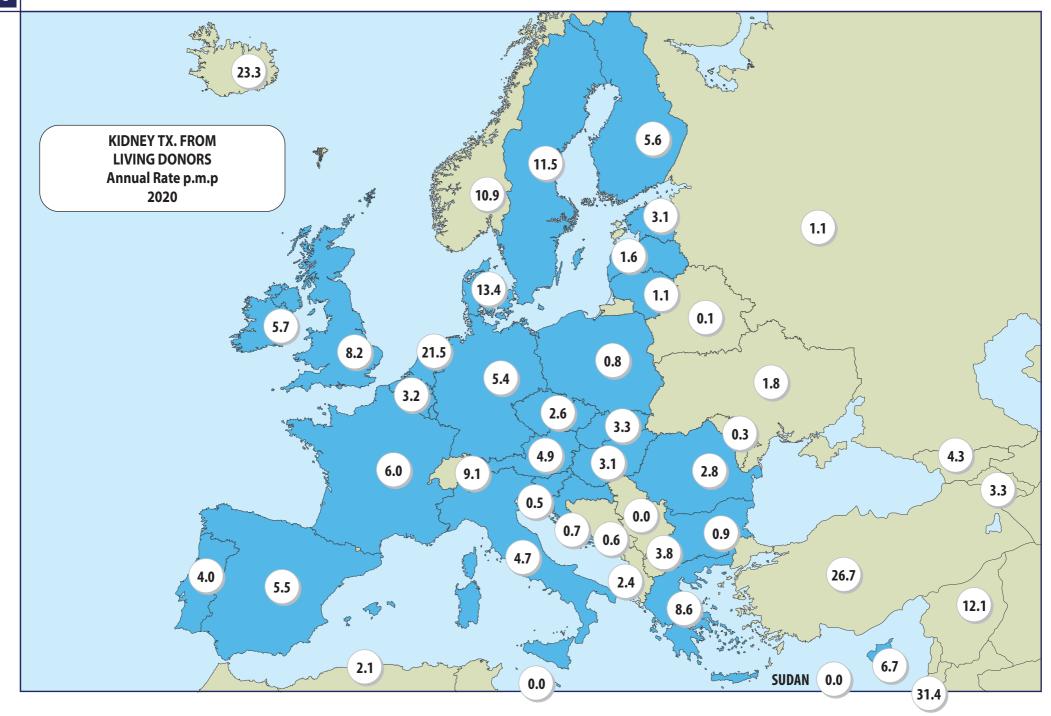


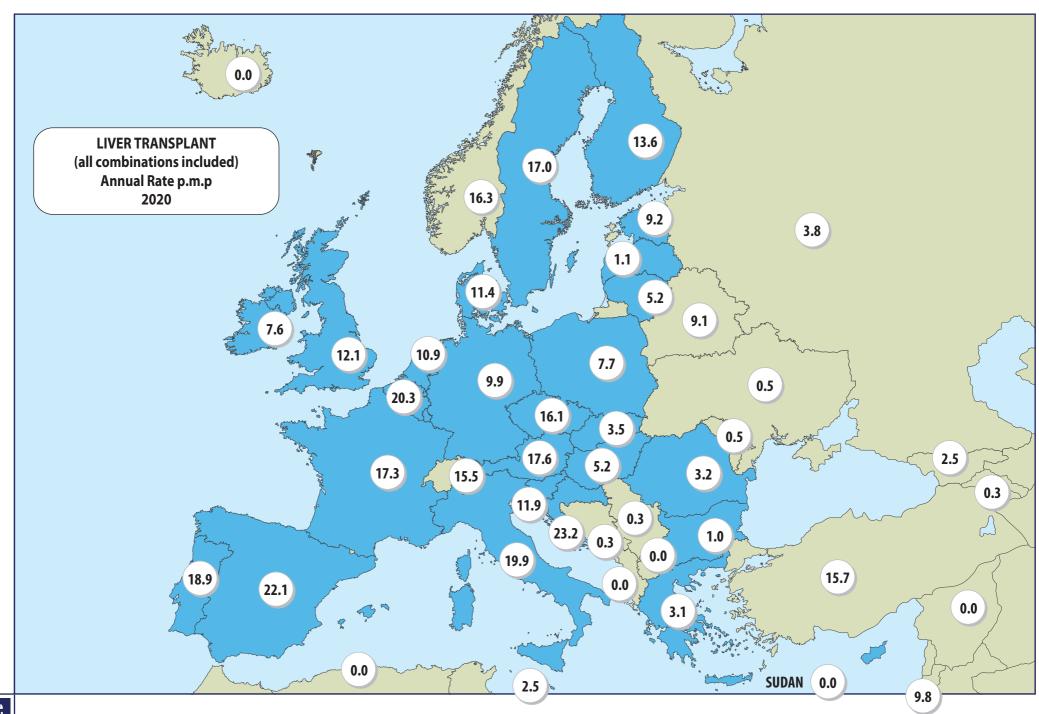


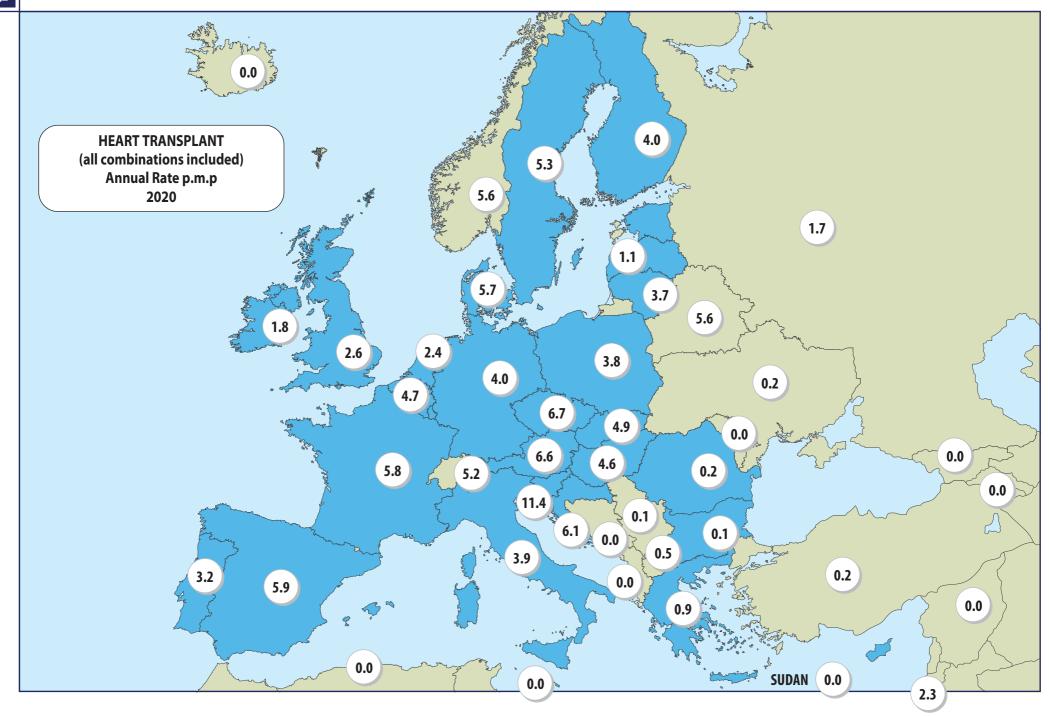


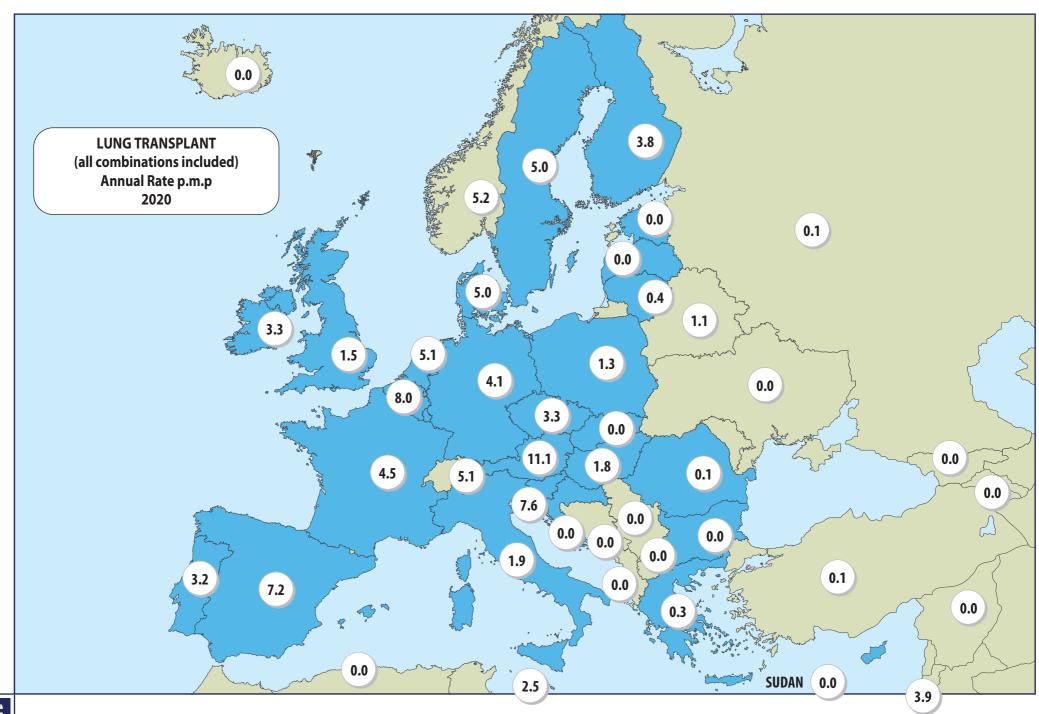


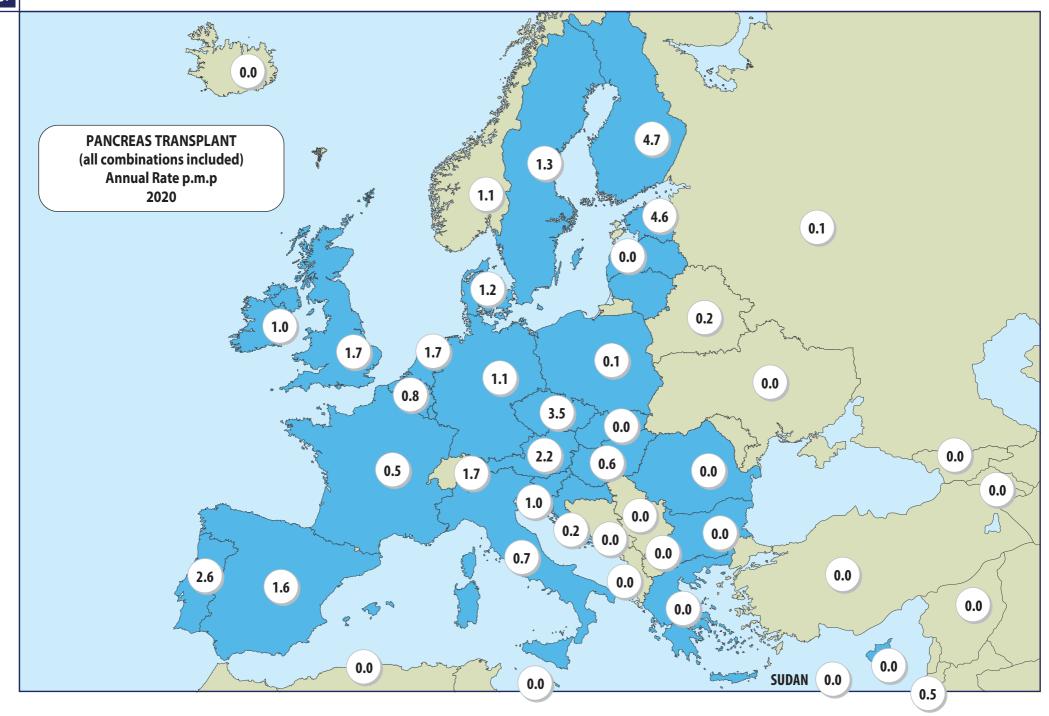


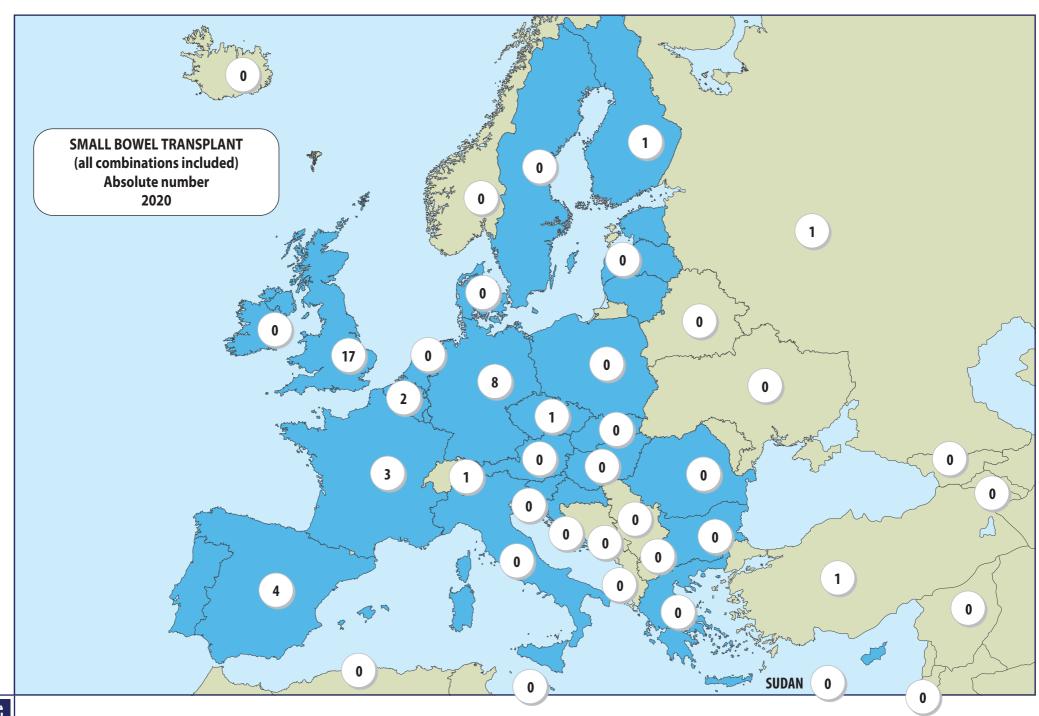


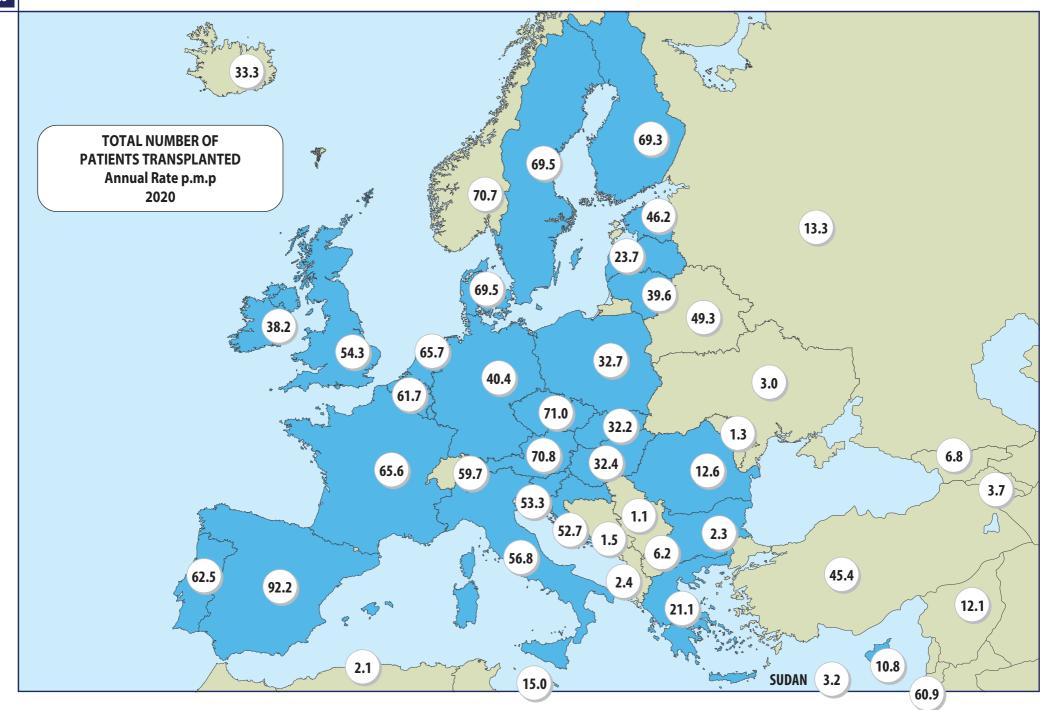












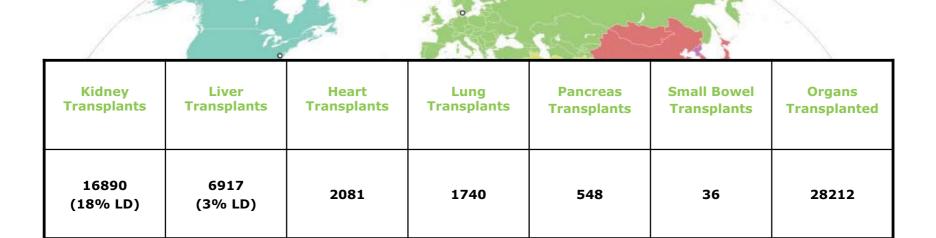








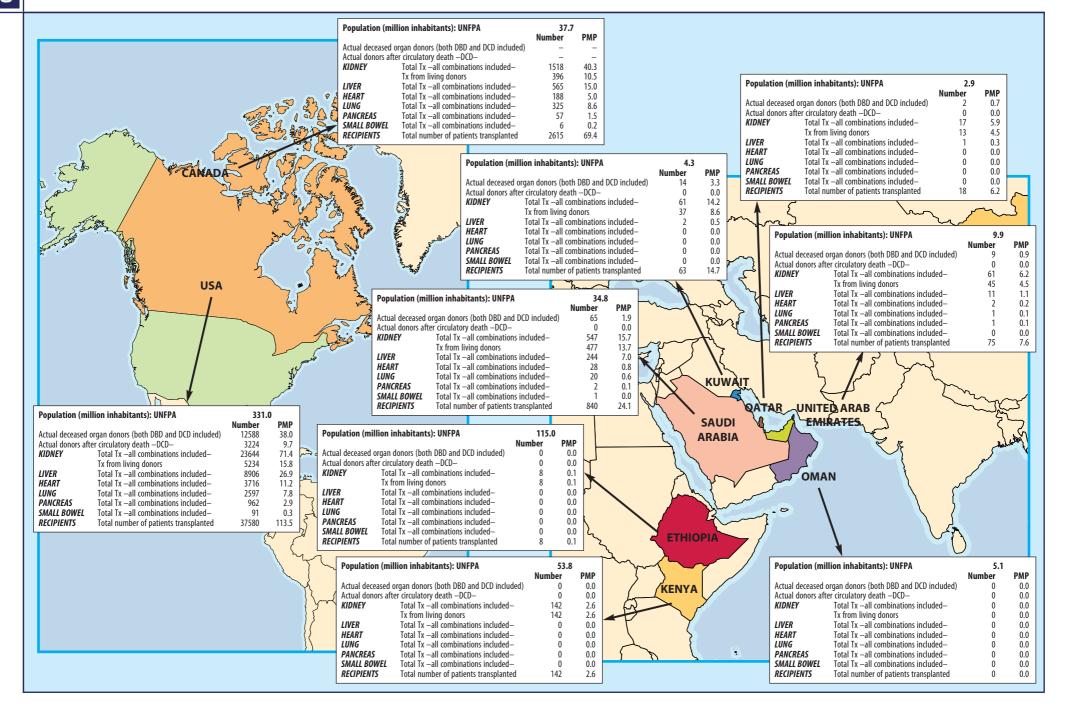
EUROPEAN UNION DATA

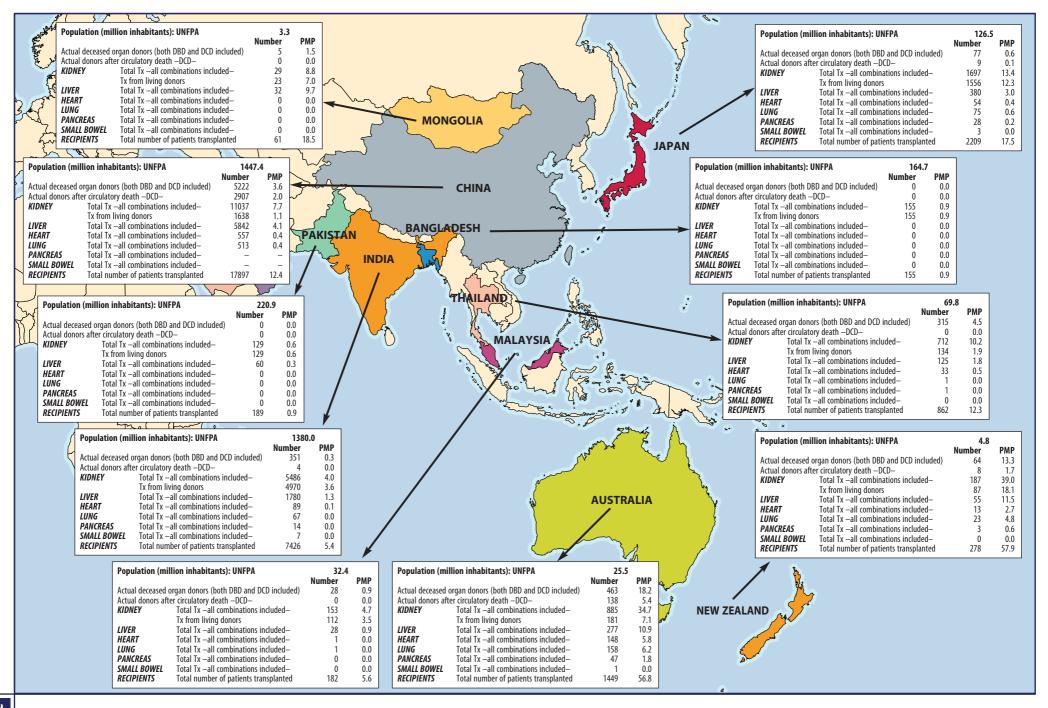


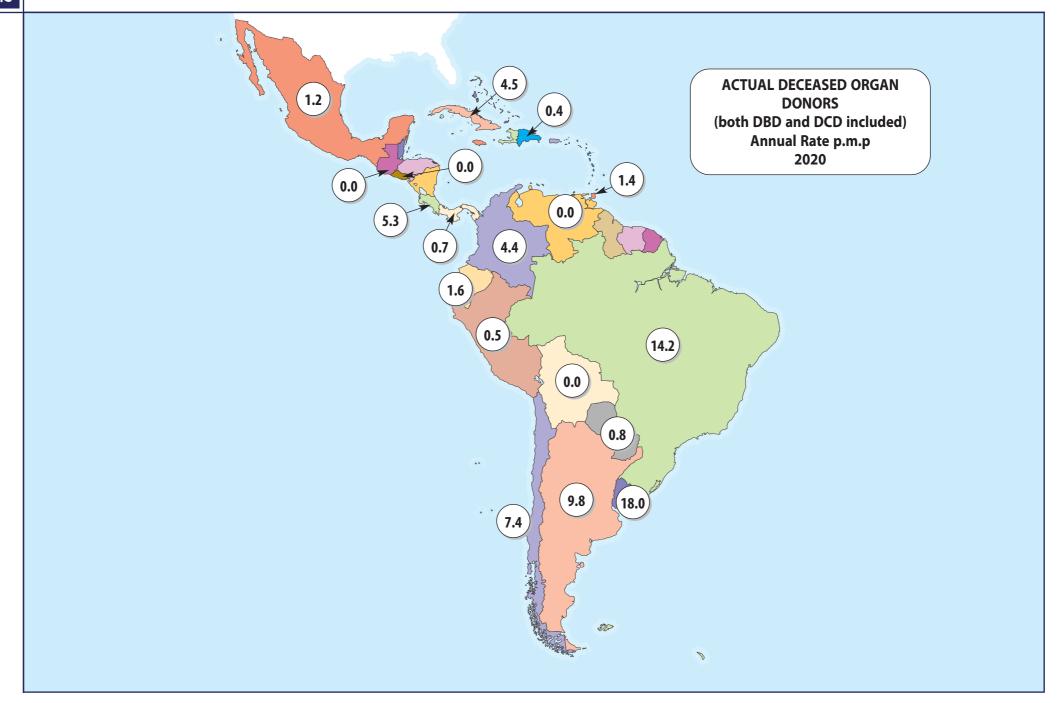
9447 ACTUAL DECEASED ORGAN DONORS (7833 DBD and 1614 DCD donors)

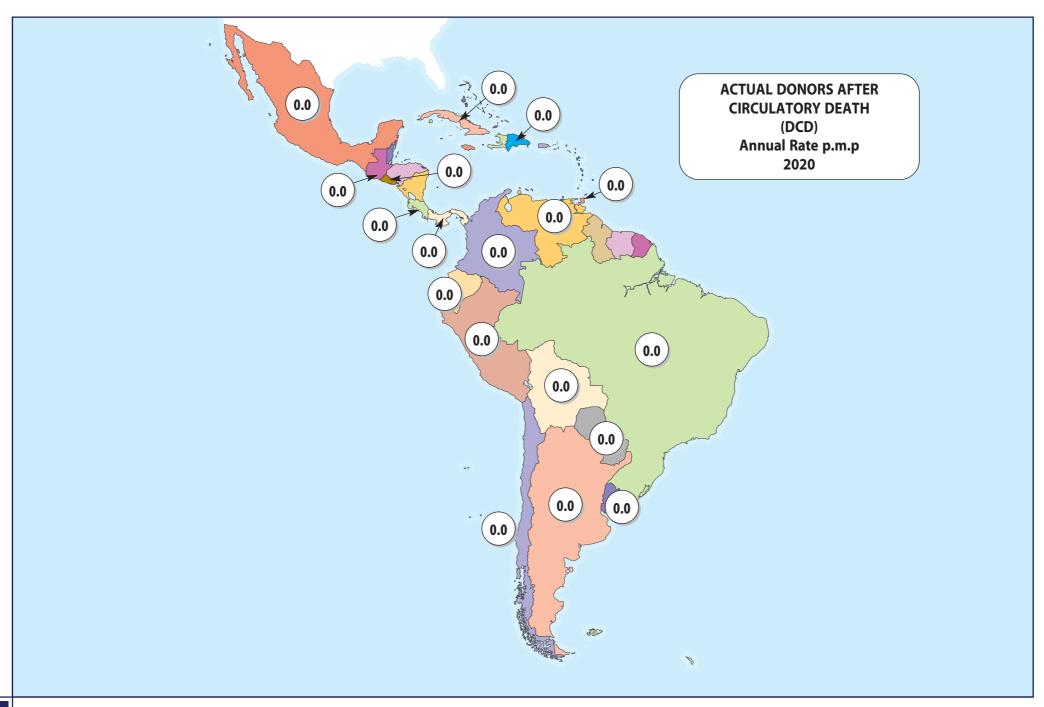
2020 data

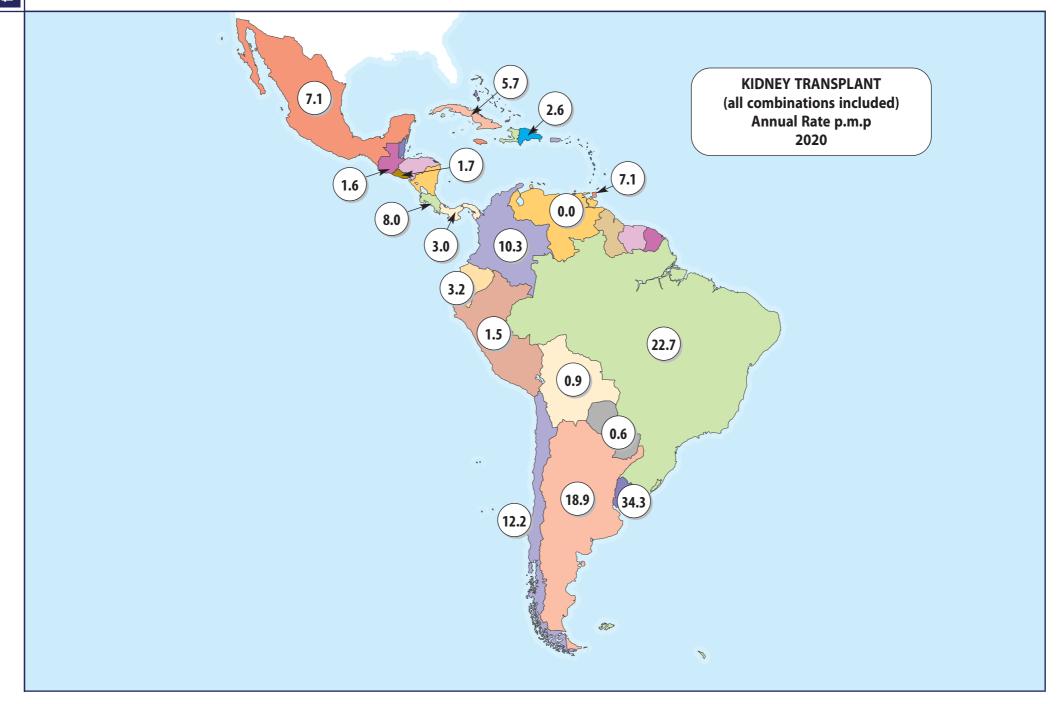
N= 28 COUNTRIES (513 million inhabitants)

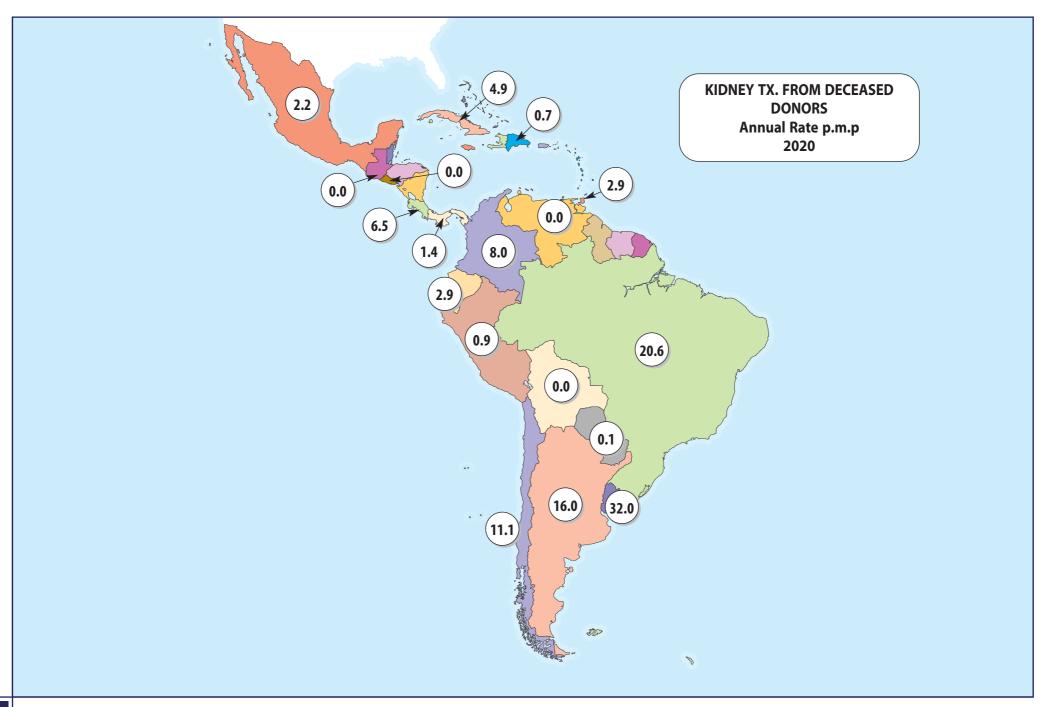


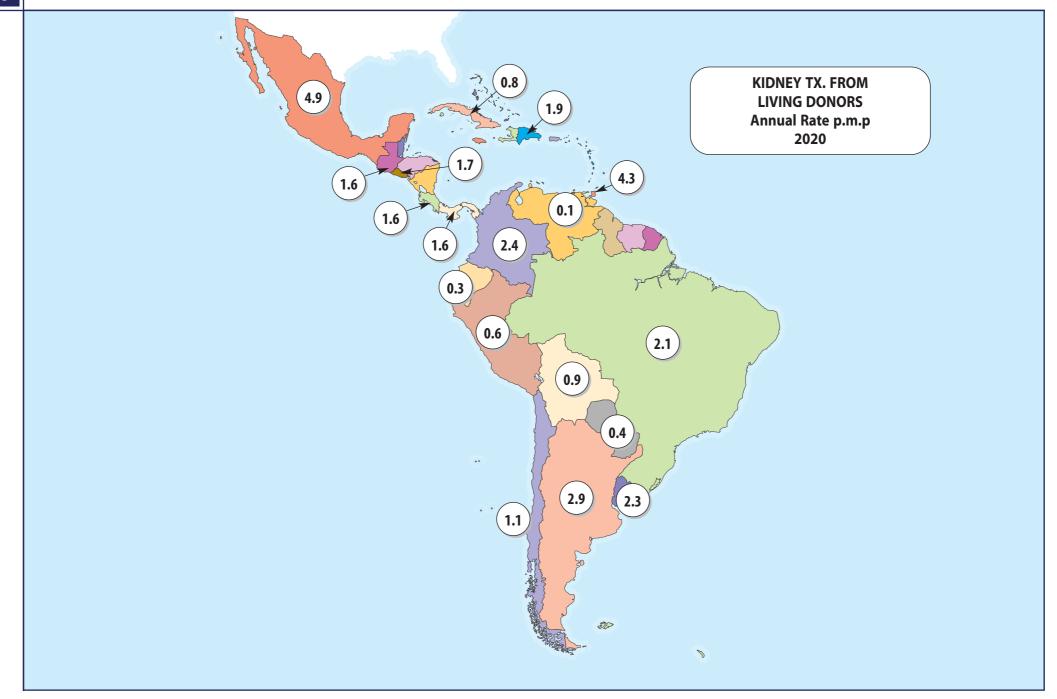


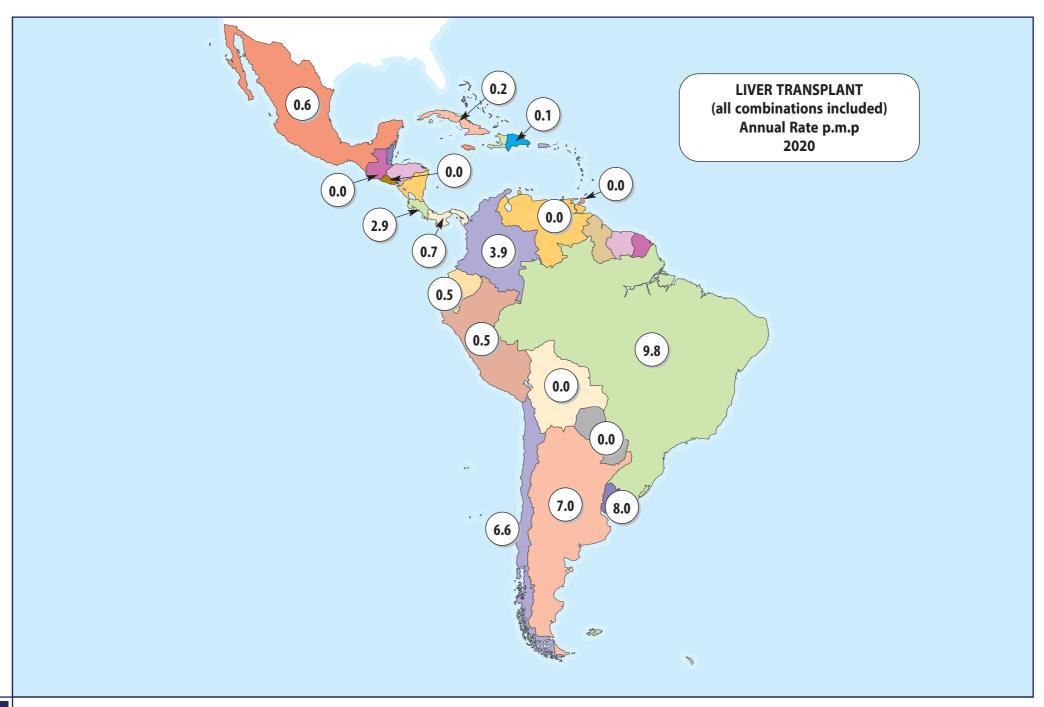


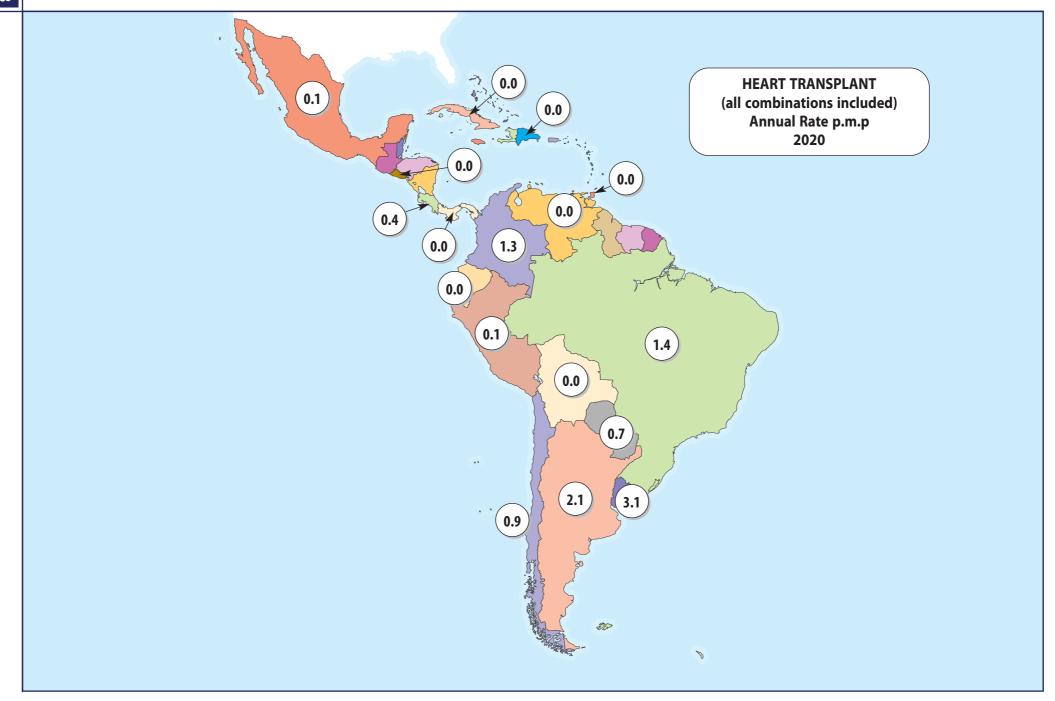


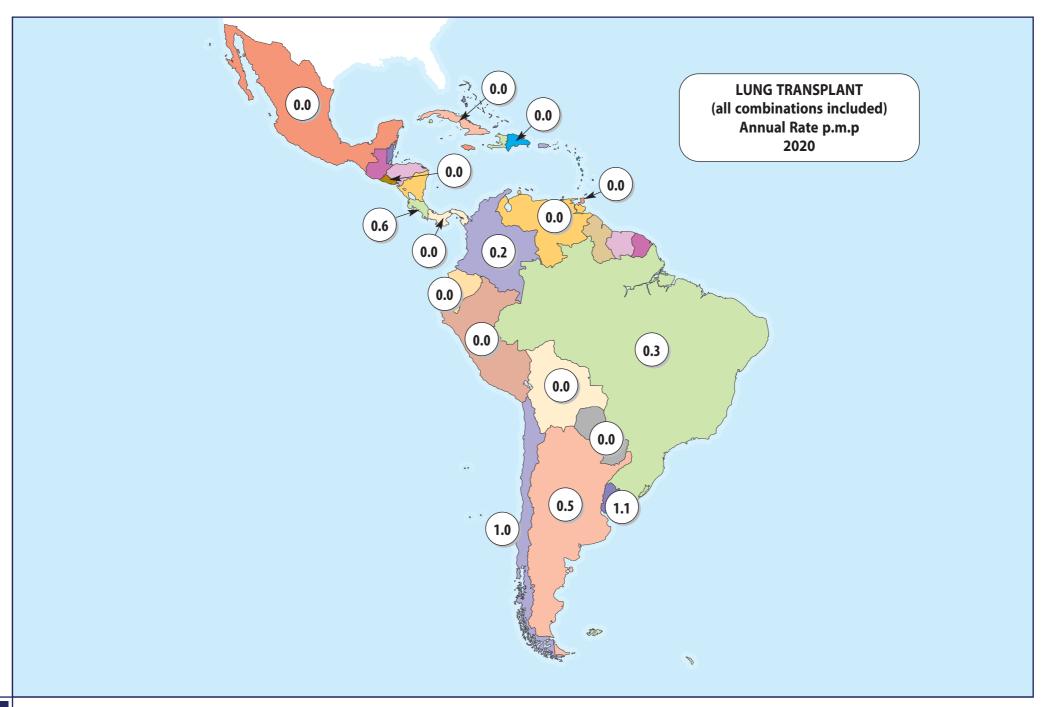


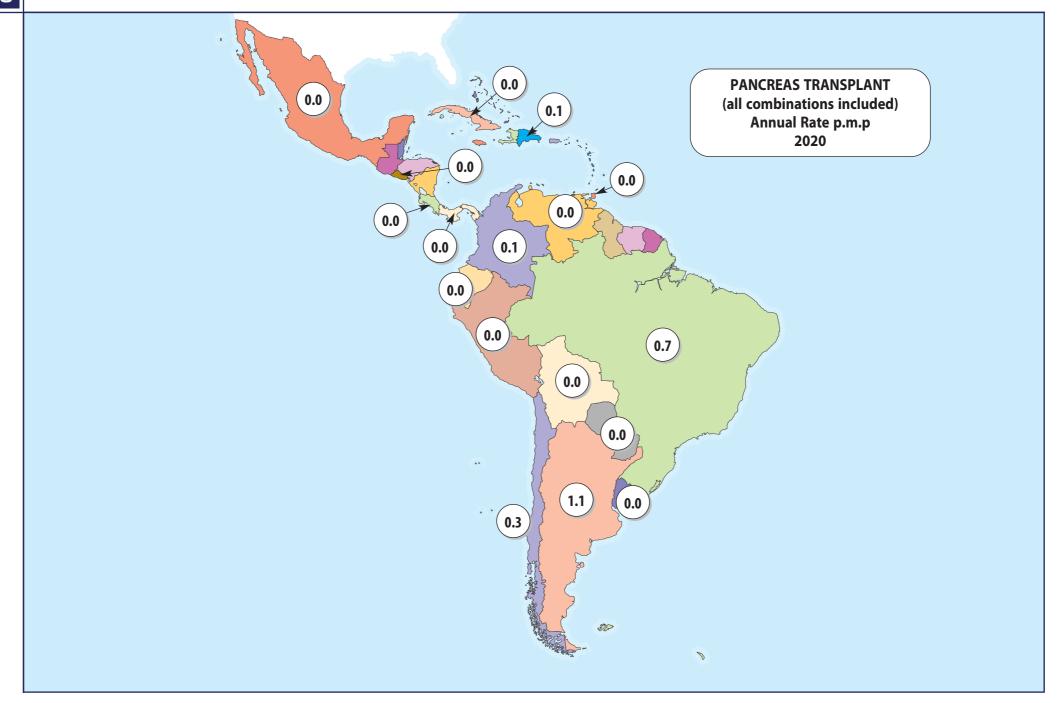


















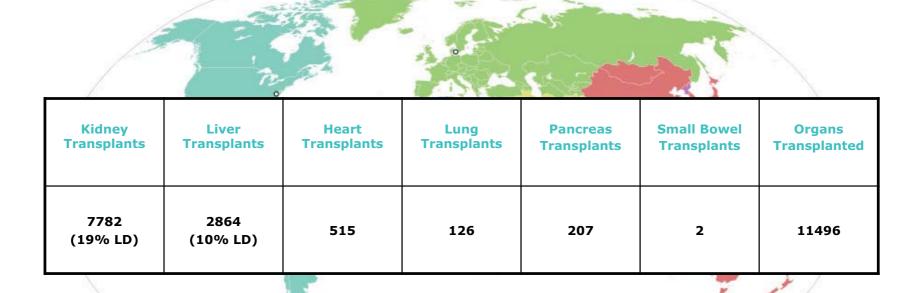








LATINAMERICAN COUNTRIES



4186 ACTUAL DECEASED ORGAN DONORS (4045 DBD and 0 DCD donors)

2020 data

N= 17 COUNTRIES (613,9 million inhabitants)



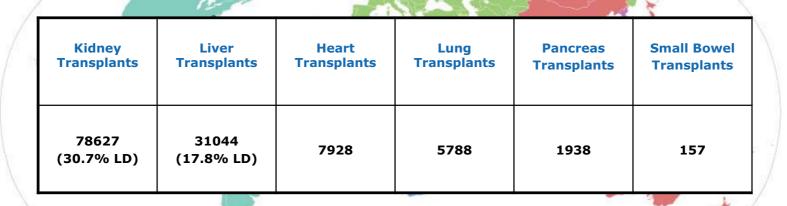








GLOBAL ACTIVITY IN ORGAN TRANSPLANTATION 2020 ESTIMATES



35368 deceased donors (27307 DBD and 8061 DCD donors)

Information of 90 Member States on organ transplantation activities (78.7% of the global population)



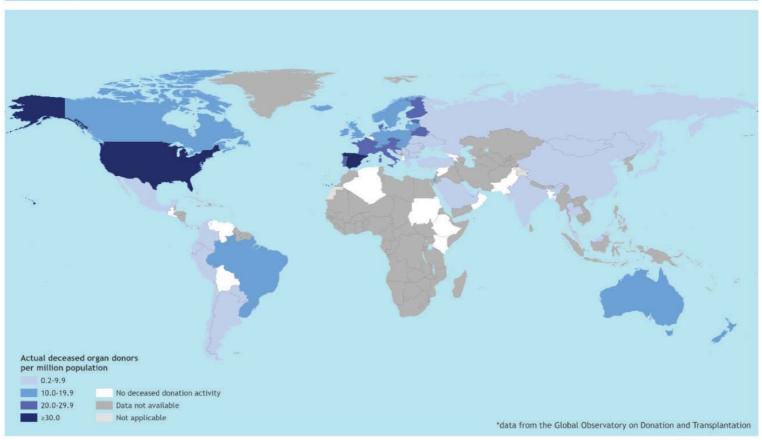




MINISTERIO DE SANIDAD



Actual donors from deceased persons, 2020*

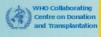


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Data Source: Global Observatory on Donation and Transplantation Map Production: WHO GIS Centre for Health, DNA/DDI





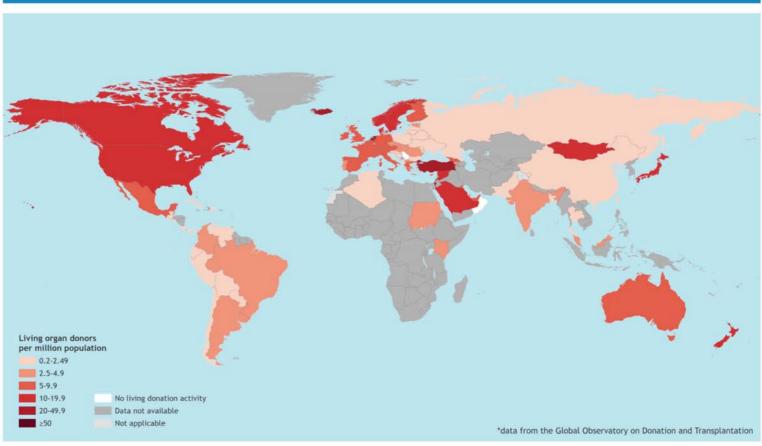




MINISTERIO DE SANIDAD



Living donation, 2020*



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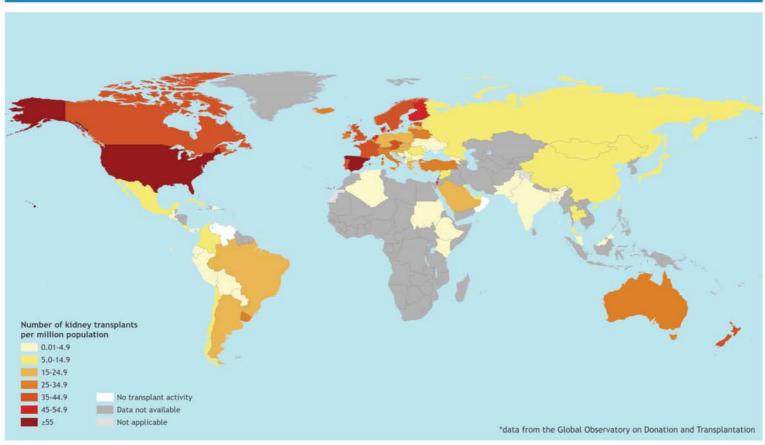








Kidney transplantation activities, 2020*



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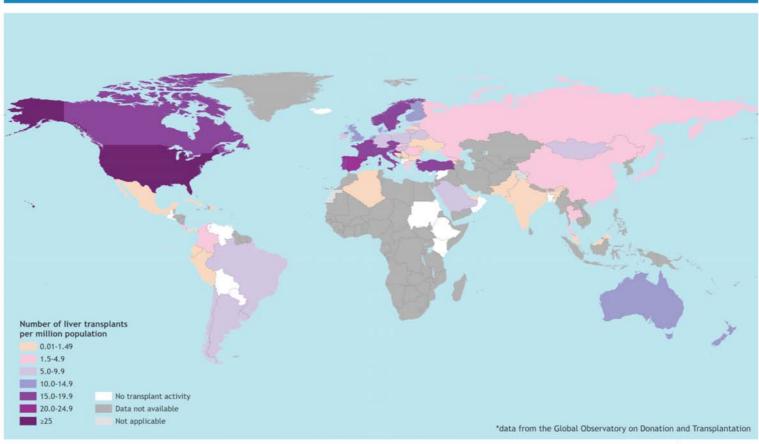








Liver transplantation activities, 2020*



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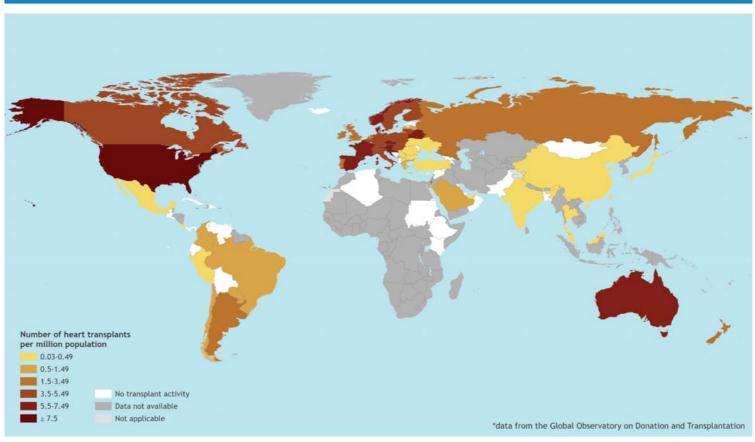








Heart transplantation activities, 2020*



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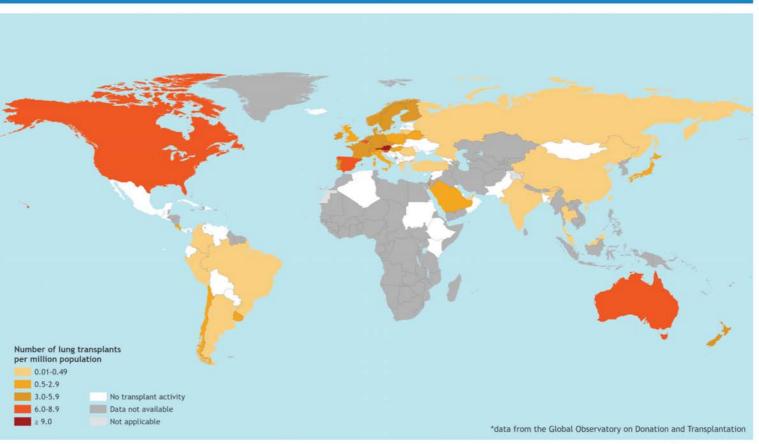








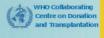
Lung transplantation activities, 2020*



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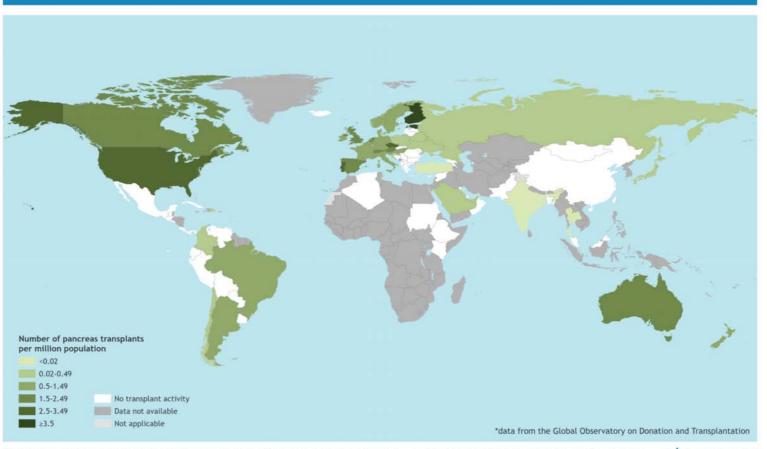








Pancreas transplantation activities, 2020*



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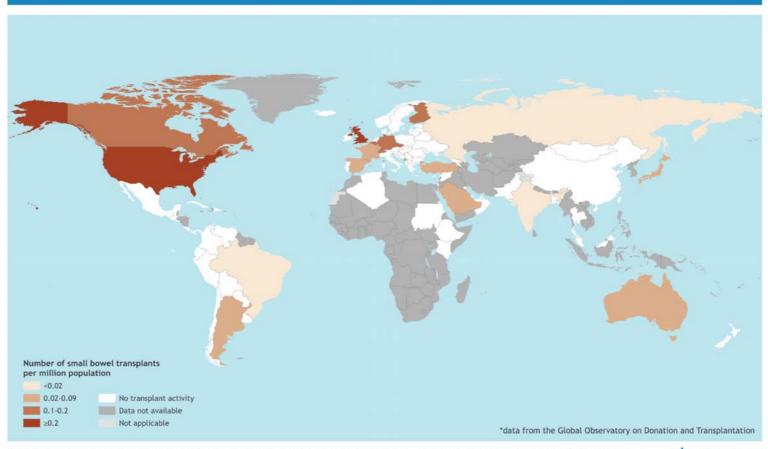








Small bowel transplantation activities, 2020*



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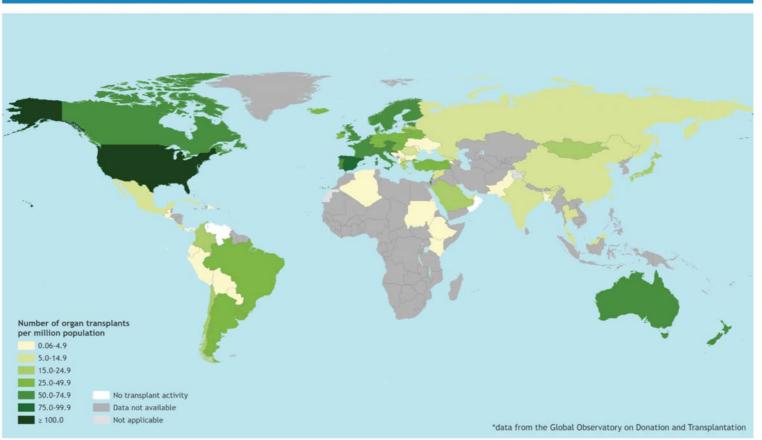








Global transplantation activities of solid organs, 2020*



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Data Source: Global Observatory on Donation and Transplantation Map Production: WHO GIS Centre for Health, DNA/DDI





International Data on Organ Donation and Transplantation Activity and Waiting List. Year 2020



							ONATIC	N ACT	IVITY											
						EURO	PEAN UN	IION C	OUNTRIE	S										
COUNTRIES	Aus	tria	Belg	jium	Bul	garia	Croa	ıtia	Сурі	us	Czech Re	public	Denn	nark	Esto	nia	Finl	and	Fran	ıce
Population (million inhabitants): UNFPA	9.	.0	11	.6		5.9	4.	1	1.2	2	10.	7	5.8	В	1.3	3	5.	.5	65.	.3
	l		I				DON	IATION			l		ĺ		l		ĺ		ĺ	
Actual deceased organ donors	Number	PMP	Number	PMP	Numbe	r PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors																				
(both DBD and DCD included)	213	23.7			4	0.6	104	25.4	5	4.2	249	23.3	124	21.4	33	25.4	126	22.9	1512	23.2
Actual deceased donors (men)	127	14.1			2	0.3	50	12.2	4	3.3	164	15.3	62	10.7	26	20.0	72	13.1	880	13.5
Actual deceased donors (> 60 years)	88	9.8			1	0.1	62	15.1	0	0.0	77	7.2	54	9.3	9	6.9	68	12.4	719	11.0
Actual donors after circulatory death (DCD)	25	2.8			0	0.0	0	0.0	0	0.0	8	0.7	0	0.0	0	0.0	0	0.0	157	2.4
II/ Witnessed cardiac arrest (uncontrolled)	4	0.4									0	0.0							6	0.1
III/ Withdrawal of life-sustaining therapy (controlled)	21	2.3									8	0.7							151	2.3
IV/ Cardiac arrest while brain dead	0	0.0									0	0.0							0	0.0
Utilised deceased organ donors																				
Utilised deceased organ donors																				
(both DBD and DCD included)	188	20.9	274	23.62	4	0.6	97	23.7	5	4.2	226	21.1	121	20.9	33	25.4	121	22.0	1474	22.6
Utilised deceased donors (men)	108	12.0			2	0.3	47	11.5	4	3.3	145	13.6	59	10.2	26	20.0	67	12.2	855	13.1
Utilised deceased donors (> 60 years)	77	8.6			1	0.1	55	13.4	0	0.0	54	5.0	52	9.0	9	6.9	63	11.5	694	10.6
Utilised donors after circulatory death (DCD)	15	1.7	118	10.2	0	0.0	0	0.0	0	0.0	6	0.6	0	0.0	0	0.0	0	0.0	152	2.3
II/ Witnessed cardiac arrest (uncontrolled)	0	0.0									0	0.0							5	0.1
III/ Withdrawal of life-sustaining therapy (controlled)	15	1.7									6	0.6							147	2.3
IV/ Cardiac arrest while brain dead	0	0.0									0	0.0							0	0.0
Living organ donors																				
Total living kidney donors	44	4.9	37	3.2	6	0.9	3	0.7	8	6.7	28	2.6	78	13.4	4	3.1	31	5.6	390	6.0
Living Kidney donors (men)	11	1.2			5	0.7	0	0.0	6	5.0	13	1.2	31	5.3	0	0.0	7	1.3	157	2.4
Total living liver donors	8	0.9	21	1.8	5	0.7	1	0.2	0	0.0	0	0.0	3	0.5	0	0.0	0	0.0	16	0.2
Living liver donors (men)	2	0.2			2	0.3	1	0.2					1	0.2					11	0.2
Total domino liver 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	1	0.0
Domino liver donors (men)																			0	0.0
Total living lung 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
Living lung donors (men)																				

						DONA'	TION ACT	IVITY										
					EUR	OPEAN	UNION C	OUNTR	IES									
COUNTRIES	Germa	ny	Gree	ce	Hung	ary	Irela	nd	lta	ly	Latvi	ia	Lithua	ania	Luxemb	ourg	Malt	ta
Population (million inhabitants): UNFPA	883.8	3	10.4	1	9.		4.9	9	60	.5	1.9)	2.7	,	0.6		0.4	L
Topulation (minion miniastratio), over 7.	005.1	•		•													0.1	
						U	ONATION											
Actual deceased organ donors	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors																		
(both DBD and DCD included)	913	10.9	48	4.6	111	11.4	63	12.9	1303	21.5	21	11.1	49	18.1	3	5.0	2	5.0
Actual deceased donors (men)	459	5.5	29	2.8	65	6.7	37	7.6	710	11.7	13	6.8	29	10.7	3	5.0	0	0.0
Actual deceased donors (> 60 years)	396	4.7	19	1.8	22	2.3	10	2.0	729	12.0	1	0.5	13	4.8	0	0.0	0	0.0
Actual donors after circulatory death (DCD)	0	0.0	0	0.0	0	0.0	7	1.4	63	1.0	0	0.0	4	1.5	0	0.0	0	0.0
II/ Witnessed cardiac arrest (uncontrolled)							0	0.0	17	0.3			3	1.1				
III/ Withdrawal of life-sustaining therapy (controlled)							7	1.4	45	0.7			0	0.0				
IV/ Cardiac arrest while brain dead							0	0.0	1	0.0			1	0.4				
Utilised deceased organ donors																		
Utilised deceased organ donors																		
(both DBD and DCD included)	887	10.6	46	4.4	108	11.1	60	12.2	1235	20.4	20	10.5	49	18.1	3	5.0	2	5.0
Utilised deceased donors (men)	447	5.3	28	2.7	63	6.5	32	6.5	673	11.1	12	6.3	29	10.7	3	5.0	0	0.0
, ,							9				0				0		0	
Utilised deceased donors (> 60 years)	373	4.5	17	1.6	21	2.2		1.8	680	11.2		0.0	13	4.8		0.0		0.0
Utilised donors after circulatory death (DCD)	0	0.0	0	0.0	0	0.0	7	1.4	53	0.9	0	0.0	4	1.5	0	0.0	0	0.0
II/ Witnessed cardiac arrest (uncontrolled)							0 7	0.0 1.4	10 42	0.2 0.7			3	1.1				
III/ Withdrawal of life-sustaining therapy (controlled) IV/ Cardiac arrest while brain dead							0	0.0	1 42	0.7			1	0.0 0.4				
IV/ Cardiac arrest write brain dead							U	0.0		0.0			'	0.4				
Living organ donors																		
Total living kidney donors	450	5.4	89	8.6	30	3.1	28	5.7	284	4.7	3	1.6	3	1.1			0	0.0
Living Kidney donors (men)	174	2.1	29	2.8	9	0.9	11	2.2	91	1.5	3	1.6	1	0.4				
Total living liver donors	52	0.6	0	0.0	0	0.0	0	0.0	19	0.3	0	0.0	0	0.0			0	0.0
Living liver donors (men)	28	0.3							11	0.2								
Total domino liver donors	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0			0	0.0
Domino liver donors (men)									1	0.0								
Total living lung 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
Living lung donors (men)																		

						DONA	TION ACT	IVITY										
					EUR	OPEAN	UNION C	OUNTR	IES									
COUNTRIES	Nether	lands	Polan	ıd	Portu	gal	Roma	nia	Slova	ıkia	Slove	nia	Spai	n	Swed	len	United Ki	ingdom
Population (million inhabitants): UNFPA	17.	1	37.8	.	10.2	2	19.2	2	5.5	5	2.1		46.8	3	10.	1	67.	.9
	1				1 3 3 3		ONATION								131			
																	_	
Actual deceased organ donors	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors																		
(both DBD and DCD included)	255	14.9	393	10.4	253	24.8	66	3.4	70	12.7	47	22.4	1777	38.0	181	17.9	1248	18.4
Actual deceased donors (men)	135	7.9	268	7.1	143	14.0	38	2.0	41	7.5	23	11.0	1015	21.7	97	9.6		
Actual deceased donors (> 60 years)	105	6.1	105	2.8	113	11.1	21	1.1	17	3.1	24	11.4	957	20.4	91	9.0	377	5.6
Actual donors after circulatory death (DCD)	155	9.1	0	0.0	11	1.1	0	0.0	0	0.0	0	0.0	621	13.3	11	1.1	434	6.4
II/ Witnessed cardiac arrest (uncontrolled)					11	1.1							17	0.4	0	0.0	0	0.0
III/ Withdrawal of life-sustaining therapy (controlled)					0	0.0							603	12.9	11	1.1	423	6.2
IV/ Cardiac arrest while brain dead					0	0.0							1	0.0	0	0.0	11	0.2
Utilised deceased organ donors																		
-																		
Utilised deceased organ donors (both DBD and DCD included)	251	14.7	387	10.2	236	23.1	66	3.4	67	12.2	39	18.6	1581	33.8	174	17.2	1180	17.4
											20						1100	17.4
Utilised deceased donors (men)	133	7.8	264	7.0	136	13.3	38	2.0	39	7.1		9.5	901	19.3	95	9.4		
Utilised deceased donors (> 60 years)	102	6.0	100	2.6	101	9.9	21	1.1	16	2.9	16	7.6	806	17.2	85	8.4	337	5.0
Utilised donors after circulatory death (DCD)	151	8.8	0	0.0	10	1.0	0	0.0	0	0.0	0	0.0	546	11.7	11	1.1	400	5.9
II/ Witnessed cardiac arrest (uncontrolled)					10	1.0							10	0.2	0	0.0	0	0.0
III/ Withdrawal of life-sustaining therapy (controlled)					0	0.0							535	11.4	11	1.1	389	5.7
IV/ Cardiac arrest while brain dead					0	0.0							1	0.0	0	0.0	11	0.2
Living organ donors																		
Total living kidney donors	367	21.5	31	0.8	41	4.0	53	2.8	18	3.3	1	0.5	259	5.5	116	11.5	558	8.2
Living Kidney donors (men)			9	0.2	12	1.2			7	1.3	1	0.5	80	1.7	42	4.2	282	4.2
Total living liver donors	24	1.4	28	0.7	1	0.1	8	0.4	0	0.0	0	0.0	11	0.2	0	0.0	22	0.3
Living liver donors (men)			7	0.2	0	0.0							3	0.1			9	0.1
Total domino liver donors			0	0.0	3	0.3	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0
Domino liver donors (men)					0	0.0											1	0.1
Total living lung 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
Living lung donors (men)																		

							DO	NATIC	ON AC	TIVIT	Y													
							0	THER (COUN	TRIES														
COUNTRIES	Albai	nia	Algeria	А	Armenia	Aus	tralia	Bangl	adesh	Beli	arus	Bosr and Herzeg	d	Canada	Chiı	na	Ethi	opia	Georg	jia	Icel	and	Ind	ia
Population (million inhabitants): UNFPA	2.9)	43.9		3.0	2	5.5	164	4.7	9	.4	3.3	3	37.7	1447	7.4	11:	5.0	4.0		0.	.3	138	0.0
								DON	IATIO	N														
Actual deceased organ donors	Number	PMP	Number PM	P Nun	nber PMF	Numbe	er PMP	Numbe	r PMP	Numbe	er PMP	Number	PMP	Number PMP	Number	PMP	Numbe	r PMP	Number	PMP	Numbe	r PMP	Numbe	r PMP
Actual deceased organ donors																								
(both DBD and DCD included)	0	0.0	0 0.	0	0.0	463	18.2	0	0.0	201	21.4	1	0.3		5222	3.6	0	0.0	0	0.0	4	13.3	351	0.3
Actual deceased donors (men)						280	11.0			118	12.6	1	0.3		4224	2.9					2	6.7	242	0.2
Actual deceased donors (> 60 years)						111	4.4			22	2.3	0	0.0		633	0.4					3	10.0	58	0.0
Actual donors after circulatory death (DCD)						138	5.4			0	0.0	0	0.0		2907	2.0					0	0.0	4	0.0
II/ Witnessed cardiac arrest (uncontrolled)																							4	0.0
III/ Withdrawal of life-sustaining therapy (controlled)															0.57	0.5							0	0.0
IV/ Cardiac arrest while brain dead															857	0.6							0	0.0
Heller of decrees decrees																								
Utilised deceased organ donors																								
Utilised deceased organ donors (both DBD and DCD included)	0	0.0	0 0.	0 0	0.0	440	17.3	0	0.0	192	20.4	1	0.3	734 19.5	5185	3.6	0	0.0	0	0.0	4	13.3	348	0.3
		0.0	0 0.		0.0				0.0			-		734 19.5				0.0		0.0				
Utilised deceased donors (men)						265	10.4			110	11.7	1	0.3		4200	2.9					2	6.7	241	0.2
Utilised deceased donors (> 60 years)						105	4.1			19	2.0	0	0.0		625	0.4					3	10.0	57	0.0
Utilised donors after circulatory death (DCD)						128	5.0			0	0.0	0	0.0	196 5.2	2882	2.0					0	0.0	4	0.0
II/ Witnessed cardiac arrest (uncontrolled)																							4	0.0
III/ Withdrawal of life-sustaining therapy (controlled) IV/ Cardiac arrest while brain dead															852	0.6							0	0.0
Living organ donors																								
Total living kidney donors	7	2.4	91 2.	1 10	3.3	181	7.1	155	0.9	1	0.1	2	0.6	396 10.5	1638	1.1	8	0.1	17	4.3	7	23.3	4970	3.6
Living Kidney donors (men)	1	0.3	35 0.	5	1.7	124	4.9	44	0.3	0	0.0				543	0.4	6	0.1	11	2.8	4	13.3	1618	1.2
Total living liver donors	0	0.0	2 0.		0.3		0.0	0	0.0	7	0.7	0	0.0	91 2.4	874	0.6	0	0.0	10	2.5	0	0.0	1489	1.1
Living liver donors (men)			1 0.		0.0		0.0			4	0.4				388	0.3			6	1.5			657	0.5
Total domino liver donors Domino liver donors (men)	0	0.0	0 0.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		13	0.0	0	0.0	0	0.0	0	0.0	2	0.0
Total living lung 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	0.0
Living lung donors (men)					3.0		2.0							0.0				5						2.0

								DO	NATIO	N AC	TIVIT	Υ													
								0	THER C	OUN	TRIES	;													
COUNTRIES	Isr	ael	Japa	an	Ken	ya	Kuw	<i>r</i> ait	Mala	ysia	Mon	golia		ew land	Non	way	Om	an	Paki	stan	Qatar		Rep. of Ioldova	No	p. of orth edonia
Population (million inhabitants): UNFPA	8	.7	126	.5	53.	8	4.	3	32	.4	3	.3	4	.8	5.	4	5.	1	220	0.9	2.9		4.0	2	2.1
									DON	ATIO	N														
Actual deceased organ donors	Numbe	r PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Numb	er PMP	Numbe	r PMP	Numbe	r PMP	Number	r PMP	Numbe	er PMP	Number PM	Nun	nber PMP	Numb	er PMP
Actual deceased organ donors																									
(both DBD and DCD included)	92	10.6	77	0.6	0	0.0	14	3.3	28	0.9	5	1.5	64	13.3	102	18.9	0	0.0	0	0.0	2 0.7	2	0.5	2	1.0
Actual deceased donors (men)	56	6.4	49	0.4			12	2.8	21	0.6	4	1.2	31	6.5	54	10.0					2 0.7	2	0.5	1	0.5
Actual deceased donors (> 60 years)	42	4.8	15	0.1			1	0.2	0	0.0	1	0.3	19	4.0	39	7.2					0 0.0	0	0.0	0	0.0
Actual donors after circulatory death (DCD)	9	1.0	9	0.1			0	0.0	0	0.0	0	0.0	8	1.7	0	0.0					0 0.0	0	0.0	0	0.0
II/ Witnessed cardiac arrest (uncontrolled)	9	1.0																							
III/ Withdrawal of life-sustaining therapy (controlled)	0	0.0																							
IV/ Cardiac arrest while brain dead	0	0.0																							
Utilised deceased organ donors																									
Utilised deceased organ donors																									
(both DBD and DCD included)	89	10.2	77	0.6	0	0.0	14	3.3	27	0.8	5	1.5	60	12.5	101	18.7	0	0.0	0	0.0	2 0.7	1	0.3	2	1.0
Utilised deceased donors (men)	54	6.2	49	0.4			12	2.8	20	0.6	4	1.2	28	5.8	54	10.0					2 0.7	1	0.3	1	0.5
Utilised deceased donors (> 60 years)	82	9.4	15	0.1			1	0.2	0	0.0	1	0.3	16	3.3	38	7.0					0 0.0	0	0.0	0	0.0
Utilised donors after circulatory death (DCD)	7	0.8	9	0.1			0	0.0	0	0.0	0	0.0	8	1.7	0	0.0					0 0.0	0	0.0	0	0.0
II/ Witnessed cardiac arrest (uncontrolled)	7	0.8																							
III/ Withdrawal of life-sustaining therapy (controlled)	0	0.0																							
IV/ Cardiac arrest while brain dead	0	0.0																							
Living organ donors																									
Total living kidney donors	273	31.4	1556	12.3	142	2.6	37	8.6	112	3.5	23	7.0	87	18.1	59	10.9	0	0.0	129	0.6	8 2.8	1	0.3	8	3.8
Living Kidney donors (men)	176	20.2			91	1.7	29	6.7	49	1.5	9	2.7	28	5.8	27	5.0					5 1.7	1	0.3	4	1.9
Total living liver donors	13	1.5	316	2.5	0	0.0	0	0.0	11	0.3	28	8.5	3	0.6	0	0.0	0	0.0	60	0.3	0 0.0	1	0.3	0	0.0
Living liver donors (men)	9	1.0	176	1.4					5	0.2	11	3.3	3	0.6								1	0.3		
Total domino liver donors	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	0.0	0 0.0	0	0.0	0	0.0
Domino liver donors (men)			1	0.0																					
Total living lung donors	0	0.0	28	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 0.0			0	0.0
Living lung donors (men)			14	0.1																					

							DONA	ION A	CTIVIT	Υ												
							OTHE	R COUI	NTRIE:	5												
COUNTRIES	Russia Federat		Sauc Arab		Serbia		Sudan	Switze	erland	Syrian Arab Rep.		Thailand	a	nidad nd pago	Turk	ey	Ukraii	ne	United Arab Emirates		Unite States Amer	s of
Population (million inhabitants): UNFPA	145.	9	34.8	3	8.7		43.8	8.	7	17.5		69.8	1	.4	84.	3	43.7	,	9.9		331.	.0
							D	DNATIO	NC													
Actual deceased organ donors	Number	PMP	Number	PMP	Number PM	IP	Number PMP	Numbe	r PMP	Number PMP	Nu	ımber PMP	Numb	er PMP	Number	PMP	Number	PMP	Number PN	IP	Number	PMP
Actual deceased organ donors																						
(both DBD and DCD included)	572	3.9	65	1.9	3 0.	.3	0.0	146	16.8	0.0	31	5 4.5	2	1.4	172	2.0	11	0.3	9 0	.9	12588	38.0
Actual deceased donors (men)	418	2.9	56	1.6				89	10.2	0 0.0	24	4 3.5	1	0.7	107	1.3	8	0.2	6 0	.6	7802	23.6
Actual deceased donors (> 60 years)	116	0.8	2	0.1	0 0.	.0		57	6.6	0 0.0	12	0.2	0	0.0	50	0.6	0	0.0	0 0	.0	1811	5.5
Actual donors after circulatory death (DCD)	19	0.1	0	0.0	0 0.	.0		50	5.7	0 0.0	0	0.0	0	0.0	0	0.0	0	0.0	0 0	.0	3224	9.7
II/ Witnessed cardiac arrest (uncontrolled)	12	0.1						0	0.0												26	0.1
III/ Withdrawal of life-sustaining therapy (controlled)	0	0.0						50	5.7												3170	9.6
IV/ Cardiac arrest while brain dead	7	0.0						0	0.0												28	0.1
Utilised deceased organ donors																						
,																						
Utilised deceased organ donors		2.0		4.0				426	45.6							4.0		0.0			44570	25.0
(both DBD and DCD included)	564	3.9	63	1.8	3 0.	.3	0.0	136	15.6	0 0.0			2	1.4	148	1.8	11	0.3			11578	35.0
Utilised deceased donors (men)	412	2.8	54	1.6				81	9.3		23	5 3.4	1	0.7	88	1.0	8	0.2	6 0	.6	7231	21.8
Utilised deceased donors (> 60 years)	115	0.8	2	0.1	0 0.	.0		51	5.9		11	0.2	0	0.0	43	0.5	0	0.0	0 0	.0	1426	4.3
Utilised donors after circulatory death (DCD)	17	0.1	0	0.0	0 0.	.0		41	4.7		0	0.0	0	0.0	0	0.0	0	0.0	0 0	.0	2682	8.1
II/ Witnessed cardiac arrest (uncontrolled)	11	0.1						0	0.0												17	0.1
III/ Withdrawal of life-sustaining therapy (controlled)	0	0.0						41	4.7												2649	8.0
IV/ Cardiac arrest while brain dead	6	0.0						0	0.0												16	0.0
Living organ donors																						
Total living kidney donors	157	1.1	477	13.7	0 0.	.0	139 3.2	79	9.1	211 12.1	13	4 1.9	6	4.3	2249	26.7	79	1.8	45 4	.5	5234	15.8
Living Kidney donors (men)	64	0.4	343	9.8	0.		53 1.2		J.,		53		2	1.4	1051	12.5		0			1824	5.5
Total living liver donors	169	1.2	193	5.5	0 0.		0 0.0	3	0.3	0 0.0			0	0.0	1189	14.1	17	0.4			486	1.5
Living liver donors (men)	73	0.5	135	3.9			0 0.0			310	7	0.1			711	8.4					205	0.6
Total domino liver donors	0	0.0			0 0.	.0	0.0	1	0.1	0 0.0	0	0.0	0	0.0	2	0.0	0	0.0	0 0	.0	5	0.0
Domino liver donors (men)															2	0.0					1	0.0
Total living lung 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
Living lung donors (men)																						

						DONAT	ION ACT	IVITY										
					LATI	N AMEI	RICAN CO	OUNTRIE	S									
COUNTRIES	Argen	tina	Boli	via	Braz	zil	Ch	ile	Color	mbia	Costa	Rica	Cul	ba	Domii Repu		Ecua	ndor
Population (million inhabitants): UNFPA	45.	2	11.	.7	212	.6	19	.1	50	.9	5.	1	11	.3	10	.8	17	.6
						DC	NATION											
Actual deceased organ donors	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors																		
(both DBD and DCD included)	444	9.8	0	0.0	3027	14.2	141	7.4	222	4.4	27	5.3	51	4.5	4	0.4	29	1.6
Actual deceased donors (men)	167	3.7			1820	8.6	84	4.4	146	2.9	17	3.3	38	3.4	4	0.4	20	1.1
Actual deceased donors (> 60 years)	46	1.0			315	1.5	27	1.4	16	0.3	0	0.0	10	0.9	0	0.0	4	0.2
Actual donors after circulatory death (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
II/ Witnessed cardiac arrest (uncontrolled)																		
III/ Withdrawal of life-sustaining therapy (controlled)																		
IV/ Cardiac arrest while brain dead																		
Utilised deceased organ donors																		
Utilised deceased organ donors																		
(both DBD and DCD included)	413	9.1	0	0.0	2708	12.7	132	6.9	219	4.3	26	5.1	51	4.5	4	0.4	28	1.6
Utilised deceased donors (men)	151	3.3			1628	7.7	80	4.2	143	2.8	17	3.3	38	3.4	4	0.4	19	1.1
Utilised deceased donors (> 60 years)	31	0.7			201	0.9	22	1.2	17	0.3	0	0.0	10	0.9	0	0.0	4	0.2
Utilised donors after circulatory death (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
II/ Witnessed cardiac arrest (uncontrolled)																		
III/ Withdrawal of life-sustaining therapy (controlled)																		
IV/ Cardiac arrest while brain dead																		
Living organ donors																		
Total living kidney donors	130	2.9	10	0.9	445	2.1	21	1.1	120	2.4	8	1.6	9	0.8	20	1.9	6	0.3
Living Kidney donors (men)	54	1.2	3	0.3	164	0.8	9	0.5	43	0.8	6	1.2	5	0.4	11	1.0	3	0.2
Total living liver donors	30	0.7	0	0.0	141	0.7	23	1.2	71	1.4	1	0.2	2	0.2	0	0.0	0	0.0
Living liver donors (men)	13	0.3			71	0.3	13	0.7	26	0.5	0	0.0	0	0.0				
Total domino liver donors	0	0.0	0	0.0	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Domino liver donors (men)					3	0.0												
Total living lung 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
Living lung donors (men)																		

						DONA'	TION ACT	IVITY										
					LAT	IN AME	RICAN CO	DUNTRI	ES									
COUNTRIES Population (million inhabitants): UNFPA	El Salva 6.5		Guater		Mex 128		Nicara	igua	Pana 4.3		Paragi 7.1	•	Peru 33.0		Urugu 3.5		Venezi 28.4	
	1				1	D	ONATION		1				1					
Actual deceased organ donors	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Actual deceased organ donors (both DBD and DCD included)	0	0.0	0	0.0	152	1.2			3	0.7	6	0.8	17	0.5	63	18.0	0	0.0
Actual deceased donors (men)					95	0.7			2	0.5	5	0.7	11	0.3	33	9.4	0	0.0
Actual deceased donors (> 60 years)					10	0.1			0	0.0	0	0.0	2	0.1	15	4.3	0	0.0
Actual donors after circulatory death (DCD) II/ Witnessed cardiac arrest (uncontrolled) III/ Withdrawal of life-sustaining therapy (controlled) IV/ Cardiac arrest while brain dead					0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Utilised deceased organ donors Utilised deceased organ donors (both DBD and DCD included) Utilised deceased donors (men) Utilised deceased donors (> 60 years) Utilised donors after circulatory death (DCD)	0	0.0	0	0.0	150 94 10	1.2 0.7 0.1			3 2 0	0.7 0.5 0.0	6 5 0	0.8 0.7 0.0	15 10 2	0.5 0.3 0.1	63 33 15	18.0 9.4 4.3 0.0	0	0.0
II/ Witnessed cardiac arrest (uncontrolled) III/ Withdrawal of life-sustaining therapy (controlled) IV/ Cardiac arrest while brain dead																		
Living organ donors Total living kidney donors Living Kidney donors (men) Total living liver donors Living liver donors (men) Total domino liver donors Domino liver donors (men) Total living lung donors	11 0 0	1.7 0.0 0.0	29 16 0 0	1.6 0.9 0.0 0.0	630 290 10 3 0	4.9 2.2 0.1 0.0 0.0			7 3 0 0	1.6 0.7 0.0 0.0	3 1 0 0	0.4 0.1 0.0 0.0	20 7 6 6 0	0.6 0.2 0.2 0.2 0.0	8 4 1 1 0	2.3 1.1 0.3 0.3 0.0	3 2 0 0	0.1 0.1 0.0 0.0
Living lung donors (men)																		

						TRAN	SPLANT/	ATION	ACTIVITY	1										
EUROPEAN UNION COUNTRIES COUNTRIES Population (million inhabitants): UNFPA Austria Belgium Bulgaria Croatia Cyprus Czech Republic Denmark Estonia Finland France 6.9 4.1 1.2 10.7 5.8 1.3 5.5 65.3																				
r spanation (illinion illinabitants), out 174	, ,,,				,		TRANSPL				10.7		5.0		1.5		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		05.	.5
WANT	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
KIDNEY Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years) Tx from deceased donors - Tx from DCD - Single Tx - Double Tx Tx from living donors - Tx from related living donors - Tx from unrelated living donors Paired exchange or cross-over Non-directed altruistic or anonymous Directed altruistic	335 217 11 291 19 286 5 44 43 1 1 0	37.2 24.1 1.2 32.3 2.1 31.8 0.6 4.9 4.8 0.1 0.1 0.0	363 9 326 126 325 1 37 32 5	31.3 0.8 28.1 10.9 28.0 0.1 3.2 2.8 0.4	8 7 0 2 0	1.2 1.0 0.0 0.3 0.0 0.9 0.9	98 67 0 95 0 3 2 1 0 0	23.9 16.3 0.0 23.2 0.0 0.7 0.5 0.2 0.0 0.0	13 10 0 5 0	10.8 8.3 0.0 4.2 0.0	443 272 6 415 11 410 5 28 23 5 5 0	41.4 25.4 0.6 38.8 1.0 38.3 0.5 2.6 2.1 0.5 0.0	278 175 7 200 0 200 0 78 72 6 6 0	47.9 30.2 1.2 34.5 0.0 34.5 0.0 13.4 12.4 1.0 0.0	47 23 3 43 0 43 0 4 4 4 0	36.2 17.7 2.3 33.1 0.0 33.1 0.0 3.1 3.1 0.0	263 155 9 232 0 232 0 31 30 1 0	47.8 28.2 1.6 42.2 0.0 42.2 0.0 5.6 5.4 0.2 0.0 0.2	2595 1622 83 2205 260 2195 10 390 390	39.7 24.8 1.3 33.8 4.0 33.6 0.2 6.0 6.0 0.0
LIVER Total Tx (all combinations included) Liver Tx (men) Paediatric (<18 years) Split Tx Domino Tx Tx from living donors Tx from DCD	158 113 10 2 0 8	17.6 12.6 1.1 0.2 0.0 0.9 0.7	235 27 6 0 21 88	20.3 2.3 0.5 0.0 1.8 7.6	7 3 3 0 0 5	1.0 0.4 0.4 0.0 0.0 0.7 0.0	95 25 6 8 0 1	23.2 6.1 1.5 2.0 0.0 0.2 0.0			172 108 18 12 0 0	16.1 10.1 1.7 1.1 0.0 0.0 0.2	66 38 8 5 0 3	11.4 6.6 1.4 0.9 0.0 0.5 0.0	12 8 2 0 0 0	9.2 6.2 1.5 0.0 0.0 0.0	75 46 8 0 0 0	13.6 8.4 1.5 0.0 0.0 0.0	1128 794 81 70 1 15	17.3 12.2 1.2 1.1 0.0 0.2 1.1
HEART Total Tx (all combinations included) Heart Tx (men) Paediatric (<18 years) Tx from DCD	59 46 10 2	6.6 5.1 1.1 0.2	54 35 5 6	4.7 3.0 0.4 0.5	1 1 0 0	0.1 0.1 0.0 0.0	25 18 1 0	6.1 4.4 0.2 0.0			72 55 5 0	6.7 5.1 0.5 0.0	33 16 3 0	5.7 2.8 0.5 0.0			22 17 5 0	4.0 3.1 0.9 0.0	378 262 27 0	5.8 4.0 0.4 0.0
HEART-LUNG Total Tx Paediatric (<18 years)	0	0.0	0	0.0	0	0.0	0	0.0			2 0	0.2 0.0	1 0	0.2 0.0			0	0.0	8 0	0.1 0.0
LUNG Total Tx (all combinations included) Lung Tx (men) Paediatric (<18 years) Single Tx Double Tx (heart-lung Tx included) Tx from DCD (double + single)	100 66 2 5 95 4	11.1 7.3 0.2 0.6 10.6 0.4	93 0 4 89 27	8.0 0.0 0.3 7.7 2.3	0	0.0	0	0.0			35 0 0 1 34 1	3.3 0.0 0.0 0.1 3.2 0.1	29 14 0 4 25 0	5.0 2.4 0.0 0.7 4.3 0.0	0	0.0	21 14 0 0 21	3.8 2.5 0.0 0.0 3.8 0.0	291 160 10 26 265 15	4.5 2.5 0.2 0.4 4.1 0.2
PANCREAS Total Tx (all combinations included) Pancreas Tx (men) Paediatric (<18 years) Pancreas Tx alone Kidney – Pancreas Tx Tx from DCD	20 14 0 3 17 0	2.2 1.6 0.0 0.3 1.9 0.0	9 0 2 7 2	0.8 0.0 0.2 0.6 0.2	0	0.0	1 0 0 0 1	0.2 0.0 0.0 0.0 0.2 0.0	0	0.0	37 21 0 6 31 37	3.5 2.0 0.0 0.6 2.9 3.5	7 5 0 0 7	1.2 0.9 0.0 0.0 1.2 0.0	6 4 0 1 5	4.6 3.1 0.0 0.8 3.8 0.0	26 13 0 1 25 0	4.7 2.4 0.0 0.2 4.5 0.0	34 22 0 4 30	0.5 0.3 0.0 0.1 0.5 0.0
SMALL BOWEL Total Tx (all combinations included) Small bowel Tx (men) Paediatric (<18 years) Small bowel Tx alone	0	0.0	2	0.2	0	0.0	0	0.0			1 1 0 0	0.1 0.1 0.0 0.0	0	0.0			1 1 0 0	0.2 0.2 0.0 0.0	3 2 0 1	0.0 0.0 0.0 0.0
RECIPIENTS Total number of patients transplanted Male recipients Paediatric (<18 years) Patients transplanted from living donors	637 431 33 52	70.8 47.9 3.7 5.8	716 34 58	61.7 2.9 5.0	16 11 3 11	2.3 1.6 0.4 1.6	216 110 7 4	52.7 26.8 1.7 1.0	13 10 0 8	10.8 8.3 0.0 6.7	760 479 29 28	71.0 44.8 2.7 2.6	403 240 17 81	69.5 41.4 2.9 14.0	60 32 5 4	46.2 24.6 3.8 3.1	381 231 22 31	69.3 42.0 4.0 5.6	4283 2772 197 405	65.6 42.5 3.0 6.2

					TRA	NSPLA	NTATION	ACTIVI	TY									
					EUR	OPEAN	UNION C	OUNTR	IES									
COUNTRIES Population (million inhabitants): UNFPA	Germa		Gree 10.4		Hung 9.7		Irela 4.9		Ital 60.		Lat 1.9		Lithua 2.7	nia	Luxemb 0.6		Ma 0.4	
Population (million innabitants): UNFPA	83.	8	10.4		9.7		SPLANTA		60.	5	1.9		2.7		0.6)	0.2	•
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
KIDNEY Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years) Tx from deceased donors - Tx from DCD - Single Tx - Double Tx Tx from living donors - Tx from related living donors - Tx from unrelated living donors Paired exchange or cross-over Non-directed altruistic or anonymous Directed altruistic	1909 1211 80 1459 0 1445 14 450 449	22.8 14.5 1.0 17.4 0.0 17.2 0.2 5.4 5.4 0.0	175 115 10 86 0 86 0 89 89	16.8 11.1 1.0 8.3 0.0 8.6 8.6 0.0	202 115 10 172 0	20.8 11.9 1.0 17.7 0.0	123 73 9 95 14 81 0 28 27 1 1 0	25.1 14.9 1.8 19.4 2.9 16.5 0.0 5.7 5.5 0.2 0.2 0.0	1907 1192 67 1623 66 1451 111 284	31.5 19.7 1.1 26.8 1.1 24.0 1.8 4.7	41 28 1 38	21.6 14.7 0.5 20.0 1.6 1.6 0.0	82 43 1 79 4 79 0 3 3	30.4 15.9 0.4 29.3 1.5 29.3 0.0 1.1 1.1			4 3 0 4 0 4 0	10.0 7.5 0.0 10.0 0.0 10.0 0.0 0.0
LIVER Total Tx (all combinations included) Liver Tx (men) Paediatric (<18 years) Split Tx Domino Tx Tx from living donors Tx from DCD	826 524 111 72 0 52	9.9 6.3 1.3 0.9 0.0 0.6 0.0	32 23 0 0 0 0	3.1 2.2 0.0 0.0 0.0 0.0 0.0	50 36 4 0 0	5.2 3.7 0.4 0.0 0.0 0.0	37 28 0 0 0 0	7.6 5.7 0.0 0.0 0.0 0.0 0.0	1202 868 77 90 1 19 45	19.9 14.3 1.3 1.5 0.0 0.3 0.7	2 1 0 0 0 2	1.1 0.5 0.0 0.0 0.0 1.1 0.0	14 12 0 0 0 0	5.2 4.4 0.0 0.0 0.0 0.0 0.0			1 1 0 0 0 0	2.5 2.5 0.0 0.0 0.0 0.0 0.0
HEART Total Tx (all combinations included) Heart Tx (men) Paediatric (<18 years) Tx from DCD	339 231 28 0	4.0 2.8 0.3 0.0	9 8 0 0	0.9 0.8 0.0 0.0	45 30 3 0	4.6 3.1 0.3 0.0	9 4 1 0	1.8 0.8 0.2 0.0	238 167 0	3.9 2.8 0.0	2 1 0 0	1.1 0.5 0.0 0.0	10 10 1 0	3.7 3.7 0.4 0.0			0	0.0
HEART-LUNG Total Tx Paediatric (<18 years)	1 0	0.0 0.0	0	0.0	0	0.0	0	0.0	1 1	0.0 0.0	0	0.0	0	0.0			0	0.0
LUNG Total Tx (all combinations included) Lung Tx (men) Paediatric (<18 years) Single Tx Double Tx (heart-lung Tx included) Tx from DCD (double + single)	344 189 14 25 319 0	4.1 2.3 0.2 0.3 3.8 0.0	3 3 0 0 3	0.3 0.3 0.0 0.0 0.3 0.0	17 8 1 0 17	1.8 0.8 0.1 0.0 1.8 0.0	16 11 0 8 8	3.3 2.2 0.0 1.6 1.6 0.2	115 72 5 12 103 3	1.9 1.2 0.1 0.2 1.7 0.0	0	0.0	1 0 0 0 1	0.4 0.0 0.0 0.0 0.4 0.0			1 1 0	2.5 2.5 0.0
PANCREAS Total Tx (all combinations included) Pancreas Tx (men) Paediatric (<18 years) Pancreas Tx alone Kidney – Pancreas Tx Tx from DCD	92 51 0 5 80	1.1 0.6 0.0 0.1 1.0 0.0	0	0.0	6 3 0 0 6	0.6 0.3 0.0 0.0 0.6 0.0	5 3 0 2 3 0	1.0 0.6 0.0 0.4 0.6 0.0	41 27 0 6 33 0	0.7 0.4 0.0 0.1 0.5 0.0	0	0.0	0	0.0			0	0.0
SMALL BOWEL Total Tx (all combinations included) Small bowel Tx (men) Paediatric (<18 years) Small bowel Tx alone	8 4 0 2	0.1 0.0 0.0 0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			0 0 0 0	0.0 0.0 0.0 0.0
RECIPIENTS Total number of patients transplanted Male recipients Paediatric (<18 years) Patients transplanted from living donors	3384 2136 228 502	40.4 25.5 2.7 6.0	219 149 10 89	21.1 14.3 1.0 8.6	314 189 18 30	32.4 19.5 1.9 3.1	187 118 10 28	38.2 24.1 2.0 5.7	3437 2281 165 303	56.8 37.7 2.7 5.0	45 30 1 3	23.7 15.8 0.5 1.6	107 65 2 3	39.6 24.1 0.7 1.1			6 5 0	15.0 12.5 0.0 0.0

					TRA	NSPLA	NTATION	ACTIVI	ТҮ									
					EUR	OPEAN	UNION C	OUNTR	IES									
COUNTRIES Population (million inhabitants): UNFPA	Netherl		Polan 37.8		Portug		Roma 19.2		Slova 5.5		Slovei 2.1		Spai 46.8		Swed 10.		United Ki 67.	
i opulation (illinoi illiabitanto), otti i /i	.,	•	77.0		10.2		SPLANTA		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				10.0	•			07.	.5
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
KIDNEY Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years) Tx from deceased donors - Tx from DCD - Single Tx - Double Tx Tx from living donors - Tx from related living donors - Tx from unrelated living donors Paired exchange or cross-over Non-directed altruistic or anonymous Directed altruistic	809 495 9 442 269 441 1 367 327 40	47.3 28.9 0.5 25.8 15.7 25.8 0.1 21.5 19.1 2.3	751 486 21 720 0 720 0 31 31	19.9 12.9 0.6 19.0 0.0 19.0 0.0 0.8 0.8	394 235 8 353 17 352 1 41 36 5 5 0	38.6 23.0 0.8 34.6 1.7 34.5 0.1 4.0 3.5 0.5 0.5 0.0	174 120 15 120 0 118 2 54 53 1 0 0	9.1 6.3 0.8 6.3 0.0 6.1 0.1 2.8 2.8 0.1 0.0 0.0	131 96 4 113 0 113 0 18 18	23.8 17.5 0.7 20.5 0.0 20.5 0.0 3.3 3.3 0.0	47 31 0 46 0 46 0 1 1	22.4 14.8 0.0 21.9 0.0 21.9 0.0 0.5 0.5	2702 1770 88 2443 894 2435 8 259 240 19 19 0	57.7 37.8 1.9 52.2 19.1 52.0 0.2 5.5 5.1 0.4 0.4 0.0	429 276 20 313 22 311 2 116 107 9 7 2	42.5 27.3 2.0 31.0 2.2 30.8 0.2 11.5 10.6 0.9 0.7 0.2 0.0	2567 1570 98 2009 709 1986 23 558 455 103	37.8 23.1 1.4 29.6 10.4 29.2 0.3 8.2 6.7 1.5
LIVER Total Tx (all combinations included) Liver Tx (men) Paediatric (<18 years) Split Tx Domino Tx Tx from living donors Tx from DCD	186 116 22 8 24 71	10.9 6.8 1.3 0.5	291 168 38 0 28 0	7.7 4.4 1.0 0.0 0.7 0.0	193 135 8 4 3 1	18.9 13.2 0.8 0.4 0.3 0.1	62 49 0 0 0 9	3.2 2.6 0.0 0.0 0.0 0.5 0.0	19 13 0 0 0 0	3.5 2.4 0.0 0.0 0.0 0.0 0.0	25 15 1 0 0 0	11.9 7.1 0.5 0.0 0.0 0.0	1034 756 77 26 0 11 279	22.1 16.2 1.6 0.6 0.0 0.2 6.0	172 110 18 19 1 0	17.0 10.9 1.8 1.9 0.1 0.0 0.1	823 479 108 80 0 22 131	12.1 7.1 1.6 1.2 0.0 0.3 1.9
HEART Total Tx (all combinations included) Heart Tx (men) Paediatric (<18 years) Tx from DCD	41 26 6 0	2.4 1.5 0.4 0.0	145 117 5 0	3.8 29.6 0.1 0.0	33 24 0 0	3.2 2.4 0.0 0.0	4 2 0 0	0.2 0.1 0.0 0.0	27 20 1 0	4.9 3.6 0.2 0.0	24 20 1 0	11.4 9.5 0.5 0.0	278 186 29 4	5.9 4.0 0.6 0.1	54 38 9 0	5.3 3.8 0.9 0.0	179 107 37 18	2.6 1.6 0.5 0.3
HEART-LUNG Total Tx Paediatric (<18 years)	1 0	0.1 0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2 0	0.0 0.0	0	0.0	2 0	0.0 0.0
LUNG Total Tx (all combinations included) Lung Tx (men) Paediatric (<18 years) Single Tx Double Tx (heart-lung Tx included) Tx from DCD (double + single)	87 50 2 4 83 40	5.1 2.9 0.1 0.2 4.9 2.3	51 36 4 4 47 0	1.3 1.0 0.1 0.1 1.2 0.0	33 21 0 1 32 0	3.2 2.1 0.0 0.1 3.1 0.0	1 0 0 0 1	0.1 0.0 0.0 0.0 0.1 0.0	0	0.0	16 10 1 2 14 0	7.6 4.8 0.5 1.0 6.7 0.0	336 221 10 77 259 95	7.2 4.7 0.2 1.6 5.5 2.0	51 28 1 13 38 0	5.0 2.8 0.1 1.3 3.8 0.0	99 56 2 3 95	1.5 0.8 0.0 0.0 1.4 0.3
PANCREAS Total Tx (all combinations included) Pancreas Tx (men) Paediatric (<18 years) Pancreas Tx alone Kidney – Pancreas Tx Tx from DCD	29 19 0 3 21 12	1.7 1.1 0.0 0.2 1.2 0.7	4 2 0 1 3 0	0.1 0.1 0.0 0.0 0.1 0.0	27 12 0 0 27 0	2.6 1.2 0.0 0.0 2.6 0.0	0	0.0	0	0.0	2 1 0 0 2	1.0 0.5 0.0 0.0 1.0 0.0	73 47 4 6 63 6	1.6 1.0 0.1 0.1 1.3 0.1	13 7 0 3 10	1.3 0.7 0.0 0.3 1.0 0.0	116 62 5 5 97 24	1.7 0.9 0.1 0.1 1.4 0.4
SMALL BOWEL Total Tx (all combinations included) Small bowel Tx (men) Paediatric (<18 years) Small bowel Tx alone	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4 4 4 0	0.1 0.1 0.1 0.0	0	0.0	17 10 7 3	0.3 0.1 0.1 0.0
RECIPIENTS Total number of patients transplanted Male recipients Paediatric (<18 years) Patients transplanted from living donors	1124 686 39 391	65.7 40.1 2.3 22.9	1236 805 68 59	32.7 21.3 1.8 1.6	637 405 16 42	62.5 39.7 1.6 4.1	241 171 15 63	12.6 8.9 0.8 3.3	177 129 5 18	32.2 23.5 0.9 3.3	112 76 3 1	53.3 36.2 1.4 0.5	4315 2908 201 270	92.2 62.1 4.3 5.8	702 450 48 116	69.5 44.6 4.8 11.5	3686 2220 247 580	54.3 32.7 3.6 8.5

				TF	RANSPLANTA	ATION ACTIV	/ITY						
					OTHER C	OUNTRIES							
COUNTRIES	Albania	Algeria	Armenia	Australia	Bangladesh	Belarus	Bosnia and	Canada	China	Ethiopia	Georgia	Iceland	India
Population (million inhabitants): UNFPA	2.9	43.9	3.0	25.5	164.7	9.4	Herzegovina 3.3	37.7	1447.4	115.0	4.0	0.3	1380.0
	,	_		1	1	ANTATION				ı	,		
KIDNEY	Number PMP	Number PMP	Number PMP	Number PMP	Number PMP	Number PMP	Number PMP	Number PMP	Number PMP	Number PMP	Number PMP	Number PMP	Number PMP
Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years) Tx from deceased donors - Tx from DCD - Single Tx - Double Tx Tx from living donors - Tx from related living donors - Tx from unrelated living donors Paired exchange or cross-over Non-directed altruistic or anonymous Directed altruistic	7 2.4 0 0.0 0 0.0 0 0.0 0 0.0 7 2.4 7 2.4 0 0.0	91 2.1 59 1.3 4 0.1 0 0.0 0 0.0 0 0.0 0 0.0 91 2.1 91 2.1 0 0.0	10 3.3 6 2.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 10 3.3 10 3.3 0 0.0	885 34.7 575 22.5 26 1.0 704 27.6 207 8.1 693 27.2 11 0.4 181 7.1 149 5.8 32 1.3 32 1.3 29 1.1 3 0.1 0 0.0	155 0.9 126 0.8 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 155 0.9 155 0.9 0 0.0	316 33.6 173 18.4 16 1.7 315 33.5 0 0.0 1 0.1 1 0.1 0 0.0	2 0.6 0 0.0 2 0.6 0 0.0	1518 40.3 39 1.0 1122 29.8 307 8.1 396 10.5 213 5.6 180 4.8	7652 5.3 292 0.2 9399 6.5 5239 3.6 9307 6.5 92 0.1	4 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 8 0.1	0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 17 4.3 17 4.3	10 33.3 5 16.7 1 3.3 3 10.0 0 0.0 3 10.0 0 0.0 7 23.3 7 23.3 0 0.0	5486 4.0 3932 2.8 137 0.1 516 0.4 4 0.0 500 0.4 16 0.0 4970 3.6 4873 3.5 97 0.1 97 0.1 0 0.0 0 0.0
LIVER Total Tx (all combinations included) Liver Tx (men) Paediatric (<18 years) Split Tx Domino Tx Tx from living donors Tx from DCD	0 0.0	2 0.0 1 0.0 0 0.0 0 0.0 0 0.0 2 0.0 0 0.0	1 0.3 1 0.3 1 0.3 0 0.0 0 0.0 1 0.3 0 0.0	277 10.9 176 6.9 33 1.3 46 1.8 0 0.0 1 0.0 34 1.3	0 0.0	86 9.1 47 5.0 11 1.2 2 0.2 0 0.0 7 0.7 0 0.0	1 0.3 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0	565 15.0 54 1.4 6 0.2 91 2.4 48 1.3	5842 4.1 4360 3.0 1179 0.8 387 0.3 14 0.0 874 0.6 2839 2.0	0 0.0	10 2.5 6 1.5 0 0.0 0 0.0 0 0.0 10 2.5 0 0.0	0 0.0	1780 1.3 1334 1.0 163 0.1 5 0.0 2 0.0 1487 1.1 0 0.0
HEART Total Tx (all combinations included) Heart Tx (men) Paediatric (<18 years) Tx from DCD	0 0.0	0 0.0	0 0.0	148 5.8 20 0.8	0 0.0	53 5.6 45 4.8 3 0.3 0 0.0	0 0.0	188 5.0 26 0.7 0 0.0	557 0.4 414 0.3 52 0.0 0 0.0	0 0.0	0 0.0	0 0.0	89 0.1 71 0.1 10 0.0 0 0.0
HEART-LUNG Total Tx Paediatric (<18 years)	0 0.0	0 0.0	0 0.0	6 0.2	0 0.0	1 0.1 0 0.0	0 0.0		7 0.0 0 0.0	0 0.0	0 0.0	0 0.0	5 0.0 1 0.0
LUNG Total Tx (all combinations included) Lung Tx (men) Paediatric (<18 years) Single Tx Double Tx (heart-lung Tx included) Tx from DCD (double + single)	0.0	0 0.0	0 0.0	158 6.2 20 0.8 138 5.4 39 1.5	0 0.0	10 1.1 8 0.9 1 0.1 0 0.0 10 1.1 0 0.0	0 0.0	325 8.6 0 0.0 14 0.4 309 8.2 87 2.3	408 0.3 8 0.0 191 0.1	0 0.0	0.0	0 0.0	67 0.0 44 0.0 2 0.0 7 0.0 60 0.0 0 0.0
PANCREAS Total Tx (all combinations included) Pancreas Tx (men) Paediatric (<18 years) Pancreas Tx alone Kidney – Pancreas Tx Tx from DCD	0 0.0	0 0.0	0 0.0	47 1.8 30 1.2 0 0.0 1 0.0 46 1.8 3 0.1	0 0.0	2 0.2 0 0.0 0 0.0 0 0.0 2 0.2 0 0.0	0 0.0	57 1.5 0 0.0 17 0.5 42 1.1		0 0.0	0 0.0	0 0.0	14 0.0 6 0.0 0 0.0 2 0.0 12 0.0 0 0.0
SMALL BOWEL Total Tx (all combinations included) Small bowel Tx (men) Paediatric (<18 years) Small bowel Tx alone	0 0.0	0 0.0	0 0.0	1 0.0 1 0.0 0 0.0 0 0.0	0 0.0	0 0.0	0 0.0	6 0.2		0 0.0	0 0.0	0 0.0	7 0.0 2 0.0 0 0.0 7 0.0
RECIPIENTS Total number of patients transplanted Male recipients Paediatric (<18 years) Patients transplanted from living donors	7 2.4 7 2.4	93 2.1 60 1.4 4 0.1 93 2.1	11 3.7 7 2.3 1 0.3 11 3.7	1449 56.8 182 7.1	155 0.9 126 0.8 0 0.0 155 0.9	463 49.3 271 28.8 31 3.3 8 0.9	5 1.5 2 0.6 0 0.0 2 0.6	2615 69.4 129 3.4	17897 12.4 12797 8.9 1529 1.1 2512 1.7	8 0.1 4 0.0 0 0.0 8 0.1	27 6.8 16 4.0 0 0.0 27 6.8	10 33.3 5 16.7 1 3.3 7 23.3	7426 5.4 5380 3.9 311 0.2 6457 4.7

							TR	ANSPLANT	Α	TION ACTIV	/ITY												
								OTHER	CO	UNTRIES													
COUNTRIES	Isı	rael	Japa	an	Kenya		Kuwait	Malaysia		Mongolia	Ne	w Zealand	Nor	way	Oma	n	Pakista	1	Qatar		Rep. of Moldova		o. of North
Population (million inhabitants): UNFPA	8	3.7	126	.5	53.8		4.3	32.4		3.3		4.8	5	.4	5.1		220.9		2.9		4.0	""	2.1
								TRANSP	LA	NTATION													
KIDNEY	Numb	er PMP	Numbe	r PMP	Number PM	P N	lumber PMP	Number PMF	P 1	Number PMP	Nu	mber PMP	Numbe	r PMP	Number	PMP	Number P	MP	Number PMP	N	lumber PMP	Nur	mber PMP
Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years) Tx from deceased donors - Tx from DCD - Single Tx - Double Tx Tx from living donors - Tx from related living donors - Tx from unrelated living donors Paired exchange or cross-over Non-directed altruistic or anonymous Directed altruistic	397 278 20 124 12 118 6 273 84 189 46 138 5	45.6 32.0 2.3 14.3 1.4 13.6 0.7 31.4 9.7 21.7 5.3 15.9 0.6	1697 55 141 17 139 2 1556 1556	13.4 0.4 1.1 0.1 1.1 0.0 12.3 12.3 0.0	142 2.99 1.0 0.0 0.0 0.0 0.0 0.0 0.142 2.142 2.0 0.0	8 3 0 0 0 2 0 0 0 2 0 0 6 3 6 3	66 8.4 0.0 14 5.6 0.0 14 5.6 0.0 17 8.6 17 8.6	153 4.3 85 2.6 5 0.3 41 1.3 0 0.0 41 1.3 1 0 0.0 112 3.9 111 3.4 1 0.0 0 0.0 0 0.0 0 0.0	5 : 2 : 3 : 3 : 3 : 3 : 3 : 3 : 3 : 3 : 3	29 8.8 21 6.4 1 0.3 6 1.8 0 0.0 6 1.8 0 0.0 23 7.0 23 7.0 0 0.0		5 24.0 1.5 0 20.8 2.7 20.2 0.6 18.1 12.5 5.6	240 143 11 181 0 181 0 59 59	44.4 26.5 2.0 33.5 0.0 33.5 0.0 10.9 10.9	0	0.0	10 0 0 0 0 0 129 129	0.0	17 5.9 12 4.1 1 0.3 4 1.4 0 0.0 4 1.4 0 0.0 13 4.5 0 0.0	1 0 2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.3 0.0 0.5 0.0 0.3 0.3	7 0 4 0 4 0 8 8	5.7 3.3 0.0 1.9 0.0 1.9 0.0 3.8 3.8 0.0
LIVER Total Tx (all combinations included) Liver Tx (men) Paediatric (<18 years) Split Tx Domino Tx Tx from living donors Tx from DCD	85 48 17 0 0 13	9.8 5.5 2.0 0.0 0.0 1.5 0.0	380 186 120 14 1 316	3.0 1.5 0.9 0.1 0.0 2.5 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	28 0.9 14 0.4 9 0.3 0 0.0 0 0.0 11 0.3 0 0.0	4 : 3 : 0 : 3 :	32 9.7 20 6.1 1 0.3 0 0.0 0 0.0 28 8.5 0 0.0	55 39 13 14 0 3	8.1 2.7	52 8 7 0	16.3 9.6 1.5 1.3 0.0 0.0	0	0.0	2 0 0 60	0.0 0.0 0.3	1 0.3 1 0.3 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0	1 0 0 0 0 0 1	0.3 0.0 0.0 0.0 0.3	0	0.0
HEART Total Tx (all combinations included) Heart Tx (men) Paediatric (<18 years) Tx from DCD	20 10 6 0	2.3 1.1 0.7 0.0	54 38 5 0	0.4 0.3 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	13	2.7	30 21 5 0	5.6 3.9 0.9 0.0	0	0.0	0	0.0	0 0.0	0	0.0	1 1 0 0	0.5 0.5 0.0 0.0
HEART-LUNG Total Tx Paediatric (<18 years)	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	0.0	0	0.0	0 0.0	0	0.0	0	0.0
LUNG Total Tx (all combinations included) Lung Tx (men) Paediatric (<18 years) Single Tx Double Tx (heart-lung Tx included) Tx from DCD (double + single)	34 23 2 2 32	3.9 2.6 0.2 0.2 3.7	75 45 12 31 27 0	0.6 0.4 0.1 0.2 0.2	0 0.	0 0	0.0	1 0.0 0 0.0 0 0.0 0 0.0 1 0.0 0 0.0	0	0 0.0	23 4 19 3	0.8	28 15 1 0 28	5.2 2.8 0.2 0.0 5.2 0.0	0	0.0	0	0.0	0 0.0	0	0.0	0	0.0
PANCREAS Total Tx (all combinations included) Pancreas Tx (men) Paediatric (<18 years) Pancreas Tx alone Kidney – Pancreas Tx Tx from DCD	4 2 0 4	0.5 0.2 0.0 0.5	28 9 0 4 24 0	0.2 0.1 0.0 0.0 0.2 0.0	0 0.	0 0	0.0	0.0	0	0 0.0	3 0 0 3 0	0.6 0.0 0.0 0.6 0.0	6 2 0 1 5	1.1 0.4 0.0 0.2 0.9 0.0	0	0.0	0	0.0	0 0.0	0	0.0	0	0.0
SMALL BOWEL Total Tx (all combinations included) Small bowel Tx (men) Paediatric (<18 years) Small bowel Tx alone	0	0.0	3 1 2 3	0.0 0.0 0.0 0.0	0 0.	0 0	0.0	0 0.0	0	0 0.0	0	0.0	0	0.0	0	0.0	0	0.0	0 0.0	0	0.0	0	0.0
RECIPIENTS Total number of patients transplanted Male recipients Paediatric (<18 years) Patients transplanted from living donors	530 356 33 286	60.9 40.9 3.8 32.9	2209 195 1890	17.5 1.5 14.9	142 2. 99 1. 0 0. 142 2.	8 3 0 0	8.4	182 5.6 99 3.7 14 0.4 123 3.8	1 4	61 18.5 41 12.4 2 0.6 51 15.5	278 90		382 228 25 59	70.7 42.2 4.6 10.9	0	0.0	12	0.9 0.1 0.9	18 6.2 14 4.8 1 0.3 13 4.5	0	0.5 0.0		6.2 3.8 0.0 3.8

								TRANS	SPLAN	OITAT	N ACTI	VITY												
								(OTHER	COUN	TRIES													
COUNTRIES	Russi Federa		Saudi /	Arabia	Ser	bia	Suc	dan	Switze	erland	Syr Arab		Tha	iland	Trini and To		Tur	key	Ukra	ine		d Arab rates	United of Am	
Population (million inhabitants): UNFPA	145		34	.8	8	.7	43	3.8	8.		17		6	9.8	1.		84	1.3	43	.7).9	331	
							ı	Т	RANSP				ı		1		_				ı		1	
KIDNEY	Number	PMP	Numbe	er PMP	Numbe	r PMP	Numbe	r PMP	Numbe	r PMP	Numb	er PMP	Numbe	er PMP	Numbe	r PMP	Numbe	r PMP	Numbe	PMP	Numb	er PMP	Numbe	er PMP
Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years) Tx from deceased donors - Tx from DCD - Single Tx - Double Tx Tx from living donors - Tx from related living donors - Tx from unrelated living donors Paired exchange or cross-over Non-directed altruistic or anonymous Directed altruistic	1124 648 119 967 27 967 0 157 157	7.7 4.4 0.8 6.6 0.2 6.6 0.0 1.1 1.1 0.0	547 374 57 70 0 68 2 477 423 54 21 24 9	15.7 10.7 1.6 2.0 0.0 2.0 0.1 13.7 12.2 1.6 0.6 0.7	6 0 6 0	0.7 0.0 0.7 0.0	139 110 3 0 0 0 0 139 135 4 4 0	3.2 2.5 0.1 0.0 0.0 0.0 3.2 3.1 0.1 0.0 0.0	296 136 12 217 61 217 0 79 78 1 0 1	34.0 15.6 1.4 24.9 7.0 24.9 0.0 9.1 9.0 0.1 0.0	211 24 0 0 0 0 0 211 97 114 0 0	12.1 1.4 0.0 0.0 0.0 12.1 5.5 6.5 0.0 0.0 6.5	712 433 12 578 0 576 2 134 134 0	10.2 6.2 0.2 8.3 0.0 8.2 0.0 1.9 1.9	10 9 0 4 0 4 0 6 5 1 0 0	7.1 6.4 0.0 2.9 0.0 2.9 0.0 4.3 3.6 0.7 0.0 0.0	2498 1582 145 249 0 233 16 2249 1873 376 96 280	29.6 18.8 1.7 3.0 0.0 2.8 0.2 26.7 22.2 4.5 1.1 3.3	99 0 20 0 79 79 0	2.3 0.0 0.5 0.0 1.8 1.8 0.0	61 34 6 16 0 16 0 45 45	6.2 3.4 0.6 1.6 0.0 1.6 0.0 4.5 4.5 0.0	23644 14513 715 18410 4715 18128 282 5234 4037 1197 824 366	43.8 2.2 55.6 14.2
LIVER Total Tx (all combinations included) Liver Tx (men) Paediatric (<18 years) Split Tx Domino Tx Tx from living donors Tx from DCD	559 301 131 7 0 169 0	3.8 2.1 0.9 0.0 0.0 1.2 0.0	244 159 85 4 193	7.0 4.6 2.4 0.1 5.5 0.0	3 0 0 0 0	0.3 0.0 0.0 0.0 0.0 0.0	0	0.0	135 89 10 10 1 3 32	15.5 10.2 1.1 1.1 0.1 0.3 3.7	0	0.0	125 81 34 0 0 31	1.8 1.2 0.5 0.0 0.0 0.4 0.0	0	0.0	1320 866 247 13 2 1189 0	15.7 10.3 2.9 0.2 0.0 14.1 0.0	21 10 0 0 17 0	0.5 0.2 0.0 0.0 0.4 0.0	11 4 0 0 0 6	1.1 0.4 0.0 0.0 0.0 0.6 0.0	8906 5562 502 155 5 486 830	26.9 16.8 1.5 0.5 0.0 1.5 2.5
HEART Total Tx (all combinations included) Heart Tx (men) Paediatric (<18 years) Tx from DCD	251 204 6 0	1.7 1.4 0.0 0.0	28 15 10 0	0.8 0.4 0.3 0.0	1 0 0	0.1 0.0 0.0	0	0.0	45 23 7 0	5.2 2.6 0.8 0.0	0	0.0	33 22 0 0	0.5 0.3 0.0 0.0	0	0.0	21 12 5	0.2 0.1 0.1	10 10 0	0.2 0.2 0.0	2 1 0	0.2 0.1 0.0 0.0	3716 2646 465 108	11.2 8.0 1.4 0.3
HEART-LUNG Total Tx Paediatric (<18 years)	0	0.0	0	0.0	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	0	0.0	58 4	0.2 0.0
LUNG Total Tx (all combinations included) Lung Tx (men) Paediatric (<18 years) Single Tx Double Tx (heart-lung Tx included) Tx from DCD (double + single)	11 6 0 0 11	0.1 0.0 0.0 0.0 0.1 0.0	20 11 1 1 19 0	0.6 0.3 0.0 0.0 0.5 0.0	0	0.0	0	0.0	44 21 1 2 42 10	5.1 2.4 0.1 0.2 4.8 1.1	0	0.0	1 1 0 0 1	0.0 0.0 0.0 0.0 0.0 0.0	0	0.0	11 9 0 0 11	0.1 0.1 0.0 0.0 0.1 0.0	0	0.0	1 0 0 0 0	0.1 0.0 0.0 0.0 0.0 0.0	2597 1518 36 569 2028 190	7.8 4.6 0.1 1.7 6.1 0.6
PANCREAS Total Tx (all combinations included) Pancreas Tx (men) Paediatric (<18 years) Pancreas Tx alone Kidney – Pancreas Tx Tx from DCD	16 4 0 0 16	0.1 0.0 0.0 0.0 0.1 0.0	2 2 1 0 2	0.1 0.1 0.0 0.0 0.1 0.0	0	0.0	0	0.0	15 8 0 0 14 1	1.7 0.9 0.0 0.0 1.6 0.1	0	0.0	1 1 0 0 1	0.0 0.0 0.0 0.0 0.0 0.0	0	0.0	1 1 0 1 0 0	0.0 0.0 0.0 0.0 0.0 0.0	1 1 0 0 1	0.0 0.0 0.0 0.0 0.0	1 0 0 0 1	0.1 0.0 0.0 0.0 0.1 0.0	962 559 23 135 827 28	2.9 1.7 0.1 0.4 2.5 0.1
SMALL BOWEL Total Tx (all combinations included) Small bowel Tx (men) Paediatric (<18 years) Small bowel Tx alone	1 1 0 1	0.0 0.0 0.0 0.0	1 1 0 1	0.0 0.0 0.0 0.0	0	0.0	0	0.0	1 0 0 0	0.1 0.0 0.0 0.0	0	0.0	0	0.0	0	0.0	2 1 1 2	0.0 0.0 0.0 0.0	0	0.0	0	0.0	91 52 34 41	0.3 0.2 0.1 0.1
RECIPIENTS Total number of patients transplanted Male recipients Paediatric (<18 years) Patients transplanted from living donors	1944 1119 256 326	13.3 7.7 1.8 2.2	840 560 153 670	24.1 16.1 4.4 19.3	10 0 0	1.1 0.0 0.0	139 110 3 139	3.2 2.5 0.1 3.2	519 318 29 82	59.7 36.6 3.3 9.4	211 24 211	12.1 1.4 12.1	862 531 46 165	12.3 7.6 0.7 2.4	10 9 0 6	7.1 6.4 0.0 4.3	3830 2519 394 3427	45.4 29.9 4.7 40.7	130 10 96	3.0 0.2 2.2	75 39 6 51	7.6 3.9 0.6 5.2	37580 23390 1693 5718	

					TRA	NSPLA	NTATION	ACTIVI	TY									
					LAT	IN AME	RICAN CO	DUNTRI	ES									
COUNTRIES Population (million inhabitants): UNFPA	Argen 45.		Bolivi 11.7		Braz 212.		Chil		Colom 50.9		Costa F 5.1		Cuba 11.3		Dominican 10.8		Ecuad 17.	
r opulation (illinois illinabitants), ott i 7	15.	_	1102				SPLANTA		, ,		5				10.0	,	.,,,	
KIDNEY	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years) Tx from deceased donors - Tx from DCD - Single Tx - Double Tx Tx from living donors - Tx from related living donors - Tx from unrelated living donors Paired exchange or cross-over Non-directed altruistic or anonymous Directed altruistic	854 475 69 724 0 722 2 1330 123 7	18.9 10.5 1.5 16.0 0.0 16.0 0.0 2.9 2.7 0.2	10 4 1 0 0 0 0 0 10 10	0.9 0.3 0.1 0.0 0.0 0.0 0.0 0.9 0.9	4830 2920 269 4385 0 4376 9 445 410 35	22.7 13.7 1.3 20.6 0.0 20.6 0.0 2.1 1.9 0.2	233 131 20 212 0 212 2 2 21 21 0	12.2 6.9 1.0 11.1 0.0 11.1 0.1 1.1 1.1 0.0	526 313 35 406 0 404 2 120 97 23	10.3 6.1 0.7 8.0 0.0 7.9 0.0 2.4 1.9 0.5	41 28 4 33 0 33 0 8 8	8.0 5.5 0.8 6.5 0.0 6.5 0.0 1.6 1.6 0.0	64 45 2 55 0 55 0 9 9	5.7 4.0 0.2 4.9 0.0 4.9 0.0 0.8 0.8	28 15 0 8 0	2.6 1.4 0.0 0.7 0.0 1.9 1.9 0.0	57 31 2 51 0 51 0 6 6	3.2 1.8 0.1 2.9 0.0 2.9 0.0 0.3 0.3
LIVER Total Tx (all combinations included) Liver Tx (men) Paediatric (<18 years) Split Tx Domino Tx Tx from living donors Tx from DCD	316 176 71 20 0 30	7.0 3.9 1.6 0.4 0.0 0.7	0	0.0	2075 1401 208 18 1 141	9.8 6.6 1.0 0.1 0.0 0.7	127 58 28 2 0 23	6.6 3.0 1.5 0.1 0.0 1.2 0.0	199 88 79 14 0 71	3.9 1.7 1.6 0.3 0.0 1.4 0.0	15 7 4 0 0 1	2.9 1.4 0.8 0.0 0.0 0.2 0.0	2 1 2 0 0 2	0.2 0.1 0.2 0.0 0.0 0.2 0.0	1 0 0 0 0 0	0.1 0.0 0.0 0.0 0.0 0.0 0.0	9 4 0 0 0 0	0.5 0.2 0.0 0.0 0.0 0.0 0.0
HEART Total Tx (all combinations included) Heart Tx (men) Paediatric (<18 years) Tx from DCD	94 73 16	2.1 1.6 0.4	0	0.0	308 201 45 0	1.4 0.9 0.2 0.0	17 14 3 0	0.9 0.7 0.2 0.0	67 54 7 0	1.3 1.1 0.1 0.0	2 2 0 0	0.4 0.4 0.0 0.0	0	0.0	0	0.0	0	0.0
HEART-LUNG Total Tx Paediatric (<18 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
LUNG Total Tx (all combinations included) Lung Tx (men) Paediatric (<18 years) Single Tx Double Tx (heart-lung Tx included) Tx from DCD (double + single)	21 11 2 5 16 0	0.5 0.2 0.0 0.1 0.4 0.0	0	0.0	65 35 5 17 48 0	0.3 0.2 0.0 0.1 0.2 0.0	20 13 2 20 0	1.0 0.7 0.1 1.0 0.0 0.0	12 7 0 2 10	0.2 0.1 0.0 0.0 0.2 0.0	3 0 0 0 3	0.6 0.0 0.0 0.0 0.6 0.0	0	0.0	0	0.0	0	0.0
PANCREAS Total Tx (all combinations included) Pancreas Tx (men) Paediatric (<18 years) Pancreas Tx alone Kidney – Pancreas Tx Tx from DCD	48 22 0 3 45 0	1.1 0.5 0.0 0.1 1.0 0.0	0	0.0	148 67 0 40 108 0	0.7 0.3 0.0 0.2 0.5 0.0	5 2 0 0 5	0.3 0.1 0.0 0.0 0.3 0.0	5 2 1 0 4	0.1 0.0 0.0 0.0 0.1 0.0	0	0.0	0	0.0	1 0 0 0 1	0.1 0.0 0.0 0.0 0.0 0.1 0.0	0	0.0
SMALL BOWEL Total Tx (all combinations included) Small bowel Tx (men) Paediatric (<18 years) Small bowel Tx alone	1 0 0	0.0 0.0 0.0 0.0	0	0.0	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	0.0
RECIPIENTS Total number of patients transplanted Male recipients Paediatric (<18 years) Patients transplanted from living donors	1273 727 158 160	28.2 16.1 3.5 3.5	10 4 1 10	0.9 0.3 0.1 0.9	7290 4544 523 586	34.3 21.4 2.5 2.8	402 218 53 44	21.0 11.4 2.8 2.3	799 458 120 191	15.7 9.0 2.4 3.8	61 33 8 9	12.0 6.5 1.6 1.8	66 45 4 11	5.8 4.0 0.4 1.0	29 15 0 20	2.7 1.4 0.0 1.9	66 35 2 6	3.8 2.0 0.1 0.3

					TRA	NSPLA	NTATION A	ACTIVI	TY									
					LAT	IN AME	RICAN CO	UNTR	ES									
COUNTRIES Population (million inhabitants): UNFPA	El Salv		Guatem 17.9		Mexi 128		Nicarag	ua	Panai 4.3		Paragi 7.1		Peru 33.0	1	Urug 3.		Venez 28.	
r opulation (minion minastants), ott i 7	0.5		17.5		120		SPLANTAT	ION	1.5		7		55.0		J		20.	•
WOMEN	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP
KIDNEY Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years) Tx from deceased donors - Tx from DCD - Single Tx - Double Tx Tx from living donors - Tx from related living donors - Tx from unrelated living donors Paired exchange or cross-over Non-directed altruistic or anonymous Directed altruistic	11 0 0 0 0 0 0 11	1.7 0.0 0.0 0.0 0.0 0.0 1.7	29 15 3 0 0 0 0 29 25 4	1.6 0.8 0.2 0.0 0.0 0.0 0.0 1.6 1.4 0.2	913 585 69 283 0 278 5 630 630	7.1 4.5 0.5 2.2 0.0 2.2 0.0 4.9 4.9			13 7 0 6 0 6 0 7 7 7	3.0 1.6 0.0 1.4 0.0 1.4 0.0 1.6 1.6	4 3 1 1 0 3 3 0	0.6 0.4 0.1 0.0 0.0 0.4 0.4 0.0	49 33 18 29 0 29 0 20 20	1.5 1.0 0.5 0.9 0.0 0.9 0.0 0.6 0.6	120 73 8 112 0 112 0 8 8	34.3 20.9 2.3 32.0 0.0 32.0 0.0 2.3 2.3 0.0	0 2 0 0 0 0 0 3 3 0	0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1
LIVER Total Tx (all combinations included) Liver Tx (men) Paediatric (<18 years) Split Tx Domino Tx Tx from living donors Tx from DCD	0	0.0	0	0.0	72 37 17 0 0	0.6 0.3 0.1 0.0 0.0 0.1			3 1 0 0 0 0	0.7 0.2 0.0 0.0 0.0 0.0 0.0	0	0.0	17 9 10 0 0 6	0.5 0.3 0.3 0.0 0.0 0.2 0.0	28 21 2 0 0 1	8.0 6.0 0.6 0.0 0.0 0.3 0.0	0	0.0
HEART Total Tx (all combinations included) Heart Tx (men) Paediatric (<18 years) Tx from DCD	0	0.0	0	0.0	9 8 2 0	0.1 0.1 0.0 0.0			0	0.0	5 5 2 0	0.7 0.7 0.3 0.0	2 0 0	0.1 0.0 0.0 0.0	11 6 0	3.1 1.7 0.0 0.0	0	0.0
HEART-LUNG Total Tx Paediatric (<18 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
LUNG Total Tx (all combinations included) Lung Tx (men) Paediatric (<18 years) Single Tx Double Tx (heart-lung Tx included) Tx from DCD (double + single)	0	0.0	0	0.0	0 3 3 1 0	0.0 0.0 0.0 0.0 0.0			0	0.0	0	0.0	1 1 0	0.0 0.0 0.0	4 2 2 0 4 0	1.1 0.6 0.6 0.0 1.1 0.0	0	0.0
PANCREAS Total Tx (all combinations included) Pancreas Tx (men) Paediatric (<18 years) Pancreas Tx alone Kidney – Pancreas Tx 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
SMALL BOWEL Total Tx (all combinations included) Small bowel Tx (men) Paediatric (<18 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
RECIPIENTS Total number of patients transplanted Male recipients Paediatric (<18 years) Patients transplanted from living donors	11 0 11	1.7 0.0 1.7	29 15 3 29	1.6 0.8 0.2 1.6	997 633 88 640	7.7 4.9 0.7 5.0			16 8 0 7	3.7 1.9 0.0 1.6	9 8 3 3	1.3 1.1 0.4 0.4	69 43 28 26	2.1 1.3 0.8 0.8	162 101 12 9	46.3 28.9 3.4 2.6	3 2 0 3	0.1 0.1 0.0 0.1

COUNTRIES Population (million inhabitants): UNFPA KIDNEY	Austria 9.0	EUROP Belgium 11.6	EAN UNION (
Population (million inhabitants): UNFPA		_	Bulgaria	C						
	9.0	11.6		Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France
KIDNEY			6.9	4.1	1.2	10.7	5.8	1.3	5.5	65.3
N. TX CENTRES	4	7	3	4	1	7	3	1	1	47
Patients included on the WL for the first time in the course of 2020	389	433	102	191	17	386	261	58	277	4697
Total number of patients ever active on the WL during 2020	1020		1146	251	77	742	835	105	785	20855
Patients awaiting for a transplant (only active candidates) on 31/12/2020	588	952	987	225	63	435	373	41	360	8926
Patients who died while on the WL during 2020	32	33	122	12	1	29	11	1	15	579
Patients on dialysis on 31/12/2020	4642		1105		930			421		
LIVER										
N. TX CENTRES	3	6	2	2		2	1	1	1	20
Patients included on the WL for the first time in the course of 2020	187	285	19	112		226	63	11	73	1838
Total number of patients ever active on the WL during 2020	288		68	118		126	84	20	98	3384
Patients awaiting for a transplant (only active candidates) on 31/12/2020	81	181	38	115		105	14	4	15	840
Patients who died while on the WL during 2020	32	39	19	20		24	1	1	1	257
HEART										
N. TX CENTRES	2	7	1	2		2	2	0	1	24
Patients included on the WL for the first time in the course of 2020	60	82	10	27		70	34	· ·	31	543
Total number of patients ever active on the WL during 2020	108	02	49	32		98	54		68	936
Patients awaiting for a transplant (only active candidates) on 31/12/2020	42	110	42	27		50	13		42	299
Patients who died while on the WL during 2020	3	10	6	5		15	3		1	68
LUNG										
N. TX CENTRES	2	5	2	1		1	1	1	1	9
Patients included on the WL for the first time in the course of 2020	124	84	2			60	23	1	22	321
Total number of patients ever active on the WL during 2020	184		22			59	45	4	57	502
Patients awaiting for a transplant (only active candidates) on 31/12/2020	41	106	19			45	7	2	29	155
Patients who died while on the WL during 2020	2	10	3	1		13	3	1	1	16
PANCREAS										
N. TX CENTRES	3	7	0	1	1	1	1	1	1	12
Patients included on the WL for the first time in the course of 2020	15	12	0	7		43	7	9	35	70
Total number of patients ever active on the WL during 2020	27		9	7		66	16	16	44	285
Patients awaiting for a transplant (only active candidates) on 31/12/2020	5	22	8	7		40	6	7	12	98
Patients who died while on the WL during 2020	0	0	1	1		0	0	0	0	10
SMALL BOWEL										
N. TX CENTRES	1	6	0	1		1	0	0	1	10
Patients included on the WL for the first time in the course of 2020			1	0		3			0	5
Total number of patients ever active on the WL during 2020			1	0		3			1	8
Patients awaiting for a transplant (only active candidates) on 31/12/2020			1	0		3			0	3
Patients who died while on the WL during 2020			0	0		0			0	1

			WAITING LIST						
		EUROPE	AN UNION CO	UNTRIES					
COUNTRIES Population (million inhabitants): UNFPA	Germany 83.8	Greece 10.4	Hungary 9.7	Ireland 4.9	Italy 60.5	Latvia 1.9	Lithuania 2.7	Luxembourg 0.6	Malta 0.4
KIDNEY									
N. TX CENTRES	38	5	4	1	40	1	2		1
Patients included on the WL for the first time in the course of 2020	2926	142	285	152	1800	26	86		21
Total number of patients ever active on the WL during 2020	10074	1530	1109	661	8298	60	216		87
Patients awaiting for a transplant (only active candidates) on 31/12/2020	7338	1192	804	421	6123	19	119		93
Patients who died while on the WL during 2020	400	10	67	12	225	0	8		8
Patients on dialysis on 31/12/2020		12425	5877	2310		700			296
LIVER									
N. TX CENTRES	21	2	1	1	22	1	2		0
Patients included on the WL for the first time in the course of 2020	1416	57	90	57	1487	7	36		
Total number of patients ever active on the WL during 2020	2284	137	170	70	2466	11	121		
Patients awaiting for a transplant (only active candidates) on 31/12/2020	891	57	87	30	1079	8	90		
Patients who died while on the WL during 2020	217	31	18	4	100	1	12		
HEART									
N. TX CENTRES	22	1	2	1	16	1	2		1
Patients included on the WL for the first time in the course of 2020	528	22	65	16	346	3	19		
Total number of patients ever active on the WL during 2020	1250	61	125	24	984	14	62		
Patients awaiting for a transplant (only active candidates) on 31/12/2020	700	25	69	8	670	12	44		
Patients who died while on the WL during 2020	92	3	11	2	39	0	8		
LUNG									
N. TX CENTRES	13	1	1	1	11	0	1		0
Patients included on the WL for the first time in the course of 2020	433	7	14	34	176	0	1		
Total number of patients ever active on the WL during 2020	709	10	29	54	490	1	9		
Patients awaiting for a transplant (only active candidates) on 31/12/2020	279	7	8	30	320	1	8		
Patients who died while on the WL during 2020	49	0	2	5	37	0	0		
PANCREAS									
N. TX CENTRES	27	1	2	1	7	1	0		0
Patients included on the WL for the first time in the course of 2020	158	0	7	9	59	0	2		
Total number of patients ever active on the WL during 2020	425	0	41	20	313	0	10		
Patients awaiting for a transplant (only active candidates) on 31/12/2020	265	0	29	19	252	0	6		
Patients who died while on the WL during 2020	22	0	2	0	4	0	0		
SMALL BOWEL									
N. TX CENTRES	9	0	0	0	2	0	0		0
Patients included on the WL for the first time in the course of 2020				0	2	0			
Total number of patients ever active on the WL during 2020				0	10	0			
Patients awaiting for a transplant (only active candidates) on 31/12/2020				0	5	0			
Patients who died while on the WL during 2020				0	1	0			

		W	AITING LIST						
		EUROPEAN	NUNION COU	NTRIES					
COUNTRIES Population (million inhabitants): UNFPA	Netherlands 17.1	Poland 37.8	Portugal 10.2	Romania 19.2	Slovakia 5.5	Slovenia 2.1	Spain 46.8	Sweden 10.1	United Kingdom 67.9
KIDNEY									
N. TX CENTRES	10	22	8	4	4	1	40	4	24
Patients included on the WL for the first time in the course of 2020	831	776	370	366	131	27		386	2491
Total number of patients ever active on the WL during 2020	2196	2169	2381		389	33	6564	1229	7241
Patients awaiting for a transplant (only active candidates) on 31/12/2020	828	1060	1951	4792	244	54	3864	426	3879
Patients who died while on the WL during 2020	80	97	40		54	1		24	313
Patients on dialysis on 31/12/2020		23000	13375			1300	27985		
LIVER									
N. TX CENTRES	3	9	3	4	1	1	25	2	7
Patients included on the WL for the first time in the course of 2020	135	364	241	206	34	28	1236	198	898
Total number of patients ever active on the WL during 2020	379	511	329		51	46	1628	277	1459
Patients awaiting for a transplant (only active candidates) on 31/12/2020	111	145	118	401	26	15	404	70	490
Patients who died while on the WL during 2020	31	39	11	31	5	1	41	7	58
HEART									
N. TX CENTRES	3	6	4	2	1	1	18	2	7
Patients included on the WL for the first time in the course of 2020	116	246	46	7	30	29	338	50	248
Total number of patients ever active on the WL during 2020	188	734	77		69	71	486	101	624
Patients awaiting for a transplant (only active candidates) on 31/12/2020	133	423	33	27	32	34	148	28	362
Patients who died while on the WL during 2020	8	82	11	4	10	2	16	7	29
LUNG									
N. TX CENTRES	3	4	1	1	0	1	8	2	6
Patients included on the WL for the first time in the course of 2020	172	116	57	3	0	8	350	61	158
Total number of patients ever active on the WL during 2020	289	262	122		0	16	615	94	507
Patients awaiting for a transplant (only active candidates) on 31/12/2020	161	175	64	5	0	4	221	33	327
Patients who died while on the WL during 2020	17	36	9	2	0	0	16	4	70
PANCREAS									
N. TX CENTRES	2	5	2	1	1	1	13	4	8
Patients included on the WL for the first time in the course of 2020	46	28	36	0	0	1	90	24	160
Total number of patients ever active on the WL during 2020	80	74	56	0	0	2	205	42	332
Patients awaiting for a transplant (only active candidates) on 31/12/2020	47	64	29	0	0	0	95	15	116
Patients who died while on the WL during 2020	1	3	0	0	0	0	4	1	17
SMALL BOWEL									
N. TX CENTRES		1		0	0	0	3	1	4
Patients included on the WL for the first time in the course of 2020		0			0	0	8	0	27
Total number of patients ever active on the WL during 2020		0			0	0	19	2	43
Patients awaiting for a transplant (only active candidates) on 31/12/2020		0			0	0	11	1	17
Patients who died while on the WL during 2020		0			0	0	0	0	4

				WAITING	LIST								
			0	THER COU	NTRIES								
COUNTRIES	Albania	Algeria	Armenia	Australia	Bangladesh	Belarus	Bosnia and Herzegovina	Canada	China	Ethiopia	Georgia	Iceland	India
Population (million inhabitants): UNFPA	2.9	43.9	3.0	25.5	164.7	9.4	3.3	37.7	1447.4	115.0	4.0	0.3	1380.0
KIDNEY N. TX CENTRES Patients included on the WL for the first time in the course of 2020 Total number of patients ever active on the WL during 2020 Patients awaiting for a transplant (only active candidates) on 31/12/2020 Patients who died while on the WL during 2020 Patients on dialysis on 31/12/2020	1	14 350 25052	1	26 903 2185 1163 3 14595	10 1097 785 157 16500	7 349 536 169 51 3079	2 2 241 13	25 1704 96	132 29038 78324 59454 493	1 80 20 3 61	3	1	560 4437 27074 23076 1337 35492
LIVER N. TX CENTRES Patients included on the WL for the first time in the course of 2020 Total number of patients ever active on the WL during 2020 Patients awaiting for a transplant (only active candidates) on 31/12/2020 Patients who died while on the WL during 2020	0	3	2	8 331 466 131 7	3	1 103 257 155 16	1 7 22 5	9 398 116	103 11157 15991 5430 923	0	1	0	186 2133 6324 4470 773
HEART N. TX CENTRES Patients included on the WL for the first time in the course of 2020 Total number of patients ever active on the WL during 2020 Patients awaiting for a transplant (only active candidates) on 31/12/2020 Patients who died while on the WL during 2020	0	0	0	5	0	1 63 136 68 15	0	97 11	56 1084 1423 556 108	0	0	0	151 220 607 418 57
LUNG N. TX CENTRES Patients included on the WL for the first time in the course of 2020 Total number of patients ever active on the WL during 2020 Patients awaiting for a transplant (only active candidates) on 31/12/2020 Patients who died while on the WL during 2020	0	0	0	4	0	2 12 47 33 4	0 0 0 0	5 164 36	43 723 812 147 50	0	0	0	78 144 217 87 46
PANCREAS N. TX CENTRES Patients included on the WL for the first time in the course of 2020 Total number of patients ever active on the WL during 2020 Patients awaiting for a transplant (only active candidates) on 31/12/2020 Patients who died while on the WL during 2020	0	0	0	3 32 159 49	0	1 1 13 7 4	0 0 0 0	8 58 10	45	0	0	0	50 26 102 80 3
SMALL BOWEL N. TX CENTRES Patients included on the WL for the first time in the course of 2020 Total number of patients ever active on the WL during 2020 Patients awaiting for a transplant (only active candidates) on 31/12/2020 Patients who died while on the WL during 2020	0	0	0	1 1 4 3 0	0	1 0 0 0	0 0 0 0	2	42	0	0	0	17 6 16 7

			WAI	TING LIST									
			OTHER	COUNTRIE	S								
COUNTRIES	Israel	Japan	Kenya	Kuwait	Malaysia	Mongolia	New Zealand	Norway	Oman	Pakistan	Qatar	Rep. of Moldova	Rep. of North Macedonia
Population (million inhabitants): UNFPA	8.7	126.5	53.8	4.3	32.4	3.3	4.8	5.4	5.1	220.9	2.9	4.0	2.1
KIDNEY													
N. TX CENTRES	6	130	7	1	7	1	4	1	2	7	1	1	1
Patients included on the WL for the first time in the course of 2020	423	1447		103	70	33		223			40	7	18
Total number of patients ever active on the WL during 2020	1294	13995		335	95	287		837			148	39	156
Patients awaiting for a transplant (only active candidates) on 31/12/2020	917	13163		154	53	250		415			123	25	127
Patients who died while on the WL during 2020	16	172		16	1	8		16			1	3	17
Patients on dialysis on 31/12/2020	6866	344640		2000	46502	250			20135	12000	900	888	1624
LIVER													
N. TX CENTRES	3	25	0	1	3	2	2	1	1	7	1	1	0
Patients included on the WL for the first time in the course of 2020	160	256		6	39	41		84			6	8	
Total number of patients ever active on the WL during 2020	246	545		12	48	185		122			11	65	
Patients awaiting for a transplant (only active candidates) on 31/12/2020	110	308		10	21	149		20			9	59	
Patients who died while on the WL during 2020	16	109		0	3	4		4			1	4	
HEART													
N. TX CENTRES	2	11	0	1	1	0	1	1	0	0	0	0	0
Patients included on the WL for the first time in the course of 2020	53	208			1			31				0	
Total number of patients ever active on the WL during 2020	124	980			8			44				0	
Patients awaiting for a transplant (only active candidates) on 31/12/2020	93	880			7			9				0	
Patients who died while on the WL during 2020	6	39			1			2				0	
LUNG													
N. TX CENTRES	2	11	0	0	1	0	1	1	0	0	0		0
Patients included on the WL for the first time in the course of 2020	94	174			0			40					
Total number of patients ever active on the WL during 2020	225	464			4			75					
Patients awaiting for a transplant (only active candidates) on 31/12/2020	137	341			0			37					
Patients who died while on the WL during 2020	24	52			3			3					
PANCREAS													
N. TX CENTRES	2	18	0	1		0	1	1	0	0	0		0
Patients included on the WL for the first time in the course of 2020	6	38		3				6					
Total number of patients ever active on the WL during 2020	14	242		6				23					
Patients awaiting for a transplant (only active candidates) on 31/12/2020	9	118		6				10					
Patients who died while on the WL during 2020	1	4		0				1					
SMALL BOWEL													
N. TX CENTRES	1	12	0	0		0		0	0	0	0		0
Patients included on the WL for the first time in the course of 2020		5											
Total number of patients ever active on the WL during 2020		10											
Patients awaiting for a transplant (only active candidates) on 31/12/2020		6											
Patients who died while on the WL during 2020		0											

			V	WAITING L	.IST							
			ОТІ	HER COUN	ITRIES							
COUNTRIES	Russian Federation	Saudi Arabia	Serbia	Sudan	Switzerland	Syrian Arab Rep.	Thailand	Trinidad and Tobago	Turkey	Ukraine	United Arab Emirates	United States of America
Population (million inhabitants): UNFPA	145.9	34.8	8.7	43.8	8.7	17.5	69.8	1.4	84.3	43.7	9.9	331.0
KIDNEY												
N. TX CENTRES	44	16	4	7	6	5	44	1	78	10	6	233
Patients included on the WL for the first time in the course of 2020	1433	2073			378		1127	6	4195		113	28804
Total number of patients ever active on the WL during 2020	6929	5856					6635	14	27399		207	81913
Patients awaiting for a transplant (only active candidates) on 31/12/2020	5680	5311			511		5022	10	22076		146	54761
Patients who died while on the WL during 2020	125				21		185	0	2593		0	4415
Patients on dialysis on 31/12/2020	60000	21568	60	9725	450		164191	1127	62755		1260	746557
LIVER												
N. TX CENTRES	29	6	2	0	3	0	10	0	49	3	1	142
Patients included on the WL for the first time in the course of 2020	780	240			216		196		1836		36	11725
Total number of patients ever active on the WL during 2020	2237	540					421		3496		48	22644
Patients awaiting for a transplant (only active candidates) on 31/12/2020	1554	296			119		213		1616		36	9299
Patients who died while on the WL during 2020	124				39		30		518		1	1080
HEART												
N. TX CENTRES	16	3	1	0	3	0	5	0	15	4	1	144
Patients included on the WL for the first time in the course of 2020	303	75	·	-	55	-	45	-	357	·	8	4188
Total number of patients ever active on the WL during 2020	708	120					78		1520		17	7431
Patients awaiting for a transplant (only active candidates) on 31/12/2020	404	92			60		25		1213		6	2597
Patients who died while on the WL during 2020	53				0		14		266		0	239
LUNG												
N. TX CENTRES	3	1	0	0	2	0	5	0	4	0	1	69
Patients included on the WL for the first time in the course of 2020	46	65	· ·	· ·	61	Ü	1	Ü	95	Ü	2	2482
Total number of patients ever active on the WL during 2020	94	70			0.		6		159		4	3850
Patients awaiting for a transplant (only active candidates) on 31/12/2020	76	50			39		4		109		3	754
Patients who died while on the WL during 2020	7	50			4		2		29		0	149
PANCREAS												
N. TX CENTRES	3	2	0	0	2	0	4	0	8	0	1	124
Patients included on the WL for the first time in the course of 2020	14	10			6	Ŭ	1	3	8	J	3	1339
Total number of patients ever active on the WL during 2020	114	25					2		286		3	2359
Patients awaiting for a transplant (only active candidates) on 31/12/2020	98	23			5		2		266		2	954
Patients who died while on the WL during 2020	0	23			2		0		19		0	110
SMALL BOWEL												
N. TX CENTRES	0	1	0	0	2	0	2	0	2	0	0	21
Patients included on the WL for the first time in the course of 2020	1	4	U	U	1	Ū	2	U	2	U	J	116
Total number of patients ever active on the WL during 2020	1	6							2			248
Patients awaiting for a transplant (only active candidates) on 31/12/2020	0	5			0				0			148
Patients who died while on the WL during 2020	0	5			0				1			9
Tatients who died write on the WL during 2020	U				U				1			9

			WAITING LIST						
		LATIN A	AMERICAN CO	UNTRIES					
COUNTRIES	Argentina	Bolivia	Brazil	Chile	Colombia	Costa Rica	Cuba	Dominican Republic	Ecuador
Population (million inhabitants): UNFPA	45.2	11.7	212.6	19.1	50.9	5.1	11.3	10.8	17.6
KIDNEY									
N. TX CENTRES	61	10	171	21	27	7	9	5	9
Patients included on the WL for the first time in the course of 2020	1182	25	9774		1067	121	200	22	127
Total number of patients ever active on the WL during 2020	6721		34920		4039	295	400	216	538
Patients awaiting for a transplant (only active candidates) on 31/12/2020	5116		25314		2741	340	400	191	165
Patients who died while on the WL during 2020	454		1567		196	32		17	81
Patients on dialysis on 31/12/2020	29213	5200	108611		34568	624	3500	4267	18000
LIVER									
N. TX CENTRES	33	0	87	11	12	4	3	1	6
Patients included on the WL for the first time in the course of 2020	616		3175		145	63	14	14	20
Total number of patients ever active on the WL during 2020	1994		4388		423	43	22	43	28
Patients awaiting for a transplant (only active candidates) on 31/12/2020	1395		1068		160	39	13	34	9
Patients who died while on the WL during 2020	187		562		37	29	23	8	10
HEART									
N. TX CENTRES	27	0	59	8	10	1	1	2	1
Patients included on the WL for the first time in the course of 2020	160	ŭ	475	Ü	39	1	6	-	0
Total number of patients ever active on the WL during 2020	298		761		113	9	12		0
Patients awaiting for a transplant (only active candidates) on 31/12/2020	134		272		25	2	8		0
Patients who died while on the WL during 2020	43		95		10	0	8		0
LUNG									
N. TX CENTRES	8	0	8	4	6	1	0	0	1
Patients included on the WL for the first time in the course of 2020	88		134		33	3	0		0
Total number of patients ever active on the WL during 2020	345		324		69	9	0		2
Patients awaiting for a transplant (only active candidates) on 31/12/2020	291		218		47	1	0		0
Patients who died while on the WL during 2020	25		39		6	0	0		0
PANCREAS									
N. TX CENTRES	16	0	41	3	5	1	0	1	0
Patients included on the WL for the first time in the course of 2020	65		204		1	0	0		0
Total number of patients ever active on the WL during 2020	231		617		3	0	0		0
Patients awaiting for a transplant (only active candidates) on 31/12/2020	151		295		3	0	0		0
Patients who died while on the WL during 2020	14		42		0	0	0		0
SMALL BOWEL									
N. TX CENTRES	2	0	3	2	4	1	0	0	0
Patients included on the WL for the first time in the course of 2020	11		5		1	0	0		0
Total number of patients ever active on the WL during 2020	22		10		2	0	0		0
Patients awaiting for a transplant (only active candidates) on 31/12/2020	16		7		2	0	0		0
Patients who died while on the WL during 2020	3		0		0	0	0		0

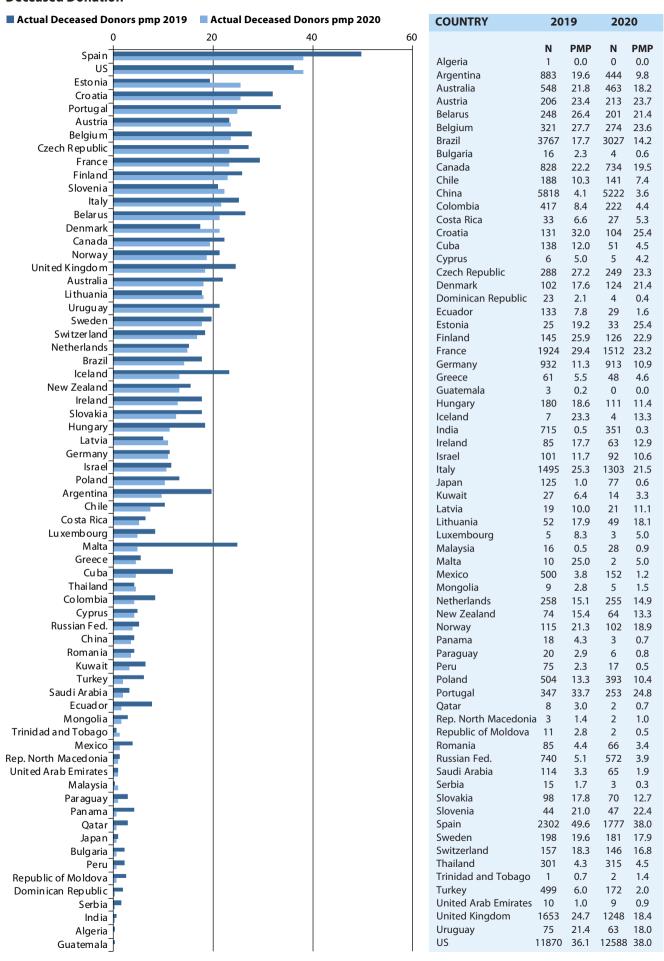
		W	AITING LIST						
		LATIN AMI	RICAN COUN	ITRIES					
COUNTRIES Population (million inhabitants): UNFPA	El Salvador 6.5	Guatemala 17.9	Mexico 128.9	Nicaragua	Panama 4.3	Paraguay 7.1	Peru 33.0	Uruguay 3.5	Venezuela 28.4
KIDNEY									
N. TX CENTRES		4	270		2	6	12	4	8
Patients included on the WL for the first time in the course of 2020			1729		30	10	48	143	25
Total number of patients ever active on the WL during 2020			18798		40	60	1012	540	870
Patients awaiting for a transplant (only active candidates) on 31/12/2020			16990		120	41	944	375	870
Patients who died while on the WL during 2020			240		10	1	68	20	
Patients on dialysis on 31/12/2020		9245			2310	1600	12773		10325
LIVER									
N. TX CENTRES		1	82		1	1	4	1	3
Patients included on the WL for the first time in the course of 2020			152			0	5	37	0
Total number of patients ever active on the WL during 2020			469			5	42	64	6
Patients awaiting for a transplant (only active candidates) on 31/12/2020			307			5	12	31	6
Patients who died while on the WL during 2020			38			0	13	3	0
HEART									
N. TX CENTRES			58		1	4	3	3	1
Patients included on the WL for the first time in the course of 2020			23			9	3	22	0
Total number of patients ever active on the WL during 2020			66			17	9	69	0
Patients awaiting for a transplant (only active candidates) on 31/12/2020			50			8	3	42	0
Patients who died while on the WL during 2020			3			3	4	7	0
LUNG									
N. TX CENTRES			13		0	0	2	1	0
Patients included on the WL for the first time in the course of 2020			3			0	1	4	0
Total number of patients ever active on the WL during 2020			7			0	13	20	0
Patients awaiting for a transplant (only active candidates) on 31/12/2020			2			0	1	16	0
Patients who died while on the WL during 2020			0			0	4	0	0
PANCREAS									
N. TX CENTRES			24		0	0	2	0	0
Patients included on the WL for the first time in the course of 2020			1			0	2	0	0
Total number of patients ever active on the WL during 2020			6			0	2	0	0
Patients awaiting for a transplant (only active candidates) on 31/12/2020			6			0	2	0	0
Patients who died while on the WL during 2020			0			0	0	0	0
SMALL BOWEL									
N. TX CENTRES			4		0	0	0	0	0
Patients included on the WL for the first time in the course of 2020			0			0		0	0
Total number of patients ever active on the WL during 2020			0			0		0	0
Patients awaiting for a transplant (only active candidates) on 31/12/2020			0			0		0	0
Patients who died while on the WL during 2020			0			0		0	0



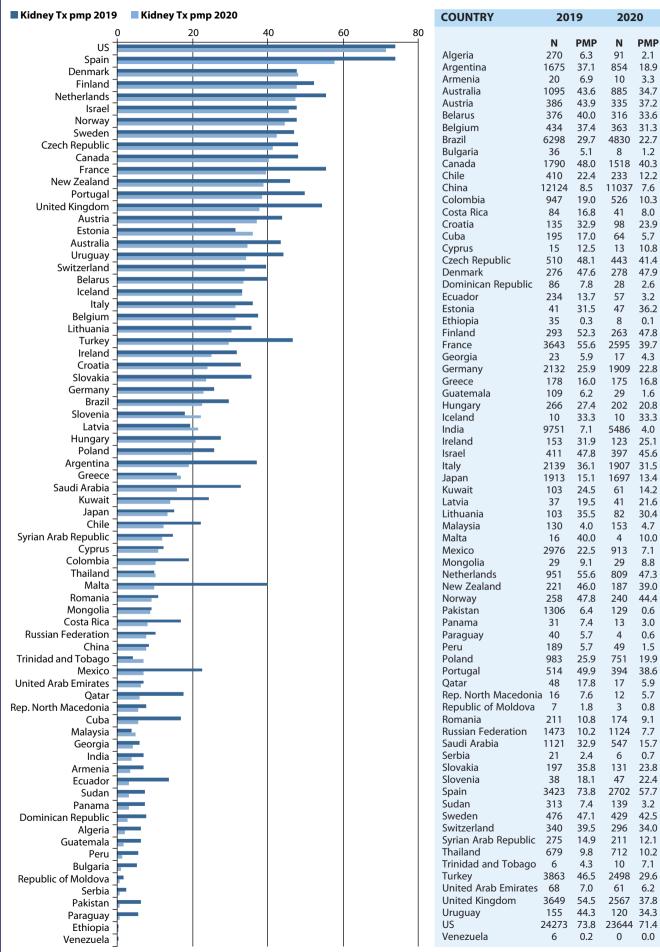
International Data on Organ Donation and Transplantation Activity. Year 2020 vs 2019



Deceased Donation



Kidney Transplants



2020 VS 2019. GLOBAL DATA ON ORGAN DONATION AND TRANSPLANTATION **Liver Transplants** Liver Tx pmp 2019 Liver Tx pmp 2020 COUNTRY 2019 2020 20 30 40 **PMP PMP** N N US Algeria 12 0.3 2 0.0 Croatia Argentina 504 11.2 316 7.0 Spain Armenia 3 1.0 1 03 Belgium Australia 310 12.4 277 10.9 Italy 151 Austria 17.2 158 17.6 Portugal **Belarus** 93 9.9 86 9.1 Austria Belgium 289 24.9 235 20.3 France 2265 2075 98 Brazil 10.7 Sweden Bulgaria 14 2.0 1.0 Norway 609 Canada 16.3 565 15.0 Czech Republic Chile 164 9.0 127 6.6 Turkey China 6170 4.3 5842 4.0 Switzerland Colombia 199 261 5.2 3.9 Canada Costa Rica 19 3.8 15 2.9 Finland Croatia 123 30.0 95 23.2 **United Kingdom** Cuba 10 0.9 2 0.2 Slovenia Czech Republic 197 18.6 172 16.1 New Zealand Denmark 64 110 66 114 Denmark Dominican Republic 5 0.5 1 0.1 Netherlands Ecuador 27 1.6 9 0.5 Australia Estonia 10 7.7 12 9.2 Germany Finland 64 11.4 75 13.6 Israel France 1356 20.7 17.3 1128 Brazil 21 2.5 Georgia 5.4 10 Mongolia Germany 831 10.1 826 9.9 Estonia Greece 33 3.0 32 3.1 Belarus Hungary 79 8.1 50 5.2 Uruguay India 2592 1780 1.9 1.3 Poland Ireland 66 13.8 37 7.6 Ireland 99 Israel 11.5 85 9.8 Saudi Arabia Italy 1301 22.0 1202 19.9 Argentina Japan 395 3.1 380 3.0 Chile Kuwait 2 0.5 6 1.4 Lithuania Latvia 2 1.1 2 1.1 Hungary Lithuania 17 5.9 14 5.2 China 8 0.2 28 0.9 Malaysia Colombia Malta 0 0.0 1 2.5 **Russian Federation** Mexico 223 72 0.6 1.7 Slovakia Mongolia 39 12.2 32 9.7 190 Romania Netherlands 11.1 186 10.9 New Zealand 58 12.1 55 11.5 Greece Japan Norway 94 17.4 88 16.3 285 **Pakistan** 1.4 60 0.3 Costa Rica Georgia

Malta

India

Latvia

Bulgaria

Malaysia

Panama

Mexico

Ecuador

Kuwait

Qatar

Serbia

Armenia

Pakistan

Cuba

Algeria

Paraguay

Peru

Thailand

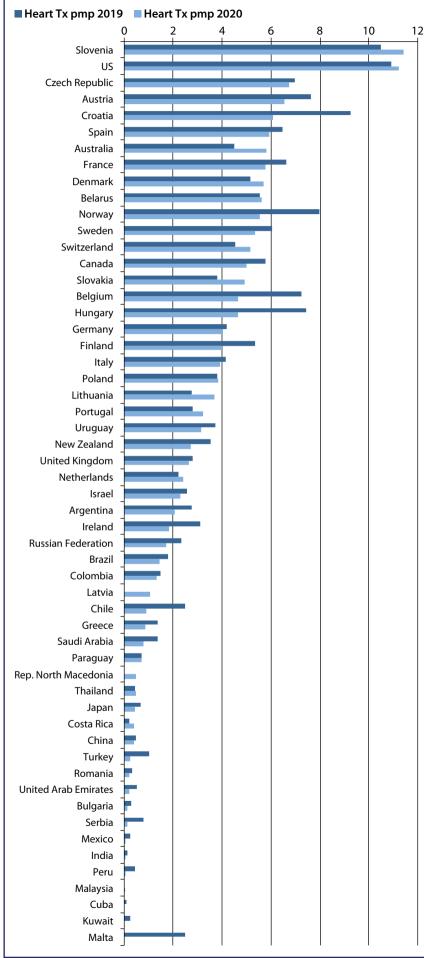
United Arab Emirates

Republic of Moldova

Dominican Republic

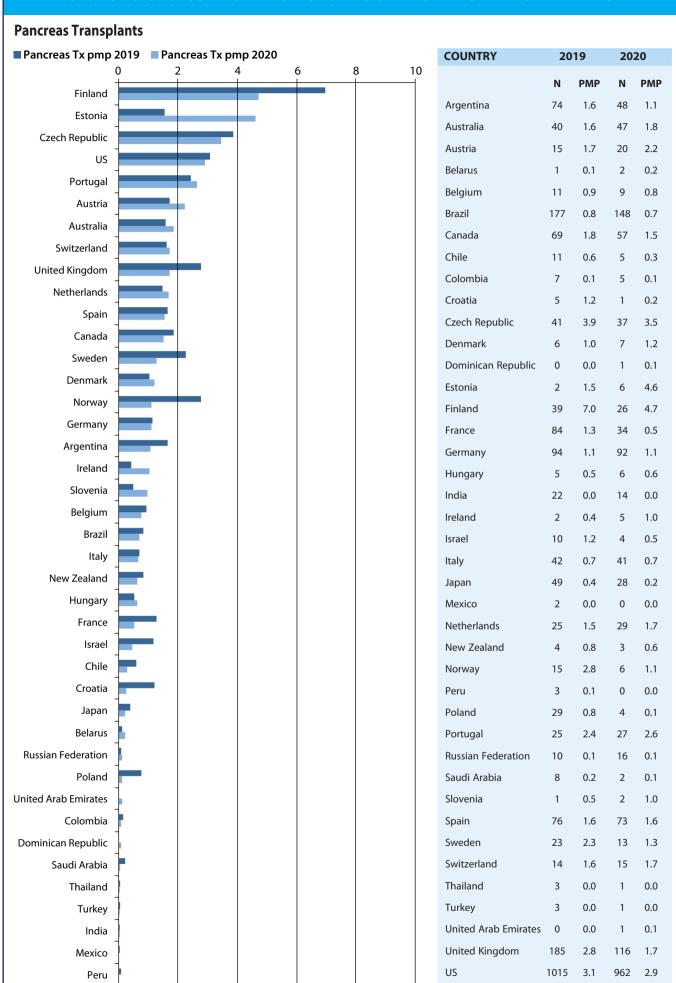
Syrian Arab Republic

Heart Transplants

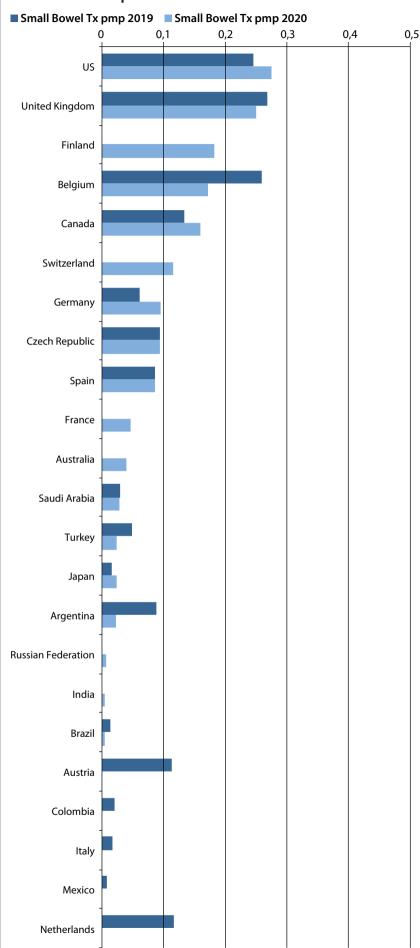


COUNTRY	20	19	202	20
	N	PMP	N	PMP
Argentina	124	2.7	94	2.1
Australia	113	4.5	148	5.8
Austria	67	7.6	59	6.6
Belarus	52	5.5	53	5.6
Belgium	84	7.2	54	4.7
Brazil	383	1.8	308	1.4
Bulgaria	2	0.3	1	0.1
Canada	215	5.8	188	5.0
Chile	45	2.5	17	0.9
China Colombia	679 74	0.5	557 67	0.4 1.3
Costa Rica	7 4 1	1.5 0.2	2	0.4
Croatia	38	9.3	25	6.1
Cuba	1	0.1	0	0.0
Czech Republic	74	7.0	72	6.7
Denmark	30	5.2	33	5.7
Finland	30	5.4	22	4.0
France	434	6.6	378	5.8
Germany	344	4.2	339	4.0
Greece	15	1.4	9	0.9
Hungary	72	7.4	45	4.6
India	187	0.1	89	0.1
Ireland	15	3.1	9	1.8
Israel	22	2.6	20	2.3
Italy	245	4.1	238	3.9
Japan	84	0.7	54	0.4
Kuwait	1	0.2	0	0.0
Latvia	0	0.0	2	1.1
Lithuania	8	2.8	10	3.7
Malaysia	0	0.0	1	0.0
Malta Mexico	1	2.5 0.2	0	0.0
Netherlands	33 38	2.2	9 41	0.1 2.4
New Zealand	36 17	3.5	13	2.7
Norway	43	8.0	30	5.6
Paraguay	5	0.7	5	0.7
Peru	15	0.5	2	0.1
Poland	145	3.8	145	3.8
Portugal	29	2.8	33	3.2
Rep. North Macedonia	0	0.0	1	0.5
Romania	6	0.3	4	0.2
Russian Federation	337	2.3	251	1.7
Saudi Arabia	46	1.3	28	8.0
Serbia	7	0.8	1	0.1
Slovakia	21	3.8	27	4.9
Slovenia	22	10.5	24	11.4
Spain	300	6.5	278	5.9
Sweden	61	6.0	54	5.3
Switzerland	39	4.5	45	5.2
Thailand	31	0.4	33	0.5
Turkey	84	1.0	21	0.2
United Arab Emirates	5	0.5	2	0.2
United Kingdom	188	2.8	179	2.6
	3597	10.9	3716	11.2
Uruguay	13	3.7	11	3.1

Lung Transplants ■ Lung Tx pmp 2019 Lung Tx pmp 2020 COUNTRY 2019 2020 10 15 РМР РМР N N Austria 0 0.0 0 0.0 Algeria Canada Argentina 21 36 0.8 0.5 Belgium Australia 183 7.3 158 6.2 US Austria 100 11.4 100 11.1 Slovenia 9 Belarus 1.0 10 1.1 Spain Belgium 113 9.7 93 8.0 Australia Brazil 106 0.5 65 0.3 Norway Bulgaria 0.1 0 0.0 1 Netherlands Canada 403 10.8 325 8.6 Switzerland Chile 21 1.1 20 1.0 Sweden China 489 0.3 513 0.4 Denmark Colombia 28 0.6 12 0.2 New Zealand Costa Rica 2 0.4 3 0.6 France Czech Republic 4.0 42 35 3.3 Germany Denmark 30 5.2 29 5.0 Israel Ecuador 0 1 0.1 0.0 Finland Estonia 3 2.3 0 0.0 Czech Republic Finland 27 4.8 21 3.8 Ireland France 393 6.0 291 4.5 Portugal Germany 361 4.4 344 4.1 Malta Greece 0 0.0 3 0.3 Italy Hungary 18 1.9 17 1.8 Hungary Iceland 0 0 0.0 0.0 **United Kingdom** India 114 0.1 0.0 67 Poland 7.9 Ireland 38 16 3.3 Uruguay Israel 52 6.0 34 3.9 **Belarus** Italy 153 2.6 115 1.9 Chile 92 0.7 75 Japan 0.6 Japan Lithuania 0.3 0.4 Costa Rica n 0.0 0.0 Malaysia 1 Saudi Arabia Malta 0 0.0 2.5 Argentina 7 Mexico 0.1 0 0.0 Lithuania Netherlands 105 6.1 87 5.1 China New Zealand 26 5.4 23 4.8 Brazil Norway 33 6.1 28 5.2 Greece Peru 0.0 1 0.0 Colombia Poland 57 1.5 51 1.3 Turkey Portugal 39 3.8 33 3.2 **United Arab Emirates** Romania 3 0.2 1 0.1 **Russian Federation** 0.1 Russian Federation 25 0.2 11 Romania Saudi Arabia 38 1.1 20 0.6 India Slovenia 10 4.8 16 7.6 Malaysia Spain 419 9.0 336 7.2 Sweden 56 5.5 51 5.0 Peru Thailand Switzerland 4.5 44 5.1 Syrian Arab Republic 0.0 0.0 0 0 Algeria Thailand 0 0.0 0.0 1 Bulgaria Turkey 0.1 Ecuador 33 0.4 11 **United Arab Emirates** 4 0.4 1 0.1 Estonia United Kingdom 167 2.5 99 1.5 Iceland Uruguay 5 4 1.4 1.1 Mexico US 2759 8.4 2597 7.8 Syrian Arab Republic

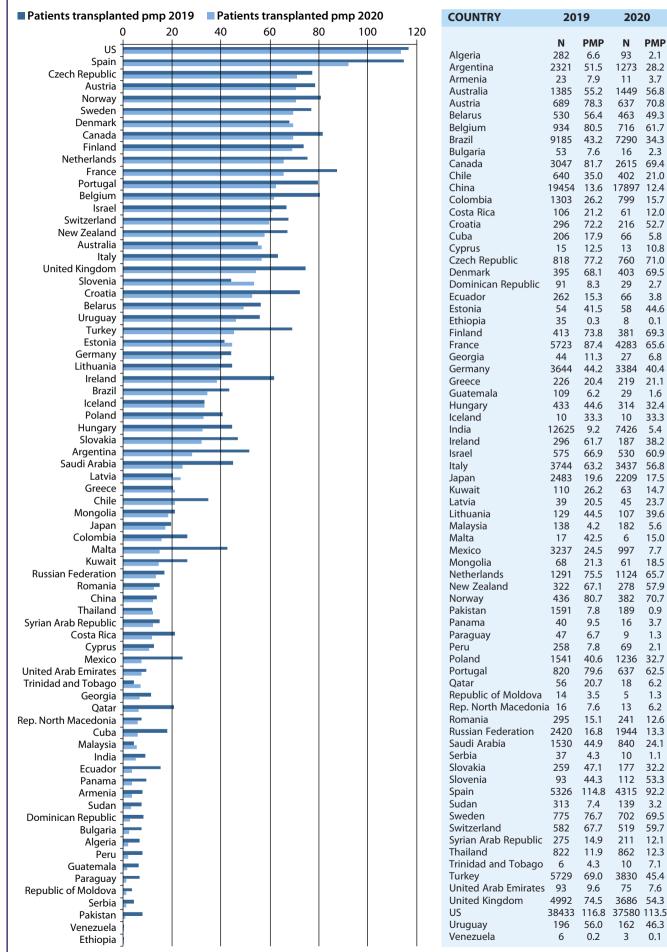






COUNTRY	20	19	20	20
	N	PMP	N	PMP
Argentina	4	0.1	1	0.0
Australia	0	0.0	1	0.0
Austria	1	0.1	0	0.0
Belgium	3	0.3	2	0.2
Brazil	3	0.0	1	0.0
Canada	5	0.1	6	0.2
Colombia	1	0.0	0	0.0
Czech Republic	1	0.1	1	0.1
Finland	0	0.0	1	0.2
France	0	0.0	3	0.0
Germany	5	0.1	8	0.1
India	0	0.0	7	0.0
Italy	1	0.0	0	0.0
Japan	2	0.0	3	0.0
Mexico	1	0.0	0	0.0
Netherlands	2	0.1	0	0.0
Russian Federation	0	0.0	1	0.0
Saudi Arabia	1	0.0	1	0.0
Spain	4	0.1	4	0.1
Switzerland	0	0.0	1	0.1
Turkey	4	0.0	2	0.0
United Kingdom	18	0.3	17	0.3
US	81	0.2	91	0.3

Patients transplanted



3.7

2.3

15.7

12.0

5.8

10.8

2.7

3.8

0.1

6.8

1.6

17.5

147

5.6

15.0

7.7

18.5

0.9

3.7

1.3

2.1

6.2

1.3

62

13.3

1.1

3.2

12.1

7.1

7.6

0.1



International Data on Tissues and Haematopoietic Stem Cell Donation and Transplantation Activity. Year 2020



Preliminary European Figures on Tissue & Cell (HPC) Donation and Transplantation Activities, documents produced by the "EUROCET - European Network of Competent Authorities for Tissues and Cells" (2020)



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Latvia

Evaldas Valys

European Network of Competent Authorities for Tissues and Cells

Glossary (Tissues)

A

Adipose tissue: loose connective tissue, composed of adipocytes and stromal vascular fraction, which serves as energy storage and endocrine organ.

Amniotic membrane: the innermost layer of the placenta consisting of a thick basement membrane and an avascular stromal matrix.

Autologous: refers to tissues or cells removed from and applied in the same individual.

В

Blood vessels: part of the circulatory system that transport blood throughout the body. They include arteries (ducts transporting blood from the heart to the periphery) and veins (ducts transporting blood from the periphery to the heart).

C

Cornea: the transparent anterior part of the outer fibrous coat of the eye. A collagenous tissue bounded by an outer stratified epithelium and an inner monolayer of endothelial cells. The major refractive component of the eye.

Craniectomy: the surgical removal of a portion of the skull.

D

Distribution: the transportation and delivery of tissues and cells intended for human application to other tissue establishments or the organisation responsible for human application in the EU. It does not include the issuing of tissues and cells for immediate transplantation.

Donation: donating human tissues or cells intended for human applications. One donation may include more units of the same tissue.

E

Export: the transportation and delivery of tissues and cells intended for human application to a tissue establishment or an organisation responsible for human application outside the EU (third country).

Н

Heart valve: one of the four structures within the heart that prevent backflow of blood by opening and closing with each heartbeat. They include two semilunar valves (aortic and pulmonary), the mitral (or bicuspid) valve, and the tricuspid valve. They permit blood flow in only one direction.

ī

Import: the act of bringing tissues or cells into a EU Member State from a country outside the EU (third country) for the purpose of human application, further processing or storage.

M

Musculoskeletal: tissues that are part of the skeleton and muscular system, including muscles, bones, cartilage, tendons and ligaments, which function in the support and movement of the body.

N

Number of tissues distributed: number of tissue transported and delivered for human application.

Number of tissues processed: number of tissues that were declared suitable for human application after having undergone the required operations (preparation, manipulation, preservation, storage and packaging).

Number of tissue procured: the number of donated tissue made available through the process of procurement.

Number of recipients for each type of tissues: the total number of patients who had at least one unit of tissues or cells applied during the year concerned in a given country.

0

Ocular tissue: tissue from the eye ball such as corneal tissue, scleral tissue or limbal tissue procured from a donor for human application.

Other tissue: all human tissues for human application that does not have a dedicated row on the form.

D

Pancreas: a large lobulated gland that in humans lies in front of the upper lumbar vertebrae and behind the stomach and is somewhat hammer-shaped and firmly attached anteriorly to the curve of the duodenum with which it communicates through one or more pancreatic ducts.

Pancreatic islets: preparation of a group of heterogeneous cells containing functional insulin-producing cells (beta cells) and glucagon-producing cells (alpha cells) for human application.

Parathyroid: endocrine glands producing and secreting parathyroid hormone.

Placenta: an organ that connects the developing foetus to the uterine wall to allow nutrient uptake, waste elimination and gas exchange via the mother's blood supply.

R

Recipient: person to whom human tissues, cells or reproductive cells and embryos are applied.

Retrieval or procurement: a process by which tissues or cells are made available for banking or human application. This process includes donor identification, evaluation, obtaining consent for donation, donor maintenance and retrieval of tissues, cells or organs.

S

Skin: an allograft comprising of the epidermis and part or all of the dermis.

T

Tissue: an aggregate of cells joined together by, for example, connective structures and performing a particular function.

Tissue donation (effective): when tissue intended for human application is retrieved from a human body.

Transplantation/implantation/grafting: transfer (engraftment) of human tissues or cells from a donor to a recipient with the aim of restoring function(s) in the body.

U

Unit: a single piece of tissue or a packaging containing a defined amount of tissue ready for distribution.

European Network of Competent Authorities for Tissues and Cells

Glossary (Haematopoietc Progenitor Cells)

A

Allogeneic: refers to tissues or cells removed from one individual and applied to another of the same species.

Autologous use: refers to tissues or cells removed from and applied in the same individual.

В

Banking: processing, preservation, storage and distribution of cells for human application or other purposes, including research and training.

C

Collection: any procedure for procuring a cellular therapy product regardless of technique or source (Synonym: harvest).

Cord blood: blood collected from placental vessels and umbilical cord blood vessels after the umbilical cord is clamped and/or severed as a source of haematopoietic progenitor cells.

Cord blood bank: a specific type of tissue establishment in which haematopoietic progenitor cells collected from placental and umbilical cord blood vessels are processed, cryopreserved and stored. It may also be responsible for collection, testing or distribution.

D

Distribution: the transportation and delivery of tissues and cells intended for human application to other tissue establishments or the organisation responsible for human application in the EU. It does not include the issuing of tissues and cells for immediate transplantation.

Donation: donating human tissues or cells intended for human applications.

Donor: a person who is the source of cells or tissue for a cellular therapy product.

Donor registry: an organisation responsible for coordinating the search for hematopoietic cells from donors (including cord blood) unrelated to the potential recipient.

Н

Haematopoietic Progenitor Cells (HPC): primitive haematopoietic cells capable of self-renewal as well as maturation into any of the haematopoietic lineages, including committed and lineage-restricted progenitor cells, unless otherwise specified and regardless of tissue source. Also referred to as "haematopoietic stem cells".

R

Recipient: person to whom human tissues, cells or reproductive cells and embryos are applied.

Related: existence of a genetic relationship between donor and recipient.

S

Search: the process of identifying a suitable stem cell source for a patient in need of a transplant.

Т

Transplantation: the administration of allogeneic, autologous, or syngeneic HPC with the intent of providing transient or permanent engraftment in support of therapy of disease.

U

Unrelated: where there exists no genetic relationship between donor and recipient.

					PRELI	MINARY I	DATA ON TISS	UES - YEA	R 2020							
						EUROPE	AN UNION CO	DUNTRIES								
Country		Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Ireland	Italy
Population (Source: UNFPA, State of world population, 2	020 - in millions)	9.0	11.6	6.9	4.1	1.2	10.7	5.8	1.3	5.5	65.3	83.8	10.4	9.7	4.9	60.5
TYPE OF TISSUE	TYPE OF DATA															
CORNEA	N. of tissue donations			77	329		515		27	187				115		6279
	Tissue donation PMP			11.2	80.2		48.1		20.8	34.0				11.9		103.8
	N. of tissues retrieved			153	393		1022		54	373		11443		185		12273
	N. of tissues processed (units)	683		153	236		966		55	250		10713		160		
	N. of tissues distributed															
	nationally (units)			144	250		618		53	276		8400		129		5301
	N. of tissues imported (units)	0		7	0		0		0	26		1100		0		
	N. of tissues exported (units)			0	0		139		0	0		65		0		791
	N. of tissues transplanted			132	249		756		61					144		
	N. of patients transplanted	552		128	230		756		60	260				144		4720
	N. of transplant procedures			132	245		756							144		4730
SKIN	N. of tissue donations			120	0		116		3	29				0		407
	Tissue donation PMP			17.4	0.0		10.8		2.3	5.3				0.0		6.7
	N. of tissues retrieved (cm ²)	0		160928	0		307400		12	182673		21933		0		1150427
	N. of tissues processed (units)	0		27	0		1982		16	1083		202515		0		
	N. of tissues distributed			0	0		255		0	010		188217		0		4157
	nationally (units) N. of tissues imported (units)	0		0	0		0		0	810 0		132000		0		46
	N. of tissues exported (units)	U		27	0		1479		0	0		7081		0		2
	N. of tissues exported (units) N. of tissues transplanted			0	0		233		16	810		7061		0		2
	N. of patients transplanted			0	0		233		4	23				0		
	N. of transplant procedures			0	0				4	23				0		1437
LIFART VALVE	N efetience demokiene				1		06			67				2		210
HEART VALVE	N. of tissue donations				1		86			67				2		210
	Tissue donation PMP				0.2		8.0			12.2		501		0.2		3.5
	N. of tissues retrieved	4		•	0		144			57		581		0 2		484
	N. of tissues processed (units)	27		0	0		144			40		440		2		
	N. of tissues distributed nationally (units)			0	0		119			48		207		2		220
	N. of tissues imported (units)	0		0	0		0			0		9		0		
	N. of tissues exported (units)			0	0		0			14		50		0		
	N. of tissues transplanted			0	0		115							5		
	N. of patients transplanted			0	0		112			36				5		
	N. of transplant procedures			0	0		112							2		171
BLOOD VESSEL	N. of tissue donations				0		17		19	10				0		249
	Tissue donation PMP				0.0		1.6		14.6	1.8				0.0		4.1
	N. of tissues retrieved	0			0		24		44	26		286		0		581
	N. of tissues processed (units)	0		0	0		12		44	19		270		0		
	N. of tissues distributed															
	nationally (units)			0	0		10		33	19		110		0		337
	N. of tissues imported (units)	0		0	0		0		0	0		0		0		
	N. of tissues exported (units)			0	0		0		0	0		2		0		
	N. of tissues transplanted			0	0		10		33					0		
	N. of patients transplanted			0	0		8		30	13				0		
	N. of transplant procedures			0	0		8							0		186

					PRELI	MINARY I	DATA ON TISS	UES - YEA	R 2020							
						EUROPE	AN UNION C	OUNTRIES								
Country		Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Ireland	Italy
Population (Source: UNFPA, State of world population, 20	020 - in millions)	9.0	11.6	6.9	4.1	1.2	10.7	5.8	1.3	5.5	65.3	83.8	10.4	9.7	4.9	60.5
TYPE OF TISSUE	TYPE OF DATA															
MUSCULOSKELETAL	N. of tissue donations			3263	160		1426		137	758				865		1810
	Tissue donation PMP			472.9	39.0		133.3		105.4	137.8				89.2		29.9
	N. of tissues retrieved	2025		6147	203		5472		171	1505		13489		833		6301
	N. of tissues processed (units)	45851		324	156		3142		398	1351		86516		4004		1495
	N. of tissues distributed															
	nationally (units)			225	97		1839		408	1402		66615		3819		9480
	N. of tissues imported (units)	6248		3174	1		20		197	0		9183		0		
	N. of tissues exported (units)			1725	0		1799		0	0		23522		0		
	N. of tissues transplanted			151	127		1371		236					668		
	N. of patients transplanted			114	98		601		162	1230				664		
	N. of transplant procedures			120	115		1349							664		6761
PLACENTA/AMNIOTIC																
MEMBRANES	N. of tissue donations			40	2		130		2	8				1		317
	Tissue donation PMP			5.8	0.5		12.1		1.5	1.5				0.1		5.2
	N. of tissues retrieved	41		40	2		130		2	8		183		1		323
	N. of tissues processed (units)	391			67		2359		61	162		6136		122		
	N. of tissues distributed nationally (units)			52	84		637		42	299		4385		77		3915
	N. of tissues imported (units)	0		0	0		0		0	164		8		0		
	N. of tissues exported (units)	-		0	0		48		0	0		98		0		
	N. of tissues transplanted			440	104		571		42	-				106		
	N. of patients transplanted	323		351	93		154		39	265				89		
	N. of transplant procedures			440	103		571							94		981
PANCREAS/																
PANCREATIC ISLETS	N. of tissue donations				0		23							0		46
	Tissue donation PMP				0.0		2.1							0.0		0.8
	N. of tissues retrieved	0			0		0					7		0		46
	N. of tissues processed (units)	0			0		5					7		0		46
	N. of tissues distributed															
	nationally (units)				0		0					7		0		8
	N. of tissues imported (units)	0			0		0					0		0		
	N. of tissues exported (units)				0		0					0		0		
	N. of tissues transplanted				0		5							0		
	N. of patients transplanted				0		5							0		
	N. of transplant procedures				0		5							0		7
HEPATIC TISSUE	N. of tissue donations				0									1		0
	Tissue donation PMP				0.0									0.1		0.0
	N. of tissues retrieved				0							0		0		0
	N. of tissues processed (units)				0							0		0		0
	N. of tissues distributed				·							·		•		
	nationally (units)				0							0		0		0
	N. of tissues imported (units)				0							0		0		
	N. of tissues exported (units)				0							0		0		
	N. of tissues transplanted				0									0		
	N. of patients transplanted				0									0		
	N. of transplant procedures				0									0		

					PRELI	MINARY [DATA ON TISS	UES - YEA	R 2020							
						EUROPE	AN UNION CO	OUNTRIES								
Country		Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Ireland	Italy
Population (Source: UNFPA, State of world population, 2	020 - in millions)	9.0	11.6	6.9	4.1	1.2	10.7	5.8	1.3	5.5	65.3	83.8	10.4	9.7	4.9	60.5
TYPE OF TISSUE	TYPE OF DATA															
ADIPOSE TISSUE	N. of tissue donations				0		0			0				0		
	Tissue donation PMP				0.0		0.0			0.0				0.0		
	N. of tissues retrieved	0			0		0			0		28		0		
	N. of tissues processed (units)				0		0			0		0		0		
	N. of tissues distributed	-			-		-			-		_		_		
	nationally (units)				0		0			0		0		0		
	N. of tissues imported (units)	0			0		0			0		0		0		
	N. of tissues exported (units)				0		0			0		0		0		
	N. of tissues transplanted				0		0							0		
	N. of patients transplanted				0		0			0				0		
	N. of transplant procedures				0		0							0		
PARATHYROID	N. of tissue donations				0		0							0		7
	Tissue donation PMP				0.0		0.0							0.0		0.1
	N. of tissues retrieved	26			0		0					0		0		7
	N. of tissues processed (units)	26			0		0					0		0		7
	N. of tissues distributed															
	nationally (units)				0		0					0		0		0
	N. of tissues imported (units)	0			0		0					0		0		
	N. of tissues exported (units)				0		0					0		0		
	N. of tissues transplanted				0		0							0		
	N. of patients transplanted	1			0		0							0		
	N. of transplant procedures				0		0							0		7
NEURONAL TISSUE	N. of tissue donations				0					0				0		
	Tissue donation PMP				0.0					0.0				0.0		
	N. of tissues retrieved	0			0					0		0		0		
	N. of tissues processed (units)	0			0							0		0		
	N. of tissues distributed															
	nationally (units)				0					3		0		0		
	N. of tissues imported (units)	0			0					3		0		0		
	N. of tissues exported (units)				0					0		0		0		
	N. of tissues transplanted	_			0					3				0		
	N. of patients transplanted N. of transplant procedures	5			0					3				0		
AUTOLOGOUS	<u> </u>	224			•					10		•				726
CRANIECTOMY PIECES	N. of tissues retrieved	224			0		141			19		0		5		736
OTHER TISSUE	N. of tissue donations			36	750		536		11	67				5		
	Tissue donation PMP			5.2	182.9		50.1		8.5	12.2				0.5		
	N. of tissues retrieved	8		36	750		537		11	80		2092		3283		
	N. of tissues processed (units) N. of tissues distributed	7			750		112			55		3214		2886		
	nationally (units)				46332		0			55		650		0		
	N. of tissues imported (units)	0			0		0			5		3		0		
	N. of tissues exported (units)				0		1			0		4		0		
	N. of tissues transplanted				0		9							0		
	N. of patients transplanted				364		9			37				0		
	N. of transplant procedures				0		9							0		

					PREL	IMINARY D	ATA ON	TISSUES -	YEAR 20	20							
					EUROF	PEAN UNIO	N COUN	TRIES							ОТ	HER COUN	ITRIES
Country		Latvia	Lithuania	Luxembourg	Malta	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	United Kingdom	Norway	Republic of Moldova	Switzerland
Population (Source: UNFP State of world population		1.9	2.7	0.6	0.4	17.1	37.8	10.2	19.2	5.5	2.1	46.8	10.1	67.9	5.4	4.0	8.7
TYPE OF TISSUE	TYPE OF DATA																
CORNEA	N. of tissue donations	17	25			1756		350	26	98		2246	486	3788		8	315
	Tissue donation PMP	8.9	9.3			102.7		34.3	1.4	17.8		48.0	48.1	55.8		2.0	36.2
	N. of tissues retrieved	32	48			3519		679	52	134		4405	797	3788		15	559
	N. of tissues processed (units)	32	48			3904		616		272		4332	921	3978		13	636
	N. of tissues distributed																
	nationally (units)	46	47			3270		597		129		3099	536	192		15	216
	N. of tissues imported (units)	13	0			737		264		102		14	8	329		0	400
	N. of tissues exported (units)	0	0			442		0		0		35	7	0		0	0
	N. of tissues transplanted		47			3375		712	46	226		3423	543	3939		15	749
	N. of patients transplanted		47			2630		712	46	228		3421	576			15	714
	N. of transplant procedures		47			3375		712	46	231			605			15	759
SKIN	N. of tissue donations					379		0		105		271	65	126		0	
	Tissue donation PMP					22.2		0.0		19.1		5.8	6.4	1.9		0.0	
	N. of tissues retrieved (cm ²)					150000		0		13850		751353	65	126		0	
	N. of tissues processed (units)					15840		0		0		645332	94	177		0	
	N. of tissues distributed nationally (units)					2426		24		61		268089	22	2230		116	
	N. of tissues imported (units)					33		24		0		0	0	2479		0	
	N. of tissues exported (units)					14363		0		0		288130	0	834		0	
			0			2194		0		166		258531	2	3866		116	
	N. of tissues transplanted N. of patients transplanted		0			268		0		135		40	16	3000		110	
	N. of transplant procedures		0			200		0		135		40	49			9	
HEART VALVE	N. of tissue donations					191		6		2		200	133	661		0	44
HEART VALVE	Tissue donation PMP					11.2		0.6		0.4		4.3	13.2	9.7		0.0	5.1
	N. of tissues retrieved					424		24		2		395	316	661		0.0	46
										2						0	0
	N. of tissues processed (units)					424		10		2		395	316	621		U	U
	N. of tissues distributed nationally (units)					108		5		1		50	138	25		0	0
	N. of tissues imported (units)					14		0		0		2	0	266		0	19
	N. of tissues exported (units)					13		0		0		116	77	166		0	42
	N. of tissues transplanted		0			133		4		1		38	215	698		0	22
	N. of patients transplanted		0			132		4		1		38	174			0	21
	N. of transplant procedures		0			133		4		1			180			0	22
BLOOD VESSEL	N. of tissue donations		7			15		0		3		107	156	610		1	16
DEGOD VESSEE	Tissue donation PMP		2.6			0.9		0.0		0.5		2.3	15.4	9.0		0.3	1.8
	N. of tissues retrieved		7			127		0.0		13		2.5	213	610		4	28
	N. of tissues processed (units)		3			127		0		13		245	213	13		0	0
	N. of tissues distributed															-	
	nationally (units)		3			37		0		8		231	6	38		0	0
	N. of tissues imported (units)					2		0		0		7	0	30		0	13
	N. of tissues exported (units)					25		0		0		28	0	12		0	22
	N. of tissues transplanted		3			86		0		6		165	6	128		0	14
	N. of patients transplanted		3			85		0		6		120	6			0	9
	N. of transplant procedures		3			86		0		6			6			0	9

					PREL	IMINARY D	ATA ON	TISSUES -	YEAR 20	20							
					EUROF	PEAN UNIO	N COUNT	TRIES							OTHE	R COUN	TRIES
Country		Latvia	Lithuania	Luxembourg	Malta	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweeden	United Kingdom	Republic of Moldova	Norway	Switzerland
Population (Source: UNFPA, State of world population, 2	2020 - in millions)	1.9	2.9	0.6	0.4	17.1	38.0	10.3	19.5	5.5	2.1	46.4	10.1	67.0	4.0	5.4	8.6
TYPE OF TISSUE	TYPE OF DATA			NO DATA			NO DATA										NO DATA
MUSCULOSKELETAL	N. of tissue donations		72			2637		60	161	404		1783	1050	2604		32	239
	Tissue donation PMP		26.7			154.2		5.9	8.4	73.5		38.1	104.0	38.4		8.0	27.5
	N. of tissues retrieved		105			3419		410	170	631		18543	1061	2604		46	262
	N. of tissues processed (units)		105			6165		363	170	950		21710	1362	2956		198	248
	N. of tissues distributed																
	nationally (units)		53			9398		435	88	613		22468	692	14563		205	46
	N. of tissues imported (units)		0			651		26	0	0			96	28445		0	90
	N. of tissues exported (units)		0			30254		0	0	392		784	2	18980		0	0
	N. of tissues transplanted		53			5087		443	88	476		22853	771	34069		193	279
	N. of patients transplanted		44			4862		328	85	317		18659	725			65	245
	N. of transplant procedures		44					414	85	318			664			65	279
PLACENTA/AMNIOTIC																	
MEMBRANES	N. of tissue donations	0	3					3		87		45	6	246		5	15
	Tissue donation PMP	0.0	1.1					0.3		15.8		1.0	0.6	3.6		1.3	1.7
	N. of tissues retrieved	0	46			2		3		81		1237	304	246		5	132
	N. of tissues processed (units)		44			22		124		346		1237	385	59		36	198
	N. of tissues distributed		44			200		140		275		1007	202	706		120	60
	nationally (units)		44			209		140		275		1097	283	796		129	60
	N. of tissues imported (units)		0			0		0		0		0	0	161		0	8
	N. of tissues exported (units)		0			27		0		0		34	0	417		0	0
	N. of tissues transplanted		44			105		148		350		1494	321	1555		129	132
	N. of patients transplanted N. of transplant procedures		39 39			97 105		144 144		294 325		1416	330 232			81 114	129 134
PANCREAS/ PANCREATIC ISLETS	N. of tissue donations					317				0			14	74			21
Trittenerine isee is	Tissue donation PMP					18.5				0.0			1.4	1.1			2.4
	N. of tissues retrieved					37				0			14	74			21
	N. of tissues processed (units)					5				0			14	59			21
	N. of tissues distributed					J				Ü				33			
	nationally (units)					5				0			8	16			0
	N. of tissues imported (units)					0				0			0	0			12
	N. of tissues exported (units)					0				0			0	0			5
	N. of tissues transplanted		0			5				0			8	19			15
	N. of patients transplanted		0			5				0			8				13
	N. of transplant procedures		0			5				0			8				15
HEPATIC TISSUE	N. of tissue donations					0								14			
	Tissue donation PMP					0.0								0.2			
	N. of tissues retrieved					0								14			
	N. of tissues processed (units)					0								11			
	N. of tissues distributed					•											
	nationally (units)					0								0			
	N. of tissues imported (units)					0								0			
	N. of tissues exported (units)					0								0			
	N. of tissues transplanted		0			0								0			
	N. of patients transplanted		0			0											
	N. of transplant procedures		0			0											

					PREL	IMINARY D	ATA ON	TISSUES -	YEAR 20	20							
					EUROF	PEAN UNIO	N COUNT	TRIES							OTHE	R COUN	TRIES
Country		Latvia	Lithuania	Luxembourg	Malta	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweeden	United Kingdom	Republic of Moldova	Norway	Switzerland
Population (Source: UNFPA, State of world population, 2	020 - in millions)	1.9	2.9	0.6	0.4	17.1	38.0	10.3	19.5	5.5	2.1	46.4	10.1	67.0	4.0	5.4	8.6
TYPE OF TISSUE	TYPE OF DATA			NO DATA			NO DATA										NO DATA
ADIPOSE TISSUE	N. of tissue donations	0	6			0				77				191		0	
	Tissue donation PMP	0.0	2.2			0.0				14.0				2.8		0.0	
	N. of tissues retrieved	0	6			0				77				191		0	
	N. of tissues processed (units)		0			0				77				41		0	
	N. of tissues distributed																
	nationally (units)		0			0				76				61		0	
	N. of tissues imported (units)		0			0				0				0		0	
	N. of tissues exported (units)		0			0				0				0		0	
	N. of tissues transplanted		0			0				75				0		0	
	N. of patients transplanted		0			0				76						0	
	N. of transplant procedures		0			0				77						0	
PARATHYROID	N. of tissue donations									0							
	Tissue donation PMP									0.0							
	N. of tissues retrieved					0				0							
	N. of tissues processed (units)					0				0							
	N. of tissues distributed																
	nationally (units)					0				0							
	N. of tissues imported (units)					0				0							
	N. of tissues exported (units)					0				0							
	N. of tissues transplanted		0			0				0							
	N. of patients transplanted		0			0				0							
	N. of transplant procedures		0			0				0							
NEURONAL TISSUE	N. of tissue donations															0	
	Tissue donation PMP															0.0	
	N. of tissues retrieved					0										0	
	N. of tissues processed (units)					0								0		0	
	N. of tissues distributed																
	nationally (units)					0								39		0	
	N. of tissues imported (units)					0								35		0	
	N. of tissues exported (units)					0								0		0	
	N. of tissues transplanted		0			0								58		0	
	N. of patients transplanted		0			0										0	
	N. of transplant procedures		0			0										0	
AUTOLOGOUS CRANIECTOMY PIECES	N. of tissues retrieved					179				86			107	27		0	
OTHER TISSUE	N. of tissue donations	208	3			2		0		1799			0	144		0	
	Tissue donation PMP	109.5	1.1			0.1		0.0		327.1			0.0	2.1		0.0	
	N. of tissues retrieved	208	8			0		0		1806			0	898		0	
	N. of tissues processed (units)	0				150		0		1711			0	737		0	
	N. of tissues distributed																
	nationally (units)	0				13		0		180				237		0	
	N. of tissues imported (units)	0				0		0		792				905		0	
	N. of tissues exported (units)	0				0		0		156				2810		0	
	N. of tissues transplanted		5			143		6		140				2874		0	
	N. of patients transplanted		4			138		6		127						0	
	N. of transplant procedures		4					6		133			0			0	

				PRELIMI	NARY DATA	ON TISSUES -	YEAR 2020					
				ı	LATIN AMERI	CAN COUNTR	RIES					
Country		Argentina	Brazil	Colombia	Costa Rica	Cuba	Dominican Republic	Ecuador	Mexico	Paraguay	Peru	Uruguay
Population (Source: UNFP) State of world population,		45.2	212.6	50.9	5.1	11.3	10.8	17.6	128.9	7.1	33.0	3.5
TYPE OF TISSUE	TYPE OF DATA											
CORNEA	N. of tissue donations	501	10754	936	66		17	98	1120	68	24	
	Tissue donation PMP	11.1	50.6	18.4	12.9		1.6	5.6	8.7	9.6	0.7	
	N. of tissues retrieved	988	10240	1853	58		17	113	1113	53	46	237
	N. of tissues transplanted	650	7432	1818	52		175	103	1328	53	136	198
	N. of patients transplanted	650		1760				103	1328	53	137	187
	N. of transplant procedures	650		1808			175	103	1328	53	136	
SKIN	N. of tissue donations	28	565	45	12			9	68	0		
	Tissue donation PMP	0.6	2.7	0.9	2.4			0.5	0.5	0.0		
	N. of tissues retrieved (cm ²)	19338	8668695						51			155200
	N. of tissues transplanted	17484	10723550	772	12			9			18000	768
	N. of patients transplanted	26		38				1			16	20
	N. of transplant procedures	17484		43				1			105	
HEART VALVE	N. of tissue donations	90	215	4	5			0	3	0		
	Tissue donation PMP	0.1	1.0	0.1	1.0			0.0	0.0	0.0		
	N. of tissues retrieved	182	119	5	5			0	4			0
	N. of tissues transplanted	157	92	16	5			0	3			
	N. of patients transplanted	139		16	5			0	3			0
	N. of transplant procedures	157		16				0	3			
BLOOD VESSEL	N. of tissue donations		0	11	5			0		0		
	Tissue donation PMP		0.0	0.2	1.0			0.0		0.0		
	N. of tissues retrieved		0	34	12			0				19
	N. of tissues transplanted			34				0				
	N. of patients transplanted			20	5			0				6
	N. of transplant procedures			20				0				
MUSCULOSKELETAL	N. of tissue donations	535	836	1311	7			173	179	0		
	Tissue donation PMP	11.8	3.9	25.8	1.4			9.8	1.4	0.0		
	N. of tissues retrieved	1918	7293	2590	20			182	181			22
	N. of tissues transplanted	3615	0	11961	7			158				
	N. of patients transplanted	1934		471	7			128				78
	N. of transplant procedures	3615		502				158				

				PRELIMI	NARY DATA C	ON TISSUES -	YEAR 2020					
				L	ATIN AMERIC	CAN COUNTR	IES					
Country		Argentina	Brazil	Colombia	Costa Rica	Cuba	Dominican Republic	Ecuador	Mexico	Paraguay	Peru	Uruguay
Population (Source: UNFP. State of world population,		45.2	212.6	50.9	5.1	11.3	10.8	17.6	128.9	7.1	33.0	3.5
TYPE OF TISSUE	TYPE OF DATA											
PLACENTA	N. of tissue donations	20	0	66	5			8				
	Tissue donation PMP	0.4	0.0	1.3	1.0			0.5				
	N. of tissues retrieved	20	0	66	5			113				38
	N. of tissues transplanted		5878		51			142				367
	N. of patients transplanted							135				38
	N. of transplant procedures							142				
PANCREATIC TISSUE/												
PANCREAS	N. of tissue donations		0	0				0		0		
	Tissue donation PMP		0.0	0.0				0.0		0.0		
	N. of tissues retrieved		0					0				0
	N. of tissues transplanted		0					0				0
	N. of patients transplanted							0				0
	N. of transplant procedures							0				
ADIPOSE TISSUE	N. of tissue donations		0	0				0		0		
	Tissue donation PMP		0.0	0.0				0.0		0.0		
	N. of tissues retrieved		0					0				0
	N. of tissues transplanted		0					0				0
	N. of patients transplanted							0				0
	N. of transplant procedures							0				
AUTOLOGOUS												
CRANIECTOMY PIECES	N. of tissues retrieved (units)		148					0				0
OTHER TISSUE	N. of tissue donations		0	0				0		0		
	Tissue donation PMP		0.0	0.0				0.0		0.0		
	N. of tissues retrieved		0					0				
	N. of tissues transplanted		0	11				0				0
	N. of patients transplanted			11				0				0
	N. of transplant procedures			11				0				

			PRELIM	MINARY I	DATA O	N HPC C	ELLS - YEAR	R 2020								
				EURO	PEAN U	NION CO	UNTRIES									
Country		Austria	Belgium	Bulgaria	Croatia	Cyprus	Czechia	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Ireland	Italy
Population (Source: UNFPA, State of world population, 2020 -	- in millions)	9.0	11.6	6.9	4.1	1.2	10.7	5.8	1.3	5.5	65.3	83.8	10.4	9.7	4.9	60.5
CATEGORY OF DATA	TYPE OF DATA															
POTENTIAL FOR DONATION																
AND SEARCHES IN THE NATIONAL REGISTRIES	N. of potential donors at 31.12	91879			59783		133175			55100				170		460902
	N. of cord blood units at 31.12	83			3656		7496			3335				0		38120
	N. of searches requested	348			378		51009			26724						2938
	N. of unrelated donations	83			65		202			127						969
DONATIONS	N. of donations - Autologous	553		2581	522		1022		73	318		4836		310		3924
	N. of donations - Allogeneic	155		116	442		208		8	101		8542		144		7108
	N. of donations - Allogeneic, related	129		32	64		57		8	55		999		106		1078
	N. of donations - Allogeneic, unrelated	26		84	378		151		0	46		7543		38		6030
BANKING OF CORD BLOOD	N. of unrelated cord blood units collected			84	366		370		0			426		0		5742
	N. of unrelated cord blood units distributed			0	0		2			0		0		0		30
	N. of related cord blood units collected			2462	10		15		11			17		4418		123
	N. of related cord blood units distributed			0	0		0			0		0		0		3
TRANSPLANTS	N. of transplants - Autologous	352		119	199		450		68	263		4726		290		3431
	N. of patients transplanted - Autologous	307		116	167		341			258		3952		237		2718
	N. of transplants - Allogeneic	368		55	97		238		28	147		3293		140		1908
	N. of patients transplanted - Allogeneic	0		55	92		215			146		3112		124		1808
	N. of transplants - Allogeneic, related	238		32	39		80		9	55		916		98		1033
	N. of patients transplanted - Allogeneic, related	0		32	34		71			54		851		84		961
	N. of transplants - Allogeneic, unrelated	130		23	58		158		19	92		2377		42		875
	N. of patients transplanted - Allogeneic, unrelated	0		23	58		144			92		2261		40		847

					PRELI	MINARY DA	TA ON I	HPC CELLS	S - YEAR	2020							
						EUROP	EAN UN	IION COU	NTRIES						ОТ	HER COUN	ITRIES
Country		Latvia	Lithuania	Luxembourg	Malta	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	United Kingdom	Norway	Republic of Moldova	Switzerland
Population (Source: UNFPA, State of world population, 20)20 - in millions)	1.9	2.9	0.6	0.4	17.1	38.0	10.3	19.5	5.5	2.1	46.4	10.1	67.0	4.0	5.4	8.6
CATEGORY OF DATA	TYPE OF DATA																
POTENTIAL FOR DONATION AND SEARCHES IN THE																	
NATIONAL REGISTRIES	N. of potential donors at 31.12		13188			342359		402864	50304	20368		431703					162164
	N. of cord blood units at 31.12		0			4770		0	0	1822		64338					5077
	N. of searches requested		71			718		1654	321	25449		920					491
	N. of unrelated donations		13			513		114	50	56		641					211
DONATIONS	N. of donations - Autologous		27			2765		471	204	3245		2049	737	10071		19	576
	N. of donations - Allogeneic	213	34			599		144	45	411		998	606	14770			213
	N. of donations - Allogeneic, related	213	21			216		67	35	39		867	246	10081			139
	N. of donations - Allogeneic, unrelated		13			383		77	10	372		131	360	4689			74
BANKING OF CORD BLOOD	N. of unrelated cord blood units collected	0	0			88		0	0	452			195	11737			
	N. of unrelated cord blood units distributed	0	0			85		0	0	147		552	3				4
	N. of related cord blood units collected	213	38			4		0	100011	13			147	5323		3	
	N. of related cord blood units distributed	0	0			3		0	148	1		1	0			0	
TRANSPLANTS	N. of transplants - Autologous		148			3343		322	123	160		2049	539	0		17	521
	N. of patients transplanted - Autologous		111			1010		307	115	127		0	500	0			417
	N. of transplants - Allogeneic		52			1254		110	106	79		1326	301	0			288
	N. of patients transplanted - Allogeneic		40			666		109	99	74		0	289	0			229
	N. of transplants - Allogeneic, related		21			323		46	26	31		867	87	0			136
	N. of patients transplanted - Allogeneic related		16			163		46	23	30		0	79	0			110
	N. of transplants - Allogeneic, unrelated		31			931		64	80	48		459	214	0			152
	N. of patients transplanted - Allogeneic, unrelated		24			503		63	76	44		0	210	0			119

PRELIMINARY DATA ON HPC CELLS - YEAR 2020												
LATIN AMERICAN COUNTRIES												
Country		Argentina	Brazil	Colombia	Costa Rica	Cuba	Dominican Republic	Ecuador	Mexico	Paraguay	Peru	Uruguay
Population (Source: UNFPA, State of world population, 2020 - in millions)		45.2	212.6	50.9	5.1	11.3	10.8	17.6	128.9	7.1	33.0	3.5
CATEGORY OF DATA	TYPE OF DATA											
POTENTIAL FOR DONATION AND SEARCHES IN THE												
NATIONAL REGISTRIES	N. of potential donors at 31.12	61246	5238393								43642	1546
	N. of cord blood units at 31.12	96	18008								0	
	N. of searches requested	893	13389				0				2	47
BANKING OF CORD BLOOD	N. of unrelated cord blood units at 31.12	4276	17665				0				0	0
	N. of related cord blood units at 31.12	909					0				0	4
TRANSPLANTS	N. of transplants - Autologous	641	1213	439	29	13				22	84	90
	N. of patients transplanted - Autologous	611			6					22	84	
	N. of transplants - Allogeneic	358	984	149	35					4	71	38
	N. of patients transplanted - Allogeneic	311	273		0					4	71	
	N. of transplants - Allogeneic, related	272	706	121	35					4	71	31
	N. of patients transplanted - Allogeneic, related	234			0					4	71	
	N. of transplants - Allogeneic, unrelated	86	278	28	0						0	7
	N. of patients transplanted - Allogeneic, unrelated	77	273		0						0	

Council of Europe Reference Documents. Year 2020



Recommendation CM/Rec(2020)4¹ of the Committee of Ministers to member States on the quality and safety of organs for transplantation

(Adopted by the Committee of Ministers on 7 October 2020 at the 1385th meeting of the Ministers' Deputies)

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

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

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

Having regard to Articles 3, 21 and 22 of the Convention on Human Rights and Biomedicine (ETS No. 164) and Articles 3 and 4 of the Additional Protocol to the Convention on Human Rights and Biomedicine concerning the Transplantation of Organs and Tissues of Human Origin (ETS No. 186);

Having regard to the Council of Europe Convention on Action against Trafficking in Human Beings (CETS No. 197) and the Council of Europe Convention against Trafficking in Human Organs (CETS No. 216);

Recalling its recommendations to member States Rec(2001)5 on the management of organ transplant waiting lists and waiting times, Rec(2003)12 on organ donor registers, Rec(2004)19 on criteria for the authorisation of organ transplantation facilities, Rec(2005)11 on the role and training of professionals

responsible for organ donation (transplant "donor coordinators"), Rec(2006)15 on the background, functions and responsibilities of a National Transplant Organisation (NTO) and Rec(2006)16 on quality improvement programmes for organ donation;

Recalling its resolutions Res(78)29 on harmonisation of legislations of member States relating to removal, grafting and transplantation of human substances, CM/Res(2008)4 on adult-to-adult living donor liver transplantation, CM/Res(2013)55 on establishing procedures for the collection and dissemination of data on transplantation activities outside a domestic transplantation system, CM/Res(2013)56 on the development and optimisation of live kidney donation programmes, CM/Res(2015)10 on the role and training of critical care professionals in deceased donation, CM/Res(2015)11 on establishing harmonised national living donor registries with a view to facilitating international data sharing, CM/Res(2017)1 on principles for the selection, evaluation, donation and follow-up of the non-resident living organ donors and 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;

Having regard to 63rd World Health Assembly (WHA) Resolution WHA63.22 on human organ and tissue transplantation and the World Health Organization (WHO) guiding principles on human cell, tissue and organ transplantation, as endorsed by 63rd WHA Resolution WHA63.22, May 2010;

¹ When adopting this recommendation, the Permanent Representative of Germany indicated that, in accordance with Article 10.2c of the Rules of Procedure for the meetings of the Ministers' Deputies, he reserved the right of his government to comply or not with the recommendation.

Taking into account Directive 2010/53/EU of the European Parliament and of the Council of 7 July 2010 on standards of quality and safety of human organs intended for transplantation and 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;

Considering the importance of life-saving organ transplantation and acknowledging that clinical requirement far outweighs availability of donated organs;

Considering that the misuse of organ transplantation may endanger human life, well-being and dignity and violate the principle of justice (including equity and fairness);

Considering that, as with all material of human origin, transplanted organs carry the risk of disease transmission that should be controlled by the application of scrupulous quality and safety requirements;

Considering the importance of guidelines and standards to protect the health of living donors; Considering the importance of registries to follow up recipients and donors;

Considering the importance of training and education of healthcare professionals in the field of organ donation and transplantation to optimise care for donors and patients;

Taking into account the need for harmonisation of principles and practices in member States;

Recognising, therefore, the need to provide health authorities, transplant organisations and clinical users with uniform standards for the quality and safety of organs for transplantation;

Recognising that the Guide to the quality and safety of organs for transplantation provides professionals with the most recent advances in the field, as well as technical guidance to ensure the quality and safety of human organs, ultimately improving the rate of successful and safe organ transplantation and ensuring the protection of living donors;

Aware that the Guide published by the Council of Europe has already become the generally accepted European standard and that it is therefore appropriate to give a legal reference to this Guide;

Considering that this Guide is regularly updated by the Council of Europe European Committee on Organ Transplantation or, if necessary, a subordinate body;

Recommends that the governments of member States, having due regard to their national laws, rules and administrative provisions, take all necessary measures and steps to ensure that quality and safety standards for organ donation and transplantation are set in place in accordance with the guidelines set out in the appendix² to this recommendation;

Agrees that the Council of Europe European Committee on Organ Transplantation or, if necessary, a subordinate body, will regularly update this appendix.

² The appendix is available for free download at the EDQM website under the reference "Guide to the Quality and Safety of Organs for Transplantation". Any reference to this appendix should be read as referring to the most up-to-date version of this Guide.

Recommendation CM/Rec(2020)5¹ of the Committee of Ministers to member States on the quality and safety of tissues and cells for human application

(Adopted by the Committee of Ministers on 7 October 2020 at the 1385th meeting of the Ministers' Deputies)

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

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

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

Having regard to Articles 3, 21 and 22 of the Convention on Human Rights and Biomedicine (ETS No. 164) and Articles 3 and 4 of the Additional Protocol to the Convention on Human Rights and Biomedicine concerning the Transplantation of Organs and Tissues of Human Origin (ETS No. 186);

Having regard to the Council of Europe Convention on Action against Trafficking in Human Beings (CETS No. 197) and the Council of Europe Convention against Trafficking in Human Organs (CETS No. 216);

Recalling its recommendations to member States Rec(94)1 on human tissue banks, Rec(98)2 on provision of haematopoietic progenitor cells and Rec(2004)8 on autologous cord blood banks (and its Explanatory Memorandum);

Having regard to 63rd World Health Assembly (WHA) Resolution WHA63.22 on human organ and tissue transplantation and the World Health Organisation (WHO) guiding principles on human cell, tissue and organ transplantation, as endorsed by 63rd WHA Resolution WHA63.22, May 2010;

Taking into account Directive 2004/23/EC of the European Parliament and of the Council of 31 March 2004 on setting standards of quality and safety for the donation, procurement, testing, processing, preservation, storage and distribution of human tissues and cells; Commission Directive 2006/86/EC of 24 October 2006 implementing Directive 2004/23/EC of the European Parliament and of the Council as regards traceability requirements, notification of serious adverse reactions and events and certain technical requirements for the coding, processing, preservation, storage and distribution of human tissues and cells; Commission Directive 2006/17/EC of 8 February 2006 implementing Directive 2004/23/EC of the European Parliament and of the Council as regards certain technical requirements for the donation, procurement and testing of human tissues and cells; Commission Directive (EU) 2015/565 of 8 April 2015 amending Directive 2006/86/EC as regards certain technical requirements for the coding of human tissues and cells; Commission Directive (EU) 2015/566 of 8 April 2015 implementing Directive 2004/23/EC as regards the procedures for verifying the equivalent standards of quality and safety of imported tissues and cells; and Commission Directive 2012/39/EU of 26 November 2012 amending Directive 2006/17/EC as

¹ When adopting this recommendation, the Permanent Representative of Germany indicated that, in accordance with Article 10.2c of the Rules of Procedure for the meetings of the Ministers' Deputies, he reserved the right of his government to comply or not with the recommendation.

regards certain technical requirements for the testing of human tissues and cells;

Taking into account the Barcelona Principles on the use of human donated tissue for ocular transplantation, research and future technologies;

Considering that human tissues and cells can restore essential functions or, in some cases, save lives, but that the demand for some tissues and cells far outweighs the available supply;

Considering that human tissues and cells can be derived only from the body of a person – hence the ethical challenges associated with their use;

Considering that tissues from one deceased donor may be transplanted into as many as 100 patients and that some other tissues and cells can be provided only by living donors, as long as this procedure does not risk serious harm to the donor or endanger the donor's life;

Considering that, as with all material of human origin, human tissues and cells carry the risk of disease transmission that must be controlled by the application of scrupulous quality and safety requirements and by ensuring that comprehensive quality systems are in place;

Considering the importance of guidelines and standards to protect the health of living donors; Considering the importance of registries to follow up recipients and donors;

Considering that haematopoietic progenitor cells need specific matching between a donor and recipient requiring international co-operation;

Considering the importance of training and education of health care professionals in the field of tissue and cell donation and transplantation to optimise care for donors and patients;

Considering that some tissues and cells are used practically unaltered from the condition in which they were removed from the donor but that others are processed into products that are almost unrecognisable as bodily material;

Taking into account that the rapid development of novel processing methods and clinical applications requires well-defined quality and safety criteria on which to base regulatory requirements;

Taking into account the need for harmonisation of principles and practices in member States;

Recognising, therefore, the need to provide health authorities, transplant organisations, tissue establishments, organisations responsible for human application of tissues and cells, including clinical users, with uniform standards for the quality and safety of tissues and cells for human application;

Recognising that the Guide to the quality and safety of tissues and cells for human application provides professionals with the most recent advances in the field, as well as technical guidance to ensure the quality, safety and efficacy of tissues and cells, ultimately improving the rate of successful and safe human application and ensuring the protection of living donors;

Aware that the Guide published by the Council of Europe has already become the generally accepted European standard and that it is therefore appropriate to give legal reference to this Guide;

Considering that this Guide is regularly updated by the Council of Europe European Committee on Organ Transplantation or, if necessary, a subordinate body;

Recommends that the governments of member States, having due regard to their national laws, rules and administrative provisions, take all necessary measures and steps to ensure that quality and safety standards for the donation, preparation and clinical application of tissues and cells are carried out in accordance with the guidelines set out in the appendix² to this recommendation.

Agrees that the Council of Europe European Committee on Organ Transplantation or, if necessary, a subordinate body, will regularly update this appendix.

² The appendix is available for free download at the EDQM website under the reference "Guide to the Quality and Safety of Organs for Transplantation". Any reference to this appendix should be read as referring to the most up-to-date version of this Guide.

Recommendation CM/Rec(2020)6¹ of the Committee of Ministers to member States on establishing harmonised measures for the protection of haematopoietic progenitor cell donors

(Adopted by the Committee of Ministers on 7 October 2020 at the 1385th meeting of the Ministers' Deputies)

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

Considering that the aim of the Council of Europe is to achieve greater unity between its 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 harmonisation of legislations of member States relating 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), in particular to Articles 19, 20 and 21 thereof, and its Additional Protocol concerning Transplantation of Organs and Tissues of Human Origin (ETS No. 186), in particular Chapter III – Organ and tissue removal from living persons, Article 9, and Chapter VI – Prohibition of financial gain;

Having regard to the Convention for the Protection of Individuals with regard to Automatic Processing of Personal Data (ETS No. 108, as amended by Protocol CETS No. 2232) and its Additional Protocol regarding supervisory authorities and transborder data flows (ETS No. 181);

Recalling Recommendation CM/Rec(2019)2 of the Committee of Ministers to member States on the protection of health-related data which replaces Recommendation Rec(97)5 of the Committee of Ministers to member States on the protection of medical data;

Recalling Recommendation Rec(98)2 of the Committee of Ministers to member States on provision of haematopoietic progenitor cells;

Taking into account the latest available edition of the Council of Europe Guide to the Quality and safety of tissues and cells for human application, in particular the Chapters on "Recruitment of potential donors, identification and consent" and on "Haematopoietic progenitor cells from bone marrow and peripheral blood";

Taking into account the World Health Organization Guiding Principles on Human Cell, Tissue and Organ Transplantation as endorsed by the 63rd World Health Assembly in May 2010, in Resolution WHA63.22, and in particular Guiding Principles 10 and 11, which call for health authorities to oversee that transplant programmes ensure traceability and vigilance and to monitor outcomes of both living donation and transplantation;

Taking into account Directive 2004/23/EC of the European Parliament and of the Council of 31 March 2004 on setting

¹ When adopting this recommendation, the Permanent Representative of Germany indicated that, in accordance with Article 10.2c of the Rules of Procedure for the meetings of the Ministers' Deputies, he reserved the right of his government to comply or not with the recommendation.

² The Protocol amending Convention No. 108 (CETS No. 223) was opened for signature on 10 October 2018 and the revised convention has yet to enter into force.

standards of quality and safety for the donation, procurement, testing, processing, preservation, storage and distribution of human tissues and cells, and Directive 2006/17/EC of 8 February 2006 implementing Directive 2004/23/EC of the European Parliament and of the Council as regards certain technical requirements for the donation, procurement and testing of human tissues and cells;

Taking into account Commission Directive 2006/86/EC of 24 October 2006 implementing Directive 2004/23/EC of the European Parliament and of the Council as regards traceability requirements, notification of serious adverse reactions and events and certain technical requirements for the coding, processing, preservation, storage and distribution of human tissues and cells, and in particular Article 5(1)(a) and Article 7;

Taking into account Regulation (EU) 2016/679 of the European Parliament and of 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 (General Data Protection Regulation), and in particular Article 9, paragraph 2, points (a), (h) and (i), which contain provisions permitting the processing of health data:

Considering the observation included in the Evaluation of the European Union legislation on blood, tissues and cells (SWD(2019) 376 final) Chapter 6, point iv, that there are insufficient provisions in place to protect haematopoietic progenitor cell donors;

Considering that haematopoietic progenitor cell transplantation represents one of the most widely used forms of cell therapy and haematopoietic progenitor cells are one of the most exchanged biological materials for transplantation;

Considering that the application of haematopoietic progenitor cells for the treatment of different haematological diseases has increased extensively in the past half-century in developed countries and that many low- and middle-income countries are now establishing autologous and allogeneic haematopoietic progenitor cell transplantation programmes;

Considering that all haematopoietic progenitor cell donors are living donors, either genetically related or genetically unrelated to their recipient and that, in many cases, unrelated donors are identified across national borders;

Considering that, in exceptional situations as defined in the Convention on Human Rights and Biomedicine,

in some member States, minors can become related donors;

Considering that donation of haematopoietic progenitor cells carries certain risks, which require robust legislative and operational measures to be in place to safeguard the health and rights of donors;

Considering that, to protect the health of haematopoietic progenitor cell donors, an appropriate framework should include adequate selection criteria, from both the medical and psychosocial perspective, proper informed consent, guarantee of follow-up care, as well as the collection of data on the donor's health status in the short and long term;

Considering, in particular, that the prohibition of financial gain or comparable advantage under the terms of the Convention on Human Rights and Biomedicine does not prevent compensation of living donors for loss of earnings and reimbursement of any other justifiable expenses related to the removal of organs, tissues or cells or to the related medical examinations, as well as compensation in case of undue damage (e.g. disability) resulting from the removal of organs, tissues or cells;

Recognising that, in enabling transplantation of haematopoietic progenitor cells in the interest of patients in Europe, there is a need to protect individual rights and freedoms and to prevent the commercialisation of haematopoietic progenitor cells;

Considering that eligibility criteria for related donors (adults and minors) are less stringent and established compared to eligibility criteria for unrelated donors in most of the member States;

Considering that few member States have taken action to ensure insurance coverage of related donors at the same level as unrelated donors, especially when the related donor is a non-resident;

Considering that the technique for the collection of haematopoietic progenitor cells is the same irrespective of whether the donor is related or unrelated, and that the vast majority of donors need to undergo mobilisation of haematopoietic progenitor cells with growth factors (peripheral blood stem cell donation), whereas others require general anaesthesia (bone marrow donation), and thus an inherent risk of complications associated with the donation does exist and potential donors should be duly informed;

Considering that the requirements for the follow-up of haematopoietic progenitor cell donors and the

registration of data also differ significantly between member States, and that donor outcome data for both related and unrelated haematopoietic progenitor cell donors (adults and minors), including their health status and short-, medium- and long-term complications (e.g. malignancies, autoimmune disorders, thromboembolic disorders), should be collected, notified to health authorities and managed to help prevent these risks in the future:

Considering that the management of related and unrelated haematopoietic progenitor cell donors, including selection criteria and follow-up, should guarantee an equal level of donor safety and protection;

Considering that only through compilation of harmonised data on the outcome of haematopoietic progenitor cell donors (related and unrelated, adults and minors) by health authorities or other officially designated bodies will it be possible to obtain sufficient information to define and secure the proper follow-up of haematopoietic progenitor cell donors, to document prognoses (safety/morbidity) of these donors, to investigate causal relationships between pre-donation comorbidities and the incidence of complications during and after the donation process, and advise on possible preventive measures, and to inform future haematopoietic progenitor cell donors on the risks related to the donation process,

Recommends the governments of member States establish harmonised haematopoietic progenitor cell donor protection measures, which should be identical irrespective of the type of donor (related or unrelated, adult or minor), including the following:

- to develop recommendations for the assessment of donor medical suitability and on eligibility criteria for haematopoietic progenitor cell donation, as set out in Appendix 1 to this resolution;
- ii. to ensure that, before consent, donors (related and unrelated) receive appropriate information on the type(s) of tissues or cells to be donated, the collection procedures, the consequences and possible side- effects of donation and the purpose or final use of the donated cells to ensure a free and informed decision, including the right to withdraw consent at any time;
- iii. to ensure that no haematopoietic progenitor cell donation is carried out on a person who does not have the capacity to consent. Exceptionally, and depending on the age and the degree of maturity, a minor may become a family donor only in very

- specific circumstances and provided they do not object to the donation and with the support of an advocate. The authorisation of a representative, authority or person or body provided for by law should be given specifically and in writing and with the approval of the competent body;
- iv. to ensure that donors (related and unrelated, adults and minors) having donated haematopoietic progenitor cells are offered both appropriate psychological support in the event of post-donation difficulties, and medical care, including, short-and long-term follow-up that takes into account the actual health status and possible complications related to donation:
- v. to set up procedures and methods for the collection of a minimum set of data on all haematopoietic progenitor cell donors (related and unrelated, adults and minors; peripheral blood stem cells and bone marrow) as specified in Appendix 2;
- vi. to ensure that haematopoietic progenitor cell donors (related and unrelated) receive financial compensation for loss of earnings and reimbursement of any justifiable expenses associated with the donation and related medical examinations, as well as in the event of undue damage as a direct result of the donation;

Agrees that the Council of Europe European Committee on Organ Transplantation or, if necessary, a subordinate body, may revise the appendices of this recommendation in the future in keeping with developments in the field.

Appendix 1 to Recommendation CM/Rec(2020)6 of the Committee of Ministers to member States Recommendations for the medical suitability assessment and eligibility criteria for haematopoietic progenitor cell donors

The European Committee on Organ Transplantation (CD-P-TO) of the Council of Europe, using as a scientific basis the Council of Europe Guide to the quality and safety of tissues and cells for human application, has prepared these recommendations to guide the medical suitability assessment and eligibility criteria for haematopoietic progenitor cell donors (adults and, when applicable, minors):

 during the recruitment/registration of related and unrelated haematopoietic progenitor cell donors, certain diseases and risk behaviours that pose a risk to the donor or the potential recipient should be identified through a dedicated questionnaire checking for:

- a. malignancy;
- b. cardiovascular disease;
- c. any chronic disease (immune-mediated, allergic, thrombo-embolic disease, etc.);
- d. risk of infectious diseases related to behaviour;
- e. inherited genetic disease;
- 2. during the selection stage for related and unrelated haematopoietic progenitor cell donors, potential contraindications for one of the two collection methods should be identified; information about potential transmissible diseases and any relevant issue should be provided to the transplant centre through:
 - a. history/questionnaire, updating the information from the previous stage, specifically with regard to:
 - the risk of infectious diseases (e.g. risk behaviour, trips, planned invasive procedures);
 - ii. any planned medical procedure;
 - iii. serious psychosocial or psychiatric disease with impact on the capacity to undergo a donation procedure;
 - iv. medication;
 - v. non-prescription drug use;
 - vi. height and weight;
 - vii. blood pressure;
 - viii. pregnancy or pregnancy planning and breastfeeding;
 - b. blood tests for infectious disease markers (depending on national laws and requirements [e.g. HIV, HBV, HCV, HTLV, syphilis, cytomegalovirus]);
- 3. prior to HLA typing (related donors), in order to save time and disappointment and before

concluding that the related donor is the best match, information on all aspects highlighted above should be obtained to identify any contraindication to donation and consent to donation should be confirmed:

- 4. donor work-up should include:
 - a full record of the donor's history, looking for any signs of undiagnosed diseases (including emerging diseases);
 - b. complete physical examination;
 - c. psychological evaluation by a trained professional (if appropriate);
 - d. laboratory tests:
 - i. infectious disease markers;
 - ii. full blood count;
 - ii. ABO and Rh typing;
 - iv. biochemistry;
 - v. chest X-ray (if appropriate);
 - vi. electrocardiogram (if appropriate).

Appendix 2 to Recommendation CM/Rec (2020)6 of the Committee of Ministers to member States Recommendation for the collection of minimum data on all haematopoietic progenitor cell donors and donations

With the aim of facilitating harmonised data collection for haematopoietic progenitor cell donors and donations (related and unrelated; adult and minor; peripheral haematopoietic progenitor cells and bone marrow) and to ensure that all donors are offered the same medical care after donation, including follow-up according to professional standards that takes into account their actual health status and possible complications related to donation, this appendix includes the minimum data set that should be collected from each donor:

- 1. donor information:
 - a. identification number;
 - b. date of birth/age;

- c. gender;
- d. country of residence;
- 2. donation data:
 - a. date of donation;
 - b. donation centre;
 - c. type of donor:
 - i. related (HLA-identical/haplo-identical)/unrelated;
 - ii. peripheral haematopoietic progenitor cell;
 - iii. bone marrow;
 - iv. unstimulated leukocytes;
 - d. number of haematopoietic progenitor cell collection procedures in the donation cycle concerned;
 - e. total number of procedures during the donor's lifetime;
 - f. type of mobilising agents, doses and administration route, if appropriate;
- 3. post-donation/follow-up data:

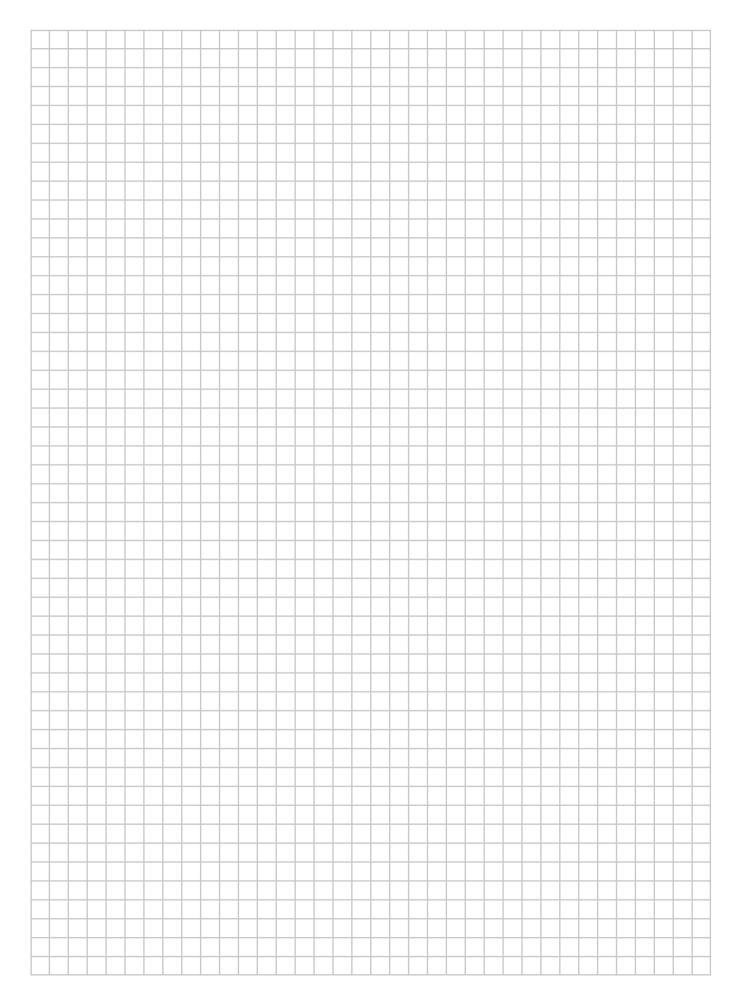
- a. short-term follow-up;
 - i. severe adverse reactions during and in the first 30 days after donation, related to:
 - a). the collection procedure;
 - b). haematopoietic progenitor cell mobilisation;
- b. long-term follow-up

The first long-term follow-up report should be submitted one year after the last haematopoietic progenitor cell donation and, subsequently, every two years up to 10 years after the last donation procedure³. These follow-up reports should contain the following:

- i. information about newly diagnosed diseases covering at a minimum:
 - a). severe or systemic autoimmune disorders;
 - b). malignancies (haematological, oncological);
- ii. new long-term medication prescriptions;
- iii. survival and, if applicable, cause of death.

³ According to the recommendations of the European Society for Blood and Marrow Transplantation (EBMT), available at https://www.ebmt.org/sites/default/files/migration_legacy_files/document/Donor%20Outcome%20Manual.pdf [last accessed 25 June 2020]





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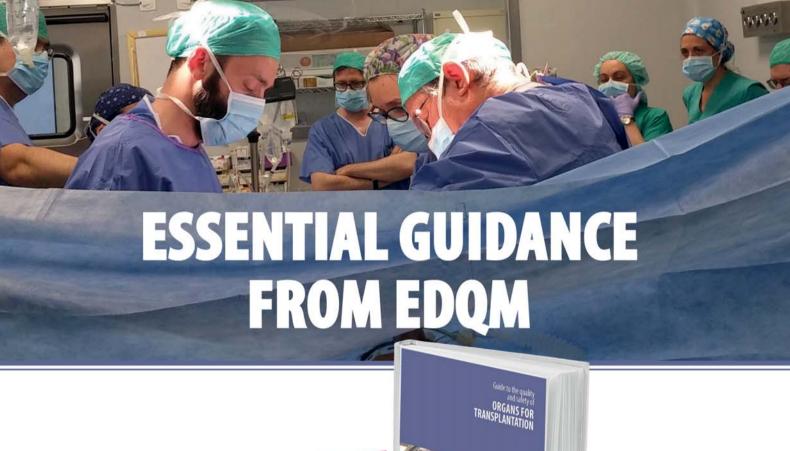
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