

The BTS will hold a joint one-day meeting together with NHSBT OTDT examining the role of machine perfusion in liver transplantation. This meeting will be an inclusive event to allow all the UK centres to reflect on their own practice and experience, followed by an opportunity to formulate a blueprint for working together going forwards to become a major international force in this arena.

The use of novel technologies, primarily to increase organ utilisation, but also to facilitate workforce sustainability, equity of access and research interventions will be a major growth area in the coming decade, and we want the UK transplant community to be at the forefront. This aspiration has been embodied in the eighth recommendation of the recent OUG report.




Programme





Time	Detail
09:30	Registration and Refreshments
10:00	Welcome and Introduction
10:05	<p><u>Machine Perfusion in Liver Transplantation – Experience so far in the UK & Ireland</u> <i>Chair: Richard Baker & Douglas Thorburn</i></p> <ul style="list-style-type: none"> • Birmingham – Anisa Nutu, Queen Elizabeth Hospital Birmingham • Cambridge – Andrew Butler, Cambridge University Hospital • Edinburgh – Chris Johnston, Royal Infirmary of Edinburgh • King’s College Hospital – Dr. Miriam Cortes Cerisuelo, King’s College Hospital • Leeds – Barbara Fiore, Leeds Teaching Hospitals • Newcastle upon Tyne – Rodrigo Figueiredo, Freeman Hospital • Royal Free London – Satheesh Iype, Royal Free Hospital • Dublin – Emir Hoti, St. Vincents University Hospital • Tactical Data Solution so far – Sue Madden, NHSBT
12:00	Refreshment break
12:15	<ul style="list-style-type: none"> • How do NRP and NMP fit together? – Ian Currie, NHSBT • The centralised ARC – Toronto Model – Dr. Marcelo Cypel, Toronto, Canada (V) • Organ Recovery Centres in the US: a 22-year experience with 2700 organ donors – Dr. Gary Marklin, Missouri, USA (V) • The US experience on the use of OCS perfusion technology in liver – Dr. R. Mark Ghobrial, Texas, USA • Q&A
13:30	Lunch
14:15	<p><u>Panel Discussion: Discussion of the presented 4 options</u> <i>Chairs: Professor. Krish Menon & Dr. Varuna Aluvihare</i> <i>Panellists: Ian Currie, NHSBT</i></p> <p>Professor. John Forsythe, Department of Health and Social Care Dr. Gary Marklin, Missouri, USA (V) Dr. R. Mark Ghobrial, Texas, USA Professor. Derek Manas, NHSBT</p>
15:15	Refreshment break

15:30	<p>Scientific strategy – Research</p> <p><i>Chairs: Professor. Peter Friend & Professor. Lorna Marson</i></p> <ul style="list-style-type: none"> • Research opportunities with ARC’s – Professor. Menna Clatworthy, University of Cambridge • Novel Randomised trial in Machine Perfusion – Foad Rouhani, King’s College Hospital • Interventions to optimise Livers – Professor. Colin Wilson, Freeman Hospital
16:15	<ul style="list-style-type: none"> • The Way Forward: What the Professionals Want – Professor. Krish Menon, King’s College Hospital • Planning and Strategy – Professor. Derek Manas, NHSBT/Freeman Hospital
17:00	Wrap and close

SPONSORS

This meeting has been supported by pharmaceutical companies by way of exhibition stand space and sponsorship which is limited to funding the administration and educational content of the meeting.

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<p>GOLD CORPORATE PARTNER 2023</p>	
	<p>We are a global, science-led, patient-focused pharmaceutical company. We are dedicated to transforming the future of healthcare by unlocking the power of what science can do for people, society and the planet.</p> <p><i>AstraZeneca has provided a sponsorship grant towards this independent Programme. AstraZeneca has had no editorial input into or control over the agenda, content development or choice of speakers, nor opportunity to influence.</i></p>
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	<p>Bridge to Life is a leading supplier of preservation solutions globally with a focus on innovation in organ preservation and machine perfusion. Through a strong focus on collaboration with surgeons and transplant professionals, we continue to explore emerging science and preservation technologies.</p>
	<p>OrganOx supports transplant teams to save more lives by making every donated organ count. The OrganOx <i>metra</i>[®] uses proprietary automated normothermic machine perfusion technology to preserve donor organs in a functioning state for up to 24 hours prior to transplant.</p>
	<p>PHARMAPAL is the UK distributor of CUSTODIOL[®] HTK multi-organ preservation solution indicated for perfusion and cold storage of the kidney, liver, pancreas and heart.</p> <p>CUSTODIOL[®] is supplied under contract with NHSBT.</p> <p>Important benefits of CUSTODIOL[®] include low viscosity (faster organ cooling), low potassium (no flushing necessary) and less biliary complications.</p>
	<p>Founded in 1998, XVIVO is the only MedTech company dedicated to extending the life of all major organs - so transplant teams around the world can save more lives. Our solutions allow leading clinicians and researchers to push the boundaries of organ transplantation.</p> <p>XVIVO is a global company headquartered in Gothenburg, Sweden.</p>

Speaker Biographies

Dr. Miriam Cortes Cerisuelo	Dr. Miriam Cortes Cerisuelo is a consultant surgeon in adult and paediatric liver transplantation in King's College Hospital since April 2016. She completed her doctorate in metabonomics, as a useful tool to predict liver functionality after liver transplant, in the University of Valencia. In 2015 she was awarded with a MRC Centre for Transplantation/Emory Bridging Fellowship where she worked under the direction of Dr Mandy Ford. During the last four years as lead in organ retrieval and machine perfusion at King's College Hospital she has fought to introduce hypothermic machine perfusion in the clinical practice and not only as part of clinical trials; as well as normothermic regional perfusion. Recently she has been appointed as paediatric transplant surgery lead and board member of ELITA. Her current scientific interests are the role of ex-vivo perfusion of donor livers in modulating immunogenicity after transplantation, as well as comparison between different machine perfusion technologies.
Professor. Menna Clatworthy	Menna is the Professor of Translational Immunology at the University of Cambridge, UK. She also works clinically as an Honorary Consultant Nephrologist and holds an Associate Faculty position in Cellular Genetics at the Wellcome Sanger Institute. Her research utilises genomic technologies and systems biology approaches to understand tissue immunity, including within transplanted organs, and in the context of human experimental medicine studies. She is an active participant in the Human Cell Atlas Project (https://www.humancellatlas.org).
Ian Currie	<p>Ian Currie is a Consultant Transplant Surgeon at the Royal Infirmary of Edinburgh (RIE) specialising in Liver Transplant. Appointed in 2010, Mr Currie took up leadership of the abdominal organ retrieval service for Scotland, based at RIE, in the same year. The great majority of Mr Currie's clinical practice relates to transplantation, however, he also leads the tertiary referral service in Scotland for renal cancers extending to the vena cava.</p> <p>Ian undertook medical studies having first completed a Bachelor's degree in Physiology and a PhD in developmental biology at the MRC Reproductive Biology Unit in Edinburgh.</p> <p>During his postgraduate surgical training, he supervised PhD students looking into human liver development but is now working with Performance Psychology at Edinburgh University, focussing on the human performance aspects of organ retrieval. The most recent PhD student gained her degree in 2022 and the current PhD student will submit in 2024.</p> <p>Mr Currie was appointed the UK National Lead for Organ Retrieval at OTDT, NHS Blood and Transplant, where he is determined to drive forward development and implementation of novel technologies.</p>
Dr. Marcelo Cypel	Dr. Cypel is a Staff Thoracic Surgeon at University Health Network (UHN) and an Associate Professor of Surgery at the University of Toronto. He is the director of the ECLS program at UHN. He received his MD in 1999 and completed his general surgery and thoracic surgery residency program in 2004. In 2005 he started his post-doctoral research fellowship at the Latner Thoracic Surgery Laboratory. During this time, he developed a new method of lung preservation and donor lung repair called Ex Vivo Lung Perfusion (EVLP).

	This method is now used clinically in Toronto and in many other centers, and has significantly increased the number of transplantable lungs.
Rodrigo Figueiredo	Rodrigo is a consultant HPB and Transplant surgeon working in Newcastle upon Tyne. He has a PhD in normothermic and hypothermic liver perfusion and has been a Consultant since 2021.
Professor. John Forsythe	Professor John Forsythe is the Co Chair of ISOU the DHSC group tasked by Ministers to implement the OUG recommendations – he was Deputy Chair of the Organ Utilisation Group. He was the Medical Director for Organ and Tissue Donation and Transplantation in NHS Blood and Transplant, a position that he held through the pandemic, leading a team of senior clinicians and managers to support and sustain Donation, Retrieval and Transplant Services across the whole of the UK. Prior to this he was a Transplant Surgeon in Edinburgh Royal infirmary involved in abdominal transplantation for over 30 years.
Dr. R. Mark Ghobrial	Dr. Ghobrial is a Professor of Surgery at Weill Cornell Medical College, Director of the J.C. Walter Jr. Transplant Center, Houston Methodist, Houston, Texas, and he holds the J.C. Walter Jr. Presidential Distinguished Chair. He obtained his MD from Cairo University and PhD from the University of Texas Health Science Center, Houston, Texas. His medical training was completed at Massachusetts General Hospital, University of Texas Health Science Center, and the University of California, Los Angeles (UCLA). He is the recipient of multiple awards and honors and was elected to the Fellowship of The Royal College of Surgeons-Edinburgh and the American Surgical Association. As a researcher, he is the recipient of multiple grants and has held NIH sponsored awards in transplant immunology and clinical sciences. He has authored nearly 300 articles, chapters and has lectured widely, both nationally and internationally, on topics related to liver disease and transplantation.
Emir Hoti	Emir Hoti is a Consultant Hepatobiliary/Liver Transplant Surgeon. He has been Clinical Lead of Transplant Programme at St. Vincent's University Hospital since 2014.
Satheesh Iype	Satheesh Iype is working as a consultant liver transplant surgeon and clinical lead for machine perfusion at Royal Free Hospital. He has gained experience in normothermic machine perfusion during my training and practicing over 5 years. The Royal Free have initiated and set up regular service for the normothermic machine perfusion since 2019 and subsequently added normothermic regional perfusion and hypothermic oxygenated perfusion.
Chris Johnston	Chris is a consultant transplant surgeon and the Edinburgh NORS Clinical Lead.
Sue Madden	Sue Madden is a Principal Statistician at NHS Blood and Transplant (NHSBT) with responsibility for all statistical work relating to organ donation and organ utilisation. Sue joined the Statistics and Clinical Research team within NHSBT in 2000 and specialised in pancreas transplantation and transplant outcome monitoring before moving into her current role as lead statistician for organ

	<p>donation, in 2016 and organ utilisation lead statistician in 2021. Sue has a BSc in Mathematical Studies from the University of Leeds and an MSc in Statistics and Management Science from the University of the West of England.</p>
<p>Professor. Derek Manas</p>	<p>Professor Manas was educated and trained in Cape Town, South Africa and completed HPB and transplant fellowships at Johns Hopkins (USA) and Paul-Brousse (Paris). He was the recipient of the CJ Adams/Sandoz Traveling Fellowship to the UK in 1993 and joined the NHS at the Freeman Hospital in 1994. Professor Manas attained a personal chair in Transplantation and HPB at Newcastle University in 2007 and has been instrumental in developing three super-regionally funded transplant programs in the North East of England, as well as the regional HPB and Sarcoma services and the Intestinal Failure Service which is now nationally commissioned.</p> <p>Professor Manas was a previous President of the BTS and the previous chair of the British Liver Transplant Group. He is currently the Medical Director of OTDT (NHSBT). He is currently the secretary of CCAUK. He has a well-established national and international research reputation in primary liver cancer, ablation of liver tumours, liver transplantation for primary liver cancer and organ perfusion in pancreas persufflation.</p>
<p>Dr. Gary Marklin</p>	<p>Dr. Gary Marklin has been the Chief Medical and Research Officer at Mid-America Transplant since 2014. He is a board certified pulmonary and critical care physician with over 30 years of experience in private practice in St Louis. He has personally managed the care of more than 1000 organ donors in their independent organ recovery ICU since 2008. He has developed Mid-America Transplant's lung donor management program which has doubled the number of lung donors per year and has allowed Mid-America Transplant to be consistently ranked in the top 10% of OPOs for lung donors. Dr Marklin has been involved in donor management research since 2010, and has published articles pertaining to steroids, naloxone, thyroid hormone, fluid resuscitation, CRRT, and mechanical ventilation in the management of the brain-dead donor.</p>
<p>Professor. Krish Menon</p>	<p>Professor Krish Menon specialises in liver transplants and has a particular expertise in laparoscopic (keyhole) surgery for the liver, gall bladder and pancreas.</p>
<p>Anisa Nutu</p>	<p>Anisa Nutu is a locum consultant liver transplant surgeon at Queen Elizabeth Hospital. Her interests include organ utilization and machine perfusion to optimize and improve results in Liver transplantation.</p>
<p>Foad Rouhani</p>	<p>Foad Rouhani is a surgeon scientist, leading the Tissue Regeneration and Clonal Evolution (TRCE) laboratory at the Francis Crick Institute. He is a Reader at King's College London and an honorary consultant transplant surgeon at King's College Hospital. He obtained an MA in developmental biology and completed his medical training at Cambridge. During his surgical training, he completed a PhD in stem cell biology at the Wellcome Sanger Institute in 2012 and was appointed NIHR Academic Clinical Lecturer in transplantation in 2016, in Cambridge. He subsequently moved to King's College Hospital and in 2023 he was awarded an MRC Clinician Scientist Fellowship and additionally was appointed as a Group Leader at The Francis Crick Institute. His basic science research interests focus on the mechanisms</p>

	of tissue regeneration and his clinical research interests are on using machine perfusion to improve outcomes in liver transplantation.
Professor. Colin Wilson	Colin Wilson is a Consultant HPB and Transplant Surgeon and Hon Professor of Transplant/HPB surgery at Newcastle University. His interests include organ perfusion, artificial intelligence image analysis and meta-analysis. His clinical practice includes Liver, Pancreas and Kidney Transplantation and he leads a research team in the Clinical Research Institute (NUTCRI). His PhD centred on machine perfusing DCD kidneys for transplantation and is now theme lead for the NIHR Blood Transplant Research Unit (Cambridge/Newcastle) on “Novel methods for optimising and assessing organs for transplantation”.