



International Registry in Organ Donation and Transplantation 2010

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ABSTRACT

The International Registry in Organ Donation and Transplantation (IRODaT) seeks to support the transplant community by providing up-to-date data on organ donation and transplantation worldwide at three different levels: national, regional, and Hospital. The database provides up-to-date information provided by a network of professionals directly involved in the various stages of the donation and transplantation process. All collected data are made public online, so professionals can use them as descriptive and epidemiological references. The registry provides numbers on donors after brain death, donors after cardiac death, and living donors, as well as on specific organ transplantation activities related to the three types of organ donation. A subregistry on tissue and cell donation has been made available as well. All numbers are continuously checked, updated, and validated and, when needed, responsible representatives are contacted for the required statistics. Data on organ donation and transplantation from 2009 and 2010 have been collected from 63 countries. The information reveals a remarkable increase in the donation rate in some countries such as Croatia, Italy, Slovenia, Czech Republic, Germany, Hungary, Australia, Luxemburg, Poland, Brazil, Singapore, Iran, Saudi Arabia, Venezuela, Romania, Bulgaria, Mexico, Russia, and Argentina. IRODaT provides data concerning the organ donation and transplantation activities for the general public and professionals around the world. National and comparative statistics generated on an international basis can be provided that is of extreme value to scientific programs and social and governmental bodies because they can support different initiatives of current practices in organ and tissue donation in any country or region of the world.

THE International Registry in Organ Donation and Transplantation (IRODaT) presents in this issue an update on the results of the organ donation and transplantation activity developed during 2009 and 2010 in 64 countries.

Different figures were generated giving an overview on organ donation and transplantation activity. In the [Figs 1 and 2](#) the data are displayed per million of population (pmp). The definitions used for the data collection are specified in each figure.

Deceased donor numbers were analyzed following the world area distribution: Europe, America, Asia- Australia, and Africa-Middle East area.

The European scenario of deceased organ donation ([Fig 1](#)) is extremely varied with a few nations with yearly donor rates over 20 pmp (Spain, Portugal, Croatia, Belgium, Italy, Norway, and Slovenia). Significant increase was reported in the donation activity of Croatia, Luxemburg, and Bulgaria as

follows: 64.70%, >100%, 78.13%, respectively, compared to 2009 data.

Regarding the America Region ([Fig 2](#)), the number of reporting countries is increasing, suggesting that many countries are organizing their information in a central database or creating national registries. This is a clear result of the increasing interest in a professionalized attitude toward donation and transplantation activity. Argentina reported an increase in its deceased donation rate of 2.04 points in the last year.

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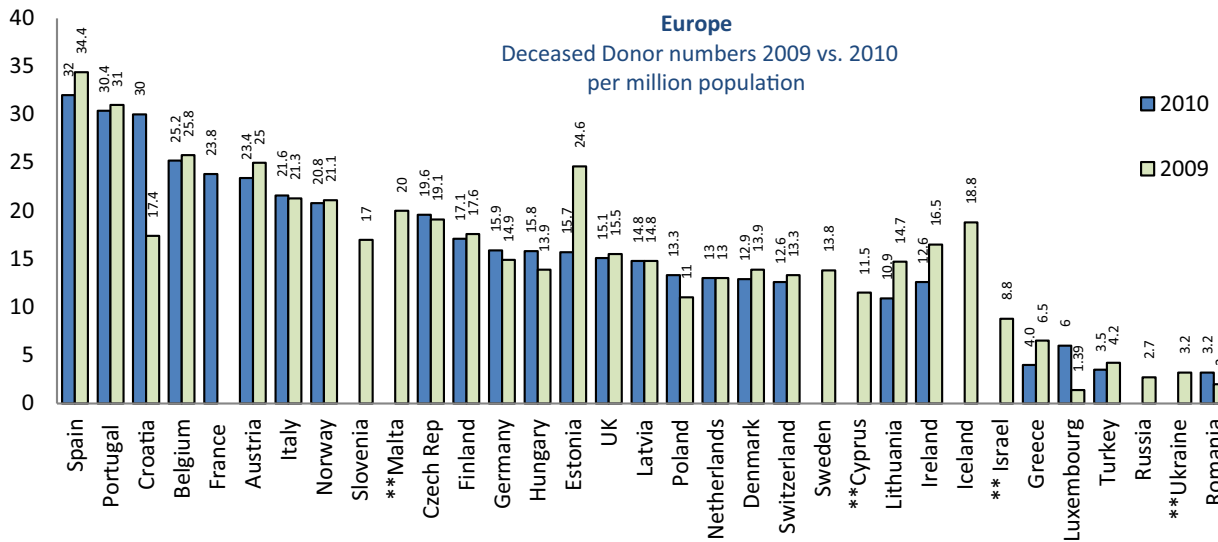


Fig 1. Organ deceased donors 2009 and 2010 in European region. Numbers represent per million population. (**Countries that have not reported 2010 information as of this printing.)

The organ shortage is one of the main challenges to properly managing organ donation and transplantation programs worldwide. The IRODaT registry shows that countries of the Asia-Australian region (Fig 3) such as Australia reported an increase in the donation rate of 22, 12% compared to the 2009 data. Regarding the Africa-Middle East region (Fig 4), Iran and Saudi Arabia reported significant changes with an increases of 41.30% and 18.18%, respectively.

The countries are listed from the highest per million population number of transplantation activity of thoracic transplantation (Fig 5), liver transplantation (Fig 6), kidney transplantation (Fig 7), and pancreas transplantation (Fig 8).

During the last year, large numbers of countries have reported living organ transplantation related data. In Fig 9, the countries reporting were listed from the highest to the lowest per million population. Turkey, Netherlands, and Iran are the countries with the highest rates in living donation.

New countries are invited to participate in the project once they begin announcing their organ donation activity to

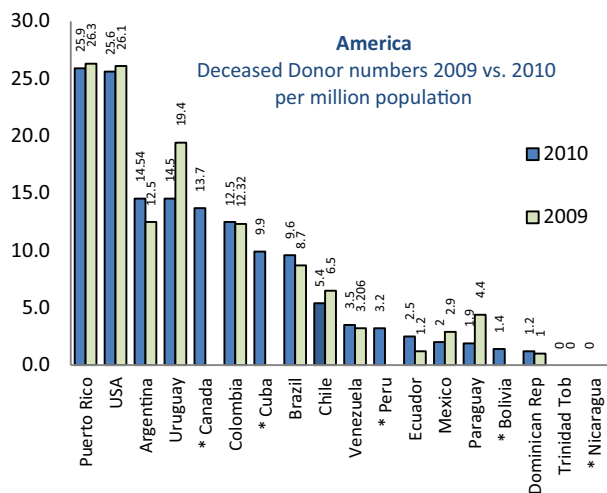


Fig 2. Organ deceased donors 2009 and 2010 in American region. Numbers represent per million population. (*New reports: Bolivia, Canada, Cuba, Nicaragua, and Peru.)

Asia-Australia. Deceased Donor numbers 2009 vs. 2010 per million population

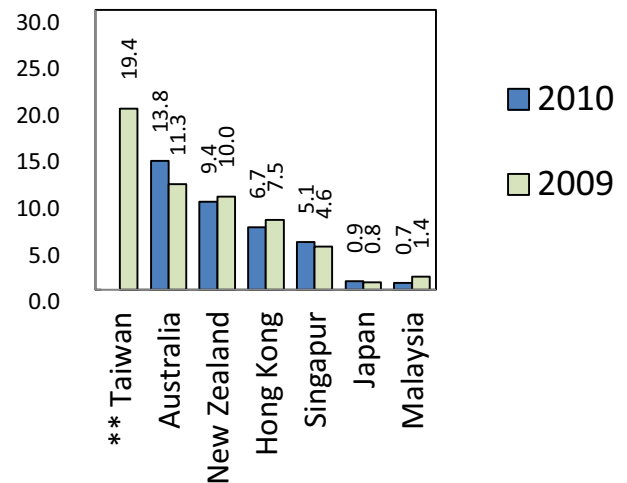


Fig 3. Organ deceased donors 2009 and 2010 in Asia-Australia region. (**Countries that have not reported 2010 information as of this printing.)

Africa-Middle East. Deceased Donor numbers 2009 vs. 2010 per million population

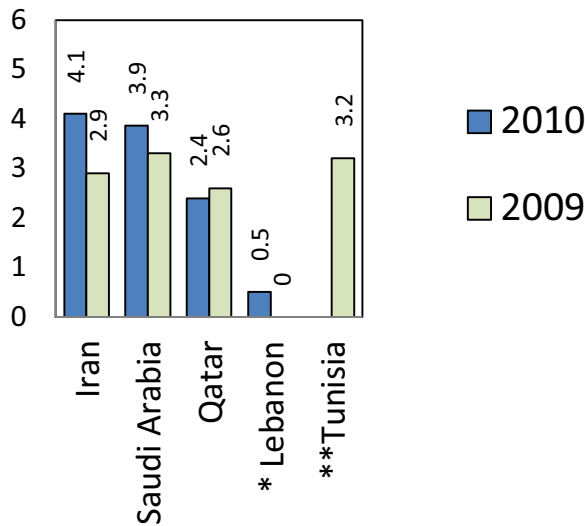


Fig 4. Organ deceased donors 2009 and 2010 in Africa-Middle East Region. (*New reports: Lebanon. **Countries that have not reported 2010 information as of this printing.)

the international community. Please contact irodat@irodat.org and we will be pleased to include your information in the IRODaT database. Furthermore, specific requests can be sent to this contact address to obtain more detailed information.

Data included in this publication was obtained from representatives from each country or official websites' information as displayed on June 26, 2011. If you need further information about the numbers presented, please contact the institution responsible. In this issue, information has been provided by those responsible representatives listed in Table 1.

Thoracic Transplantation 2010

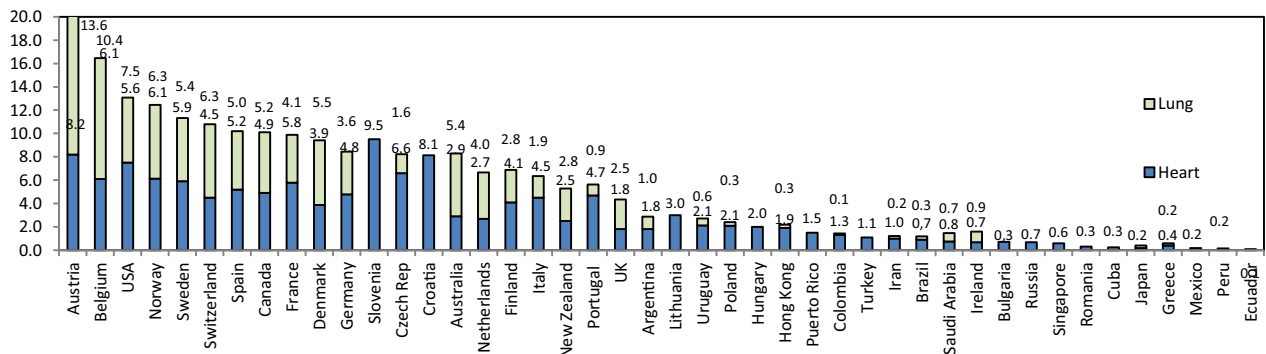


Fig 5. Thoracic transplantation: heart and lung (including heart-lung). Numbers represent per million population.

Liver Transplantation 2010

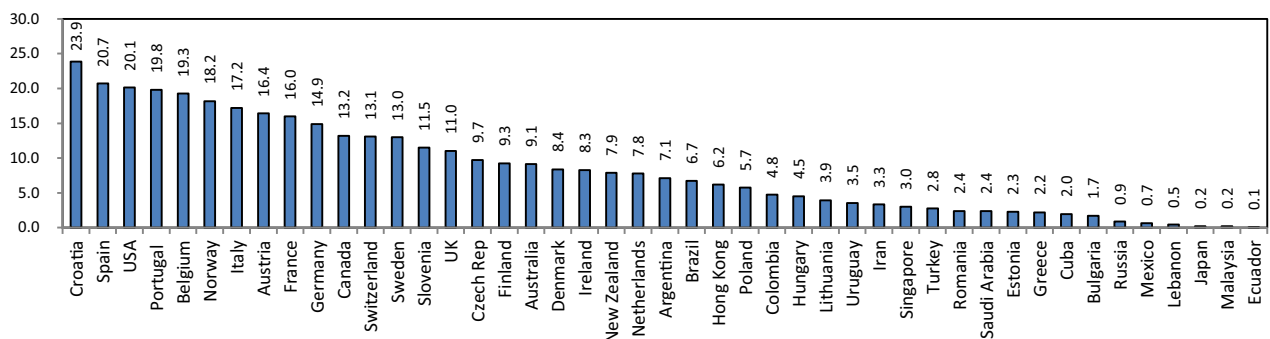


Fig 6. Liver transplantation from deceased donors, including combined transplants. Numbers represent per million population.

Kidney Transplantation 2010

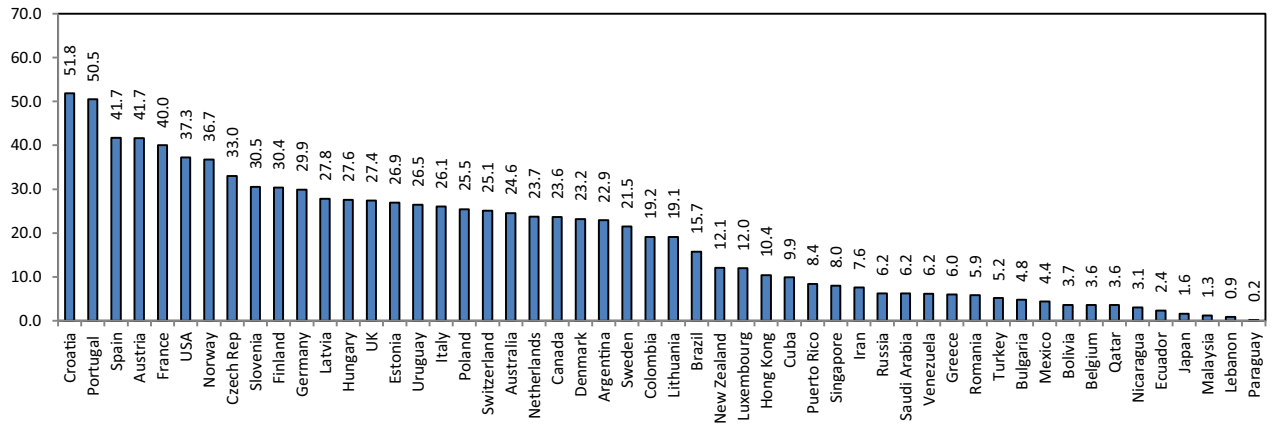


Fig 7. Kidney transplantation from deceased donors, including combined transplants. Numbers represent per million population.

Pancreas Transplantation 2010

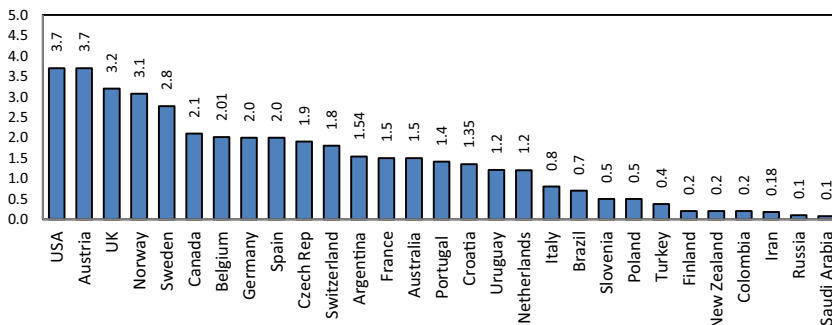


Fig 8. Pancreas transplantation from deceased donors, including combined transplants. Numbers represent per million population.

Living kidney and liver transplant 2010

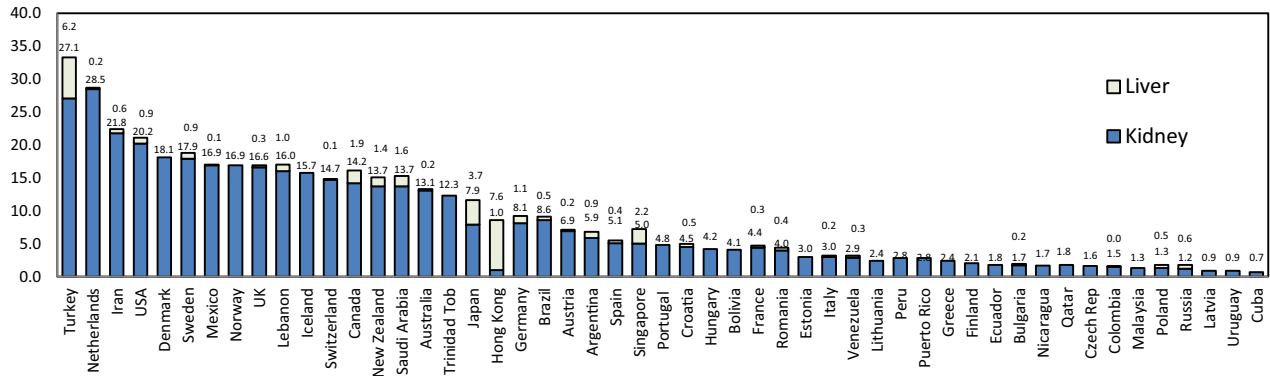


Fig 9. Living transplantation (kidney and liver). Numbers represent per million population.

Table 1. International Registries

Country	Organization	Responsible Representative
Argentina	INCUCAI	Carlos Soratti
Australia	Australia & New Zealand Organ Donation Registry	Leonie Excell
Austria	GesundheitÖsterreich GmbH	Manfred Willinger
Belgium	Eurotransplant	Eurotransplant online data
Bolivia	Grupo Punta Cana	Grupo Punta Cana online data
Brazil	Brazilian Society for Organ Transplantation	Thiago Quintas
Bulgaria	Executive Agency for Transplantation	Teodora Dzhalieva
Chile	Grupo Punta Cana	Grupo Punta Cana online data
Canada	Canadian Institute for Health Information	Bob Williams
Colombia	Red de Donación y Trasplantes	Maria Angélica Salinas Novas
Croatia	Ministry of Health and Social Welfare	Mirela Busic
Cyprus	Paraskevaïdon Surgical and Transplant Center	Georgen Kyriakides
Czech Republic	Czech National Transplant Coordinating Centre	Pavel Brezovsky
Cuba	Grupo Punta Cana	Grupo Punta Cana online data
Denmark	Scandiatransplant	Scandiatransplant online data
Dominican Rep	Grupo Punta Cana	Grupo Punta Cana online data
Ecuador	Organismo Nacional de Trasplantes de Órganos y Tejidos	Jose Javier Bermudez
Estonia	Tartu University Hospital	Pärt Prommik
Finland	Scandiatransplant	Scandiatransplant online data
France	Agence de la Biomédecine	Rapport Annuel 2010
Georgia	Georgian Association of Transplantologists	Gia Tomadze
Germany	Deutsche Stiftung Organtransplantation - DSO	Birgit Blome
Greece	Hellenic Transplant Organization	Georgia Menoudakou
Hong Kong	Hospital Authority	Irene Lau
Hungary	Hungarian National Blood Transfusion Service	Sándor Mihály
Iceland	Scandiatransplant	Scandiatransplant online data
Iran	Department of Transplantation	Alireza Heidary Rouchi
Ireland	NHS Blood and Transplant	Phil Pocock
Israel	Israel Transplant Center	Tamar Ashkenazi
Italy	Centro Nazionale Trapianti - CNT	Andrea Ricci
Japan	Japan Organ Transplant Network, Japan Society for Transplantation	Juntaro Ashikari
Latvia	Balt Transplant - Latvian Subdivision	Sergej Trushkov
Lebanon	NOOTDT	Farida Younan
Lithuania	National Transplant Bureau/Ministry of Health	Anulyte
Luxemburg	Eurotransplant	Eurotransplant online data
Malaysia	National Transplant Resource Centre	Jamaliah Kario
Malta	Mater Dei Hospital	Anthony Bugeja
Mexico	Centro Nacional de Trasplantes	Enrique Martínez Gutiérrez
Netherlands	Dutch Transplant Foundation	Rik Van Leiden
New Zealand	Australia & New Zealand Organ Donation Registry	Leonie Excell
Nicaragua	Kidney transplant service. Manuel de Jesus Rivera Hospital	Alexis Garcia Lopez
Norway	Scandiatransplant	Scandiatransplant online data
Paraguay	Grupo Punta Cana	Grupo Punta Cana online data
Perú	Grupo Punta Cana	Grupo Punta Cana online data
Poland	Polish Transplant Coordinating Centre - Poltransplant	Janusz Walaszewski
Portugal	Autoridade para os Serviços de Sangue e da Transplantação	Catarina Bolotinha
Puerto Rico	Centros de Trasplante de Puerto Rico	Eduardo Santiago-Delpin
Qatar	Organ Transplant Comitee - HGH	Hatem El-Shoubaki
Romania	National Transplant Agency	Rosana Turcu
Russia	Shumakov Center of Transplantology and Artificial Organs	Yan Moysyuk
Saudi Arabia	Saudi Centre for Organ Transplantation	Besher A. Al-Attar
Singapore	National Organ Transplant Unit	Sally Kong
Slovenia	Slovenija Transplant	Danica Avsec
Spain	Organización Nacional de Trasplantes - ONT	ONT
Sweden	Scandiatransplant	Scandiatransplant online data
Switzerland	Swisstransplant	Dagmar Vernet
Taiwan	Taiwan Organ Registry and Sharing Center	Chia-Chi Liu
Trinidad & Tobago	National Organ Transplant Unit Trinidad & Tobago	Heather Johnson

Table 1. (continued)

Country	Organization	Responsible Representative
Tunisia	Centre National pour la Promotion de la Transplantation d'Organes	Mohamed Salah Ben Ammar
Turkey	UKS	Levent Yucetin
Ukraine	National Institute of Surgery and Transplantology	Andriy Kostenko
United Kingdom	NHS Blood and Transplant	Phil Pocock
Uruguay	Instituto Nacional de Donación y Trasplante	Inés Álvarez
USA	UNOS - OPTN	UNOS - OPTN online data
Venezuela	Programa Nacional de Donacion y Trasplante.SPOT/ONT Venezuela	Carmen Luisa Milanes