STATE OF ART

1537 Post-transplant diabetes mellitus following heart transplantation
Joshua D. Newman, MD, Kelly H. Schlendorf, MD, Zachary L. Cox, PharmD,
Sandip K. Zalawadiya, MBBS, Alvin C. Powers, MD, Kevin D. Niswender, MD, PhD,
Ravi V. Shah, MD, and JoAnn Lindenfeld, MD

1547 Extracorporeal life support as a bridge to lung transplantation: Where are we now?
Caroline M. Patterson, BMBS, MD, FRCP, Aakash Shah, MD, Joseph Rabin, MD, MS,
Laura DiChiacchio, MD, PhD, Marcelo Cypel, MD, MSc, FACS, FRCSC,
Konrad Hoetzenecker, MD, PhD, Pedro Catarino, MD, FRCS, and Christine L. Lau, MD, MBA

ORIGINAL TRANSLATIONAL SCIENCE

1556 Interferon-stimulated and metallothionein-expressing macrophages are associated with acute and chronic allograft dysfunction after lung transplantation
Sajad Moshkelgosha, PhD, Allen Duong, BSc, Gavin Wilson, PhD, Tallulah Andrews, PhD,
Gregory Berra, MD, Benjamin Renaud-Picard, MD, Mingyao Liu, MSc, MD,
Shaf Keshavjee, MD, MSc, Sonya MacParland, PhD, Jonathan Yeung, MD, PhD,
Tereza Martinu, MD, MHS, and Stephen Juvet, MD, PhD

1570 EDITORIAL: Alveolar macrophage subsets: Accessories to lung alloimmune rejection
Mark E. Snyder, and John F. McDyer

ORIGINAL CLINICAL SCIENCE

1572 Contemporary risk scores predict clinical worsening in pulmonary arterial hypertension – An analysis of FREEDOM-EV
Raymond L. Benza, MD, Mardi Gomberg-Maitland, MD, Harrison W. Farber, MD,
Carmine Dario Vizza, MD, Meredith Broderick, PhD, Louis Holdstock, PhD,
Andrew C. Nelsen, PhD, Chunqin Deng, MD, Youlan Rao, PhD, and R. James White, MD

1581 Comparing donor and recipient total cardiac volume predicts risk of short-term adverse outcomes following heart transplantation
Nicholas A. Szugye, MD, Ryan A. Moore, MD, MSc, Alia Dani, MD, MPH,
Nicholas J. Ollberding, PhD, Chet Villa, MD, Angela Lorts, MD, MBA,
Jonathan D. Plasencia, PhD, Michael D. Taylor, MD, PhD, David L.S. Morales, MD, and
Farhan Zafar, MD, MSc
CONTENTS

1590  Clinical impact of a modified lung allocation score that mitigates selection bias
      Erin M. Schnellinger, PhD, Edward Cantu, MD, MSCE, Douglas E. Schaubel, PhD,  
      Stephen E. Kimmel, MD, MSCE, and Alisa J. Stephens-Shields, PhD

1601  Clinical impact and economic burden of post-transplant infections following heart  
      transplantation: A retrospective nationwide cohort study
      Suk-Chan Jang, PharmD, Byeong-Chan Oh, PharmD, Jin Hyun Nam, PhD,  
      Eui-Kyung Lee, PhD, Hye-Lin Kim, PhD, and Sun-Hong Kwon, PhD

1611  Attitudes & practices surrounding pregnancy post heart transplant among pediatric  
      providers
      Megan M. Collins, MD, Zhining Ou, MS, Morgan M. Millar, PhD,  
      Michelle M. Kittleson, MD, PhD, Lindsay J. May, MD, FRCPC, Michelle S. Ploutz, MD, MPH,  
      Kimberly M. Molina, MD, Katherine G. Hayes, MD, FACOG, and Ashwin K. Lal, MD

1617  Frailty predicts outcomes in cystic fibrosis patients listed for lung transplantation
      Angela Koutsokera, MD, PhD, Jenna Sykes, MMath, Olga Theou, PhD,  
      Kenneth Rockwood, MD, Carolin Steinack, MD, Marie-France Derkenne, RN,  
      Christian Benden, MD, MBA, Thorsten Krueger, MD, Cecilia Chaparro, MD,  
      John-David Aubert, MD, Paola Soccol Gasche, MD, Christophe von Garnier, MD,  
      Elizabeth Tullis, MD, Anne L. Stephenson, MD, PhD, and Lianne G. Singer, MD

1628  Textbook outcome in lung transplantation: Planned venoarterial extracorporeal  
      membrane oxygenation versus off-pump support for patients without pulmonary  
      hypertension
      Samantha E. Halpern, MD, MHS, Mary C. Wright, MS, Gabrielle Madsen, MD,  
      Bryan Chow, MD, Chelsea S. Harris, MBA, John C. Haney, MD, Jacob A. Klapper, MD,  
      Brandi A. Bottiger, MD, and Matthew G. Hartwig, MD, MHS

1638  Residual mitral regurgitation in patients with left ventricular assist device support  
      – An INTERMACS analysis
      Rashmi Jain, MD, Lauren K. Truby, MD, and Veli K. Topkara, MD, MSc

1646  EDITORIAL: Residual mitral regurgitation and worse outcomes after LVAD implant:  
      Culprit or surrogate?
      Daniel J. Goldstein, MD

CASE ANECDOTES, COMMENTS, AND OPINIONS

1649  Kinetics of cellular and humoral responses to third COVID-19 vaccine in heart  
      transplant recipients: Correspondence
      Pathum Sokaromdee, PhD, and Viroj Wiwanitkit, MD

1649  Kinetics of cellular and humoral responses to third BNT162B2 COVID–19 vaccine  
      over six months in heart transplant recipients - Implications for the omicron  
      variant: Correspondence
      Yael Peled, MD, Jignseh K. Patel, MD, PhD, Arnon Afek, MD, and Michal Mandelboim, PhD
1650  Tackling the paradox of orthotropic heart transplantation from SARS-CoV-2 positive donors: A single center experience
Anantha Sriharsha Madgula, MD, Michael Nestasie, DO, Christopher Link, MD, Matthew M. Lander, MD, Deeksha Jandhyala, MD, Candice Lee, MD, and Manreet K. Kanwar, MD

1653  A rare case of late onset tacrolimus-induced leukoencephalopathy and coma after pediatric orthotopic heart transplantation
Marin Jacobwitz, CRNP, Danielle Burstein, MD, Susan Sotardi, MD, Katsuhide Maeda, MD, PhD, and Lauren A Beslow, MD, MSCE

1655  Association of gastrointestinal angiodysplasia with iron deficiency in heart failure patients: Comment to paper by Patel SR. et al.
Pablo Catalá-Ruiz, MD, Carles Díez-López, MD, and José González-Costello, MD, PhD