

DONATION & TRANSPLANTATION INSTITUTE (DTI)

ANNUAL ACTIVITY REPORT

2020



DONATION & TRANSPLANTATION INSTITUTE

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LETTER FROM THE PRESIDENT

Dr. Martí Manyalich

President of the DTI Foundation

Dear Readers,

Evidently, 2020 has been marked by the **SARS-CoV-2 pandemic**, which has affected all of the Foundation's planned activities. It has meant that participants were not able to visit us, nor could experts travel to other countries.

Some **face-to-face training** was possible at the start of the year, but this rapidly and effectively transformed into **digital training** on various innovation topics, such as workshops on different themes related to COVID-19, **interactive simulations, different platforms, systems of connecting with the students** and a series of other things that we are still involved in, related to **robotics, artificial intelligence, virtual reality**, etc. This is an opportunity for improvement, and looking towards 2021, it will help us to position ourselves with great potential to reach many of you.

The topic of **cooperation** was also cut short, as we were unable to make these visits, although plenty of online work was done with different areas, including **India, the Caribbean, the UAE, and the whole South-East Asian area**, also contributing to innovative relationships. That said, we have observed that there has been an increase in donations in these countries, and so we continue in **Trinidad and Tobago, Malaysia, Thailand, and in India**. In other words, the impact of this cooperation, although it was carried out online, has been very positive.

This is thanks to the fact that our **network of professionals** is very extensive and intense. The quality of experience and understanding that DTI professionals have is very high, and not even the pandemic has been able to undermine it. We have **remained connected**. We might not have been able to hug one another, but we continue to be active and involved in networking.



Donation activity with **China** has continued in recent years, and as is usual, we have maintained close collaboration in matters of **research and development, organ preservation and workshops** that have been carried out jointly, also with Guangzhou, with the translation of the TPM manual. We were also pleased to be able to continue holding the **5th China-International Organ Donation Conference (CIODC)** along with the COTDF, which underscores a strong line of continuity and communication with China.

Meanwhile, we have attended all possible virtual congresses held during 2020. And we have become accustomed to this format. We have attended conferences and congresses in **China with the TTS and the ESOT, in Cairo, Colombia, with the STALYC**, etc. Likewise, very interesting round tables have been held, especially on topics related to robotics, COVID-19, and the **MENA Region**, which is composed of the **Middle East and North Africa** and is undergoing development.

All this content, the work of 5 years, has been depicted in a **manual**, now in its **4th edition**, which can, of course, be consulted online but also in print, and which we have sent to all the authors. We would also like to distribute it on the future trips we will surely be able to take in the new era.

It goes without saying that all academic activity with the **University of Barcelona** has been conducted entirely **online**. We have even had to **simulate clinical practices and hospital stays**. This has allowed us to confirm that we have a very cohesive, very intense and knowledgeable team.

Another important tool that has been developed to provide support in relation to COVID-19 is the **i-DTI**. This is a **tele-medicine platform** that offers a second opinion to many of you, just like the **IDOTCOVID: an international registry of transplant recipients** who have been infected by SARS-CoV-2, in order to make machine learning available to transplant teams across the world.

Our community has also grown in terms of **work, communication and resources**, which has allowed us to feel closer to one another, even including patients in different situations, who have written books and given their testimony. All of this is the highest value for DTI: seeing that life goes on after a transplant.

We are faced with a new future, one that is difficult to imagine, but in which, day by day, we will find and maintain great strength in our teams, professionals and participants. I believe that the current situation is only **the beginning of a new way of being and living** which, although different, has not broken our spirit of help and solidarity, nor our eagerness to develop **organ, tissue and cell donation and transplantation** around the world.

ABOUT DTI FOUNDATION

DTI Foundation is a not-for-profit organization formed by a group of internationally renowned experts in organ donation and transplantation.

TRAINING + COOPERATION + INNOVATION + RESEARCH

We are **COMMITTED** to increasing organ donation rates around the world, improving the population's quality of life and promoting regenerative medicine.

Since 1991, we have trained more than **17.000** healthcare professionals from **108** different countries through our **TPM®** educational programme.

As well as providing training, we also **collaborate with organisations on an international level** through the **SEUSA programme**, which presents the best models for organ, tissue and cell donation for transplantation.

This report summarises the main activities of our organisation throughout the year **2020**.

*DTI staff



TRAINING / EDUCATION

From March 2020, the activities planned were interrupted due to the SARS-Cov-2 pandemic. We immediately started working on the digital transformation of our traditional f2f courses, and as a result, the first TPM course adapted to this new reality took place in December for participants from Saudi Arabia.

The activities described below were developed between January and February 2020.

Face-to-face



6th International Workshop on Uncontrolled and Controlled DCD

The **VI International Workshop on Uncontrolled and Controlled DCD**, organized by **Aula Clinic, Hospital Clinic of Barcelona** and **DTI Foundation** was held in January. Two full days of activities included clinical cases and lectures related to practices regarding the results of transplantation for organs like kidney, liver, lung, and heart.



42 participants from **13 countries** also attended four workshops including organ recovery in an animal lab, created with the aim of better understanding the best practices performed in DCD around the world. These professionals have been taught about how this organ donation system for transplantation works in different countries of Europe and new proposals have been made for further improvement.

DCD now contributes to 24% of deceased donors in Spain so local speakers, together with experts from **England** and **Italy** shared with the audience their experience, progress, discussing ways to overcome obstacles, concerns, and possible actions to go forward, emphasizing the importance of this new expertise.



8th Intermediate TPM course in Slovenia

Our long-lasting relationship with **Slovenija Transplant** has resulted in the **8th TPM Intermediate course** addressed to Slovenian health care professionals. Thirty-three participants were trained in this edition, which took place in Logarska dolina from the 29th to the 31st of January.

One new feature of the course program has been the inclusion of the donation after circulatory death (DCD) topic, as they would like to start implementing the **DCD program** in Slovenian hospitals.



30th edition of the Advanced course in Spanish language

The annual edition of the “Curso Superior Internacional en Donación y Trasplante de Órganos y Tejidos” took place from the 11th to the 13th of February. Launched in 1991, this has been the **30th edition** of the course in Spanish language and so far, a total of **1356 participants** from Spain and Latin America have been trained, including the 41 attendees of this year’s course.

Teamwork in small groups and a good educational environment favoured the knowledge acquisition. An innovative element particularly worth mentioning is the collaboration of the social robot “James”, who accompanied the teachers and students during the course.

The course evaluation results were very positive, with an overall average of 4.93 over 5 as a result of the highly motivated group of participants.

Online Training



TPM training has been one of the pioneers in online training, launching the first online course back in **2000**. Now we have made a step forward introducing new technologies such as **virtual reality** and **immersive training**. Through interactive live sessions, virtual games and simulations, students are actively involved in knowledge acquisition.

On the other hand, during the current year DTI has widened its online training offer, currently organized by levels: **Introductory**, **Intermediate**, **Advanced**, and **Master**. Furthermore, some of our online courses have been translated and adapted to Chinese language.

In summary, DTI educational programs—offered both to freelancers and institutions – follow the new online learning trend and allow anyone, anywhere, at any time, to be trained in the field of donation and transplantation.





DTI-International Summer School

The 1st edition of DTI International Summer School was held from the 26th of August to the 5th of September.

This initiative proposed a unique space to learn and discuss the **fundamentals** of organ donation and transplantation through five web-based consecutive sessions.

The **methodology** involved a variety of tools and approaches, including round tables, video analysis, mapping exercises, debates in small group, etc., to promote debate and active participation from attendees.

This first edition counted on 41 participants from 19 countries, and the contribution from international experts in the field, who shared their experience in the context of organ donation, donor detection and evaluation, brain death and donor maintenance, family interview, and living donation and transplantation.



Quality Indicators Workshop - Mexico

DTI Foundation co-hosted the online Workshop:

‘Quality Indicators in the Organ Donation Process’

organized by CENATRA (National Transplant Centre)

and CETOT (State Organ and Tissue Transplantation

Council of Jalisco), Mexico. The event was held in the

framework of the XVIII National Congress of Organ and Tissue Procurement, Donation and Transplantation.

The objective of the Workshop was for the participants to learn how to **identify, measure and analyse** KPIs (Key Performance Indicators) of the organ donation process, which will allow to improve donation processes and increase the transplant rates.

Almost a hundred people from all over Mexico participated in the event. Health specialists from more than 10 different cities in the country were trained. Doctors, surgeons, psychologists, nurses, nutritionists, nephrologists, transplant coordinators and many other specialists from nearly 50 different Mexican centres.



International Workshop in Family Approach for Organ Donation

The **communication skills** required for effective and difficult conversations with the patient relatives get more complicated in the frame of SARS-CoV-2 pandemic. These conversations are best conducted when the staff are specially trained and are able to establish a **therapeutic relationship** with the family. These concepts were the foundation of this course.

The course was delivered online, structured in five sessions along three days led by a worldwide group of experts.

It followed a practical and interactive methodology that gave participants opportunities to practice specific communication skills in structured activities and small group settings. For this reason, attendance was limited to a maximum of 32 participants.

An **immersive learning experience** though VR technology was performed by every student at the end of the course, as a wrap-up exercise. Students were immersed in a room in front of a patient's family and had to deal with them in a realistic environment. They obtained feedback at every step of the conversation, and a final debriefing.



1st TPM online course in Saudi Arabia

DTI Foundation and **Saudi Center for Organ Transplantation** (SCOT) are implementing a project to train healthcare professionals in the Kingdom of Saudi Arabia (KSA) with the goal to improve and consolidate its deceased organ donation program.

KSA is facing a **challenge** in this field and during the past two years they have been developing pilot programs to establish quality indicators that would improve organ donation rates.

This project will include **4 TPM intermediate courses** from September 2020 to June 2021 and train professionals from across the KSA. Furthermore, to reinforce the organ donation programs, the project contemplates the organization of local seminars specially aimed at policy makers and non-health care professionals.

The first TPM course was delivered online from 14th to 16th of December involving around **50 ICU doctors**, transplant coordinators and nurses from more than 30 different hospitals. An interactive and dynamically designed program was led by a renowned group of experts from Spain, Italy, Croatia and Belgium and local faculty from KSA.

TPM Manual – New edition

The **4th edition** of the Transplant Procurement Management Manual has been published this September.

The Manual is the result of joint efforts of DTI Foundation and a remarkable group of national and international authors with well-known and long-standing expertise, comprising all essential aspects of the donation and transplantation process, as well as the latest technical and scientific advances in the field.

The book has been prepared under the editorial direction of **Dr. José María Domínguez Roldán**, Clinical Director Neuro-ICU at Virgen del Rocío Hospital (Seville), and Chairman of Certification Committee of

EDTCO.

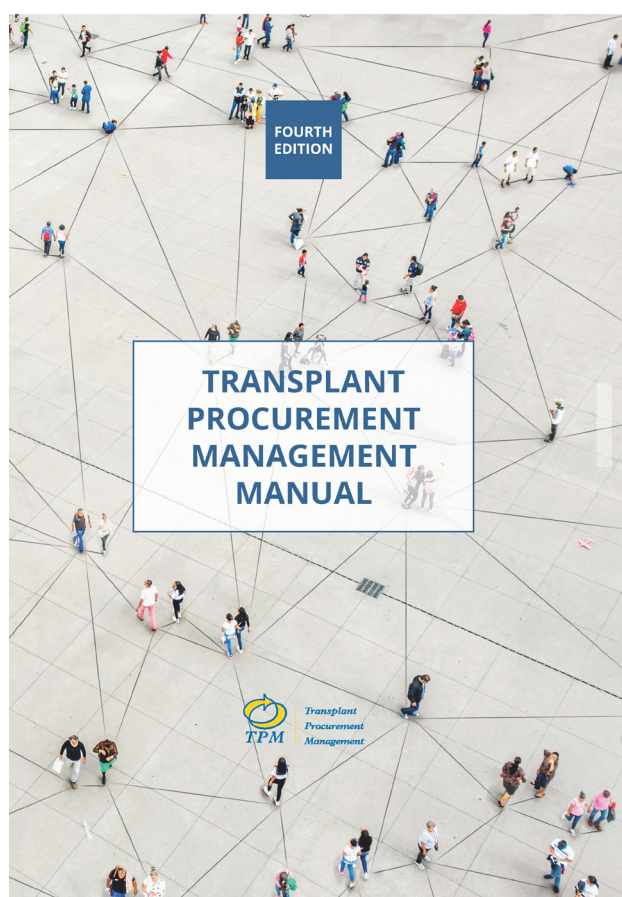
It consists of 20 main chapters and 34 sub-chapters written by more than **40 authors** and endorsed by a group of **International Editorial Advisors**.

This manual is intended to be an extensive handbook which addresses problems and challenges that the organ procurement process encounters, from pragmatic solutions to new trends in this field.

It focuses on the major aspects, duties and professional responsibilities of the **Transplant Procurement Manager (TPM)** throughout all the steps in the donation process comprising: detection, identification and evaluation of possible donors, brain death diagnosis, family approach, donor management, organ viability, retrieval & preservation techniques, organ sharing & allocation criteria either for deceased, living and tissue donation.

Complementary aspects related to ethical considerations and worldwide legislations, biovigilance, management and funding of the organ donation for transplant process as well as international models of organ procurement (Spanish, American, Chinese, Iranian and Croatian models), the role of institutions and scientific societies (WHO, CoE, UNOS and TTS) and the establishment & development of organ donation systems are also included.

It serves as an excellent reference for all professionals involved in organ donation and transplantation and its comprehensive content aims to help them strengthen their competences and motivation to **save** human lives and increase their quality.



Master D&T

DTI Foundation offers the possibility to enrol in two different master programs in an online modality certified by the **University of Barcelona**.

The **International Master in Donation and Transplantation of Organs, Tissues and Cells** (60 ECTS) is a specific Master addressed to students who aim to follow a professional path. The program includes synchronous and asynchronous training with practical simulations and an internship either online or face to face in a prestigious centre. It is a modular program that can be done in different periods.

The **Master in Clinical Investigation** (60 ECTS) is an official Master that offers eight different modalities including the specialty in donation and transplantation of organs, tissues and cells. This master is addressed to students who want to follow a **PhD** program in this field. It is designed to provide the students with knowledge and skills necessary to develop a scientific activity of donation and transplantation process at any step.

The 2019-20 edition of the professional program ended in June with 15 participants from 12 different countries and the research program had 21 participants from 9 different countries.



Modular Program

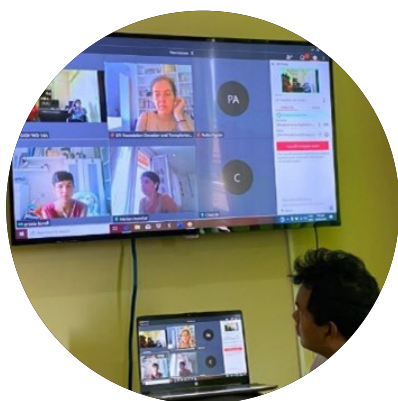
Blended and postgraduate training offered by DTI Foundation in the past years has been updated to an online modality to consolidate the internationality of participants and to promote the most up-to-date and innovative educational methodologies.

DTI offers therefore 4 different online programs accredited with a TPM-DTI diploma equivalent to 10 ECTS: **Organ Procurement, Organ Transplantation, Leadership, Quality and Management in Organ Donation and Transplantation; and Tissue Banking and Advanced Therapies**. Moreover, it can be followed by an internship in centres in Spain, Europe or United States in the different areas of knowledge.

TPM educational offer has been designed to enable any student to follow an academic curriculum that may end up with the Master degree. To obtain the **International Master in Donation and Transplantation of Organs, Tissues and Cells** the student must complete 30 ECTS corresponding to the online training, 15 ECTS corresponding to a virtual internship or 6 weeks of internship face-to-face and 15 ECTS of the Final Master Dissertation



INTERNATIONAL COOPERATION



The ISN-TTS **Sister Transplant Centers Program** is a joint partnership set up between the **International Society of Nephrology (ISN)** and **The Transplantation Society (TTS)** to create new kidney transplant centers and develop existing kidney transplant programs in emerging economies.

Our Foundation, together with the **University of Barcelona**, has been engaged in this program for **five years** now, collaborating with the **South Philippines Medical Center (SPMC)** and recently reaching **Level A**, which is the highest level of partnership.

The **biggest achievement** for this year is the **first deceased donor** in the SPMC. Both two kidneys and corneas were successfully retrieved and transplanted in the SPMC.

Within the next two years another partner will join, **Fundacio Puigvert**, an important center with a strong program in Kidney Transplantation, situated in Barcelona.

Since January 2020, a **Level C** partnership began with the Sri Jayawardenapura General Hospital in **Sri Lanka**. Aiming to establish a **simultaneous pancreas and kidney transplantation program**, first of its kind in this country, a set of surveys were distributed on 4 different levels: National, Hospital, ICU and Organ Procurement Coordinator.

A report will be established once the surveys are analyzed



Trinidad and Tobago

Since 2010, DTI Foundation with the support of **Repsol Foundation**, partnered with the Government of Trinidad and Tobago to train healthcare professionals and follow up the organ donation and transplantation activity.

Although 2020 will be the last year of this partnership, DTI will continue its collaboration with the **NOTU (National Organ Transplant Unit)** and the participant hospital from Trinidad and Tobago. Due to the covid-19 pandemic situation, we have focused on consolidating the training initiatives.

The Organ Donation and Transplantation online course has been accredited by the AACME (Accreditation Council for Continuing Medical Education); awareness courses have been organized in three Universities; and monthly webinars for the healthcare professionals have been scheduled starting in October.

Furthermore, our Executive Director Dr María Paula Gómez participated as a speaker in the 2nd Caribbean Organ Donation and Transplantation Summit, that took place during September 19th-20th. She talked about "The importance of a Caribbean Organ Donation Network".

DTI Foundation would like to thank Repsol Foundation for its long-term support in the Caribbean region.





Development of the Deceased Organ Donation for Transplant Program in Jamaica

In the Caribbean, dialysis is preferable to transplant, and hemodialysis is the most common method to deal with renal failure. According to information from the Jamaica Renal Registry, it is estimated that there are over 2,800 persons with kidney failure.

In this framework and thanks to **TAIEX (Technical Assistance and Information Exchange Instruments of the European Commission)**, the **University Hospital of the West Indies**, the **Ministry of Health and Wellness of Jamaica**, along with **Hospital Clinic of Barcelona** and **DTI Foundation**, are on a drive to bolster the existing services and expand its facilities to treat the demand for organ transplant services within Jamaica and across the region. This will be possible with a deceased organ donation program, that will increase the access to transplant and lighten the burden of the waiting list for dialysis.

The initiative is led by Dr. Adedamola Soyibo, Nephrologist from the University Hospital of the West Indies, who along with two other members of their medical staff, attended the TPM Advanced International Training Course in 2019, beginning a productive relationship between our two countries.

Webinar "Introduction to the Leading Practices in Organ Donation" held on June 25th.



India

Eurofins Foundation is supporting DTI's project **"Save One Million Lives"**

The aim of this project is to help the creation of the deceased organ donation program in developing countries, where patients with chronic terminal illnesses are the main concern.

Thanks to **Eurofins Foundation**, we were able to help several Indian regions to develop their deceased organ donation program.

One example is the Thiruvananthapuram Medical College in the Kerala region, with whom we have weekly follow up virtual meetings, to help them increase the activity of the organ donation team.

Developing this kind of program will increase the transplant rates, which means that we will give a lot of people in the waiting list a second chance in life.



Mexican delegation visit

From the 10th to the 14th of February, we had a visit of a delegation from the Mexican Institute of Social Security, the XXI Century National Specialty Hospital, and the Dr Victorio de la Fuente Narvaez High Specialty Medical Unit. The delegation was led by Dr. Erika Rivera, Chief of the Donation Area in the **Mexican Institute of Social Security**.

Their visit started in Bellvitge Hospital, where they met with Dr Eva Oliver and Dr Gabriel Moreno from the Transplant Coordination office. Afterwards, they visited the Catalan Transplant Organization (OCATT) where they learned about from the first Transplant Office created in Spain and its daily work with the hospitals network and the patient lists management. From the 11th to the 13th of February, the members of the delegation attended our 30th Advanced International Course in Organ and Tissue Donation and Transplantation (Spanish edition). They finalized the visit in Hospital Clinic of Barcelona, where they learned about the Nephrology Department, the Transplant Coordination Office and the Intensive Care Unit.



United Arab Emirates

DTI Foundation has been collaborating with **Abu Dhabi Health Services (SEHA)** for the past five years to develop the deceased organ donation activity, including formative and dissemination actions.



On the 6th of February 2020, a workshop on “Key Performance Indicators for Organ Donation” was developed together with SEHA. The workshop counted with the participation of more than 130 healthcare professionals from the regional Service providers’ network.

Three virtual talks took place in the past months, one with the SKC (SEHA Kidney Care), and two others which SEHA organized with the whole hospital network. Our colleagues Dr. María Paula Gómez and Dr. Marián Irazábal spoke about the organ donation process and the covid-19 infection.



In the last trimester of the year, SEHA has scheduled, along with DTI Foundation, **monographic webinars** for healthcare professionals. These training sessions have been focused on “COVID impact in Organ Donation and Transplant”.

On December 6th – 16th, a team of DTI experts visited several hospitals in Abu Dhabi and Al Ain. The aim of the visit was to assess the implementation of the of the JAWDA KPIs Service Providers program to achieve the quality goals stipulated by the Abu Dhabi Health Department in collaboration with SEHA.

The experts met with different stakeholders in each hospital, such as the CEO, Medical Director, Head of the ICU, Head of the Emergency Department, ICU Nurse Supervisor, Nurse Supervisor, Head of Quality Department, Transplant Coordinator and Head of the Transplant Team. The hospitals’ protocols and registries required for the organ donation process were reviewed, and corrective measures were suggested to contribute to the continuous quality improvement plan.

This initiative has been greatly welcomed for the local hospitals, and it will enable them to enhance possible donor detection to finally increase organ donation and transplantation rates in Abu Dhabi.

EU PROJECTS

ODISSeA – Organ Donation Innovative Strategies for Southeast Asia (2019-2021)



ODISSeA - Organ Donation Innovative Strategies for Southeast Asia is an Erasmus+ project funded by the European Commission under the program “Erasmus+ Capacity Building in Higher Education”. The main objective is to design and implement an academic postgraduate program in organ donation in 8 universities from Malaysia, Myanmar, Philippines and Thailand (SeA countries) in accordance with the European Space for Higher Education guidelines. The project is the result of the cooperation of fourteen institutions from Southeast Asia (SeA) and the European Union. From the European side, the University of Barcelona is the leader and organizer of the project, together with the University of Bologna, Italy, University of Zagreb Medical University, Croatia, DTI Foundation, Spain, and Dinamia S. Coop., Spain.

In January, the Postgraduate Program on Organ Donation (PPOD) started with 304 participants from Malaysia, Myanmar, Philippines and Thailand. The PPOD is organized through a variety of educational

strategies employed such as microlearning capsules, webinars, online modules, local seminars, on-the-job improvement projects, awareness events and international assessment seminars.

Due to the **COVID-19 pandemic** several activities were postponed or delayed, and many PPOD participants became front-liners. Despite the challenging circumstances, ODISSeA Consortium agreed on several measures to adapt to the participants needs and maintain their engagement. These measures included: creating a space in the Postgraduate platform, with a “special Webinar” on “Organ donation and transplantation in the current COVID-19 situation: Spanish recommendations” by Dr. Marián Irazábal, an Art Competition for all team members, faculty and participants, and a reschedule of the Postgraduate calendar.

The midterm meeting was organized virtually in September, with the objective to review the obtained results during the first year, strengthen ongoing commitment and determine actions for the remaining lifetime of the project.

For more information, visit www.odisseaproject.eu



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



TEODOR – Trans-European Educational initiative in Organ Donation and Transplantation (2020-2023)

TEODOR – Trans-European Educational initiative in Organ Donation and Transplantation, is an Erasmus+ project funded by the European Commission under the program “KA2 - Strategic partnerships in the field of education and training”.

This project, led by Pauls Stradins Clinical University Hospital, Latvia will be developed between 2020 and 2023, **aiming at designing and piloting** a new and innovative training program on organ donation and transplantation for physicians & relevant healthcare personnel from Latvia (Pauls Stradins Clinical University Hospital and University of Latvia), **Czech Republic** (Fakultní nemocnice Královské Vinohrady), and **Lithuania** (National Transplant Bureau under the Ministry of Health). The training will be implemented with the support of **Spain** (University of Barcelona and DTI Foundation) and **Sweden** (Skane Lans Landsting), given their expertise in organ donation and transplantation.

TEODOR will address **Key Professionals** for organ and tissue donation and for organ transplantation.

The project started on September 1st, 2020 and the Kick-off meeting was held virtually on October 20th, 2020, with representatives from each partner organization.

The first phase of the project involves data analysis before the training to diagnose the current situation and to **evaluate the impact** before and after TEODOR's implementation. The training will involve a Train the Trainers program and the TEODOR modular multilevel blended training divided in two modules: one for **Donation Professionals and one for Transplantation Professionals**.



Co-funded by the
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INNOVATION & RESEARCH

Guided by its mission to contribute to organ donation and transplantation around the world, DTI Foundation has always played an active role in the field of **research**. This commitment is expressed through promotion and participation in different international cooperation projects. As a result, DTI regularly participates in medical and scientific congresses where we present the results obtained from those projects.

During this year 2020, despite the difficulties caused by the global health situation, DTI has presented **14 abstracts** and several innovation projects at international conferences. The most relevant ones from this year are grouped into the following different lines of research:

IMPACT OF TRAINING HEALTH PROFESSIONALS IN DONATION

- Máster oficial en Donación y Trasplante de Órganos, Tejidos y Células. Análisis 2010-2019 (A. Coll, **SET 2020**)
- EUDONORGAN-Innovative European project training and social awareness for increasing organ donation (M. Manyalich, **TTS 2020**)

EFFECT OF THE TRANSFER AND ADAPTATION OF THE BEST DONATION PRACTICES IN NEW TERRITORIES

- **i-DTI**: An electronic consultancy platform between professionals in the field of organ donation and transplantation (E. Arredondo, **TTS 2020**)
- Certification of a **Quality Program** for an Organ Donation Hospital Unit: The United Arab Emirates Experience (MP. Gómez, **TTS 2020**)
- Survey on Leadership, Management, Quality, and Innovation in Organ Procurement for the Self-sufficiency in Organ Donation of the **One Belt & One Road** area (C. Ballesté, **TTS 2020**)
- Implementation Results of the **First Hospital-Based Organ Procurement Unit** in Kerala (India) (MP. Gómez, **TTS 2020**)
- QUORUM: IT tool for Organ Donation Quality System management. Pilot program in the Kingdom of Saudi Arabia (E. Arredondo, **TTS 2020**)
- **Observations on 24-hour ex situ normothermic liver perfusion** (A. Hessheimer, **2020**)
- Since the end of 2019, DTI Foundation has participated in this research project led by the **Hospital Clínic de Barcelona** and the **Guangdong Shunde Industry Design Institute** (Guangdong Shunde Innovative Design Institute).



COVID-19 WEBINARS

- For the third consecutive year, and in collaboration with the **University of Barcelona** and the **Hospital Clínic**, the DTI Community has organized 9 online webinars related to different donation and transplantation current topics. In this sense, it is worth highlighting the importance and **high impact** of the webinars held from March on, since they addressed the donation and transplantation of organs, tissues, and cells situation during the **Covid-19 pandemic**. These webinars are available on the DTI Community website.

TECHNOLOGY INNOVATION PIONEERS AWARD

- From the 4th to the 5th of February, Estephan Arredondo represented DTI Foundation at **Technology Innovation Pioneers (TIP) Summit 2020** in Abu Dhabi. The event was organized by the UAE Ministry of Economy and the UAE Department of Economic Development with the aim to stimulate the development of technology and innovation in the region.

- **“Donor Signalling System:** an innovative tool to effectively alert medical teams to possible organ donor scenario” project, submitted by DTI Foundation received an award in the category **“Use of big data applied to health care ”** as a tool to contribute to the improvement of global healthcare systems.

DTI Foundation in the TTS Congress



Further to the abstracts presented in **The Transplantation Society-TTS virtual congress** (September 13-16), DTI co-organized a series of online networking sessions including the **“MENA”, Middle East and North of Africa** which gathered 121 participants from more than 10 countries from that area.

The **“Deceased Organ Donation in COVID Times”** session counted with the participation of key worldwide leaders and at the same time we presented the **IDOTCOVID** database, **the International Database on Organ Donation and Transplantation-COVID19** that will assist transplant clinicians in making medical decisions when treating covid+ transplant patients.

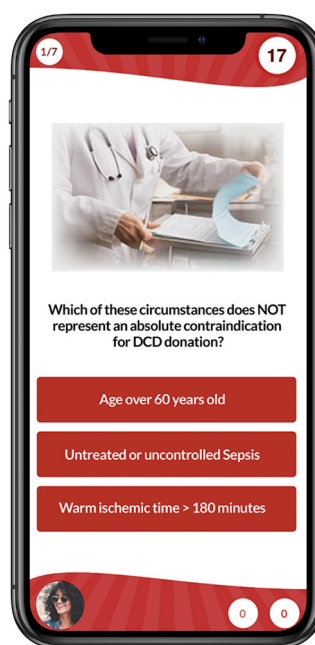
More info in www.idotcovid.org

The objective of the **“New technologies applied to organ donation”** session was to offer an up-to-date insight regarding how new technologies could assist our daily work. **Twenty institutions** from around the world participated as panellists talking about **telemedicine platforms, management software, database & artificial intelligence, robotics** and novelties in **perfusion machines**.

One example of these **new technologies** is the **electronic consultancy platform I-DTI**, an online tool that allows knowledge exchange between healthcare professionals involved in organ donation and transplantation. It was launched internationally at the congress and the preliminary results of the i-DTI beta version implementation were presented during the Education abstract session. More info (<https://www.i-dti.com>)

DTI CHALLENGE GAME

Together with Compettia/Atrivivity Co., we designed an interactive App that allows participants to challenge each other through organ procurement, transplantation and COVID questions and many congress attendants could learn and have fun at the same time.



CIODC Guangzhou



The **5th China-International Organ Donation Conference** was held from December 18th to 20th, 2020 co-organized by China Organ Transplantation Development Foundation (COTDF), China Organ Donation Administrative Center (CODAC), DTI Foundation, the Middle East Society for Organ Transplantation (MESOT) and supported by China National Health Commission and the Red Cross Society of China.

The event gathered 600 participants from China, who attended the Conference in Guangzhou, and over 80 international experts in the field of organ and tissue donation and transplantation, who join virtually.



On December 18th a Pre-Conference Meeting and Workshop on Tissue Banking took place about the International experience and Chinese perspective on the construction of tissue bank.

In addition, on December 20th was released the **Chinese edition** of the Transplant Procurement Management Manual in a launching ceremony.

IDOTCOVID- International Database on Organ Donation and Transplantation – COVID-19

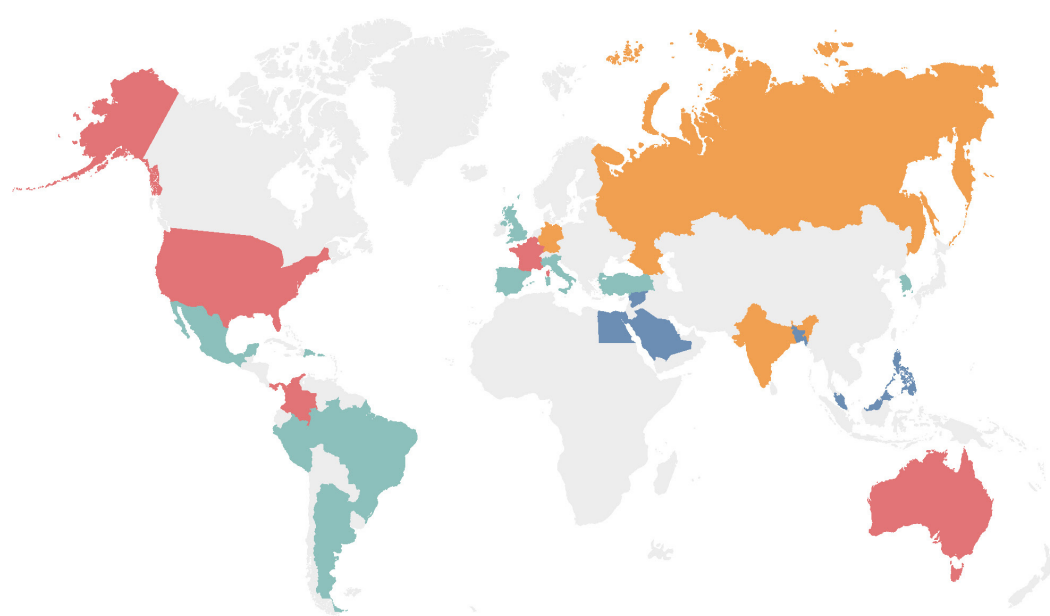
A cooperation between IDIBAPS and DTI resulted in the design and development of an **International Database of Solid Organ Transplant (SOT) recipients** COVID-19 positives: **IDOTCOVID**.

IDOTCOVID is a real-time, open-access, **global database**, that provides reliable information towards transplantation activity and outcomes of **SOT recipients** infected with COVID-19 extrapolating so, large-scale conclusions that facilitate the management of this high-risk population. Even more important, and based on more than **100 different variables**, is the development of a machine learning algorithm that, once the patient data has been entered, is able to provide the expected outcomes related to every type of patient according to the different strategies available, empowering the clinical decision-making process.

Participating centres have free access to the database and real-time analysis to optimize outcomes based on individual patient data. In the same way, all collaborating transplant centres that perform follow-up of transplanted patients are provided with accurate information to gain more experience in managing these patients based on the evidence-practices around the world.

By the end of 2020, IDOTCOVID database counts on more than **1000 SOT recipients**, introduced by **80 transplant** centres from **13 countries** around the world.

More info at www.idotcovid.org



● No reported cases ● Pending authorization ● Pending answer ● Reported cases

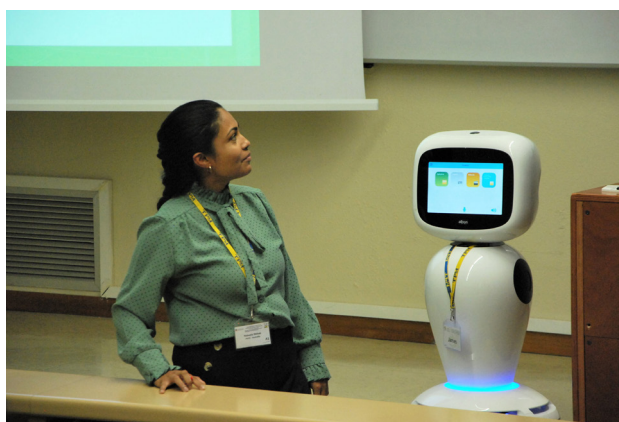
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 **DTI**
DONATION & TRANSPLANTATION INSTITUTE

Robotics



DTI Foundation, guided by its commitment to **innovation** and development of new technologies, has begun to incorporate robotics systems in some of its projects in collaboration with Alisy a leading company in innovation and robotics, working together to explore new opportunities in this area.

This year, after the successful presentation of the *James* robot in the 2018 and 2019 TPM course editions, *James* has been included as a teaching assistant in the face-to-face courses of the 16th edition of the International Master in Organ Donation and Transplantation, Tissues and Cells. *James* has proven to be very useful in complementing the feedback of the experts thanks to his abilities to reproduce audio-visual material, ask questions and interact with students. Undoubtedly, *James*'s training skills will progressively increase in the coming years, making it an essential tool in many of the Foundation's training activities.



At the same time, DTI is promoting new projects in which the advantages offered by social robotics can bring great benefits. In this regard, a collaboration agreement was reached between DTI and **Hospital Clínic of Barcelona** to introduce the *James* robot in the Department of Psychiatry and Child and Youth Psychology of this centre.

Nowadays, this robot operates as a resident of the hospital department, carrying out communication, management, and administration functions. Given the current health crisis, reducing medical and nursing staff's workload with certain routine tasks has become a priority, allowing them to focus on the care of a greater number of patients.

Looking ahead, DTI Foundation will continue to bet on incorporating robotics in its activities as part of different innovative solutions. In an era where new technologies are gaining ground, the use of these types of tools will generate **new opportunities** that will allow the development of donation and transplantation programs at all levels.

DTI SOCIAL

DTI *Community*



Heroes project with Garbí school

The **Heroes project** is part of the development of the ability for coexistence and commitment, and the ability for respect and solidarity of the educational purposes of the Garbí Schools. It is about students being able to make **responsible commitments** for a harmonious coexistence, interacting in different social and cultural contexts, reinforcing decision-making committed to the world around them and acting with respect and solidarity.

Our Executive Director, Dr María Paula Gómez gave a lecture about organ donation and transplantation. After that, the students were divided in small groups and designed an awareness project on organ donation. The result were short stories, role-playing, posters, infographics, and videos.



DTI Social grant given to a Mexican doctor

Dr Salvador Martínez Bernal received a **scholarship** during the STALYC 2019 congress in Mexico to attend the 30th Advanced International Training Course on Donation and Transplantation of Organs, Tissues in its Spanish edition, that took place in February 2020 in Barcelona, Spain.

Besides attending the course, he spent two weeks as an intern in Hospital Clinic of Barcelona collaborating at the Transplantation Office gaining experience as a Transplant Coordinator.

New covid-19 section on DTI Community website

Due to the ongoing global situation regarding COVID-19, we have created an **entire section** with important information and resources that can provide visitors with the latest updates, indications, and useful facts. These resources are focused on serving our Community during this challenging period. The safety and well-being of everyone is our priority.



Patient talks

DTI Community organizes monthly **Patient Talks**, a series of monographic webinars with the aim to engage with transplant patients. In these sessions we share initiatives of patients' associations in different countries, testimonies about life after a transplant, as well as doctors speaking about specific topics.

During 2020, we have talked about "The role of patient associations in organ donation and transplantation", "MOD – A new type of advocacy to increase organ donation in Sweden" and "The value of sport and physical activity", among others. 104 attendees have already registered to our past talks.



Webinars

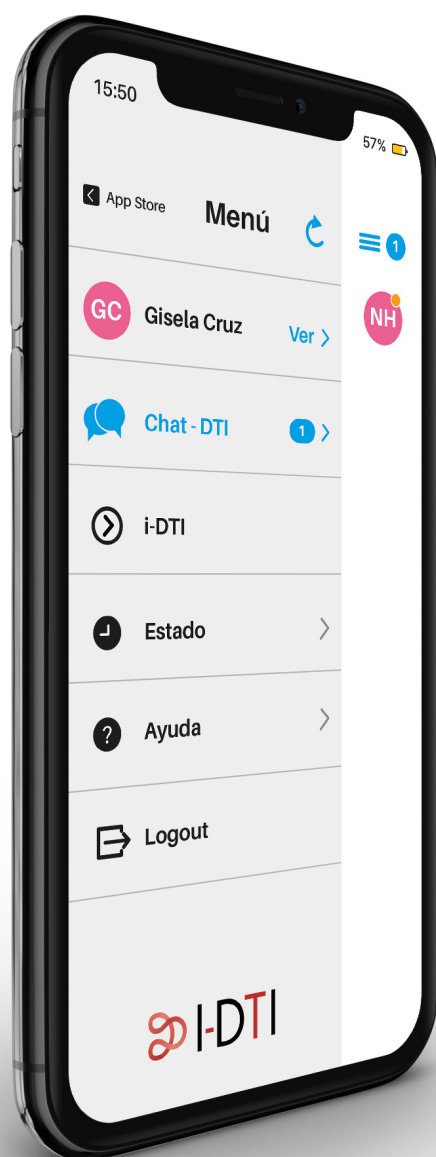
In DTI Community, we also help co-organize webinars alongside the **University of Barcelona (UB)**. This year, in line with the public health crisis that we were all living in, webinars have been focused on explaining how we can adapt the system of organ and tissue donation and transplantation in the current **COVID** situation. We have had the pleasure to have as speakers, healthcare professionals from around the world, such as Feng Huo and Qifa Ye (China), Alan Leichtman (United States), Edison Duque (Colombia), Marian Irazabal (Spain) and Marco Sacchi (Italy).


All these contents related to DTI Community are available at www.dticommunity.org

WWW.DTICOMMUNITY.ORG

"IS THIS A SUITABLE DONOR? HOW DO I MANAGE THIS CASE?"

FACING UNCERTAIN SCENARIOS IN ORGAN DONATION AND TRANSPLANTATION?



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