NEWSLETTER TRANSPLANT

International figures on donation and transplantation 2020



EDQM Volume 26 2021



GOBIERNO MINISTERIO DE ESPAÑA DE SANIDAD





COUNCIL OF EUROPE



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.

JAPAN

NATIONAL DATA PROVIDED BY:

EUROPEAN UNION

AUSTRIA

Martina Brix-Zuleger Dave Green (ET) BELGIUM Luc Colenbie Dave Green (ET) BULGARIA Dessislava Tsoneva **CROATIA** Martina Anušić Juričić Dave Green (FT) CYPRUS Chrystalla Despoti **CZECH REPUBLIC** Michaela Vrbová DENMARK Ilse Duus Weinreich (SKT) **ESTONIA** Virge Pall FINLAND Ilse Duus Weinreich (SKT) FRANCE **Christelle Cantrelle** GERMANY Brigitte Ossadnik Josephine Wadewitz Dave Green (ET) GREECE Konstantina Tsarouha HUNGARY Sándor Mihály IRELAND Brenda Poole ITALY Ilaria Lombardi Francesca Puoti LATVIA Janis Jushinskis LITHUANIA Kotryna Caikauskaite LUXEMBURG Dave Green (ET) MALTA Paul Calleja NETHERI ANDS Dave Green (ET) POLAND Piotr Malanowski PORTUGAL Margarida Ivo da Silva ROMANIA Alin Burlacu

SLOVAKIA Ivana Dedinská SLOVENIA Barbara Uštar Dave Green (ET) SPAIN Elisabeth Coll Itziar Martínez SWEDEN Ilse Duus Weinreich (SKT) UNITED KINGDOM Alice Newton

(ET) EUROTRANSPLANT Members: Austria, Belgium, Croatia, Germany, Hungary, Luxemburg, Netherlands and Slovenia

(SKT) SCANDIATRANSPLANT Members: Denmark, Finland, Norway, Sweden and Iceland

OTHER COUNTRIES

ALBANIA Flutra Bego ALGERIA Hocine Chaouche Saaoui Abdelkrim ARMENIA Ashot Sarkissian AUSTRALIA Byron Arcia BANGLADESH Harun Ur Rashid BELARUS Fedaruk Dzmitry **BOSNIA & HERZEGOVINA** Olivera Tadic CANADA Deepthi Chennabathni CHINA Bing Du ETHIOPIA Lina Mohammed GEORGIA Gia Tomadze ICELAND Ilse Duus Weinreich (SKT) INDIA Vasanthi Ramesh ISRAEL Tamar Ashkenazi

Hiroto Egawa Takanobu Hara KENYA Ahmed Twahir KUWAIT Mustafa Al-Mousawi MALAYSIA Melvyn Edward Anthony MONGOLIA Batchuluun Pandaan Battsetseg Gonchigjav Altantulga Bavaraa **NEW ZEALAND** Kylie Hurst NORWAY Ilse Duus Weinreich (SKT) OMAN Ahmed Al Busaidi PAKISTAN Adibul Hassan Rizvi Mirza Nagi Zafar OATAR **Riadh Fadhil** Yasser Shafi MOLDOVA, REPUBLIC OF Tatiana Timbalari REPUBLIC OF NORTH MACEDONIA Goce Spasovski **RUSSIAN FEDERATION** Lvavla Gabbasova SAUDI ARABIA **Besher Al-Attar** Paul Mark Follero SERBIA Vladimir Resanovic **SUDAN** Mahmoud Ali Obeid SWITZERLAND Andreas Elmer SYRIAN ARAB REPUBLIC Bassam Saeed THAILAND Visist Dhitavat **TRINIDAD & TOBAGO** Bridgit Elcock Straker TURKEY İlker Ünsal UNITED ARAB EMIRATES Ali Abdulkareem Al Obaidli Rashed Esmaeil Al Hashmi UKRAINE Arman Kacharian

Editor: Beatriz Domínguez-Gil

UNITED STATES OF AMERICA

Scott Verbeke

LATIN AMERICAN COUNTRIES

ARGENTINA

Sergio Madera BOLIVIA Ariana B. Rodríguez Sandoval BRAZIL Valeska Masson Neves Gameiro CHILE Paulina Acuña S. Juan F. Sánchez Jaime Rodrigo Muñoz Alvarez COLOMBIA Carolina Flórez Sánchez COSTA RICA Allan Varela Rodríguez Roselvn Serrano **CUBA** M. Antonio Enamorado DOMINICAN REPUBLIC Fernando R. Morales Alexander Altman ECUADOR Johanna Zambrano **EL SALVADOR** Raul Palomo **GUATEMALA** Randall Lou-Meda Rudolf García-Gallont MEXICO J. Salvador Aburto NICARAGUA

PANAMA

Cesar J. Cuero PARAGUAY Gustavo A. Melgarejo Marcelo Martínez PERU Yeny Guerra Salas URUGUAY Milka Bengochea VENEZUELA Rosa George

Organización Nacional de Trasplantes (ONT) – Spain

Beatriz Domínguez-Gil Beatriz Mahillo Marina Álvarez Mar Carmona

Published jointly with the European Directorate for the Quality of Medicines & HealthCare of the Council of Europe (EDQM), 7 allée Kastner, CS 30026, F-67081 <u>STRASBOURG</u>. ISSN: 2171-4118 © 2021 Council of Europe and Organización Nacional de Trasplantes. Cover photo © Fotolia – Romolo Tavani.

NEWSLETTER TRANSPLANT 2021



CONTENTS

• Letter from the Editor	
International Figures on Organ Donation and Transplantation Activity. Year 2020	
International Data on Organ Donation and Transplantation Activity and Waiting List. Year 2020	
International Data on Organ Donation and Transplantation Activity. Year 2020 vs 2019 71	
 International Data on Tissues and Haematopoietic Stem Cell Donation and Transplantation Activity. Year 2020	
 Council of Europe Reference Documents. Year 2020	
haematopoietic progenitor cell 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 criteria.

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).

DOUBLE-KIDNEY TX.

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 previously unknown recipient by 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.

DOMINO DONOR

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.

HEART-LUNG TX.

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



























9447 ACTUAL DECEAS	
(7833 DBD and 1	614 DCD donors)

2020 data

N= 28 COUNTRIES (513 million inhabitants)

(18% LD)

(3% LD)































ONT

MINISTERIO DE SANIDAD

LATINAMERICAN COUNTRIES



Kidney	Liver	Heart	Lung	Pancreas	Small Bowel	Organs
Transplants	Transplants	Transplants	Transplants	Transplants	Transplants	Transplanted
7782 (19% LD)	2864 (10% LD)	515	126	207	2	11496

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

100

2020 data

N= 17 COUNTRIES (613,9 million inhabitants)



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




GOBIERNO DE ESPAÑA

MINISTERIO DE SANIDAD **ONT**

Actual donors from deceased persons, 2020*



The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.





The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.









ESPAN/

Kidney transplantation activities, 2020*



The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.







The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement. Data Source: Global Observatory on Donation and Transplantation Map Production: WHO GIS Centre for Health, DNA/DDI Map Creation Date: **07 September 2021**



MINISTERIO DE SANIDAD **ONT**







BIFRNO

DE ESPANA

Heart transplantation activities, 2020*



The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.







MONT MINISTERIO DE SANIDAD

Lung transplantation activities, 2020*



The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.









DBIERNO

Pancreas transplantation activities, 2020*



The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Map Creation Date: 07 September 2021





Centre on Donation and Transplantation

MONT

MINISTERIO DE SANIDAD

Small bowel transplantation activities, 2020*



The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.









ESPANA

Global transplantation activities of solid organs, 2020*



The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.



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



						[OONATIO	ON ACT	VITY											
						EURO	PEAN UI		OUNTRIE	S										
COUNTRIES	Aust	tria	Belgi	ium	Bul	garia	Croa	atia	Сурі	ʻus	Czech Re	public	Denm	nark	Esto	nia	Finla	and	Fran	ce
Population (million inhabitants): UNFPA	9.0	0	11.			5.9	4.	1	1.2	2	10.	7	5.8	3	1.3		5.	5	65.	3
										-				-				5		5
							DOM	IATION			1				1		1			
Actual deceased organ donors	Number	PMP	Number	PMP	Number	r PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	РМР
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		1012		0.0		010	, , , , , , , , , , , , , , , , , , ,	0.0	0	0.0		010		010		010	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)																				

					EURO	OPEAN		OUNTR	IES		1						1	
COUNTRIES	Germa	ny	Gree	ce	Hung	Jary	Irela	nd	Ital	ly	Latvi	a	Lithua	nia	Luxemb	ourg	Mal	ta
Population (million inhabitants): UNFPA	883.8	;	10.4	1	9.3	7	4.9	•	60.	.5	1.9		2.7	,	0.6		0.4	ı
						D	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											
Utilised deceased donors (> 60 years)	373	4.5	17	1.6	21	2.2		1.8	680	11.2	0	0.0	13	4.8	0	0.0	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	0.0	10	0.2			3	1.1				
III/ Withdrawal of life-sustaining therapy (controlled)							7	1.4	42	0.7			0	0.0				
IV/ Cardiac arrest while brain dead							0	0.0	1	0.0			1	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	Ινιτγ										
					EUR	OPEAN	UNION C	OUNTR	IES									
COUNTRIES	Nether	lands	Polan	d	Portu	gal	Roma	nia	Slova	kia	Slove	nia	Spai	n	Swee	len	United K	ingdom
Population (million inhabitants): UNFPA	17.	1	37.8	:	10.	2	19.3	2	5.5	5	2.1		46.8	3	10.	1	67	.9
						D	ONATION	I	1				1		1			
Actual deceased organ donors	Number	РМР	Number	PMP	Number	PMP	Number	РМР	Number	PMP	Number	РМР	Number	РМР	Number	РМР	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)	155	2.1		0.0	11	1.1		0.0		0.0		0.0	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
Utilised deceased donors (men)	133	7.8	264	7.0	136	13.3	38	2.0	39	7.1	20	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)		5	9	0.2	12	1.2		2.0	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	NATIO	N AC																
								0	THER C	OUN	TRIES															
COUNTRIES	Alba	inia	Alger	ia	Armo	enia	Aust	ralia	Bangla	desh	Bela	irus	Bosi an Herzeg	d	Cana	da	Chir	na	Ethiopia		Georg	ia	Icel	and	Ine	dia
Population (million inhabitants): UNFPA	2.	9	43.9	•	3.	0	25	.5	164.	.7	9.	4	3.	3	37.	7	1447	7.4	115.0		4.0		0	.3	138	30.0
									DON	ATIO	N															
Actual deceased organ donors	Number	r PMP	Number	РМР	Numbe	r PMP	Numbe	r PMP	Number	PMP	Numbe	r PMP	Number	PMP	Number	PMP	Number	РМР	Number Pl	ИР	Number	PMP	Numbe	er PMP	Numbe	er PN
Actual deceased organ donors																										
(both DBD and DCD included)	0	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
Actual deceased donors (men)							280	11.0			118	12.6	1	0.3			4224	2.9					2	6.7	242	0.
Actual deceased donors (> 60 years)							111	4.4			22	2.3	0	0.0			633	0.4					3	10.0	58	0.
Actual donors after circulatory death (DCD)							138	5.4			0	0.0	0	0.0			2907	2.0					0	0.0	4	0.
I/ Witnessed cardiac arrest (uncontrolled)																							-		4	0
III/ Withdrawal of life-sustaining therapy (controlled)																									0	0
IV/ Cardiac arrest while brain dead																	857	0.6							0	0
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.
Utilised deceased donors (men)							265	10.4			110	11.7	1	0.3			4200	2.9					2	6.7	241	0.
Utilised deceased donors (> 60 years)							105	4.1			19	2.0	0	0.0			625	0.4					3	10.0	57	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.
I/ Witnessed cardiac arrest (uncontrolled)																									4	0.
III/ Withdrawal of life-sustaining therapy (controlled)																									0	0.
IV/ Cardiac arrest while brain dead																	852	0.6							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.
Living Kidney donors (men)	1	0.3	35	0.8	5	1.7	124	4.9	44	0.3	0	0.0					543	0.4	6 (.1	11	2.8	4	13.3	1618	1
Total living liver donors	0	0.0	2	0.0	1	0.3	1	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
Living liver donors (men)			1	0.0	0	0.0	1	0.0			4	0.4					388	0.3			6	1.5			657	0
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			13	0.0	0 0	.0	0	0.0	0	0.0	2	0
Domino liver donors (men)																	8	0.0							2	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
Living lung donors (men)																										

-								DO	NATIO	N AC	TIVIT	Y													
								0	THER C	OUN	TRIES														
COUNTRIES	Isra	iel	Japa	an	Ken	iya	Kuw	/ait	Malay	ysia	Mon	golia		ew Iland	Nor	rway	On	nan	Pakist	tan	Qatar		o. of dova	No	o. of orth donia
Population (million inhabitants): UNFPA	8.	7	126	.5	53	.8	4.	3	32.4	4	3.	.3	4	.8	5	.4	5	.1	220.	.9	2.9	4	.0	2	.1
					I				DON	ΑΤΙΟ	N				I		I			ľ		1			
Actual deceased organ donors	Numbe	r PMP	Number	РМР	Numbe	r PMP	Number	PMP	Number	PMP	Numbe	er PMP	Numbe	er PMP	Numbe	er PMP	Numbe	er PMP	Number	РМР	Number PMP	Numbe	er PMP	Numbe	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																					

							DONAT	ION A	CIIVII	Y												
							OTHE		NTRIE	S												
COUNTRIES	Russian Federatio	'n	Saudi Arabia		Serbia		Sudan	Switze	erland		Syrian Arab Rep.	Tha	iland	Trini ar Tob	nd	Turi	key	Ukraine		United Arab Emirates	State	ited es of erica
Population (million inhabitants): UNFPA	145.9		34.8		8.7		43.8	8.	7		17.5	6	9.8	1.	.4	84	.3	43.7		9.9	33	1.0
				1		1	D	ONATIO	ON					1		1		1			1	
Actual deceased organ donors	Number P	MP	Number P	MP	Number PMP	N	lumber PMP	Numbe	r PMP	Num	ber PMP	Numb	er PMP	Numbe	er PMP	Number	r PMP	Number Pl	МΡ	Number PMP	Numbe	er PMP
Actual deceased organ donors																						
(both DBD and DCD included)	572	3.9	65	1.9	3 0.3	3 0	0.0	146	16.8	0	0.0	315	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	244	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) II/ Witnessed cardiac arrest (uncontrolled)		0.1	0	0.0	0 0.0			50 0	5.7 0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0 0.0	3224 26	9.7 0.1
III/ Withdrawal of life-sustaining therapy (controlled)		0.0						50	5.7												3170	9.6
IV/ Cardiac arrest while brain dead		0.0						0	0.0												28	9.0 0.1
W cardiac arest while blain acad	/	0.0						0	0.0												20	0.1
Utilised deceased organ donors																						
Utilised deceased organ donors																						
(both DBD and DCD included)	564	3.9	63	1.8	3 0.3	3 0	0.0	136	15.6	0	0.0	304	4.4	2	1.4	148	1.8	11	0.3	9 0.9	11578	35.0
Utilised deceased donors (men)	412	2.8	54	1.6				81	9.3			235	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	4.57						20	70										70				
Total living kidney donors		1.1		3.7	0 0.0		39 3.2	79	9.1	211	12.1	134	1.9	6	4.3	2249	26.7	79	1.8	45 4.5	5234	15.8
Living Kidney donors (men)		0.4		9.8		5						53	0.8	2	1.4	1051	12.5			21 2.1	1824	5.5
Total living liver donors		1.2		5.5	0 0.0			3	0.3	0	0.0	31	0.4	0	0.0	1189	14.1	17	0.4	6 0.6	486	1.5
Living liver donors (men)		0.5	135	3.9		0						7	0.1			711	8.4			5 0.5	205	0.6
Total domino liver donors	0	0.0			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	0.0
Living lung donors (men)																						

						DONAT	ΙΟΝ ΑCTΙ	VITY										
					LATI		RICAN CO	UNTRIE	S									
COUNTRIES	Argent	ina	Boliv	/ia	Braz	zil	Chi	e	Colon	nbia	Costa	Rica	Cu	ba	Domin Repu		Ecua	dor
Population (million inhabitants): UNFPA	45.2	2	11.	7	212	.6	19.	1	50.	9	5.1	1	11	.3	10	.8	17.	.6
						D	ONATION											
Actual deceased organ donors	Number	РМР	Number	РМР	Number	PMP	Number	PMP	Number	РМР	Number	PMP	Number	PMP	Number	PMP	Number	РМР
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) 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	0	0.0	0	0.0
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) 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	0	0.0	0	0.0
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 Living lung donors (men)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

						DONA	ΓΙΟΝ ΑCTΙ	VITY										
					LAT	IN AME	RICAN CO	UNTRI	ES						1			
COUNTRIES	El Salva	ador	Guate	mala	Mex	ico	Nicara	gua	Pana	ma	Paragu	Jay	Peru		Urugu	ay	Venez	uela
Population (million inhabitants): UNFPA	6.5		17.	9	128	.9			4.3	3	7.1		33.0)	3.5		28.	4
						D	ONATION											
Actual deceased organ donors	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMF
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)					0	0.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Il/ Witnessed cardiac arrest (uncontrolled)						010				010		010		010		0.0		010
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)	0	0.0	0	0.0	150	1.2			3	0.7	6	0.8	15	0.5	63	18.0	0	0.0
Utilised deceased donors (men)	-				94				2	0.5	5	0.7	10	0.3				
					94	0.7				0.5		0.7		0.3	33	9.4		
Utilised deceased donors (> 60 years)					10	0.1			0	0.0	0	0.0	2	0.1	15	4.3		
Utilised donors after circulatory death (DCD)					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	11	1.7	29	1.6	630	4.9			7	1.6	3	0.4	20	0.6	8	2.3	3	0.1
Living Kidney donors (men)			16	0.9	290	2.2			3	0.7	1	0.1	7	0.2	4	1.1	2	0.1
Total living liver donors	0	0.0	0	0.0	10	0.1							6	0.2	1	0.3		
Living liver donors (men)					3	0.0			0	0.0	0	0.0	6	0.2	1	0.3	0	0.0
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
Domino liver donors (men)	c .									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)																		

						TRAN	SPLANTA		ΑϹΤΙVΙΤΥ	7										
						EURO	PEAN UN	ION CO	DUNTRIE	S										
COUNTRIES Population (million inhabitants): UNFPA	Aust 9.0		Belgi 11.		Bulg 6.		Croat 4.1		Cypro 1.2		Czech Re 10.7		Denm 5.8		Estor 1.3		Finla 5.5		Fran 65.	
		, 		.0			FRANSPL				10.7		5.0		1.5			·	05.	5
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	РМР
KIDNEY Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years)	335 217 11 291 19 286 5 44 43 1 1 0 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 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 6 6 0	1.2 1.0 0.0 0.3 0.0 0.9 0.9 0.0	98 67 0 95 0 3 2 1 0 0 1	23.9 16.3 0.0 23.2 0.0 0.7 0.5 0.2 0.0 0.0 0.2	13 10 5 0 8 8 0	10.8 8.3 0.0 4.2 0.0 6.7 6.7 0.0	443 272 6 415 11 410 5 28 23 5 5 5 0 0 0	41.4 25.4 0.6 38.8 1.0 38.3 0.5 2.6 2.1 0.5 0.5 0.0 0.0	278 175 7 200 0 200 0 78 72 6 6 6 0 0	47.9 30.2 1.2 34.5 0.0 34.5 0.0 13.4 12.4 1.0 1.0 0.0 0.0	47 23 3 43 0 43 0 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 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 0.0	2595 1622 83 2205 260 2195 10 390 390 0	39.7 24.8 1.3 33.8 4.0 33.6 0.2 6.0 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 6	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 0 0 5 0	1.0 0.4 0.4 0.0 0.0 0.7 0.0	95 25 6 8 0 1 0	23.2 6.1 1.5 2.0 0.0 0.2 0.0			172 108 18 12 0 0 2	16.1 10.1 1.7 1.1 0.0 0.0 0.2	66 38 8 5 0 3 0	11.4 6.6 1.4 0.9 0.0 0.5 0.0	12 8 2 0 0 0 0	9.2 6.2 1.5 0.0 0.0 0.0 0.0	75 46 8 0 0 0 0	13.6 8.4 1.5 0.0 0.0 0.0 0.0	1128 794 81 70 1 15 74	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 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 21 0	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 1 0	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 7 0	1.2 0.9 0.0 0.0 1.2 0.0	6 4 0 1 5 0	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	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	0.2 0.0	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	ГҮ									
					EUR	OPEAN	UNION C	OUNTR	IES									
COUNTRIES Population (million inhabitants): UNFPA	Germa 83.		Gree 10.4		Hung 9.7		Irela 4.9		Ital 60.		Lat 1.9		Lithua 2.7		Luxemb 0.6		Ma 0.4	
Population (minion minabitants). ONFFA	05.	.0	10.4		9.7		SPLANTA		00.	5	1.9		2.7		0.0	,	0.	+
	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 1	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 0	16.8 11.1 1.0 8.3 0.0 8.3 0.0 8.6 8.6 0.0	202 115 10 172 0 30	20.8 11.9 1.0 17.7 0.0 3.1	123 73 9 95 14 81 0 28 27 1 1 0 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 0.0 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 3 3 0	21.6 14.7 0.5 20.0 1.6 1.6 0.0	82 43 1 79 4 79 0 3 3 0	30.4 15.9 0.4 29.3 1.5 29.3 0.0 1.1 1.1 0.0			4 3 0 4 0 4 0 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 0	9.9 6.3 1.3 0.9 0.0 0.6 0.0	32 23 0 0 0 0 0	3.1 2.2 0.0 0.0 0.0 0.0 0.0 0.0	50 36 4 0 0 0 0	5.2 3.7 0.4 0.0 0.0 0.0 0.0	37 28 0 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 0	1.1 0.5 0.0 0.0 0.0 1.1 0.0	14 12 0 0 0 0 0	5.2 4.4 0.0 0.0 0.0 0.0 0.0			1 0 0 0 0 0	2.5 2.5 0.0 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	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	0.3 0.3 0.0 0.0 0.3 0.0	17 8 1 0 17 0	1.8 0.8 0.1 0.0 1.8 0.0	16 11 0 8 8 1	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 1 0	0.4 0.0 0.0 0.0 0.4 0.0			1 1 0 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 0	1.1 0.6 0.0 0.1 1.0 0.0	0	0.0	6 3 0 0 6 0	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 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 17.1		Polan 37.8		Portu 10.2		Roma 19.2		Slova 5.5		Slover 2.1	nia	Spai 46.8		Swed		United Ki 67.	
			57.0		10.2		SPLANTA			, 	2.1			,	1 10.	•	07.	
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	РМР
KIDNEY Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years)	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 0	19.9 12.9 0.6 19.0 0.0 19.0 0.0 0.8 0.8 0.0	394 235 8 353 17 352 1 41 36 5 5 5 0 0	38.6 23.0 0.8 34.6 1.7 34.5 0.1 4.0 3.5 0.5 0.5 0.5 0.0 0.0	174 120 15 120 0 118 2 54 53 1 0 0 1	9.1 6.3 0.8 6.3 0.0 6.1 0.1 2.8 2.8 0.1 0.0 0.0 0.0 0.1	131 96 4 113 0 113 0 18 18 0	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 0	22.4 14.8 0.0 21.9 0.0 21.9 0.0 0.5 0.5 0.0	2702 1770 88 2443 894 2435 8 259 240 19 19 19 0 0	57.7 37.8 1.9 52.2 19.1 52.0 0.2 5.5 5.5 5.5 0.4 0.4 0.4 0.0 0.0	429 276 20 313 22 311 2 116 107 9 7 2 0	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 1.4 4.2	291 168 38 0 28 0	7.7 4.4 1.0 0.0 0.7 0.0	193 135 8 4 3 1 1	18.9 13.2 0.8 0.4 0.3 0.1 0.1	62 49 0 0 0 9 0	3.2 2.6 0.0 0.0 0.0 0.5 0.0	19 13 0 0 0 0 0	3.5 2.4 0.0 0.0 0.0 0.0 0.0	25 15 1 0 0 0 0	11.9 7.1 0.5 0.0 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 1	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 1 0	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 17	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 0.0 0.0 0.1 0.0	27 12 0 27 0	2.6 1.2 0.0 2.6 0.0	0	0.0	0	0.0	2 1 0 2 0	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 0	1.3 0.7 0.0 0.3 1.0 0.0	116 62 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

				TR			/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
					TRANSPL	ANTATION							
	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
KIDNEY Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years)	7 2.4 0 0.0 0 0.0 0 0.0 0 0.0 7 2.4 0 0.0	59 1.3 4 0.1 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 91 2.1 91 2.1	10 3.3 6 2.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 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 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 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 2 2 0.6 2 0.6	39 1.0 1122 29.8 307 8.1 396 10.5 213 5.6	7652 5.3 292 0.2 9399 6.5 5239 3.6 9307 6.5 92 0.1 1638 1.1 1638 1.1	4 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 8 0.1	10 2.5 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 17 4.3 17 4.3	3 10.0 0 0.0 3 10.0 0 0.0 7 23.3 7 23.3	3932 2.8 137 0.1 516 0.4 4 0.0 500 0.4 16 0.0 4970 3.6 4873 3.5
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	0 0.0 0 0.0 0 0.0	54 1.4 6 0.2 91 2.4	14 0.0 874 0.6		10 2.5 6 1.5 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0	0 0.0	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			414 0.3 52 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	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 0.0	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 10 0.1	0 0.0	0 0.0 14 0.4 309 8.2	4080.380.01910.1		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		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	60 1.4 4 0.1	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	2 0.6 0 0.0	129 3.4	17897 12.4 12797 8.9 1529 1.1 2512 1.7	4 0.0 0 0.0	16 4.0 0 0.0	5 16.7 1 3.3	5380 3.9 311 0.2

							TR.	ANSPLANT	ATIC	ON ACTIV	ΊΤΥ													
								OTHER C	OU	NTRIES														
COUNTRIES	Isra	el	Japa	n	Kenya	Kuwait		Malaysia	N	Mongolia	New	v Zealand	No	rway		Oman	Paki	stan	Q	atar	Rep		Rep. of Mace	
Population (million inhabitants): UNFPA	8.7	7	126	.5	53.8	4.3		32.4		3.3		4.8	5	5.4		5.1	220	0.9	2	2.9	Mold 4.		Mace 2	
								TRANSPL	AN'	TATION														
KIDNEV	Number	r PMP	Number	PMP	Number PMP	Number PM	IP	Number PMP	Nu	umber PMP	Nun	nber PMP	Numb	er PMP	Nur	nber PMP	Numbe	r PMP	Numb	er PMP	Number	PMP	Numbe	er PMP
KIDNEY Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years)	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 0	13.4 0.4 1.1 0.1 1.1 0.0 12.3 12.3 0.0	142 2.6 99 1.8 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 142 2.6 0 0.0	24 5 0 0 24 5 0 0 37 8	.4 .0 .6 .0 .6 .0 .6 .6	$\begin{array}{cccccc} 153 & 4.7 \\ 85 & 2.6 \\ 5 & 0.2 \\ 41 & 1.3 \\ 0 & 0.0 \\ 41 & 1.3 \\ 0 & 0.0 \\ 112 & 3.5 \\ 111 & 3.4 \\ 1 & 0.0 \\ 0 & 0.0 \\ 0 & 0.0 \\ 1 & 0.0 \end{array}$	21 1 6 0 6 0 23 23 0	6.4 0.3 1.8 0.0 1.8 0.0 7.0 7.0	187 115 7 100 13 97 3 87 60 27 24 3 0	1.5	143 11	44.4 26.5 2.0 33.5 0.0 33.5 0.0 10.9 10.9 0.0	0	0.0	129 10 0 0 0 129 129 0	0.0 0.6 0.6	4 0 13	5.9 4.1 0.3 1.4 0.0 1.4 0.0 4.5 4.5 0.0	1 0 2	0.8 0.3 0.0 0.5 0.0 0.3 0.3 0.0	12 7 0 4 0 4 0 8 8 0	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 0	9.8 5.5 2.0 0.0 1.5 0.0	380 186 120 14 1 316 0	3.0 1.5 0.9 0.1 0.0 2.5 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	20 1 0 28	6.1 0.3 0.0 0.0	55 39 13 14 0 3 5	11.5 8.1 2.7 2.9 0.0 0.6 1.0	52 8 7 0 0	16.3 9.6 1.5 1.3 0.0 0.0 0.0	0	0.0	60 2 0 0 60 0	0.0 0.3	1 1 0 0 0 0 0	0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0	0 0 1	0.5 0.3 0.0 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	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	13 0	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 0	.0	1 0.0 0 0.0 0 0.0 0 0.0 1 0.0 0 0.0		0.0	23 4 19 3	4.8 0.8 4.0 0.6	28 15 1 0 28 0	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		3 0 0 3 0	0.6 0.0 0.0 0.6 0.0	2	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
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 2.6 99 1.8 0 0.0 142 2.6	63 14 36 8 0 0 37 8	.4	182 5.6 99 3.1 14 0.4 123 3.8	41 2	12.4 0.6	278 90	57.9 18.8	382 228 25 59	70.7 42.2 4.6 10.9	0	0.0	189 12 189	0.9 0.1 0.9	18 14 1 13	6.2 4.8 0.3 4.5		1.3 0.5 0.0 0.5	13 8 0 8	6.2 3.8 0.0 3.8

								TRANS	SPLAN	ΤΑΤΙΟΙ	Ν ΑCTΙ	VITY												
								(OTHER	COUN	TRIES													
COUNTRIES Population (million inhabitants): UNFPA	Russ Federa 145	ation	Saudi / 34		Ser 8.		Suc 43		Switz 8	erland 7	Syr Arab 17			iland 9.8	Trinic and To 1.4	bago	Tur 84		Ukrai 43.		Emi	d Arab rates .9	United S of Ame 331	erica
ropulation (minion minabitants). ONFFA	145	.9	34	.0	0.	./	43		-	., PLANT/		.5	0	9.0	12	+	04		43.	/	3	.9	331	.0
	Number	rPMP	Numbe	er PMP	Number	r PMP	Numbe		Numbe		1	er PMP	Numbe	er PMP	Numbe	r PMP	Numbe	r PMP	Number	РМР	Numb	er PMP	Numbe	r 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 Part from unrelated living donors Part exchange or cross-over Non-directed altruistic or anonymous Directed altruistic	1124 648 119 967 27 967 0 157 157 0	7.7 4.4 0.8 6.6 0.2 6.6 0.0 1.1 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 0.3	6 0 6 0	0.7 0.0 0.7 0.0 0.0	139 110 3 0 0 139 135 4 4 0 0	3.2 2.5 0.1 0.0 0.0 0.0 0.0 3.2 3.1 0.1 0.1 0.0 0.0	296 136 12 217 61 217 0 79 78 1 0 1 0	34.0 15.6 1.4 24.9 7.0 24.9 0.0 9.1 9.0 0.1 0.0 0.1 0.0	211 24 0 0 0 211 97 114 0 0 114	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 0.0	10 9 0 4 0 4 0 6 5 1 0 0 1	7.1 6.4 0.0 2.9 0.0 2.9 0.0 4.3 3.6 0.7 0.0 0.0 0.0 0.7	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 45 0	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	71.4 43.8 2.2 55.6 14.2 54.8 0.9 15.8 12.2 3.6 2.5 1.1
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 0	7.0 4.6 2.4 0.1 5.5 0.0	3 0 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 0	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 17 0	0.5 0.2 0.0 0.0 0.4 0.0	11 4 0 0 0 6 0	1.1 0.4 0.0 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	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	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	0.0	11 9 0 0 11 0	0.1 0.0 0.0 0.1 0.0	0	0.0	1 0 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	0.1 0.0 0.0 0.0 0.1 0.0	2 2 1 0 2 0	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	0.0	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 0.0 0.0	1 0 0 1 0	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 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	113.5 70.7 5.1 17.3

					TRA	NSPLA	NTATION	ACTIVI	ТҮ									
					LAT	IN AM	RICAN CO	DUNTRI	ES									
COUNTRIES Population (million inhabitants): UNFPA	Argen 45.		Bolivi 11.7		Braz 212.		Chil 19.1		Colom 50.9		Costa F 5.1	Rica	Cuba 11.3		Dominican 10.		Ecua 17.	
	15.	-					SPLANTA			-					1 10.			
	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	РМР
KIDNEY Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years)	854 475 69 724 0 722 2 130 123 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 10 10 10 0	0.9 0.3 0.1 0.0 0.0 0.0 0.0 0.9 0.9 0.0	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 21 21 21 0	12.2 6.9 1.0 11.1 0.0 11.1 0.1 1.1 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 0	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 0	5.7 4.0 0.2 4.9 0.0 4.9 0.0 0.8 0.8 0.0	28 15 0 8 0 20 20 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 0	3.2 1.8 0.1 2.9 0.0 2.9 0.0 0.3 0.3 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	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 0	9.8 6.6 1.0 0.1 0.0 0.7 0.0	127 58 28 2 0 23 0	6.6 3.0 1.5 0.1 0.0 1.2 0.0	199 88 79 14 0 71 0	3.9 1.7 1.6 0.3 0.0 1.4 0.0	15 7 4 0 0 1 0	2.9 1.4 0.8 0.0 0.0 0.2 0.0	2 1 2 0 0 2 0	0.2 0.1 0.2 0.0 0.0 0.2 0.0	1 0 0 0 0 0 0	0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 4 0 0 0 0 0	0.5 0.2 0.0 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 0	1.0 0.7 0.1 1.0 0.0 0.0	12 7 0 2 10 0	0.2 0.1 0.0 0.0 0.2 0.0	3 0 0 3 0	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	0.3 0.1 0.0 0.0 0.3 0.0	5 2 1 0 4 0	0.1 0.0 0.0 0.0 0.1 0.0	0	0.0	0	0.0	1 0 0 1 0	0.1 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 1	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	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 ACTI	VITY									
					LAT	IN AME	RICAN COUNT	RIES									
COUNTRIES Population (million inhabitants): UNFPA	El Salv 6.5		Guatem		Mexi		Nicaragua	Pan		Parag		Per		Urug		Venez	
Population (million innabitants): UNPPA	6.5)	17.9	,	128.		SPLANTATION	4	.3	7.1		33.0	U	3.	5	28	.4
	Number	PMP	Number	PMP	Number	PMP	Number PM	Number	PMP	Number	PMP	Number	PMP	Number	PMP	Number	РМР
KIDNEY Total Tx (all combinations included) Kidney Tx (men) Paediatric (<18 years)	11 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 29 25 4	1.6 0.8 0.0 0.0 0.0 0.0 1.6 1.4 0.2	913 585 69 283 0 278 5 630 630 630 0	7.1 4.5 0.5 2.2 0.0 2.2 0.0 4.9 4.9 0.0		13 7 0 6 0 6 0 7 7 7 0	3.0 1.6 0.0 1.4 0.0 1.4 0.0 1.6 1.6 0.0	4 3 1 0 3 3 0	0.6 0.4 0.1 0.1 0.0 0.4 0.4 0.0	49 33 18 29 0 29 0 20 20 20 0	1.5 1.0 0.5 0.9 0.0 0.9 0.0 0.6 0.6 0.0	120 73 8 112 0 112 0 8 8 8 0	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 3 3 0	0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.1 0.1 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	0	0.0	72 37 17 0 0 10	0.6 0.3 0.1 0.0 0.0 0.1 0.0		3 1 0 0 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 6 0	0.5 0.3 0.0 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	0.1 0.0 0.0 0.0	11 6 0 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 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

			WAITING L	ST						
		EUROP	EAN UNION	COUNTRIES						
COUNTRIES Population (million inhabitants): UNFPA	Austria 9.0	Belgium 11.6	Bulgaria 6.9	Croatia 4.1	Cyprus 1.2	Czech Republic 10.7	Denmark 5.8	Estonia 1.3	Finland 5.5	France 65.3
KIDNEY										
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	Ū	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	01	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	·	J.	1	0		3	C C	ů –	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	JNTRIES					
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		ITRIES					
COUNTRIES	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	United Kingdo
Population (million inhabitants): UNFPA	17.1	37.8	10.2	19.2	5.5	2.1	46.8	10.1	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	7	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	5	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
	17			2			10	Ţ	
PANCREAS N. TX CENTRES	2	5	n	1	1	1	13	4	8
			2	-	-	-			
Patients included on the WL for the first time in the course of 2020	46	28	36	0 0	0	1	90 205	24	160
Total number of patients ever active on the WL during 2020	80 47	74 64	56 29	0	0 0	2 0	205 95	42 15	332
Patients awaiting for a transplant (only active candidates) on 31/12/2020 Patients who died while on the WL during 2020				-			95 4		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	1	14	1	26 903	10	7 349	2 2	25	132 29038	1	3	1	560 4437
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		350 25052		2185 1163 3 14595	1097 785 157 16500	536 169 51 3079	241 13	1704 96	78324 59454 493	80 20 3 61			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 14	11 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 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 2	0	1 1 13 7 4	0 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 1

			WAI										
			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											

			١	NAITING L	.IST							
			ΟΤΙ	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		1		95		2	2482
Total number of patients ever active on the WL during 2020	94	70					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				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		1		8		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				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			1				2			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				0				1			9

			WAITING LIST						
		LATIN A	MERICAN CO	UNTRIES					
COUNTRIES	Argentina	Bolivia	Brazil	Chile	Colombia	Costa Rica	Cuba	Dominican Republic	Ecuad
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		475		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 AM	ERICAN COUI	ITRIES					
COUNTRIES	El Salvador	Guatemala	Mexico	Nicaragua	Panama	Paraguay	Peru	Uruguay	Venezuela
Population (million inhabitants): UNFPA	6.5	17.9	128.9		4.3	7.1	33.0	3.5	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
Fotal 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
Fotal 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
Fotal 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
Fotal 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



60

Deceased Donation

Actual Deceased Donors pmp 2019 Actual Deceased Donors pmp 2020



COUNTRY	20	19	202	20
	N	PMP	N	РМР
Algeria	1	0.0	0	0.0
Argentina Australia	883 548	19.6 21.8	444 463	9.8 18.2
Austria	206	21.0	213	23.7
Belarus	248	26.4	201	21.4
Belgium	321	27.7	274	23.6
Brazil	3767	17.7	3027	14.2
Bulgaria	16	2.3	4	0.6
Canada	828	22.2	734	19.5
Chile China	188 5818	10.3 4.1	141 5222	7.4 3.6
Colombia	417	8.4	222	4.4
Costa Rica	33	6.6	27	5.3
Croatia	131	32.0	104	25.4
Cuba	138	12.0	51	4.5
Cyprus	6	5.0	5	4.2
Czech Republic Denmark	288 102	27.2 17.6	249 124	23.3 21.4
Dominican Republic	23	2.1	4	0.4
Ecuador	133	7.8	29	1.6
Estonia	25	19.2	33	25.4
Finland	145	25.9	126	22.9
France	1924	29.4	1512	23.2
Germany	932	11.3	913	10.9
Greece Guatemala	61 3	5.5 0.2	48 0	4.6 0.0
Hungary	180	18.6	111	11.4
Iceland	7	23.3	4	13.3
India	715	0.5	351	0.3
Ireland	85	17.7	63	12.9
Israel	101	11.7	92	10.6
Italy	1495 125	25.3 1.0	1303 77	21.5 0.6
Japan Kuwait	27	1.0 6.4	14	0.0 3.3
Latvia	19	10.0	21	11.1
Lithuania	52	17.9	49	18.1
Luxembourg	5	8.3	3	5.0
Malaysia	16	0.5	28	0.9
Malta Mexico	10 500	25.0 3.8	2 152	5.0 1.2
Mongolia	500 9	5.0 2.8	5	1.2
Netherlands	258	15.1	255	14.9
New Zealand	74	15.4	64	13.3
Norway	115	21.3	102	18.9
Panama	18	4.3	3	0.7
Paraguay	20	2.9	6	0.8
Peru Poland	75 504	2.3 13.3	17 393	0.5 10.4
Portugal	347	33.7	253	24.8
Qatar	8	3.0	2	0.7
Rep. North Macedonia	a 3	1.4	2	1.0
Republic of Moldova	11	2.8	2	0.5
Romania Russian Fod	85	4.4	66 572	3.4
Russian Fed. Saudi Arabia	740 114	5.1 3.3	572 65	3.9 1.9
Serbia	15	5.5 1.7	3	0.3
Slovakia	98	17.8	70	12.7
Slovenia	44	21.0	47	22.4
Spain	2302	49.6	1777	38.0
Sweden	198	19.6	181	17.9
Switzerland	157	18.3	146	16.8
Thailand Trinidad and Tobago	301 1	4.3 0.7	315 2	4.5 1.4
Turkey	499	6.0	172	2.0
United Arab Emirates	10	1.0	9	0.9
United Kingdom	1653	24.7	1248	18.4
Uruguay	75	21.4	63	18.0
US	11870	36.1	12588	38.0

Kidney Transplants



COUNTRY	20	19	202	0
	N	РМР	N	PMP
Algeria	270	6.3	91	2.1
Argentina Armenia	1675 20	37.1 6.9	854 10	18.9
Australia	1095	6.9 43.6	885	3.3 34.7
Austria	386	43.9	335	37.2
Belarus	376	40.0	316	33.6
Belgium	434	37.4	363	31.3
Brazil	6298	29.7	4830	22.7
Bulgaria	36	5.1	8	1.2
Canada	1790	48.0	1518	40.3
Chile China	410 12124	22.4 8.5	233 11037	12.2 7.6
Colombia	947	8.5 19.0	526	10.3
Costa Rica	84	16.8	41	8.0
Croatia	135	32.9	98	23.9
Cuba	195	17.0	64	5.7
Cyprus	15	12.5	13	10.8
Czech Republic	510	48.1	443	41.4
Denmark	276 86	47.6 7.8	278 28	47.9 2.6
Dominican Republic Ecuador	00 234	7.o 13.7	20 57	2.0 3.2
Estonia	254 41	31.5	57 47	36.2
Ethiopia	35	0.3	8	0.1
Finland	293	52.3	263	47.8
France	3643	55.6	2595	39.7
Georgia	23	5.9	17	4.3
Germany	2132	25.9	1909	22.8
Greece Guatemala	178 109	16.0 6.2	175 29	16.8 1.6
Hungary	266	27.4	202	20.8
Iceland	10	33.3	10	33.3
India	9751	7.1	5486	4.0
Ireland	153	31.9	123	25.1
Israel	411	47.8	397	45.6
Italy	2139	36.1	1907	31.5
Japan Kuwait	1913 103	15.1 24.5	1697 61	13.4 14.2
Latvia	37	19.5	41	21.6
Lithuania	103	35.5	82	30.4
Malaysia	130	4.0	153	4.7
Malta	16	40.0	4	10.0
Mexico	2976	22.5	913	7.1
Mongolia Netherlands	29 951	9.1 55.6	29 809	8.8 47.3
New Zealand	221	46.0	187	47.5 39.0
Norway	258	47.8	240	44.4
Pakistan	1306	6.4	129	0.6
Panama	31	7.4	13	3.0
Paraguay	40	5.7	4	0.6
Peru	189	5.7	49 751	1.5
Poland Portugal	983 514	25.9 49.9	751 394	19.9 38.6
Qatar	48	17.8	17	5.9
Rep. North Macedonia		7.6	12	5.7
Republic of Moldova	7	1.8	3	0.8
Romania	211	10.8	174	9.1
Russian Federation	1473	10.2	1124	7.7
Saudi Arabia Serbia	1121 21	32.9 2.4	547 6	15.7 0.7
Slovakia	21 197	2.4 35.8	131	23.8
Slovenia	38	18.1	47	22.4
Spain	3423	73.8	2702	57.7
Sudan	313	7.4	139	3.2
Sweden	476	47.1	429	42.5
Switzerland	340 275	39.5 14 0	296	34.0 1 2 1
Syrian Arab Republic Thailand	275 679	14.9 9.8	211 712	12.1 10.2
Trinidad and Tobago	6	4.3	10	7.1
Turkey	3863	46.5	2498	29.6
United Arab Emirates		7.0	61	6.2
United Kingdom	3649	54.5	2567	37.8
Uruguay	155	44.3	120	34.3
US Venezuela	24273 6	73.8 0.2	23644 0	71.4 0.0
"CITCZUCIU	0	0.2	U	0.0

Liver Transplants



COUNTRY	20	19	202	20
	N	PMP	N	РМР
Algeria Argentina	12 504	0.3 11.2	2 316	0.0 7.0
Armenia	3	1.0	1	0.3
Australia	310	12.4	277	10.9
Austria	151	17.2	158	17.6
Belarus Belgium	93 289	9.9 24.9	86 235	9.1 20.3
Brazil	2265	10.7	2075	9.8
Bulgaria	14	2.0	7	1.0
Canada Chile	609 164	16.3 9.0	565 127	15.0
China	6170	9.0 4.3	5842	6.6 4.0
Colombia	261	5.2	199	3.9
Costa Rica	19	3.8	15	2.9
Croatia Cuba	123 10	30.0 0.9	95 2	23.2 0.2
Cuba Czech Republic	197	18.6	∠ 172	0.2 16.1
Denmark	64	11.0	66	11.4
Dominican Republic	5	0.5	1	0.1
Ecuador Estonia	27 10	1.6 7.7	9 12	0.5 9.2
Finland	64	11.4	75	9.2 13.6
France	1356	20.7	1128	17.3
Georgia	21	5.4	10	2.5
Germany Greece	831 33	10.1 3.0	826 32	9.9 3.1
Hungary	79	8.1	50	5.2
India	2592	1.9	1780	1.3
Ireland	66	13.8	37	7.6
Israel Italy	99 1301	11.5 22.0	85 1202	9.8 19.9
Japan	395	3.1	380	3.0
Kuwait	6	1.4	2	0.5
Latvia	2	1.1	2	1.1
Lithuania Malaysia	17 8	5.9 0.2	14 28	5.2 0.9
Malta	0	0.0	1	2.5
Mexico	223	1.7	72	0.6
Mongolia Notherlanda	39 190	12.2	32 186	9.7
Netherlands New Zealand	58	11.1 12.1	55	10.9 11.5
Norway	94	17.4	88	16.3
Pakistan	285	1.4	60	0.3
Panama	9 2	2.1 0.3	3 0	0.7 0.0
Paraguay Peru	∠ 53	0.5 1.6	17	0.5
Poland	352	9.3	291	7.7
Portugal	240	23.3	193	18.9
Qatar Republic of Moldova	8 7	3.0 1.8	1 2	0.3 0.5
Romania	, 75	3.8	62	3.2
Russian Federation	584	4.1	559	3.8
Saudi Arabia	319	9.4	244	7.0
Serbia Slovakia	9 41	1.0 7.5	3 19	0.3 3.5
Slovenia	41 24	7.5 11.4	25	5.5 11.9
Spain	1227	26.4	1034	22.1
Sweden	183	18.1	172	17.0
Switzerland Syrian Arab Republic	168 1	19.5 0.1	135 0	15.5 0.0
Thailand	116	1.7	125	1.8
Turkey	1776	21.4	1320	15.7
United Arab Emirates	16	1.6	11 922	1.1
United Kingdom US	971 8896	14.5 27.0	823 8906	12.1 26.9
Uruguay	23	6.6	28	8.0

Heart Transplants



COUNTRY	20	019	202	20
	N	РМР	N	РМР
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	679	0.5	557	0.4
Colombia	74	1.5	67	1.3
Costa Rica	1	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	1	2.5	0	0.0
Mexico	33	0.2	9	0.1
Netherlands	38	2.2	41	2.4
New Zealand	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	0.8
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		3716	11.2
Uruguay	13	3.7	11	3.1

Lung Transplants



COUNTRY	20	19	202	20
	N	PMP	N	РМР
Algeria	0	0.0	0	0.0
Argentina	36	0.8	21	0.5
Australia	183	7.3	158	6.2
Austria	100	11.4	100	11.1
Belarus	9	1.0	10	1.1
Belgium	113	9.7	93	8.0
Brazil	106	0.5	65	0.3
Bulgaria	1	0.1	0	0.0
Canada	403	10.8	325	8.6
Chile	21	1.1	20	1.0
China	489	0.3	513	0.4
Colombia	28	0.6	12	0.2
Costa Rica	2	0.4	3	0.6
Czech Republic	42	4.0	35	3.3
Denmark	30	5.2	29	5.0
Ecuador	1	0.1	0	0.0
Estonia	3	2.3	0	0.0
Finland	27	4.8	21	3.8
France	393	6.0	291	4.5
Germany	361	4.4	344	4.1
Greece	0	0.0	3	0.3
Hungary	18	1.9	17	1.8
Iceland	0	0.0	0	0.0
India	114	0.1	67	0.0
Ireland	38	7.9	16	3.3
Israel	52	6.0	34	3.9
Italy	153	2.6	115	1.9
Japan	92	0.7	75	0.6
Lithuania	1	0.3	1	0.4
Malaysia	0	0.0	1	0.0
Malta	0	0.0	1	2.5
Mexico	7	0.1	0	0.0
Netherlands	105	6.1	87	5.1
New Zealand	26	5.4	23	4.8
Norway	33	6.1	28	5.2
Peru	1	0.0	1	0.0
Poland	57	1.5	51	1.3
Portugal	39	3.8	33	3.2
Romania	3	0.2	1	0.1
Russian Federation	25	0.2	11	0.1
Saudi Arabia	38	1.1	20	0.6
Slovenia	10	4.8	16	7.6
Spain	419	9.0	336	7.2
Sweden	56	5.5	51	5.0
Switzerland	39	4.5	44	5.1
Syrian Arab Republic	0	0.0	0	0.0
Thailand	0	0.0	1	0.0
Turkey	33	0.4	11	0.1
United Arab Emirates	4	0.4	1	0.1
United Kingdom	167	2.5	99	1.5
Uruguay	5	1.4	4	1.1
US	2759	8.4	2597	7.8

Pancreas Transplants



COUNTRY	20	19	2020				
	N	РМР	N	РМР			
Argentina	74	1.6	48	1.1			
Australia	40	1.6	47	1.8			
Austria	15	1.7	20	2.2			
Belarus	1	0.1	2	0.2			
Belgium	11	0.9	9	0.8			
Brazil	177	0.8	148	0.7			
Canada	69	1.8	57	1.5			
Chile	11	0.6	5	0.3			
Colombia	7	0.1	5	0.1			
Croatia	5	1.2	1	0.2			
Czech Republic	41	3.9	37	3.5			
Denmark	6	1.0	7	1.2			
Dominican Republic	0	0.0	1	0.1			
Estonia	2	1.5	6	4.6			
Finland	39	7.0	26	4.7			
France	84	1.3	34	0.5			
Germany	94	1.1	92	1.1			
Hungary	5	0.5	6	0.6			
India	22	0.0	14	0.0			
Ireland	2	0.4	5	1.0			
Israel	10	1.2	4	0.5			
Italy	42	0.7	41	0.7			
Japan	49	0.4	28	0.2			
Mexico	2	0.0	0	0.0			
Netherlands	25	1.5	29	1.7			
New Zealand	4	0.8	3	0.6			
Norway	15	2.8	6	1.1			
Peru	3	0.1	0	0.0			
Poland	29	0.8	4	0.1			
Portugal	25	2.4	27	2.6			
Russian Federation	10	0.1	16	0.1			
Saudi Arabia	8	0.2	2	0.1			
Slovenia	1	0.5	2	1.0			
Spain	76	1.6	73	1.6			
Sweden	23	2.3	13	1.3			
Switzerland	14	1.6	15	1.7			
Thailand	3	0.0	1	0.0			
Turkey	3	0.0	1	0.0			
United Arab Emirates	0	0.0	1	0.1			
United Kingdom	185	2.8	116	1.7			
US	1015	3.1	962	2.9			



COUNTRY 2019 2020 PMP PMP Ν Ν Argentina 0.1 0.0 4 1 Australia 0 0.0 1 0.0 0.1 Austria 1 0 0.0 Belgium 3 0.3 2 0.2 Brazil 3 0.0 0.0 1 Canada 5 0.1 0.2 6 Colombia 1 0.0 0.0 0 Czech Republic 1 0.1 1 0.1 Finland 0 0.0 1 0.2 0.0 0.0 France 0 3 Germany 5 0.1 8 0.1 0.0 India 0 7 0.0 0.0 Italy 1 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 0.1 0.1 4 4 Switzerland 0 0.0 0.1 1 Turkey 4 0.0 2 0.0 United Kingdom 18 0.3 17 0.3 US 81 0.2 91 0.3

78

Patients transplanted



COUNTRY	20	19	202	20
	N	PMP	N	РМР
Algeria	282	6.6	93	2.1
Argentina Armenia	2321 23	51.5 7.9	1273 11	28.2 3.7
Australia	1385	55.2	1449	56.8
Austria	689	78.3	637	70.8
Belarus	530	56.4	463	49.3
Belgium	934	80.5	716	61.7
Brazil Bulgaria	9185 53	43.2 7.6	7290 16	34.3 2.3
Canada	3047	81.7	2615	69.4
Chile	640	35.0	402	21.0
China	19454	13.6	17897	12.4
Colombia Costa Rica	1303 106	26.2 21.2	799 61	15.7 12.0
Croatia	296	72.2	216	52.7
Cuba	206	17.9	66	5.8
Cyprus	15	12.5	13	10.8
Czech Republic	818	77.2	760	71.0
Denmark Dominican Republic	395 91	68.1 8.3	403 29	69.5 2.7
Ecuador	262	15.3	66	3.8
Estonia	54	41.5	58	44.6
Ethiopia	35	0.3	8	0.1
Finland France	413 5723	73.8 87.4	381	69.3 65.6
Georgia	5725 44	07.4 11.3	4283 27	6.8
Germany	3644	44.2	3384	40.4
Greece	226	20.4	219	21.1
Guatemala	109	6.2	29	1.6
Hungary Iceland	433 10	44.6 33.3	314 10	32.4 33.3
India	12625	9.2	7426	5.4
Ireland	296	61.7	187	38.2
Israel	575	66.9	530	60.9
ltaly Japan	3744 2483	63.2 19.6	3437 2209	56.8 17.5
Kuwait	110	26.2	63	14.7
Latvia	39	20.5	45	23.7
Lithuania	129	44.5	107	39.6
Malaysia Malta	138 17	4.2 42.5	182 6	5.6 15.0
Mexico	3237	24.5	997	7.7
Mongolia	68	21.3	61	18.5
Netherlands	1291	75.5	1124	65.7
New Zealand	322 436	67.1	278	57.9
Norway Pakistan	1591	80.7 7.8	382 189	70.7 0.9
Panama	40	9.5	16	3.7
Paraguay	47	6.7	9	1.3
Peru	258	7.8	69	2.1
Poland Portugal	1541 820	40.6 79.6	1236 637	32.7 62.5
Qatar	56	20.7	18	6.2
Republic of Moldova	14	3.5	5	1.3
Rep. North Macedonia		7.6	13	6.2
Romania Russian Federation	295 2420	15.1 16.8	241 1944	12.6 13.3
Saudi Arabia	1530	44.9	840	24.1
Serbia	37	4.3	10	1.1
Slovakia	259	47.1	177	32.2
Slovenia	93 5326	44.3 114.8	112 4315	53.3 92.2
Spain Sudan	313	114.8 7.4	4315 139	92.2 3.2
Sweden	775	76.7	702	69.5
Switzerland	582	67.7	519	59.7
Syrian Arab Republic	275	14.9	211	12.1
Thailand Trinidad and Tobago	822 6	11.9 4.3	862 10	12.3 7.1
Turkey	5729	4.5 69.0	3830	45.4
United Arab Emirates		9.6	75	7.6
United Kingdom	4992	74.5	3686	54.3
US Uruguay	38433 196	116.8 56.0	37580 162	113.5 46.3
Venezuela	6	0.2	3	40.5 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)



Data provided by National Competent Authorities:

EUROPEAN UNION

Austria Nina Mikulits

Belgium

Bulgaria Maya Serafimova

Croatia Milena Ivanković

Cyprus

Czechia Eva Křemenová Antonin Hasal

Denmark

Estonia Siim Suutre

Finland Sari Tähtiharju

France

Germany Dagmar Schilling-Leiß

Hungary Janos Sajtos

Greece

Ireland

Italy Letizia Lombardini Benedetta Mazzanti Liliam Santilli

Latvia leva Bekere

Lithuania Evaldas Valys

Luxembourg

Malta

Netherlands Paul Ormel Poland

Portugal Margarida Ivo da Silva

Romania Andrei Nica

Slovenia

Slovakia Daniel Kuba Tatiana Drobková

Spain Bibiana Ramos Marina Alvarez

Sweden Nina Lundmark

United Kingdom Rita Barallon

OTHER COUNTRIES

Moldova, Republic of Igor Codreanu Tatiana Timbalari

Norway

Switzerland Barbara Schärer

LATIN AMERICAN COUNTRIES

Argentina Sergio Madera

Bolivia

Brazil Valeska Masson Neves Gameiro

Chile

Colombia Carolina Flórez Sánchez

Costa Rica Allan Varela Rodríguez Roselyn Serrano **Cuba** M. Antonio Enamorado

Dominican Republic Fernando R. Morales Alexander Altman

Ecuador Johanna Zambrano

El Salvador

Guatemala

Mexico J. Salvador Aburto

Nicaragua

Panama

Paraguay Gustavo A. Melgarejo Marcelo Martínez

Peru Yeny Guerra Salas

Uruguay Milka Bengochea

Venezuela

Data recorded & prepared by: EUROCET - European Network of Competent Authorities for Tissues and Cells -Team (www.eurocet.org)

European Network of Competent Authorities for Tissues and Cells

Glossary (Tissues)

Α

- 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).

С

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.

Ε

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).

Η

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.

L

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.

Μ

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.

Ν

- **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.

Ρ

- **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)

Α

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.

С

- **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	DATA ON TISS	SUES - YEA	R 2020							
						EUROPI	EAN 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, 2		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		
	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)			27	0		1982		16	1083		202515		0		
	N. of tissues distributed	-			-									-		
	nationally (units)			0	0		255		0	810		188217		0		4157
١	N. of tissues imported (units)	0		0	0		0		0	0		132000		0		46
	N. of tissues exported (units)			27	0		1479		0	0		7081		0		2
	N. of tissues transplanted			0	0		233		16	810				0		
	N. of patients transplanted			0	0				4	23				0		
	N. of transplant procedures			0	0									0		1437
HEART VALVE	N. of tissue donations				1		86			67				2		210
	Tissue donation PMP				0.2		8.0			12.2				0.2		3.5
	N. of tissues retrieved	4			0		144			57		581		0		484
	N. of tissues processed (units)			0	0		144			40		440		2		101
	N. of tissues distributed	27		0	0									-		
	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		50.
	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	DATA ON TISS	OUES - YEA	R 2020							
						EUROPI		OUNTRIES								
Country		Austria	Belgium	Bulgaria	Croatia	Cyprus	Czech Republic	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Ireland	Italy
Population (Source: UNFP State of world population,		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								408							
	nationally (units)			225	97		1839			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		0.0
	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		

PRELIMINARY DATA ON TISSUES - YEAR 2020

EUROPEAN UNION COUNTRIES																
						EUKOPE	AN UNION CO	JUNIKIES								
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	, 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
TYPE OF TISSUE	TYPE OF DATA															
ADIPOSE TISSUE	N. of tissue donations				0		0			0				0		
ADIFOSE TISSUE	Tissue donation PMP				0.0		0.0			0.0				0.0		
	N. of tissues retrieved	0			0.0		0			0.0		28		0.0		
	N. of tissues processed (units)				0		0			0		0		0		
	N. of tissues distributed	0			0		0			0		0		0		
	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				0		0					0		0		0
	nationally (units)	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	5			0					3				0		
	N. of transplant procedures				0					3				0		
AUTOLOGOUS 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)	7			750		112			55		3214		2886		
	N. of tissues distributed				46222		0			55		650		0		
	nationally (units)	0			46332		0			55				0		
	N. of tissues imported (units)	0			0		0			5		3		0		
	N. of tissues exported (units)				0					0		4		0		
	N. of tissues transplanted				0		9			27				0		
	N. of patients transplanted				364		9			37				0		
	N. of transplant procedures				0		9							0		

					EUROF	PEAN UNION		TRIES							ОТ	HER COUN	ITRIES
Country		Latvia	Lithuania	Luxembourg	Malta	Netherlands	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	United Kingdom	Norway		Switzerland
Population (Source: UNFP State of world population	PA,), 2020 - in millions)	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	
	N. of tissues transplanted		0			2194		0		166		258531	2	3866		116	
	N. of patients transplanted		0			268		0		135		40	16			11	
	N. of transplant procedures		0					0		135			49			9	
HEART VALVE	N. of tissue donations					191		6		2		200	133	661		0	44
	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	46
	N. of tissues processed (units)					424		10		2		395	316	621		0	0
	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
	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		13		246	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
			3			86		0								0	9

					PREL	IMINARY D	ATA ON	TISSUES -	YEAR 20	20							
															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: UNFP) State of world population,		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			1002		414	85	318		10055	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
		0	44			22		124		346						36	
	N. of tissues processed (units)		44			22		124		340		1237	385	59		30	198
	N. of tissues distributed nationally (units)		44			209		140		275		1097	283	796		129	60
			0			0		0		0		0	0	161		0	8
	N. of tissues imported (units)		0			27		0		0		0 34	0	417		0	8
	N. of tissues exported (units)																
	N. of tissues transplanted		44			105		148		350		1494	321	1555		129	132
	N. of patients transplanted		39 39			97 105		144 144		294 325		1416	330 232			81 114	129 134
	N. of transplant procedures		29			105		144		525			232			114	154
PANCREAS/ PANCREATIC ISLETS	N. of tissue donations					317				0			14	74			21
FANCELATIC ISEL 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					5				0			0	16			0
	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			
						0								0			
	N. of patients transplanted		0														
	N. of transplant procedures		0			0											

					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		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							
FARATTINOID	Tissue donation PMP									0.0							
	N. of tissues retrieved					0				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							
																2	
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					â								20		0	
	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	
	N. of tissue donations 208 3 2 Tissue donation PMP 109.5 1.1 0.1	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)					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	

PRELIMINARY DATA ON TISSUES - YEAR 2020

				I	LATIN AMERIC	AN 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											
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					
				I	LATIN AMERI		RIES					
Country Population (Source: UNFPA, State of world population, 2020 - in millions)		Argentina	Brazil	Colombia	Costa Rica	Cuba	Dominican Republic	Ecuador	Mexico	Paraguay	Peru	Uruguay
		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				

			PRELIN	IINARY I	DATA O	N HPC C	ELLS - YEAR	2020								
	Hold in the interpretation interpretation in the interpretation interpretation in the interpretation interpr															
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	HPC CELL	S - YEAR	2020							
						EUROF	PEAN UN		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, 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
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													
			LA	TIN AMERIC	AN COUNTR	IES							
Country			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:

- i. 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, shortand 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):

1. 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;
 - 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/haploidentical)/unrelated;
 - ii. peripheral haematopoietic progenitor cell;
 - iii. bone marrow;
 - iv. unstimulated leukocytes;
 - 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 followup 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]





HEALTH MATTERS: INFORMATION BOOKLET FOR THE GENERAL PUBLIC

New in 2021

Fertility preservation

FREE

PRESE

nts that their fertilit

DOWNLOAD! https://go.edqm.eu/TransplantReports



Members of the European Committee (Partial Agreement) on Organ Transplantation (CD-P-TO) (29/07/2021)

Secretariat LÓPEZ FRAGA Marta LOMERO Mar MARCO Jaime LATZEL Janet GAULT Christine Chair IMMER Franz Vice-Chair CHANDRASEKAR Akila Members **AUSTRIA** BRIX-ZULEGER Martina **PLATTNER** Verena BELGIUM COLENBIE Luc BULGARIA MUTAFCHIYSKI Miroslav **PEEV** Yordan CROATIA ANUSIC JURICIC Martina BUSIC Mirela GOLUBIC CEPULIC CYPRUS MICHAEL Nicolaos ADAMEC Miloš FRYDA Premysl DENMARK TERKELSEN Ole **ESTONIA DMITRIEV** Peeter MARTJAK Marge FINLAND MAKISALO Heikki FRANCE ARRABAL Samuel SAINTE-MARIE Isabelle GERMANY **RAHMEL** Axel SIEPMANN Claudia **TONJES** Ralf Reinhard GREECE BOLETIS Ioannis HUNGARY **MIHALY Sandor** IRELAND EGAN Jim LYNCH Caroline O'REILLY Jean ITALY CARDILLO Massima **CARELLA** Claudia CO77I Emanuele PORTA Eliana LATVIA **BORMOTOVS** Jurijs JUSINSKIS Janis LITHUANIA **BAGOTYRIUS** Arturas LUXEMBURG DARMIAN Julien **RANDAZZO Enrico** MALTA ABELA Carmel CALLEJA Paul ZARB ADAMI Joseph **MOLDOVA**, Republic of BOLOCAN Vladimir TIMBALARI Tatiana MONTENEGRO RATKOVIC Marina NETHERLANDS **BOKHORST** Arlinke HAASE-KROMWIJK Bernadette NORWAY HAGNESS Morten POI AND CZERWINSKI Jaroslaw **KAMINSKI** Artur PORTUGAL BOLOTINHA Catarina IVO DA SILVA Margarida PIRES DA SILVA Ana ROMANIA

DRAGOMIRISTEANU Aurora

LESAN Andrei

SERBIA KNEZEVIC Sasa RESANOVIC Vladimir SLOVAK REPUBLIC **DEDINSKA** Ivana SLOVENIA **AVSEC** Danica SPAIN DOMÍNGUEZ-GIL Beatriz HERNÁNDEZ MARAVER Lola PÉREZ BLANCO Alicia PERO IO VEGA Lola SWEDEN SAVOLAINEN Linda SWITZERLAND **IMMER** Franz VOLZ Alexandra TURKEY ATES Utku UKRAINE NIKONENKO Oleksandr NYKONENKO Andriy UNITED KINGDOM CHANDRASEKAR Akila FORSYTHE John Ohservers ARMENIA **DAGHBASHYAN Smbat** VOSKANYAN Milena BELARUS LIASHCHUK Siarhei **RUMMO Oleg** CANADA AGBANYO Francisca DH-BIO (BIOETHICS COMMITTEE, COUNCIL OF EUROPE) LWOFF Laurence MORRESI Assunta DTI FOUNDATION **ARREDONDO Estephan** MANYALICH Marti EUROPEAN ASSOCIATION OF TISSUE AND CELL BANKS (EATCB) HENNERBICHLER Simone SANCHEZ IBANEZ Jacinto EUROPEAN COMMISSION **FEHILY Deirdre** VAN DER SPIEGEL Stefaan EUROPEAN EYE BANK ASSOCIATION (EEBA) **DEKARIS** Iva HJORTDAL Jesper MAIER Philip TRIAS-ADROHER Esteve EUROPEAN SOCIETY FOR BLOOD AND MARROW TRANSPLANTATION (EBMT) WOREL Nina EUROPEAN SOCIETY FOR HUMAN REPRODUCTION AND EMBRYOLOGY (ESHRE) LUNDIN Kersti EUROPEAN SOCIETY FOR ORGAN TRANSPLANTATION (ESOT) , SCHNEEBERGER Stefan EUROTRANSPLANT BRANGER Peter J. GEORGIA TOMADZE Gia ISRAFI ASHKENAZI Tamar RUSSIAN FEDERATION GABBASOVA Lyalya KHUKHREVA Daria NIKOLAEV German SCANDIATRANSPLANT **ERICZON Bo-Göran** SOUTH-EUROPE ALLIANCE FOR TRANPLANTS (SAT) **IMMER Franz** THE TRANSPLANTATION SOCIETY (TTS) TULLIUS Stefan UNITED NETWORK FOR ORGAN SHARING (UNOS) **PRUETT Timothy** USA WITTEN Celia WORLD HEALTH ORGANIZATION (WHO) **CHATZIXIROS Efstratios** WORLD MARROW DONORS ASSOCIATION (WMDA) **FOEKEN Lydia**





human application 4th Edition

ISSN 2171-4118 / NIPO: 136-20-002-8

Free copies of the paper version of this Newsletter Transplant can be ordered at www.edqm.eu/store.





COUNCIL OF EUROPE CONSEIL DE L'EUROPE