



# 2008 INTERNATIONAL DONATION AND TRANSPLANTATION ACTIVITY. IRODaT PRELIMINARY DATA

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IRODat is the International Registry of Organ Donation and Transplantation, that publishes a periodical overview of international data on organ donation and transplantation worldwide. As years before, IRODaT is glad to present you the preliminary results of the international organ donation and transplantation activity developed during 2008.

In every issue of *Organs, Tissues & Cells* of the coming year, these preliminary data will be updated and completed. Through a network of key professionals in the different countries, updating until completion is guaranteed over the next months. These professional are mostly transplant coordinators and /or expert from national organizations to collect such data.

In the following tables, the countries are listed in alphabetical order and display the organ donation and transplantation activity in absolute numbers as well as per million inhabitants per country. In order to display it in the most appropriate way, each column shows both values separated.

Preliminary data show 43 countries worldwide, processing their data. In the next issues these data will be completed up to about data of 60 countries worldwide.

	Argentina Tot/pmi	Australia Tot/pmi	Austria Tot/pmi	Bangladesh Tot/pmi	Belgium Tot/pmi	Brasil Tot/pmi	Bulgaria Tot/pmi	Croatia Tot/pmi	Czech Rep Tot/pmi
<b>Post- mortem</b>									
Donors	519/13.6	259/12.1	169/20.3	NA	265/25.5	1317/7.2	6/0.8	79/17.6	198/19.2
NHBD or DCD	402/10.1	23/1.1	NA	NA	NA	0/0	0/0	0/0	1/0.1
Kidney Tx single	706/17.8	422/19.7	267/32	NA	412/39.6	2033/11	6/0.8	131/29.7	293/28.4
Kidney Tx double	7/0.2	2/0.1	0/0	NA	NA	NA	0/0	1/0.2	8/0.7
Liver TX full	271/6.8	158/7.3	106/12.7	NA	186/17.9	1053/5.7	5/0.7	61/13.8	94/9.1
Liver TX split	12/0.3	35/1.6	1/0.1	NA	17/1.6	NA	0/0	0/0	0/0
Heart TX	101/2.5	79/3.7	57/6.9	NA	71/6.8	200/1.1	3/0.4	20/4.5	58/5.6
Lung TX single	16/4	12/0.6	12/1.4	NA	15/1.4	52/0.3	0/0	0/0	6/0.6
Lung TX double	13/0.3	98/4.6	103/12.4	NA	64/6.14	NA	0/0	0/0	14/1.4
Pancreas TX single	8/0.2	0/0	3/0.4	NA	34/3.3	32/0.2	0/0	0/0	3/0.3
Pancreas-kidney TX	76/1.9	32/1.5	31/3.7	NA	16/1.5	166/0.7	0/0	14/3.2	23/2.2
Liver-kidney TX	9/0.2	2/0.1	5/0.6	NA	10/1	NA	0/0	3/0.7	3/0.3
Heart-kidney TX	4/0.1	1/0	NA	NA	2/0.2	NA	0/0	NA	NA
Heart-lung TX	3/0.1	5/0.2	3/0.4	NA	1/0.1	NA	0/0	0/0	0/0
Pancreas Islets TX	NA	11/0.5	NA	NA	NA	NA	0/0	NA	NA
Organs TX/donor*	2.2	3.1	3.2	0	3	2.6	2.3	2.7	2.4
<b>Living</b>									
Donors	215/5.4	356/16.6	62/7.4	68/0.5	NA	1869/10.2	15/2.1	10/2.3	28/2.7
Kidney TX	179/4.5	353/16.5	58/7	68/0.5	NA	1747/9.5	11/1.6	9/2	28/2.7
Liver TX	31/0.8	3/0.1	4/0.5	NA	NA	121/0.7	4/0.6	1/0.2	0/0



**TPM**

	Denmark Tot/pmi	Estonia Tot/pmi	Finland Tot/pmi	Germany Tot/pmi	Greece Tot/pmi	Hong Kong Tot/pmi	Hungary Tot/pmi	Iceland Tot/pmi	Iran Tot/pmi
<b>Post- mortem</b>									
Donors	65/11.8	31/23.1	81/15.2	1198/14.6	98/8.9	37/5.3	148/14.7	2/6.3	213/3
NHBD or DCD	NA	3/2.2	NA	0/0	0/0	0/0	NA	NA	0/0
Kidney Tx single	196/35.7	57/42.5	150/28.2	1987/24.2	182/16.5	65/9.3	235/23.3	5/15.6	401/5.6
Kidney Tx double	1/0.2	0/0	NA	17/0.2	1/0.1	0/0	0/0	NA	0/0
Liver TX full	44/8.2	2/1.5	47/8.8	914/11.1	57/5.2	23/3.2	36/3.6	NA	148/2
Liver TX split	NA	0/0	NA	86/1	0/0	6/0.8	0/0	NA	12/0.1
Heart TX	20/3.6	0/0	21/3.9	355/4.3	16/1.5	5/0.7	22/2.2	NA	53/0.7
Lung TX single	5/0.9	0/0	0/0	40/0.5	NA	0/0	NA	NA	6/0.1
Lung TX double	13/2.4	0/0	12/2.3	210/2.6	NA	0/0	NA	NA	2/0
Pancreas TX single	NA	0/0	NA	12/0.1	0/0	0/0	NA	NA	15/0.2
Pancreas-kidney TX	NA	0/0	NA	121/1.5	2/0.2	0/0	5/0.5	NA	0/0
Liver-kidney TX	NA	0/0	2/0.4	49/0.6	1/0.1	0/0	1/0.1	NA	0/0
Heart-kidney TX	NA	0/0	NA	6/0.1	NA	NA	NA	NA	NA
Heart-lung TX	0/0	0/0	0/0	18/0.2	0/0	1/0.1	NA	NA	0/0
Pancreas Islets TX	NA	0/0	NA	2/0	NA	NA	NA	NA	NA
Organs TX/donor*	4.3	1.9	2.8	3	2.6	2.7	2	2.5	3
<b>Living</b>									
Donors	74/13.5	3/2.2	9/1.7	NA	51/4.6	56/8	24/2.4	5/15.6	1657/23.3
Kidney TX	74/13.5	3/2.2	9/1.7	NA	51/4.6	12/1.7	0/0	5/15.6	1620/23.8
Liver TX	0/0	0/0	0/0	NA	0/0	43/6.2	NA	NA	37/0.5

	Ireland Tot/pmi	Israel Tot/pmi	Italy Tot/pmi	Latvia Tot/pmi	Lithuania Tot/pmi	Malta Tot/pmi	Netherlands Tot/pmi	N. Zealand Tot/pmi	Norway Tot/pmi
<b>Post- mortem</b>									
Donors	72/17	72/9.8	1206/21.2	30/13	33/9.7	9/22.5	201/12.3	31/7.3	98/20.5
NHBD or DCD	0/0	NA	2/0.04	11/4.8	0/0	0/0	82/5	2/0.5	NA
Kidney Tx single	140/33.09	84/11.5	1342/23.5	53/23	42/12.4	8/20.1	332/20.3	48/11.2	278/58.1
Kidney Tx double	4/0.9	1/0.1	113/2	0/0	0/0	0/0	4/0.2	0/0	2/0.4
Liver TX full	56/13.2	49/6.7	873/15.3	0/0	6/1.8	7/17.5	116/7.1	20/4.6	79/16.5
Liver TX split	0/0	1/0.1	92/1.6	0/0	0/0	0/0	8/0.5	3/0.7	NA
Heart TX	3/0.7	18/2.5	324/5.7	0/0	5/1.5	0/0	31/1.9	10/2.3	36/7.5
Lung TX single	3/0.7	35/4.8	31/0.5	0/0	0/0	0/0	14/0.9	0/0	1/0.2
Lung TX double	0/0	15/2	60/1.1	0/0	2/0.6	0/0	41/2.5	14/3.3	26/5.4
Pancreas TX single	0/0	NA	15/0.3	0/0	0/0	0/0	6/0.34	0/0	10/2.1
Pancreas-kidney TX	6/1.4	11/1.5	46/0.8	1/0.4	4/1.2	0/0	12/0.7	4/0.9	9/1.9
Liver-kidney TX	0/0	2/0.3	25/0.4	0/0	0/0	0/0	4/0.2	1/0.2	3/0.6
Heart-kidney TX	NA	1/0.1	NA	NA	NA	NA	NA	NA	NA
Heart-lung TX	0/0	1/0.1	2/0.04	0/0	0/0	0/0	1/0.1	0/0	3/0.6
Pancreas Islets TX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organs TX/donor*	2.9	3	2.4	1.8	1.7	1.7	2.7	3.2	4.4
<b>Living</b>									
Donors	5/1.2	58/7.9	258/4.5	1/0.4	5/1.4	5/12.5	412/25.2	75/17.6	98/20.5
Kidney TX	5/1.2	56/6.7	113/2	1/0.4	5/1.5	5/12.5	410/25.1	68/15.9	98/20.5
Liver TX	0/0	2/0.2	17/0.3	0/0	0/0	0/0	2/0.1	7/1.6	NA



TPM

	Poland Tot/pmi	Portugal Tot/pmi	Puerto Rico Tot/pmi	Qatar Tot/pmi	Romania Tot/pmi	Saudi Arab Tot/pmi	Slovenia Tot/pmi	Spain Tot/pmi	Sweden Tot/pmi
<b>Post- mortem</b>									
Donors	428/11.2	283/26.7	113/29	3/4.01	60/2.9	105/4.5	39/19.5	1577/34.2	152/16.5
NHBD or DCD	0/0	0/0	0/0	NA	1/0.04	2/0.1	0/0	NA	0/0
Kidney Tx single	790/20.7	459/43.3	68/17.4	2/2.6	114/5.4	166/7	52/2.5	2230/48.3	419/45.5
Kidney Tx double	NA	6/0.6	1/0.26	NA	1/0.04	0/0	0/0	NA	6/0.7
Liver TX full	224/5.87	196/18.5	0/0	NA	35/1.7	59/2.5	22/11	1108/24	146/15.8
Liver TX split	0/0	4/0.4	0/0	NA	0/0	0/0	0/0	22/0.5	NA
Heart TX	61/1.6	42/4	9/2.3	NA	6/0.3	19/0.8	6/3	292/6.3	44/4.8
Lung TX single	8/0.2	1/0.1	0/0	NA	0/0	1/0	0/0	88/1.9	27/2.9
Lung TX double	3/0.1	3/0.3	0/0	NA	0/0	0/0	0/0	104/2.25	24/2.6
Pancreas TX single	0/0	4/0.4	0/0	NA	0/0	0/0	0/0	110/2.4	10/2.1
Pancreas-kidney TX	20/0.52	10/1	7/1.8	NA	0/0	1/0	0/0	89/1.9	10/1.1
Liver-kidney TX	1/0.02	2/0.2	0/0	NA	0/0	1/0	0/0	NA	3/0.3
Heart-kidney TX	NA	NA	1/0.26	NA	NA	NA	NA	NA	NA
Heart-lung TX	0/0	0/0	0/0	NA	0/0	NA	0/0	4/0.1	1/0.1
Pancreas lslets TX	NA	NA	NA	NA	NA	NA	0/0	NA	NA
Organs TX/donor*	2.6	2.6	0.8	0.7	3.1	2.4	2	2.5	4.5
<b>Living</b>									
Donors	41/1.07	52/4.9	19/4.9	1/1.3	120/5.7	272/11.3	0/0	182/3.9	142/15.5
Kidney TX	20/0.52	50/4.7	19/4.9	1/1.3	112/5.3	228/9.5	0/0	154/3.3	136/14.8
Liver TX	21/0.55	5/0.5	0/0	0/0	8/0.4	44/1.8	0/0	28/0.6	6/0.7

	Switzerland Tot/pmi	Tunisia Tot/pmi	Turkey Tot/pmi	UK Tot/pmi	Ukraine Tot/pmi	Uruguay Tot/pmi	USA Tot/pmi
<b>Post- mortem</b>							
Donors	90/11.8	14/1.4	242/3.6	883/14.7	15/0.3	63/19.1	7313/24
NHBD or DCD	NA	0/0	0/0	264/4.4	0/0	0/0	NA
Kidney Tx single	170/22.2	28/2.8	415/6.9	1364/22.7	28/0.6	114/34.5	9698/31.7
Kidney Tx double	1/0.1	NA	0/0	11/0.2	0/0	0/0	NA
Liver TX full	70/9.2	4/0.4	200/3	652/10.8	1/0.02	NA	5565/18.2
Liver TX split	8/1	0/0	9/0.1	109/1.8	0/0	NA	NA
Heart TX	29/3.8	0/0	50/0.7	122/2	0/0	11/3.3	2002/6.5
Lung TX single	1/0.8	0/0	0/0	27/0.4	0/0	4/1.2	403/1.3
Lung TX double	34/4.5	0/0	0/0	107/1.8	0/0	0/0	959/3.1
Pancreas TX single	2/0.3	0/0	8/0.1	54/0.9	0/0	NA	405/1.3
Pancreas-kidney TX	15/1.9	0/0	1/0	162/2.7	NA	6/1.8	779/2.5
Liver-kidney TX	5/0.7	0/0	0/0	17/0.3	NA	NA	NA
Heart-kidney TX	NA	0/0	NA	5/0.1	NA	NA	NA
Heart-lung TX	NA	0/0	1/0	5/0.1	NA	NA	23/0.1
Pancreas lslets TX	NA	0/0	NA	NA	NA	NA	NA
Organs TX/donor*	3.5	2.3	2.8	2.9	1.9	2.1	2.7
<b>Living</b>							
Donors	128/16.8	99/9.9	1616/24.1	949/15.8	80/1.7	7/2.1	5616/18.4
Kidney TX	116/15.3	99/9.9	1224/18.2	914/15.2	75/1.6	7/2.1	5386/17.6
Liver TX	8/1	NA	392/5.9	36/0.6	5/0.1	NA	223/0.7

\* These numbers are based on the total numbers of transplanted divided by the total number of post mortem donors. When organs are exchanged between countries, these numbers can be highly different.

Each country included in the database is represented by a Reporter, who informs about the donation and transplantation results obtained during the previous year.

New countries are invited to participate in the project once they start to announce among the international community their organ donation activity. TPM contacts the person in charge of the National coordination or the organisation closer to this activity and asks them to become the country IRODaT Reporter.

If your country is missing at this table and you wish to provide IRODaT with the information requested, we encourage you to contact us at: [lteixeira@il3.ub.edu](mailto:lteixeira@il3.ub.edu) or [tpmconsultant@il3.ub.edu](mailto:tpmconsultant@il3.ub.edu). We will be pleased to include your information at IRODaT. Furthermore, specific requests can be addressed to this address in order to obtain a tailor made data compilation for your research studies.

In this issue, national data has been provided by:



Country	Organization	Data Responsible
Argentina	INCUCAI	Martin Torres
Australia	Australia & New Zealand Organ Donation Registry	Lee Excell
Austria	ÖEBIG	Manfred Willinger
Bangladesh	Kidney Foundation	Harun Ur Rashid
Belgium	Eurotransplant	Leen Coene
Brazil	Associação Brasileira de Transplante de Órgãos	Valter Duro Garcia
Bulgaria	Bulgarian Executive Agency of Transplantation	Dimitar Brankov
Croatia	Ministry of Health and Social Welfare	Mirela Busic
Czech Republic	Transplantation Coordinating Centre	Pavel Brezovsky
Denmark	Scandiatransplant	On-line data
Estonia	Tartu University Clinics	Hele Nurme
Finland	Scandiatransplant	On-line data
Germany	Deutsche Stiftung Organtransplantation	Birgit Blome
Greece	Hellenic Transplant Organization	Efi Nikolaou
Hong Kong	Hospital Authority	Beatrice Cheng
Hungary	HNBTS, Organ Coordination Office	Sándor Mihali
Iceland	Scandiatransplant	On-line data
Iran	Management Center for Transplantation and Special Diseases	Alireza Heidary Rouchi
Ireland	NHS Blood and Transplant	Phil Pocock
Israel	Israel Transplant Center	Tamar Ashkenazi
Italy	Centro Nazionale Trapianti	Andrea Ricci
Latvia	BaltTransplant – Latvian subdivision	Sergej Trushkov
Lithuania	National Transplantation Bureau	Audrone Buziuviene
Malta	Mater Dei Hospital	Anthony Bugeja
Netherlands	Dutch Transplant Foundation	Rik Van Leiden
New Zealand	Australia & New Zealand Organ Donation Registry	Lee Excell
Norway	Scandiatransplant	On-line data
Poland	Poltransplant	Janusz Walaszewski
Portugal	Autoridade para os Serviços de Sangue e Transplantação	Catarina Bolotinha
Puerto Rico	Programa de Trasplante Renal– Hospital Auxilio Mutuo	Eduardo A. Santiago-Delpin
Qatar	Organ Transplant Committee – Hamad Medical Corporation	Yousef Al Maslamani
Romania	National Transplant Agency	Rosana Turcu
Saudi Arabia	Saudi Center for Organ Transplantation	Besher A. Al-Attar
Slovenia	Slovenija Transplant	Danica Avsec
Spain	Organización Nacional de Trasplantes	Rafael Matesanz
Sweden	Scandiatransplant	On-line data
Switzerland	Swisstransplant	Dagmar Vernet
Tunisia	Centre pour la Promotion de la Transplantation d'Organes	Louhichi Ramzi, Mohamed Salah Ben Ammar
Turkey	UKM	Levent Yucetin
Ukraine	National Institute of Surgery and Transplantology, Bioimplant	Andriy Kostenko, I. Aleshchenko
United Kingdom	NHS Blood and Transplant	Phil Pocock
Uruguay	Instituto Nacional de Donación y Trasplante	Inés Alvarez
USA	UNOS	On-line data

We remind you that the IRODaT database is hosted in the TPM website [www.tpm.org](http://www.tpm.org). Its access is open to any Internet user, becoming a free and easy space where directly consult most updated information about the organ donation and transplantation activity from more than 80 countries around the world.