



PROGRAM

VALENCIA

2022 ILTS VIRTUAL CONSENSUS CONFERENCE

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INTRODUCTION

Enhanced recovery protocols have been shown to improve patient care, reduce hospital length of stay and resource utilization without increasing risk to patients. These pathways have become accepted for many different types of surgery, but currently there is no internationally accepted, evidence based enhanced recovery protocol after Liver Transplantation. To address this unmet need, the team at The Royal Free Hospital in London began ERAS4OLT.org, in partnership with the ILTS, to produce global, evidence based, multidisciplinary guidelines to enhance the recovery after liver transplantation. The scientific program covers the entirety of the patient's perioperative journey addressing the key interventions from work up and patient selection right up to the timing of hospital discharge. This consensus conference will cover the pre-operative, intra-operative and post-operative care of i) the recipient of deceased donor liver transplantation; ii) the recipient of a living liver transplantation and iii) the care of the living liver donor.

We have in excess of 30 expert working groups taking part in this project formed of over 200 worldwide experts from over 30

countries around the world. All of these groups have received professionally performed systematic reviews on each topic which have been screened by our 50 strong Junior Scientific Committee. The expert working groups have each drafted a scientific manuscript assessing the best available literature using the GRADE approach, and if the evidence directly derived from liver transplantation is lacking, the panel will provide recommendations based on their wealth of knowledge and experience. In accordance with the Danish Model of Consensus, these statements will be presented at this meeting and debates will take place with the conference delegates. These discussions will be observed by our illustrious lay-jury, formed of prominent figures from within medicine (but not liver transplantation), who will then assist in producing unbiased recommendations.

Audience participation is a vital part of this process and we welcome you all to this exciting, interactive and educational conference which will enhance the perioperative care of the liver transplant patient worldwide.

LEARNING OBJECTIVES

1. Review and summarize existing published evidence for the treatment of patients undergoing LT and liver donation.
2. Provide recommendations and guidelines for the optimal management of patients undergoing liver transplantation and living liver donation.
3. Understand and use the Danish Model and GRADE System for systematic evaluation of the literature and generation of guidelines.

EXPECTED EDUCATIONAL OUTCOMES

Disseminate evidence based, consensus generated, guidelines for different areas of liver transplant practice and living donation.

TARGET AUDIENCE

Critical Care Specialists, Anesthesiologists, Surgeons, Psychologists, Physical Therapists, Nutritionists, Infectious diseases, Hepatologists, Radiologists, Scientists, Pathologists, Nurses



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Scientific Program | Friday, January 28, 2022

Welcome and Introduction

- 12:00-12:10** Welcome
 Michael Spiro *Anesthesiology, London, UK*
 Dimitri Raptis *Surgery, London, UK*
 Marina Berenguer *ILTS President, Hepatology, Valencia, Spain*
- 12:10-12:20** New ERAS in Liver Transplantation...past, present, and next steps
 Vivienne Hannon *Anesthesiology, London, UK*
 Pascale Tinguely *Surgery, London, UK*
- 12:20-12:30** Are short-term complications associated with poor graft and patient survival after liver transplantation?
 Felipe Alconchel *Surgery, Murcia, Spain*
 Mark Ghobrial *Surgery, Houston, TX, USA*
- 12:30-12:45** Discussion, recommendations and voting from the audience

Deceased Donor Liver Transplantation - Preoperative measures

- 12:45-12:55** Which preoperative assessment modalities best identify patients who are suitable for enhanced recovery after liver transplantation?
 Gonzalo Crespo *Hepatology, Barcelona, Spain*
 Matthew Armstrong *Hepatology, Birmingham, UK*
- 12:55-13:10** Discussion, recommendations and voting from the audience
- 13:10-13:20** Does prehabilitation improve short-term outcomes after liver transplantation?
 Don Milliken *Anesthesiology, San Francisco, CA, USA*
 Carmen Vinaixa *Hepatology, Valencia, Spain*
- 13:20-13:35** Discussion, recommendations and voting from the audience
- 13:35-13:45** Does preoperative optimization of the nutritional status improve short-term outcomes after liver transplantation?
 David Victor *Hepatology, Houston, TX, USA*
 Patrizia Burra *Hepatology, Padova, Italy*
- 13:45-14:00** Discussion, recommendations and voting from the audience
- 14:00-14:10** Does preoperative psychological counselling improve compliance and speed of recovery after liver transplantation?
 Emmanuel Weiss *Critical Care, Beaujon, France*
 Susan Orloff *Surgery, Portland, OR, USA*
- 14:10-14:25** Discussion, recommendations and voting from the audience
- 14:25-14:35** Break



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Deceased Donor Liver Transplantation - Intraoperative measures

- 14:35-14:45** Does machine perfusion improve immediate and short-term outcomes by enhancing graft function and recipient recovery after liver transplantation?
Alejandro Ramirez Surgery, London, UK
David Nasralla Surgery, London, UK
Robert Porte Surgery, Groningen, Netherlands
- 14:45-15:00 Discussion, recommendations and voting from the audience
- 15:00-15:10** Which is the optimal anesthetic conduct regarding immediate and short-term outcomes after liver transplantation?
Dhupal Patel Anaesthesia and Intensive Care Medicine, Cambridge, UK
Ryan Chadha Anesthesiology, Jacksonville, FL, USA
- 15:10-15:25 Discussion, recommendations and voting from the audience
- 15:25-15:35** Which is the optimal anesthetic monitoring regarding immediate and short-term outcomes after liver transplantation?
Thomas Fernandez Anesthesiology, Auckland, New Zealand
William Merritt Anesthesiology, Baltimore, MD, USA
Andre DeWolf Anesthesiology, Chicago, IL, USA
- 15:35-15:50 Discussion, recommendations and voting from the audience
- 15:50-16:00** Which cava anastomosis techniques are optimal regarding immediate and short-term outcomes after liver transplantation?
Tamer Mahmoud Shaker Surgery, Minneapolis, MN, USA
James Eason Surgery, Memphis, TN, USA
- 16:00-16:15 Discussion, recommendations and voting from the audience
- 16:15-16:25** Should surgical drains or T tubes be inserted intraoperatively to enhance recovery after liver transplantation?
Marit Kalisvaart Surgery, Zurich, Switzerland
Bijan Eghtesad Surgery, Cleveland, OH, USA
- 16:25-16:40 Discussion, recommendations and voting from the audience
- 16:40-16:55** Break
- 16:55-17:05** What is the optimal perioperative fluid management regarding immediate and short-term outcomes after liver transplantation?
Clare Morkane Anesthesiology, San Francisco, CA, USA
John Klinck Anesthesiology, Cambridge, UK
- 17:05-17:20 Discussion, recommendations and voting from the audience
- 17:20-17:30** What is the optimal intraoperative transfusion, blood product and clotting factors management regarding immediate and short-term outcomes after liver transplantation?
Uzung Yoon Anesthesiology, Philadelphia, PA, USA
Suehana Rahman Anesthesiology, London, UK



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17:30-17:45 Discussion, recommendations and voting from the audience

17:45-17:55 What is the optimal perioperative analgesia management regarding immediate and short-term outcomes after liver transplantation?

Sun Liying Beijing, China

Marina Gitman Critical Care, Chicago, IL, USA

17:55-18:10 Discussion, recommendations and voting from the audience

18:10-18:20 What is the optimal timing for extubation regarding immediate and short-term outcomes after liver transplantation?

Martine Lindsay Anesthesiology, Edmonton, Canada

Stuart A. McCluskey Anesthesiology, Toronto, Canada

18:20-18:35 Discussion, recommendations and voting from the audience

Special interest session - Biomarkers and Liver Transplantation

18:35-18:45 Which biomarkers perioperatively may help predict short-term outcomes after liver transplantation?

Jiang Liu Surgery, Hong Kong, China

Paulo Martins Surgery, Worcester, MA, USA

18:45-19:00 Discussion, recommendations and voting from the audience

Day 1 Closing Session

19:00 - 19:15 ILTS Presidential address

Marina Berenguer ILTS President, Hepatology, Valencia, Spain



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Scientific Program | Saturday, January 29, 2022

Deceased Donor Liver Transplantation - Postoperative measures

- 12:00-12:10** What is the optimal management of thromboprophylaxis after liver transplantation regarding prevention of bleeding, hepatic artery or portal vein thrombosis?
Varvara Kirchner Surgery, Minneapolis, MN, USA
Francois Durand Hepatology, Paris, France
- 12:10-12:25 Discussion, recommendations and voting from the audience
- 12:25-12:35** What is the optimal antimicrobial prophylaxis to prevent postoperative infectious complications after liver transplantation?
Isabel Campos-Varela Hepatology, Barcelona, Spain
Emily Blumberg Infectiology, Philadelphia, PA, USA
- 12:35-12:50 Discussion, recommendations and voting from the audience
- 12:50-13:00** When should drains and lines be removed after liver transplantation regarding reducing the length of hospital stay and enhancing recovery?
Nicholas Goldaracena Surgery, Charlottesville, VA, USA
Prashant Bhangui Surgery, Delhi, India
- 13:00-13:15 Discussion, recommendations and voting from the audience
- 13:15-13:25** What is the optimal physiotherapy, occupational therapy and rehabilitation management after liver transplantation regarding reducing the length of hospital stay and enhancing recovery?
Daniel Santa Mina Physiotherapy, Toronto, Canada
Linda Denehy Physiotherapy, Melbourne, Australia
- 13:25-13:40 Discussion, recommendations and voting from the audience
- 13:40-13:50** What is the optimal immunosuppression management to prevent early rejection after liver transplantation?
Eleonora De Martin Hepatology, Villejuif, France
Varuna Aluvihare Hepatology, London, UK
- 13:50-14:05 Discussion, recommendations and voting from the audience
- 14:05-14:15** When is the optimal time to discharge patients after liver transplantation with respect to short-term outcomes?
Tomohiro Tanaka Hepatology, Iowa City, IA, USA
Trevor Reichman Surgery, Toronto, Canada
- 14:15-14:30 Discussion, recommendations and voting from the audience
- 14:30-14:40** Break



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Living Donor Liver Transplantation - Enhanced recovery of the living liver donor

Preoperative

- 14:40-14:50** What is the optimal donor physiological workup to improve short-term outcomes of the donor after living liver donation?
Manhal Izzy *Hepatology, New York, NY, USA*
Nancy Ascher *Surgery, San Francisco, CA, USA*
- 14:50-15:05 Discussion, recommendations and voting from the audience
- 15:05-15:15** What is the optimal donor surgical workup to improve short-term outcomes of the donor after living liver donation donor?
Tarunjeet S. Klair *Surgery, San Antonio, TX, USA*
Silvio Nadalin *Surgery, Tuebingen, Germany*
- 15:15-15:30 Discussion, recommendations and voting from the audience
- 15:30-15:40** Does pre-operative counselling of the donor improve immediate and short-term outcomes after living liver donation?
Megan Adams *Surgery, Aurora, CO, USA*
Elizabeth Pomfret *Surgery, Aurora, CO, USA*
- 15:40-15:55 Discussion, recommendations and voting from the audience

Intraoperative

- 15:55-16:05** Does a multimodal approach to pain of the donor intraoperatively enhance immediate and short-term outcomes after living liver donation?
Shahi Abdul Ghani *London, UK*
Brian Hogan *Hepatology, London, UK*
- 16:05-16:20 Discussion, recommendations and voting from the audience
- 16:20-16:30** Does the surgical technique for the donor influence immediate and short-term outcomes after living liver donation?
Yee Lee Cheah *Surgery, Burlington, MA, USA*
Dieter Broering *Surgery, Riyadh, Saudi Arabia*
- 16:30-16:45 Discussion, recommendations and voting from the audience

Postoperative

- 16:45-16:55** What is the optimal prophylaxis against post-operative DVT in the living donor to avoid complications and enhance recovery?
Luis Ruffolo *Surgery, Rochester, MN, USA*
Roberto Hernandez-Alejandro *Surgery, Rochester, MN, USA*
- 16:55-17:10 Discussion, recommendations and voting from the audience



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17:10-17:20 When is it safe for the liver donor to be discharged home and prevent unnecessary re-hospitalizations?

Alessandra Mazzola *Hepatology, Paris, France*

Ali Jafarian *Surgery, Tehran, Iran*

17:20-17:35 Discussion, recommendations and voting from the audience

17:35-17:50 Break

Living Donor Liver Transplantation - Enhanced recovery of the recipient after living liver donation

Preoperative

17:50-18:00 What is the lower limit of graft to recipient weight ratio compatible with enhanced recovery of the recipient after living donor liver transplantation?

How can small-for-size syndrome of the recipient be avoided to enhance recovery after living donor liver transplantation?

Madhukar S. Patel *Surgery, Dallas, TX, USA*

Yuri Genyk *Surgery, San Francisco, CA, USA*

18:00-18:15 Discussion, recommendations and voting from the audience

18:15-18:25 What is the optimal patient selection in relation to pre-transplant status: MELD, renal function, performance status, recent sepsis, and sarcopenia, to ensure recovery after living donor liver transplantation?

Garrett Roll *Surgery, San Francisco, CA, USA*

Arvinder Singh Soin *Surgery, Delhi, India*

18:25-18:40 Discussion, recommendations and voting from the audience

Intraoperative

18:40-18:50 Does modification of portal pressures and flows enhance recovery of the recipient after living donor liver transplantation?

Ashwin Rammohan *Surgery, Chennai, India*

Abhinav Humar *Surgery, Philadelphia, PA, USA*

18:50-19:05 Discussion, recommendations and voting from the audience

Day 2 Closing Session

19:05-19:20 Consensus Conclusion

Michael Spiro *Anesthesiology, London, UK*

Dimitri Raptis *Surgery, London, UK*



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The International Liver Transplantation Society (ILTS), The Royal Free Hospital, and University College London jointly prepared this Consensus Conference.

Chairs

- Michael Spiro, Anesthesiology, London, UK
- Dimitri Raptis, Surgery, London, UK

Chief Investigators

- Claus Niemann, San Francisco, CA, USA
- Joerg Pollok, London, UK
- Marina Berenguer, Valencia, Spain

Jury

- Andreas Mayr, Head of the Working Group Statistical Methods in Epidemiology, IMBIE, Bonn, Germany
- Beatriz Domínguez-Gil, Director of the National Transplant Organization, Madrid, Spain
- Elmi Muller, WHO Taskforce for Organ Donation and Transplantation, University of Cape Town, South Africa
- Karina Rando, General Director of the Ministry of Public Health, Uruguay
- Mary-Anne Enoch, Medical Ethics, University College London, UK
- Noam Tamir, Patient Representative, UK
- Pamela Healy, Chief Executive, British Liver Trust, Winchester, UK
- Tanja Manser, Patient Safety, Switzerland
- Tim Briggs, National Director of Clinical Improvement, NHS, UK

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- Abhinav Humar, Surgery, Philadelphia, PA, USA
- Ali Jafarian, Surgery, Tehran, Iran
- Arvinder Singh Soin, Surgery, Delhi, India
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- Charles Miller, Surgery, Cleveland, OH, USA
- Daniel Cherqui, Surgery, Paris, France
- Didier Samuel, Hepatology, Paris, France
- Dieter Broering, Surgery, Riyadh, Saudi Arabia
- Elizabeth Pomfret, Surgery, Aurora, CO, USA
- Federico Villamil, Hepatology, Buenos Aires, Argentina
- Francois Durand, Hepatology, Paris, France
- Gabriela Berlakovich, Surgery, Vienna, Austria
- Geoffrey McCaughan, Hepatology, Sydney, Australia
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- John Roberts, Surgery, San Francisco, CA, USA
- Linda Liu, Anesthesiology, San Francisco, CA, USA
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- Yaman Tokat, Surgery, Istanbul, Turkey
- Yoogoo Kang, Anesthesiology, Philadelphia, PA, USA



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- Albert Chan, Surgery, Pok Fu Lam, Hong Kong
- Alessandra Mazzola, Hepatology, Paris, France
- Amelia Hessheimer, Surgery, Barcelona, Spain
- Ashwin Rammohan, Surgery, Chennai, India
- Brian Hogan, Hepatology, London, UK
- Carmen Vinaixa, Hepatology, Valencia, Spain
- David Nasralla, Surgery, London, UK
- David Victor, Hepatology, Houston, TX, USA
- Eleonora De Martin, Hepatology, Villejuif, France
- Felipe Alconchel, Surgery, Murcia, Spain
- Garrett Roll, Surgery, San Francisco, CA, USA
- Gokhan Kabacam, Hepatology, Ankara, Turkey
- Gonzalo Sapisochin, Surgery, Toronto, Canada
- Isabel Campos-Varela, Hepatology, Barcelona, Spain
- Jiang Liu, Surgery, Hong Kong
- Madhukar S. Patel, Surgery, Dallas, TX, USA
- Manhal Izzy, Hepatology, New York, NY, USA
- Marit Kalisvaart, Surgery, Zurich, Switzerland
- Megan Adams, Surgery, Aurora, CO, USA
- Nicholas Goldaracena, Surgery, Charlottesville, VA, USA
- Roberto Hernandez-Alejandro, Surgery, Rochester, MN, USA
- Ryan Chadha, Anesthesiology, Jacksonville, FL, USA
- Tamer Mahmoud Shaker, Surgery, Minneapolis, MN, USA
- Tarunjeet S. Klair, Surgery, San Antonio, TX, USA
- Terry Pan, Anesthesiology, Singapore
- Thomas Fernandez, Anesthesiology, Auckland, New Zealand
- Tomohiro Tanaka, Hepatology, Iowa City, IA, USA
- Uzung Yoon, Anesthesiology, Philadelphia, PA, USA
- Varvara Kirchner, Surgery, Minneapolis, MN, USA
- Vivienne Hannon, Anesthesiology, London, UK
- Yee Lee Cheah, Surgery, Boston, MA, USA

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- Jonathan Potts, London, UK
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ERAS40LT.org

REGISTRATION

Please register [here](#).

Registration Fees:

ILTS Member Fee	\$100
ILTS Member Reduced Fee*	\$50
Non-Member Fee	\$150

**The reduced fee applies for: Designated middle-income countries (click [here](#) for list); Residents, fellows, medical students, and others in full-time education; Non-clinical scientists and researchers; Nurses, nurse practitioners, transplant coordinators, and all allied health professionals; Senior members retired from clinical practice.*

Should you require further assistance, please don't hesitate to contact the ILTS Registration Department:

E-mail: registration-consensus@ilts.org

Hotline: +49 (0) 30 24603 410

Registration/Hotline working hours:

- Prior to the Conference (Monday-Friday) - from 09:00 to 17:00 CET
- On Friday, January 28 - from 09:00 to 18:30 CET
- On Saturday, January 29 - from 10:00 to 18:30 CET

Log in details for the event digital platform:

You will receive your login details for the digital platform per email one week before the conference start.

TIME ZONE

CET (Central European Time)

Check corresponding international time zones [here](#).

ILTS HEADQUARTERS

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