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.
Day 1 | Friday, 10th June 2022

Opening Remarks
Mauro Salizzoni, Renato Romagnoli

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
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

Session 2  State of the art in liver machine perfusion
Chairpersons: Patrizia Burra, Renato Romagnoli
14:30-14:45 Outcomes and risk factors of graft loss in liver transplantation from cDCD donors treated with postmortem normothermic regional perfusion in Spain
Constantino Fondevila
14:45-15:00 Normothermic machine perfusion: state of the art and future perspectives
Peter J. Friend
15:00-15:15 Ischemia-free liver transplantation
Zhiyong Guo
15:15-15:30 Machine perfusion in the US
Malcolm P. MacConmara
15:30-15:45 Zurich machine perfusion experience
Philipp Dutkowski
15:45-16:00 Groningen machine perfusion experience
Robert J. Porte
16:00-16:15 Liver viability assessment during normothermic regional perfusion and normothermic machine perfusion: results and comparison with static cold storage
Christopher JE Watson
16:15-16:45 Which endpoints for liver machine perfusion trials?
Vatche G Agopian
Discussant: Alfonso Avolio
16:45-17:15 Coffee break

Session 3  Normothermic regional perfusion and liver transplantation using donors after circulatory death
Chairpersons: Massimo Cardillo, Xavier Michel Mueller
17:15-17:30 Normothermic regional perfusion: technical aspects and organ evaluation
Alberto Zanella, Marinella Zanierato
17:30-17:45 Normothermic regional perfusion and machine perfusion in liver transplantation with donors after circulatory determination of death
Andrea Schlegel, Paolo Muiesan
17:45-18:00 Outcome of Maastricht category 3 grafts with long functional ischemia time
Luciano De Carlis, Riccardo De Carlis
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, Darius 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
SCIENTIFIC SECRETARIAT

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

FACULTY

Vatche C 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 Carlis, Milano
Riccardo De Carlis, Milano
Paolo De Simone, Pisa
Nicola De Stefano, Torino
Daniele Dondossola, Milano
Philipp Dutkowski, Zurich
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Zhiyong Guo, Guangzhou
Felix Krendl, Innsbruck

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Malcolm P. MacConmara, Dallas
Paulo Martins, Worcester-USA
Hynek Mergental, Birmingham
Andras Meszaros, Innsbruck
Darius Mirza, Birmingham
Diethard Monbaliu, Leuven
Stefano Muiesan, Milano
Xavier Muller, Lyon
David Nasralla, London
David 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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TRAINING OBJECTIVE
Implementation of culture and safety in the field of transplant donation.

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