

1. Record Nr.	UNINA9911015964103321
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Titolo	Heart and Lung Transplantation : Historical Developments, Clinical Achievements, and Future Perspectives / / edited by Hikaru Matsuda, Shigeru Miyagawa, Yasushi Shintani
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9688-10-8
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (389 pages)
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Disciplina	617.954
Soggetti	Transplantation of organs, tissues, etc Transplantation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1 Historical Review -- Chapter 1 Heart and lung transplantation in Japan: How prepared and what to do now -- Part 2 Organ Preservation -- Chapter 2 Heart preservation: Myocardial protection, Cardioplegic arrest, Controlled reperfusion, and Transplantation -- Chapter 3 Lung Preservation: Cold static preservation solutions for lung transplantation -- Part 3 Mechanical Circulatory Support -- Chapter 4 Mechanical circulatory support in advanced heart failure: Acute support, Ventricular assist device, Bridge to transplantation, and Bridge to recovery -- Chapter 5 Role of implantable ventricular assist device in end-stage heart failure: bridge to transplantation and destination therapy -- Chapter 6 Destination therapy: Background and future prospects -- Part 4 Clinical achievements in heart and lung transplantation -- Chapter 7 Pioneering Heart Transplantation in Japan: A 25-Year Journey at Osaka University -- Chapter 8 Lung Transplantation at Osaka University -- Chapter 9: Combined heart and lung transplantation: Report of three cases -- Chapter 10 Heart Transplantation in National Cerebral and Cardiovascular Center -- Chapter 11 Surgical Considerations in Heart Transplantation: Technical view point -- Part V Medical management of heart failure update -- Chapter 12 Therapeutic Strategies for Advanced Heart Failure Related to Heart Transplantation -- Chapter 13 Medical and Surgical Management of Adult Congenital

Heart Disease -- Chapter 14 Social Reintegration in Survivors of Pediatric Heart Transplantation -- Part 6 Future Perspectives -- Chapter 15 Pediatric Heart Failure Management with Ventricular Assist Device and Heart Transplantation -- Chapter 16: Ventricular Assist Device for Children: State of the Art and Future Directions -- Chapter 17 Lung Donation after Circulatory Death: Current Challenges and Opportunities in United States -- Chapter 18 Advancing Donor Lung Preservation and Repair: The Role of Machine Perfusion in Modern Lung Transplantation -- Chapter 19 Marginal donors in heart transplantation: Development of a risk score formula for primary graft failure -- Chapter 20 Exploring advancements in DCD heart transplantation: Preservation techniques, ethical challenges, and clinical Outcomes -- Chapter 21 Multi-Organ Transplantation in the United States -- Chapter 22 Transplantation Immunology in Lung -- Chapter 23 Immunological Transplantation Tolerance-Availability of rat transplant models for clinical application -- Chapter 24 Aiming for the clinical application of xenotransplantation.

Sommario/riassunto

This edited volume explores current research and future developments in transplantation medicine. Key sections include advances in organ preservation, mechanical circulatory support, and emerging fields such as organ transplantation from cardiac death donors (DCD), pediatric application of ventricular assist device (VAD), immunological tolerance and xenotransplantation. With contributions from leading U.S. experts in pediatric VAD therapy, DCD heart and lung transplants, combined heart and kidney transplantation, the book provides a forward-looking perspective on how these innovations will transform the field. The book also details the historical journey of organ transplantation in Japan, from its early challenges to the significant revival of heart transplantation in 1999. It presents the impressive clinical results achieved at the First Department of Surgery at Osaka University Medical School. Heart and lung transplantation: Historical Developments, Clinical Achievements, and Future Perspectives is essential reading for medical professionals, researchers, and students interested in the latest advances and future directions in organ transplantation. .