

DECEMBER 1-2  
2023  
BOLOGNA

# ORGAN TRANSPLANTATION FROM DCD AND THE MANAGEMENT OF MULTIPLE ORGANS FAILURE INCLUDING REGENERATIVE MEDICINE

CON IL PATROCINIO DI



Solid organ transplantations represent a well-known strategy to manage different organ failures, making feasible for many patients to survive, changing their lives for the best. The University of Bologna and the IRCCS S.Orsola-Malpighi Hospital offer the opportunity to receive this treatment since more than 50 years: while the clinical and scientific staffs changed over the decades, our main objective stayed the same: always to improve the quality of cure & care.

During the 10 years, we had the opportunity to explore new approaches and pathways intended to expand the donor pool, and to improve recipients' outcome. The introduction and evolution of transplantation from DCD donors changed our perspective, offering an important chance of treatment for many patients suffering from organ failure. The present meeting is aimed to share updates and experiences, and to discuss the clinical challenges still associated with the utilization of these type of grafts. We are going to offer a format including, for most of the sessions, ten-minute-long talks, followed by a 5 minute-long discussion, with the purpose to stimulate debate and exchange of ideas between the speakers, among major national and international experts in this rapidly evolving field of research and clinical practice, but also to favour the interaction with the attendees. The meeting will bring together physicians, perfusionists, nurses, and the whole team of allied healthcare professionals who daily contribute to the success of the major and most common solid organ transplantations, and, in the intentions, will allow sharing updates and experiences covering liver, kidney, heart, and lung transplant. A second section of the meeting will explore the future directions in the field, and the possible clinical application of regenerative medicine in the setting of organ failure and organ transplantation. We hope everyone will enjoy the meeting and give their contribution, to ensure a high scientific profile.

**DECEMBER 1, 2023**

08.00 **Introduction to the Meeting**  
Prof. Matteo Ravaioli - Dr. Antonio Siniscalchi  
Prof. Giovanni Molari  
Dr. Chiara Gibertoni  
Dr. Alessandro Nanni Costa  
Prof. Marco Seri

### **LIVER AND KIDNEY SESSION**

#### **WHAT DID WE LEARN AND WHAT HAVE WE STILL TO LEARN ABOUT DCD LIVER TRANSPLANTATION?**

Moderators: Prof. Luciano de Carlis and Prof. Matteo Ravaioli

09.00 **Which data during NRP should contraindicate the use of DCD liver for transplantation?**  
Dr. Damiano Patrono  
comment 5 min Dr. Duilio Pagano

09.20 **Ex-vivo strategies for DCD liver grafts: shorter CIT, HOPE, normothermic perfusion or a combination of these? Available evidence and how to decide**  
Dr. Riccardo De Carlis  
comment 5 min Prof. De Simone Paolo

09.40 **Anesthesiologic management of donor and recipient in the DCD setting**  
Prof Gianni Biancofiore  
comment 5 min Dr. Andrea De Gasperi

10.00 **Italian experience and evolution of the DCD**  
Dr. Silvia Trapani  
comment 5 min Prof. Renato Romagnoli

10.20 **Discussion**

Moderator: Prof. Matteo Cescon

10.40 **Evolution of liver DCD in Switzerland and in Europe**  
Prof. Philip Dutkowski

Coffee break e poster session 30 min

**WHAT DID WE LEARN AND WHAT HAVE WE STILL TO LEARN ABOUT  
DCD KIDNEY TRANSPLANTATION?**

Moderators: Prof. Giuseppe Grandaliano and Prof. Andrea Buscaroli

11.30 **Which data during NRP should contraindicate the use of DCD kidney for transplantation?**

Prof. Quirino Lai  
comment 5 min Prof. Gabriele Donati

11.50 **Kidney biopsy in DCD: when & why?**

Dr. Alessandro Del Gobbo  
comment 5 min Prof. Umberto Maggiore

12.10 **Postoperative management of DCD recipients:  
potential complications & how to manage**

Prof. Giorgia Comai  
comment 5 min Dr. Rossana Caldara

12.30 **Immunosuppression in complex cases and how to manage DCD recipients**

Prof. Gaetano La Manna

12.50 **Discussion**

Moderator: Prof. Antonia D'Errico

13.10 **Evolution of kidney DCD in Sweden and in Europe**

Prof. Tomas Lorant

13.30 Lunch symposium

Moderator: Prof. Ugo Boggi

**Italian school for DCD**

Prof. Adriano Peris

**How to train transplant surgeon**

Prof. Jacopo Romagnoli

**Exploring the potential of HOPE: Machine Perfusion and DCDs - a Success Story from Bologna**

Prof. Matteo Ravaioli

**LUNG AND HEART SESSION**

**WHAT DID WE LEARN AND WHAT HAVE WE STILL TO LEARN ABOUT  
DCD LUNG TRANSPLANTATION?**

Moderators: Prof. Gaetano Gargiulo and Prof. Lorenzo Rosso

14.30 **Logistic model and organization for DCD in Emilia-Romagna**

Dr. Nicola Alvaro

14.45 **Anesthesiologic management of the donor during DCD lung procurement**

Prof. Vanni Agnoletti  
comment 5 min Dr. Massimo Baiocchi

15.00 **Anesthesiologic management of the recipient during lung transplantation from DCD**

Dr. Valentina Roncarati  
comment 5 min Dr. Andrea Castelli

15.15 **Bologna and Italian results with DCD**

Dr. Filippo Antonacci  
comment 5 min Prof. Lorenzo Rosso

15.30 **Surgical management of lung transplantation from DCD**

Dr. Pietro Bertoglio  
comment 5 min Dr. Stefania Camagni

15.45 **Postoperative management of DCD recipients:  
potential complications & how to manage**

Dr. Elena Salvaterra  
comment 5 min Dr. Piero Candoli

16.00 **Discussion**

**SESSION**

Moderators: Dr. Domanico Pinelli and Prof. Nazzareno Gallie

16.20 **Future projects for lung transplantation from DCD**

Prof. Niccolò Daddi

Coffee break e poster 30 min

**DECEMBER 1, 2023**

## **HEART FROM DCD MANY QUESTIONS**

Moderators: Prof. Davide Pacini and Dr. Massimo Cardillo

- 17.00 **Experimental background to develop heart transplantation from DCD**  
Dr. Luca Botta
- 17.15 **Clinical protocols and results from DCD Heart transplantation worldwide**  
Dr. Sofia Martin-Suarez
- 17.30 **Protocol for DCD Heart transplantation in Italy**  
Prof. Massimo Boffini
- 17.45 **DCD Heart procurement in hospitals without cardiac surgery program: feasible?**  
Dr. Andrea Nanni
- 18.00 **Discussion and round table**

Moderator: Prof. Luciano Potena

Discussants with all presenters and Dr. Cerchierini, Dr. Antonio Siniscalchi, Dr. Giuseppe Tarantino, Dr. Gabriela Sangiorgi, Dr. Lorenzo Maroni

**DECEMBER 2, 2023**

## **MANAGEMENT OF MULTIPLE ORGANS FAILURE AND REGENERATIVE MEDICINE**

### **DCD AND MULTIPLE ORGANS FAILURE**

Moderators: Dr. Antonio Siniscalchi and Dr. Cristina Morelli

- 08.30 **What do we know and what do we need to improve for A-NPR e TA-NPR?**  
Dr. Marinella Zanierato
- 08.45 **Strategies to decrease warm ischemic time and improve NRP**  
Dr. Francesco Procaccio
- 09.00 **Ultrasound during NRP**  
Dr. Amedeo Bianchini
- 09.15 **Pitfalls & troubleshooting during NRP**  
Dr. Marta Velia Antonini
- 09.30 **ECLS and complex recipients**  
Dr. Cristiana Laici
- 09.45 **DCD: Different risk of infections?**  
Prof. Maddalena Giannella
- 10.00 **Infections, TDM and DCD recipient**  
Dr. Milo Gatti
- 10.15 **Discussion and round table**
- Moderator: Dr. Andrea De Gasperi
- Discussants with all presenters and Dr. Massimo Del Gaudio, Dr. Matteo Serenari, Dr. Andrea Laurenzi, Dr. Chiara Zanfi, Dr. Federica Odaldi, Dr. Elisabetta Pierucci, Dr. Erika Cordella
- 11.00 Coffee break

**REGENERATIVE MEDICINE**

Moderators: Prof. Matteo Ravaioli and Prof. Fabio Piscaglia

- 11.30 **DCD donation at the intersection between transplant and regenerative medicine**  
Prof. Giuseppe Orlando (video call)

**EXTRACELLULAR VESICLES AND CLINICAL PERSPECTIVE**

Moderators: Prof. Massimiliano Bonafe and Prof. Gianandrea Pasquinelli

- 12.00 **Mesenchymal stem cells, extracellular vesicles, and organoids: pro & con during ex-vivo treatment for transplantation**  
Prof. Stefania Bruno
- 12.15 **How to manage clinical studies involving cell therapy during ex-vivo perfusion**  
Prof. Teresa Rampino
- 12.30 **Clinical applications of regenerative medicine during organ failure**  
Prof. Gabriele Matteo D'Uva
- 12.45 **Extracellular vesicles in regenerative medicine**  
Prof. Lorenza Lazzari
- 13.00 **Discussion and round table**
- Moderator: Prof. Francesca Bonifazi
- Discussants with all presenters and Dr. Francesco Vasuri, Dr. Maurizio Baldassarre, Dr. Giuliana Germinario

**Conclusions meeting**

Prof. Matteo Ravaioli - Dr. Antonio Siniscalchi

**SEDE****AEMILIA HOTEL**Via Zaccherini Alvisi, 16  
40138 Bologna**MODALITÀ DI PARTECIPAZIONE**

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