FIRST INTERNATIONAL WORKSHOP ON LIVER MACHINE PERFUSION

Centro Congressi
Unione Industriale Torino
June 10-11, 2022
RATIONALE

The introduction of machine perfusion as a preservation modality alternative to static cold storage has prompted a veritable revolution in liver transplantation, leading to an evolution in clinical practice, widening therapeutic horizons and paving the way for new treatment possibilities, for both patients and liver grafts. The possibilities of ex-situ organ treatment or “reconditioning” are manifold and include the administration of antibiotics, immunoglobulins or other drugs to prevent the transmission of donor-derived infections.

The current scenario is characterized by a plurality of different approaches that differ with regards to timing, technical modalities, and logistical implications. While robust data are emerging about the respective benefits and drawbacks of different machine perfusion modalities, clinical implications, potential developments and new applications of this technology are heatedly discussed.

After these last two years during which COVID-19 pandemic has greatly limited the opportunity to organize in-person meetings, this event set out as an opportunity to gather top experts in the field to discuss the state of the art in liver machine perfusion, real-life clinical indications, implications for immunosuppressive therapy, and future developments of the technology.
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<th>Time</th>
<th>Session 3</th>
<th>Title</th>
<th>Speaker(s)</th>
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<td>17:15-17:30</td>
<td>Normothermic regional perfusion: technical aspects and organ evaluation</td>
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<td>Alberto Zanella, Marinella Zanierato</td>
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<td>17:30-17:45</td>
<td>Normothermic regional perfusion and machine perfusion in liver transplantation with donors after circulatory determination of death</td>
<td>Normothermic regional perfusion and machine perfusion in liver transplantation with donors after circulatory determination of death</td>
<td>Andrea Schlegel, Paolo Muiesan</td>
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<td>17:45-18:00</td>
<td>Outcome of Maastricht category 3 grafts with long functional ischemia time</td>
<td>Outcome of Maastricht category 3 grafts with long functional ischemia time</td>
<td>Luciano De Carlis, Riccardo De Carlis</td>
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**Session 1**

**Clinical applications of liver machine perfusion**

Chairpersons: Luciano De Carlis, Cristiano Quintini

13:00-13:15
- Impact of machine perfusion introduction on liver transplant activity in Italy: present and future
  Silvia Trapani, Massimo Cardillo

13:15-13:30
- Implementation and results of Innsbruck normothermic machine perfusion program
  Felix Krendl, Stefan Schneeberger

13:30-13:45
- Dual hypothermic oxygenated machine perfusion for livers from extended-criteria brain-dead donors improves graft survival: an inverse probability of treatment weighting analysis
  Damiano Patrono, Renato Romagnoli

13:45-14:00
- Hypothermic oxygenated machine perfusion for livers from extended-criteria brain-dead donors improves graft survival: a randomized controlled trial
  Matteo Ravaioli, Matteo Cescon

**Session 2**

**State of the art in liver machine perfusion**

Chairpersons: Patrizia Burra, Renato Romagnoli

14:00-14:15
- Hypothermic oxygenated machine perfusion for livers from extended-criteria brain-dead donors: results, limits and future directions
  Zoltan Czigany, Georg Lurje

14:15-14:30
- Outcomes and risk factors of graft loss in liver transplantation from cDCD donors treated with postmortem normothermic regional perfusion in Spain
  Constantino Fondevila
**Day 2 | Saturday, 11th June 2022**

**Session 4** Viability assessment and other controversial issues in machine perfusion

*Chairpersons:* Salvatore Gruttadauria, Paulo Martins

**9:00-9:15** Viability assessment during NMP
Hynek Mergental, Dariusz Mirza

**9:15-9:30** Viability assessment during hypothermic oxygenated machine perfusion
Janina Eden, Philipp Dutkowski

**9:30-9:45** Perfusate analysis during normothermic machine perfusion: beyond the routine
Andras Meszaros, Stefan Schneeberger

**9:45-10:00** Beyond early allograft dysfunction: how to assess liver injury and function after ex-situ perfusion?
Daniele Dondossola, Paolo Muiesan

**10:00-10:15** Hypothermic oxygenated machine perfusion for fatty liver grafts
Richard Sousa da Sousa, Philipp Dutkowski

**10:15-10:30** Dual hypothermic oxygenated machine perfusion as a tool to prolong preservation time
Robert J. Porte, Isabel M.A. Brüggenwirth

**10:30-11:00** Coffee break

**Session 5** Perspectives in machine perfusion

*Chairpersons:* Umberto Cillo, Federico Genzano Besso

**11:00-11:15** Defatting during normothermic machine perfusion
Carlo Ceresa

**11:15-11:30** Donor-derived infections and NMP: threat or opportunity?
David Nasralla

**11:30-11:45** In-situ isolated normothermic liver chemoperfusion
Tamsyn Clark

**11:45-12:00** Upfront versus end-ischemic hypothermic oxygenated machine perfusion: time for a paradigm shift?
Andrea Schlegel

**12:00-12:15** Extracellular vesicles from human liver stem cells to mitigate ischemia-reperfusion injury during normothermic machine perfusion
Nicola De Stefano, Giovanni Camussi

**12:15-12:30** Liver preservation: from the pig to humans
Nicholas Gilbo, Diethard Monbaliu

**12:30-12:45** Biliary organoids and cholangiocyte repair during normothermic machine perfusion
Fotios Sampaziotis, Christopher JE Watson

**12:45-13:00** Hepatocellular carcinoma recurrence, rejection and immunosuppressive therapy after dual hypothermic oxygenated machine perfusion
Federica Rigo, Damiano Patrono
Science secretariat

Renato Romagnoli
Professor of Surgery
Head, Liver Transplant Center
University of Turin
Italy

Faculty

Vatche G Agopian, Los Angeles
Alfonso W. Avolio, Roma
Isabel M.A. Brüggenwirth, Groningen
Patrizia Burra, Padova
Giovanni Camussi, Torino
Massimo Cardillo, Roma
Carlo Ceresa, Oxford
Matteo Cescon, Bologna
Umberto Cillo, Padova
Tamsyn Clark, Oxford
Zoltan Czigany, Aachen
Luciano De Carlisi, Milano
Riccardo De Carlisi, Milano
Paolo De Simone, Pisa
Nicola De Stefano, Torino
Daniele Dondossola, Milano
Philipp Dutkowski, Zurich
Janina Eden, Zurich
Constantino Fondevila, Madrid
Peter J. Friend, Oxford
Federico Genzano Besso, Torino
Davide Ghinolfi, Pisa
Nicholas Gilbo, Leuven
Salvatore Gruttadauria, Palermo
Zhiyong Guo, Guangzhou
Felix Krendl, Innsbruck

Georg Lurje, Berlino
Malcolm P. MacConmara, Dallas
Paulo Martins, Worcester-USA
Hynek Mergental, Birmingham
Andras Meszaros, Innsbruck
Dariusz Mirza, Birmingham
Diethard Monbaliu, Leuven
Paolo Muiesan, Milano
Xavier Muller, Lyon
David Nasralla, London
Damiano Patrono, Torino
Robert J. Porte, Groningen
Cristiano Quintini, Cleveland
Matteo Ravaioli, Bologna
Federica Rigo, Torino
Renato Romagnoli, Torino
Mauro Salizzoni, Torino
Fotios Sampaziotis, Cambridge
Andrea Schlegel, Milano
Stefan Schneeberger, Innsbruck
Richard Xavier Sousa Da Silva, Zurich
Silvia Trapani, Roma
Rianne Van Rijn, Groningen
Christopher JE Watson, Cambridge
Alberto Zanella, Milano
Marinella Zanierato, Torino
GENERAL INFORMATION

CONGRESS VENUE
Unione Industriale Torino
Via Vincenzo Vela, 17
10128 Torino (Italy)

CME PROVIDER
The event CME RES 38-346788 has been granted no. 8 CME credits.
Accredited Professions: Surgeons (Disciplines: Pathological anatomy, Anesthesia and Reanimation, Cardiac surgery, Cardiology, General surgery, Pediatric surgery, Vascular surgery, Gastroenterology, Medical genetics, Laboratory medicine, Infectious diseases, General medicine, Internal medicine, Nephrology, Oncology, Clinical pathology, Pulmonology, Radiodiagnostics, Food science and dietetics) Biologist, Dietitian, Hospital Pharmacist, Nurse, Pediatric Nurse, Psychologist, Perfusionist Technician, Medical Radiology Health Technician

REGISTRATION
The congress is free to attend but the access is limited to 150 people. You can register at https://webplatform.planning.it/Trapianti2022/register

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Filling out the questionnaire will entitle you to credits ONLY if associated with the verification of actual attendance at the event. There will be no exceptions to these obligations.

TRAINING OBJECTIVE
Implementation of culture and safety in the field of transplant donation.

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