

ANNUAL ACTIVITY REPORT 2023



DONATION & TRANSPLANTATION INSTITUTE

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WELCOME LETTER



Dear colleagues and dear friends,

2023 has been very relevant year for global recovery in donation and transplantation, and DTI Foundation has been right in the thick of it. The most important word here is DONATION because it's what enables other life-saving activities for many patients dealing with chronic diseases. Training has demonstrated to be a useful tool to develop deceased transplantation programs worldwide every year.

Now with cooperation in new territories to start living transplantation and procurement modules to achieve the self-sufficiency will help many patients worldwide.

Our mission is to help patients, professionals, institutions, and associations to improve people's quality of life. We thank everyone on board with this mission, and we sincerely wish the best for the future ahead!

My best wishes for all of you,

Dr. Martí Manyalich
President of DTI Foundation

A handwritten signature in blue ink, likely belonging to Dr. Martí Manyalich, positioned below the typed name and title.

ABOUT DTI FOUNDATION

DTI Foundation is an international non-profit organization that seeks to improve society's quality of life. Our team offers international support to develop organ and tissue donation and transplantation systems worldwide.

Our mission is to advise and support international public and private healthcare institutions in the design, development and strengthening of networks, programs, services and/or research projects in the field of organ, tissue and cell donation and transplantation.

we TRAIN



we ADVISE



we COLLABORATE



In coordination with a group of international experts in donation and transplantation, we have trained more than 20,000 healthcare professionals from 113 countries through our TPM® educational programs since 1991.

We also collaborate with international organizations to promote the creation of self-sufficient and high standard transplant programs. We have designed dynamic programs to help find the best practices that adapt to each country's reality. This is done through a comprehensive model and our international experts' network's knowledge.

This report summarizes the main activities of the Foundation throughout 2023.

OUR TEAM

At DTI we have had the opportunity to count with a fantastic, multidisciplinary, dedicated and international team throughout the years. During this 2023 annual report we want to take the opportunity to thank each and every single one of them for their excellent work, for their support, for their trust and for always be willing to help. Everything in this annual report would not have been possible without them.



Advisory Council

DTI has the support of a large group of professionals recognized for their expertise in various fields. They help the foundation by altruistically guiding innovative projects, offering consultancy services and proposing improvements to ensure we continue to meet our mission.

International Experts

The international experts in DTI are a group of healthcare professionals who have been part of our team since we started the first TPM training in 1991.

We have the honor to collaborate with many recognized professionals from the health sector worldwide and be inspired by their participation as professors in some of our courses and as leaders in many cooperation projects.



INTERNATIONAL TRAINING



FEBRUARY:

- **Spain**
33rd edition
Curso Superior Internacional
en Donación y Trasplante de
Órganos y Tejidos
60 Participants
7 Countries
- **Italy**
6th edition
Corso TPM Emilia-Romagna
Per Coordinatori Alla
Donazione E Al Prelievo Di
Organi E Tessuti
45 Participants
- **Italy**
3rd edition
Corso TPM Puglia
Per Coordinatori Alla
Donazione
E Al Prelievo Di Organi E
Tessuti
41 Participants



MARCH:

- **India**
1st Transplant Procurement
Mangement (TPM) Training
Course
51 Participants
- **Sloveina**
10th Transplant Procure-
ment Mangement (TPM)
Training Course
33 Participants
- **Online**
13th Leadership, Quality,
Management and
Innovation Training
Program
30 Participants
15 Countries
- **Italy**
7th edition Corso TPM
Campania Per Coordinatori
Alla Donazione E Al Prelie-
vo Di Organi E Tessuti
35 Participants



MAY:

- **Italy**
2nd edition Corso Regio-
nale TPM – Piemonte e
Valle d'Aosta
41 Participants



JUNE:

- **International**
19th edition International
Master in Donation and
Transplantation of
Organs, Tissues and
Cells
Final disseration
presentation
29 Participants
17 Countries

JULY:

- **UAE**

1st Transplant Procurement Management (TPM) Training Course
95 Participants



SEPTEMBER:

- **KSA**

Nursing Training Course in Transplant Procurement Management
14 Participants



OCTOBER:

- **International**

20th edition International Master in Donation and Transplantation of Organs, Tissues and Cells.
18 Participants
12 Countries



- **Italy**

50th edition Corso Regionale Per Il Coordinamento Alla Donazione E Prelievo Di Organi E Tessuti - Sardegna
43 Participants

- **Russia**

DCD and its contribution to expand the donors pool - workshop
55 Participants



NOVEMBER:

- **Spain**

28th Transplant Procurement Management Advanced International Training Course
66 Participants
19 Countries

- **Italy**

6th edition Corso TPM Toscana Per Coordinatori Alla Donazione E Al Prelievo Di Organi E Tessuti
50 Participants

DECEMBER:

- **International**

3rd International Workshop In Family Approach For Organ Donation
11 Participants
7 countries



- **Oman**

1st Transplant Procurement Management (TPM) Training Course
43 Participants

OUR TRAINING

Transplant Procurement Management Advanced International Training Course

The 28th edition of the Transplant Procurement Management Advanced International Training Course took place in Barcelona from November 6th to November 10th marking the first face-to-face session post the COVID-19 pandemic.

With a total of **66 participants representing 19 countries**, the course provided an international platform for healthcare professionals to share experiences and build networks. The success of the program rested on collaborative efforts within small groups, interactive workshops, and the guidance of an esteemed international faculty specializing in organ and tissue donation and transplantation.

The course aimed to equip participants with the necessary skills to contribute in organ donation and transplantation within their respective countries.



Curso Superior Internacional en Donación y Trasplante de Órganos y Tejidos

In February, the 33rd edition of the "Curso Superior Internacional en Donación y Trasplante de Órganos y Tejidos" took place in Sant Hilari Sacalm, Barcelona. It was a blended modality learning experience, integrating online sessions with 3 days in-person workshops.

A total of **60 healthcare professionals from 7 different countries** - Andorra, Brazil, Chile, El Salvador, Spain, Mexico, and the Dominican Republic - participated in this learning experience.

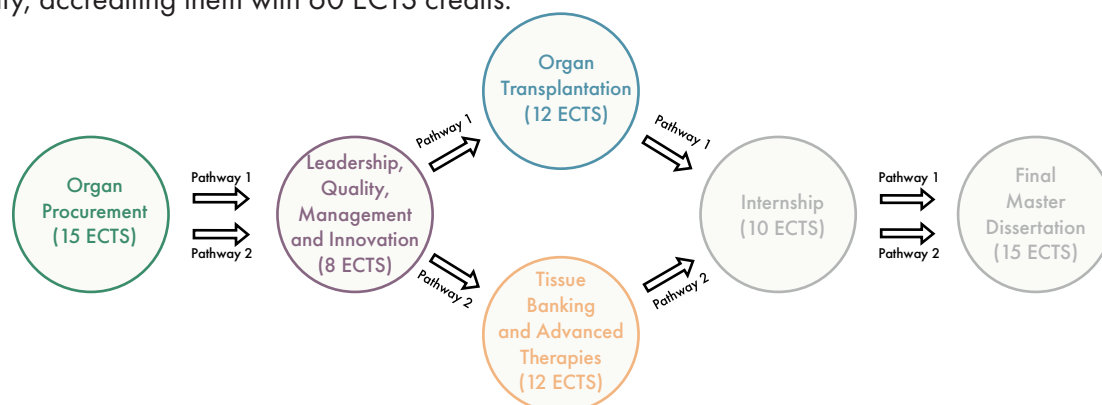
International Master in Donation and Transplantation of Organs, Tissues and Cells

The 19th edition of the International Master in Donation and Transplantation of Organs, Tissues and Cells ended on June 16. A total of **29 students from 17 countries** successfully defended their final dissertations, demonstrating their competence and commitment.

During the 2023 master's program, each student selected three core modules from the following options: Organ Procurement; Leadership, Quality, Management and Innovation; Organ Transplantation; and Tissue Banking and Advanced Therapies.

The master's program now offers students two distinct pathways to tailor their academic journey.

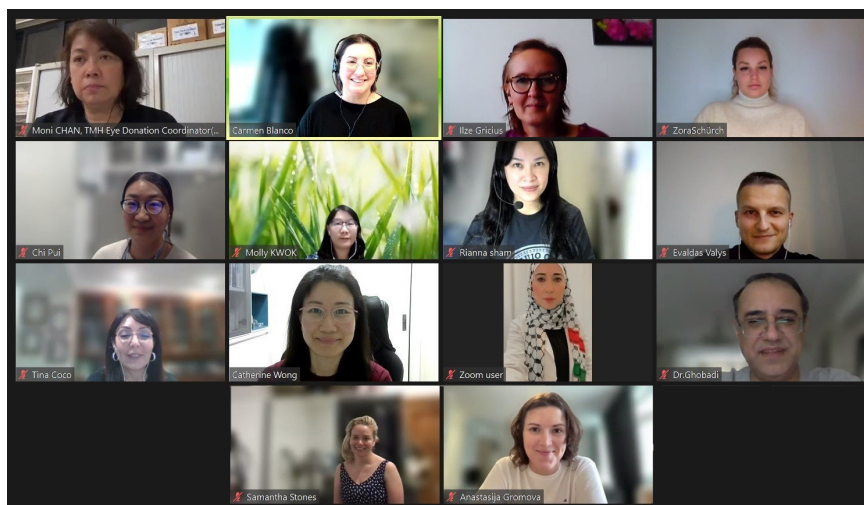
Organized by DTI and the University of Barcelona, this Master's degree awarded all participants a diploma from the university, accrediting them with 60 ECTS credits.



International Workshop on Family Approach for Organ Donation

The 3rd edition of the International Workshop on Family Approach for Organ Donation took place in December. It helps healthcare professionals with their communication skills to have difficult conversations with patients' families. The aim is to make sure these important talks were led by skilled professionals, boosting agreement rates for organ and tissue donation.

The course had a total of **11 participants from 7 different countries**.



INTERNATIONAL COOPERATION



Organ donation consultancy,
training and awareness
activities with the support from
international experts



**611% more
donors in 2 years**



United Arab Emirates

Philippines

Partnership for improving access and
quality of kidney transplantation and
deceased donation programs



**Consolidation
of a kidney transplant
program**



SISTER TRANSPLANT CENTERS PROGRAM



**150+
professionals
trained**

Sri Lanka

Creation of the first
kidney-pancreas
transplant program



- Support in the creation of in-hospital organ donation units and implementation of a quality system



- 4x increase utilized donors**

Saudi Arabia

- Knowledge exchange and assessment of the national program through a TPM training and diagnosis study



- 5 international experts involved**

Oman

Guyana



- Development of regulations and strategic plan for the national competent authority. Standardization of the organ donation program through protocols, SOPs and training. Consultancy for setting an immunology laboratory (HLA).



GUYANA
HUMAN ORGAN AND TISSUE
TRANSPLANT AGENCY



- Creation and implementation of a national deceased organ donation system**

RESEARCH DEVELOPMENT

Human Biological Samples Collected in 2023

We support the establishment of circuits for efficient collection, processing, and shipment of high-quality human biological samples. Our collaborative efforts span across research centers, hospitals, universities, biotech and pharmaceutical companies, technology centers, and biomedical foundations. We monitor donation alerts and collaborate closely with hospitals and biobanks to provide assistance to medical teams, ensuring the procurement of high-quality samples. This year we have help many researches by providing the following tissues:

WHOLE BLOOD

- Isolation of cells from patients with autoimmune diseases (SLE, MS)
- Healthy and pathological samples

PULMONARY TISSUE

- Study of the toxicities induced by immunotherapy treatments
- Healthy and pathological residual tissue from lobectomies

DORSAL ROOT GANGLIA (DRGs)

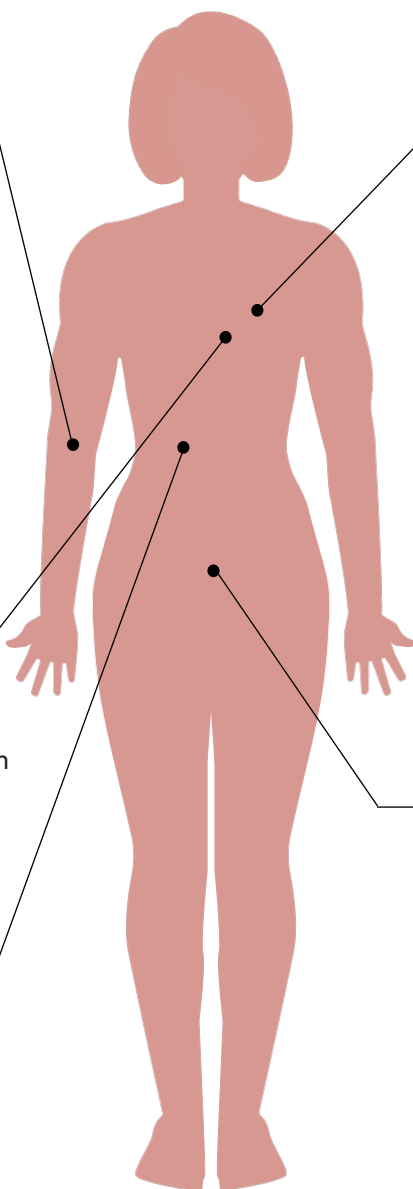
- Study of chronic pain with neurons isolated from DRGs
- Management of deceased donation

HEPATIC TISSUE

- Isolation of hepatic cells for basic research use
- Healthy residual tissue from hepatectomies

INTESTINAL TISSUE

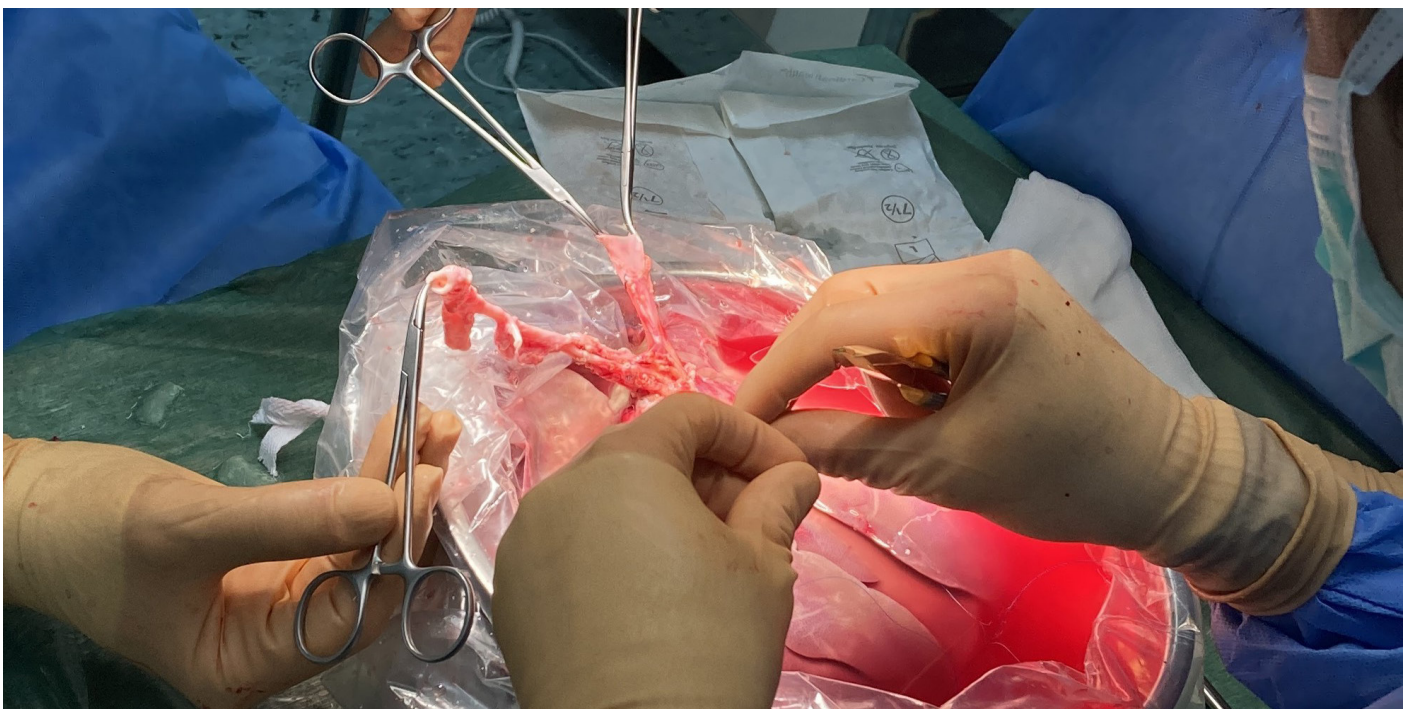
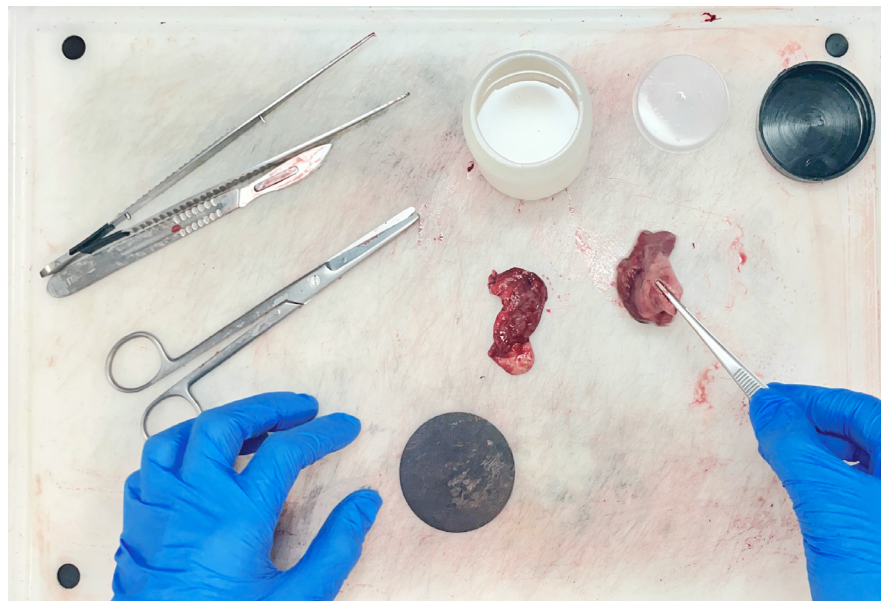
- Study of the molecular interactions between the intestinal epithelial barrier and immune cells
- Fresh whole intestines discarded for transplantation



Technical Validation of Medical Device

We are delighted to highlight our involvement in the technical validation of an innovative machine in the framework of the LPS project: Ex Situ Perfusion of Porcine Livers for Transplantation Using the Normothermic Liver Perfusion System (NPS-Liver).

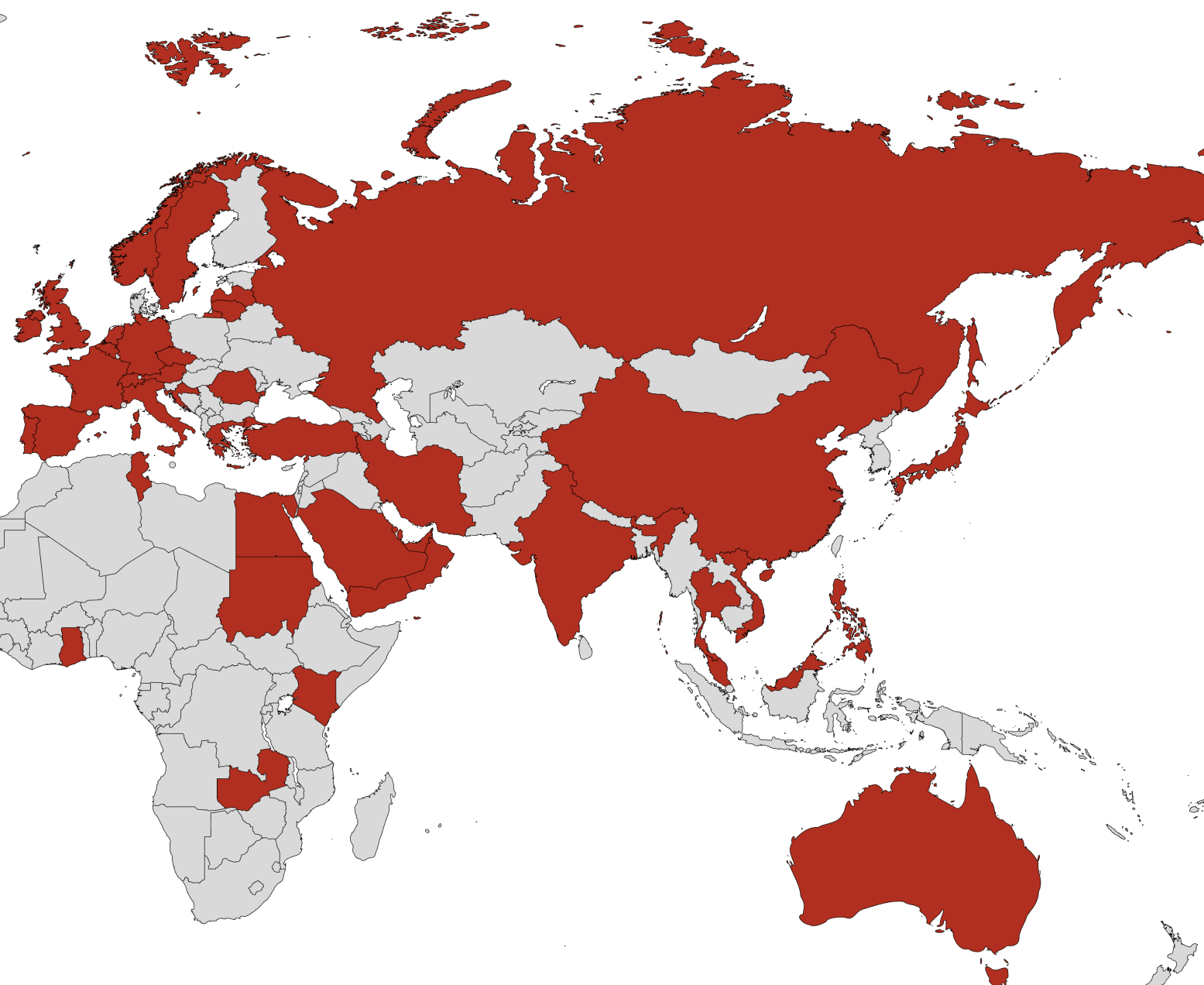
Promoted by the Guangdong Shunde Industry Design Institute, under the guidance of Dr. Constantino Fondevila from Hospital Universitario La Paz, and coordinated by DTI Foundation, this initiative aimed to technically validate a liver perfusion device capable of maintaining livers ex situ in normothermia for extended periods. In this second phase of the project, we have validated this technology transplanting pig livers after 24 hours of perfusion with high survival rates.



INTERNATIONAL PRESENCE



Congresses and
Scientific Events in
17 countries



 Cooperation Projects in
7 countries

INTERNATIONAL VISITS

As part of our cooperation projects we have received visits from many healthcare professionals worldwide.

We are gathering global organ donation leaders in Barcelona to explore the successful Spanish Organ Donation Model and share insights.

During their visits, they had the opportunity to visit the key stakeholders involved in the organ & tissue donation and transplantation programs. Sharing their experiences and bringing back new practices to their countries.

We extend our heartfelt appreciation to every organization that has contributed to these visits.

27

**Healthcare
Professionals**

14

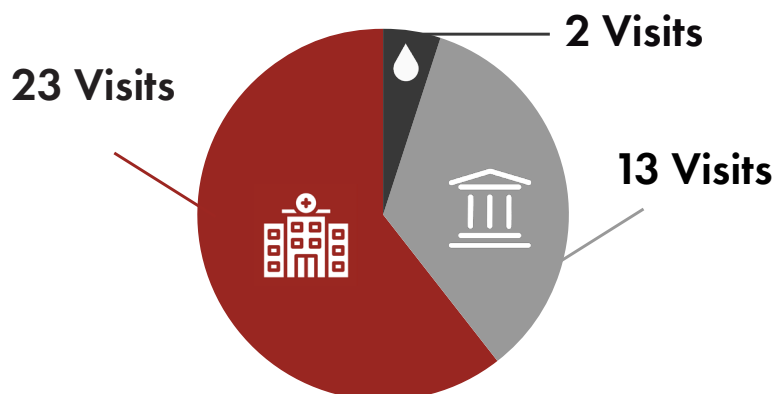
Countries

7

Visits






Location of Visits



 Hospital Clinic
 Hospital del Mar
 Hospital Germans Trias i Pujol
 Hospital Universitari Bellvitge

 Banc de Sang i Teixits (BST)

 Catalan Transplant Organization (OCATT)
 SEM (Catalan Emergency Services)
 Histocompatibility laboratory (HLA)



EUROPEAN PROJECTS

European Solidarity Corps

DTI benefited from the involvement of two volunteers hailing from Croatia and Lithuania, who contributed their efforts across various foundation projects, offering invaluable assistance as required. Their volunteer service spanned a duration of nine months.

The primary aim of their engagement centered on bolstering the development and execution of organ and tissue donation training initiatives. Welcoming these volunteers into the Foundation facilitated their comprehensive training in donation and transplantation practices.

The European Solidarity Corps (ESC), formerly known as the European Voluntary Service (EVS) until 2016, represents an international volunteering initiative spearheaded by the European Commission. Geared towards young individuals, the program enables them to embark on solo or group ventures to foreign countries, typically within Europe, to support non-profit endeavors.



Transforming Universities Towards Entrepreneurship (TRUE)

The project finalized in June 2023 with a farewell meeting at the University of Barcelona.

This project had the mission to remove obstacles that inhibit innovation and entrepreneurship in the university field. It impacted 4,000 European citizens during the funding period and it should impact up to 19,000 by 2030.

DTI designed and developed the "Innovation for teaching training". Throughout four editions, a total of 309 teaching personnel from different faculties have been trained. Participants improved their knowledge on different aspects related to innovation by 38% by the end of the training.



UNIVERSITAT DE
BARCELONA



UNIVERSITÉ
DE MONTPELLIER



POLITÉCNICO
DE LISBOA



TEODOR Project

The TEODOR Project was an initiative aimed at improving organ donation and transplantation education in Latvia, Lithuania and Czech Republic.

The project ended in August 2023. In April there was an event organized at the University of Barcelona, partner of the project, during the last phase of the project. Participants attended this educational sessions guided by “trainers” trained in the project and professors from the University of Barcelona and Karolinska Institute.

Throughout the project the team has participated in online and face-to-face meetings, local seminars, online self-study courses and webinars. Participants in the project counted with guidance, mentorship and feedback from international experts whenever it was demanded.

Overall, the project has shown a 20% knowledge gain from 44 healthcare professionals dedicated to organ donation and a 36% from 30 healthcare professionals dedicated to organ transplantation according to pre and post-tests.



PAULA STRADIŅA
KLĪNISKĀ UNIVERSITĀTES
SLIMNĪCA



Co-funded by the
Erasmus+ Programme
of the European Union



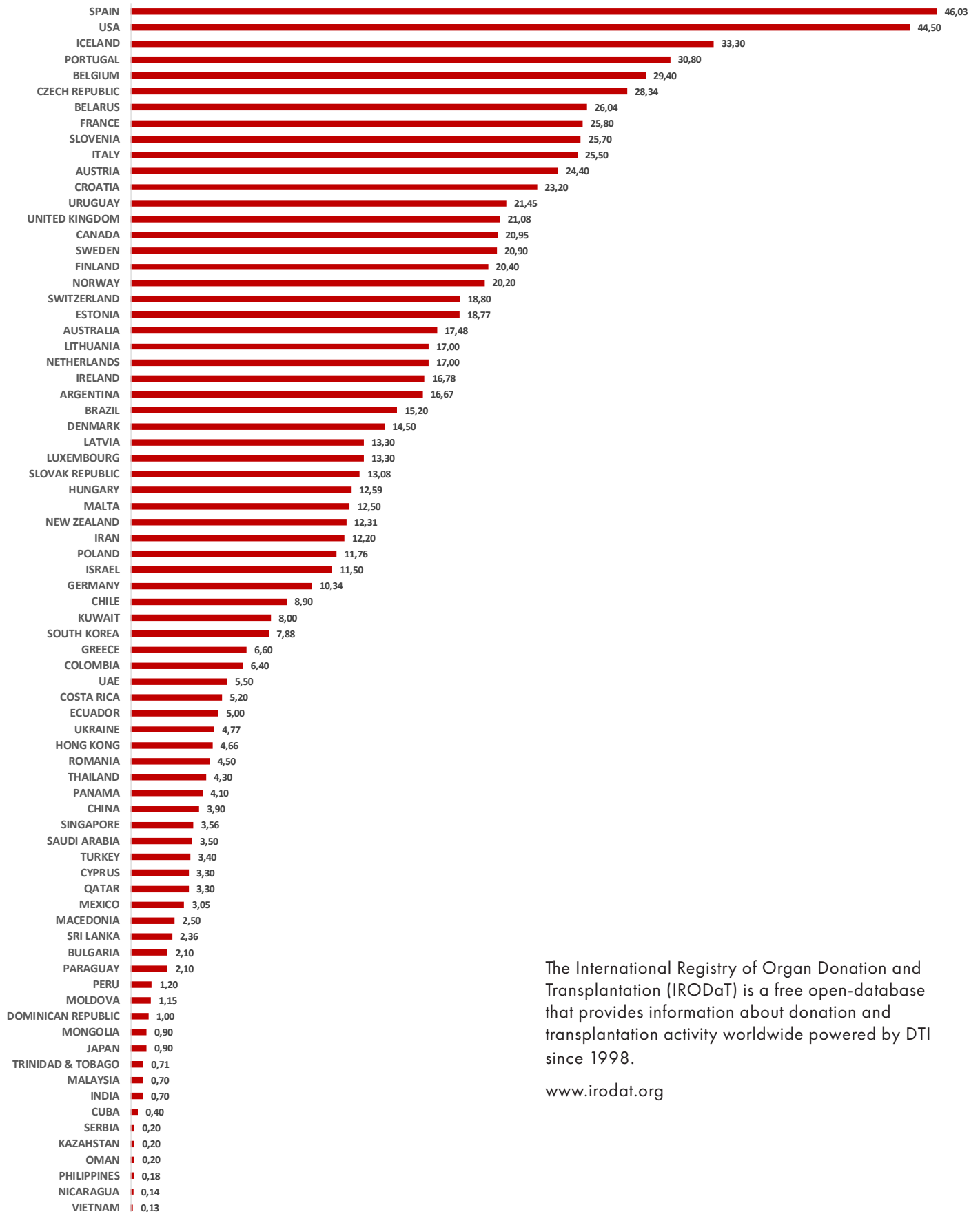
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UNIVERSITY OF
LATVIA

IRODaT Registry - Powered by DTI

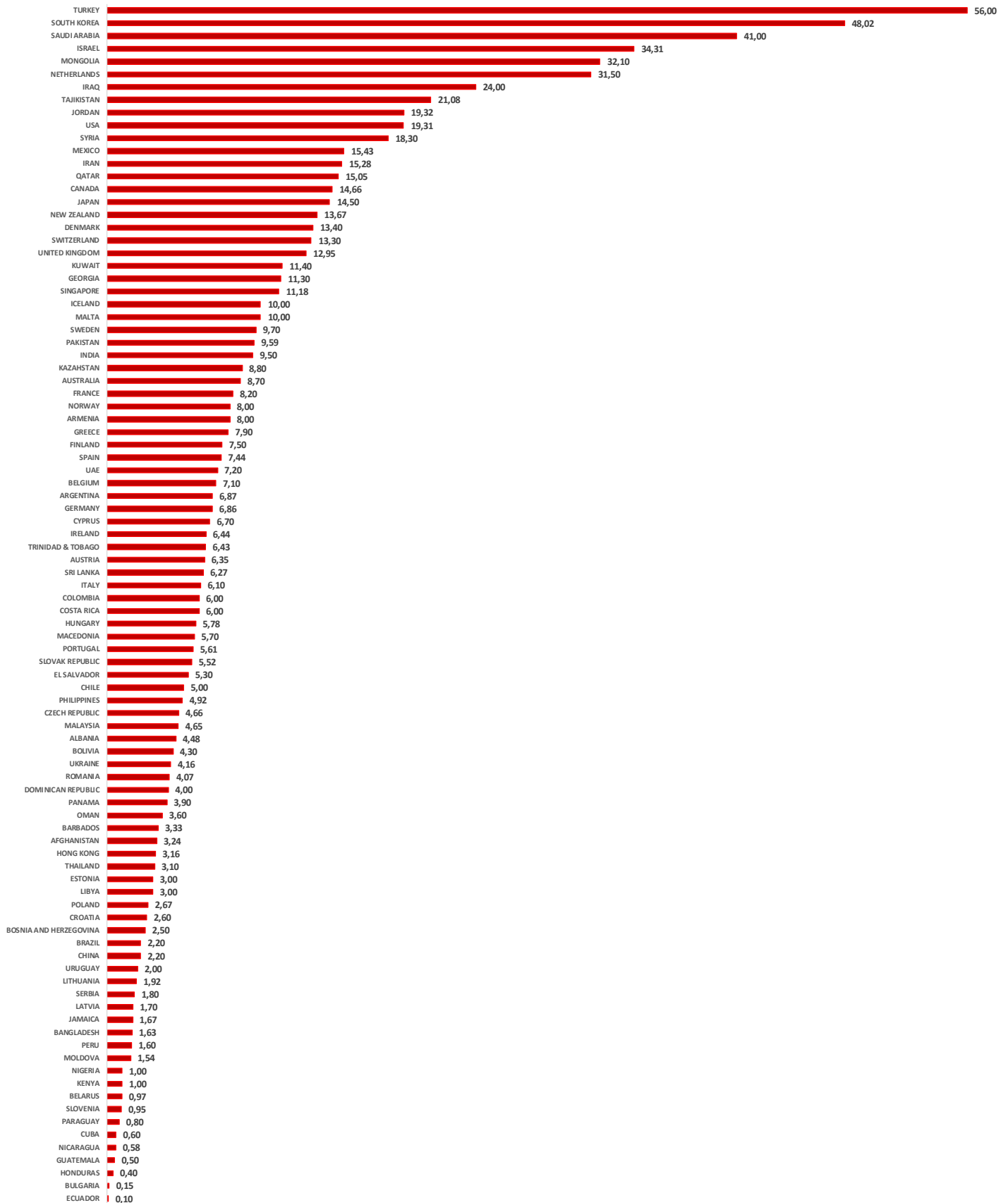
Worldwide actual deceased organ donors rate 2022 (pmp)



The International Registry of Organ Donation and Transplantation (IRODaT) is a free open-database that provides information about donation and transplantation activity worldwide powered by DTI since 1998.

www.irodat.org

Worldwide living organs donors rate 2022 (pmp)



CONGRESSES AND SCIENTIFIC EVENTS



Sudanese Nephrology Congress

Transplantation - Sudan

Arab Health Congress

Health - UAE

African Nephrology & Transplantation Summit

Transplantation - Egypt

Critical Care Congress

Health - UAE

CDPTO - Council of Europe Strasbourg

Transplantation - Spain

Congreso Nacional de Coordinadores de Trasplante

Transplantation - Spain

MESOT Congress

Transplantation - Turkey

Malaysian Society of Transplantation

Transplantation - Malaysia

Africa Health ExCon

Health - Egypt

International Congress of Iranian Society of Organ Transplantation (IRSOT)

Transplantation - Iran





Donation - India

Manipal DCD Summit

Transplantation - Hong Kong

CAST Congress

Transplantation - Greece

ESOT Congress

Donation - Italy

DONARTE

Donation - France

Rencontres de la biomédecine

Donation - USA

ISODP Congress

Donation - China

CIODC Congress

Donation - Tunisia

CNPTO

Transplantation - Philippines

The Philippine Society of Nephrology (PSN) Annual Convention

Donation - Vietnam

Organ Donation Advocacy and Organ Allocation from Deceased Donors





+ 20,000

TRAINED IN TPM COURSES
ONLINE AND FACE-TO-FACE SINCE 1991



+ 110

COUNTRIES WORLDWIDE BENEFIT
FROM DTI'S ACTIONS SINCE 1991



+ 10

COUNTRIES HAD A FACE-TO-FACE
TRAINING IN 2023

8

International Cooperation Projects

These projects gave DTI the opportunity to foster meaningful partnerships and drive impactful outcomes.



3

European Projects

showcased our commitment to innovation and collaboration on a global scale.

25

Organizations



We had the privilege of working alongside 25 organizations in 2023, contributing to shared accomplishments and collective growth.

26

DTI Team Members
collaboratively worked to embody and fulfill DTI's mission.



20

Congresses and Scientific Events

We've proudly participated in 20 congresses, showcasing our dedication to fostering knowledge exchange and creating impactful spaces for collaboration and innovation.

10

Volunteers

We are so grateful to have worked with volunteers on projects supporting DTI's mission.

50 +

International Experts

We are thankful to have collaborated with over 50 international experts in 2023.

57

Countries Impacted

We are proud to have positively impacted 57 countries in 2023.



DTI

DONATION & TRANSPLANTATION INSTITUTE

Donation and Transplantation Institute

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