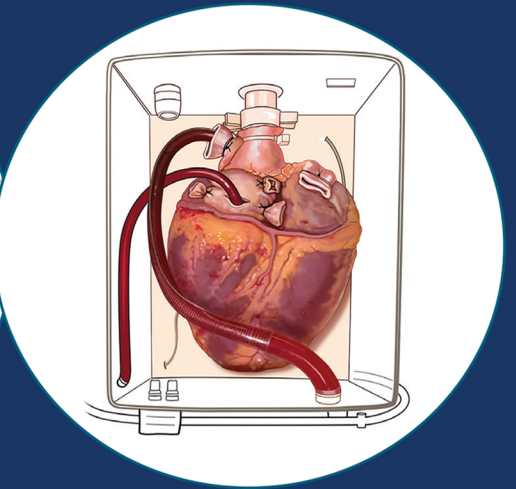
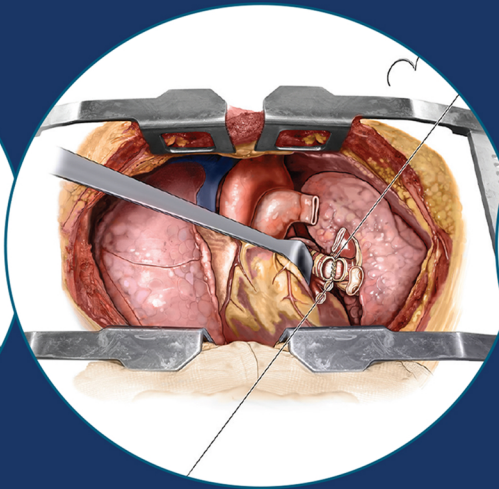
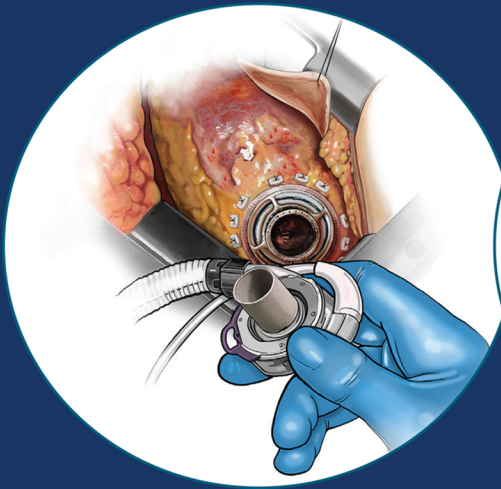


Volume 1

Textbook of
**Transplantation and Mechanical
Support for End-Stage
Heart and Lung Disease**



Edited by **Yaron D. Barac • Scott C. Silvestry
Mani A. Daneshmand • Daniel J. Goldstein**

WILEY Blackwell

Textbook of Transplantation and Mechanical Support for End-Stage Heart and Lung Disease

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Edited by Yaron D. Barac, Scott C. Silvestry, Mani A. Daneshmand, and Daniel J. Goldstein

Volume 1

WILEY

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Editors' Dedications

Yaron D. Barac

To Shikma, Hadar, Mika, and Jonathan for their never-ending love and understanding that make my world go around.

To my parents and parents in law for their belief, love, and support.

In memory of my grandparents Sarah and Abraham Dreshman (a heart failure patient), who survived the holocaust and have built a home and family in Israel.

Scott C. Silvestry

To Alison—without whom, nothing is possible.

To my co-editors—thank you for the wisdom, enthusiasm, and patience to complete this project.

Mani A. Daneshmand

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Daniel J. Goldstein

To Stephanie, Jeremy, and Benjamin my heartfelt gratitude for your support, love, and infinite patience.

Introduction

In this digital era of immediately accessible information and Wikipedia-ism—of knowledge with shorter expiration dates—one may genuinely question the need for a comprehensive medical textbook, regardless of publishing format. Those of us in clinical practice for more than a few years still wistfully recall the purchase of the major physical textbooks in our fields, written by key opinion leaders we admired. These books were the source of encyclopedic clinical data adorned by summary tables and graphs that would allow us to prepare for tests, enhance a grand round presentation, or serve as a starting point for research projects. And we would proudly display their voluminous spines on our library shelves, much like an athlete displays their medals and trophies.

And with time these books became us, their facts novel at first, then widely used, and now sewn into our fabric of clinical practices. And with further time, we passed our version of the information they imparted to us to our students, trainees, colleagues, and partners. Our own transplant textbooks have become old and patinaed, relegated to the display case. And so, we thought, it was time to take the baton and collect the knowledge of the clinical practices of our field, coalesce it, and pass it on along to start again.

The production of a good medical textbook requires defining the relevant content and convening a group of niche experts to lend their keyboards to create expert content. The process is invariably arduous and marked by passing deadlines, unanswered emails, endless permissions-to-reprint, edits and re-edits, and the distinct knowledge that the mandatory publication lag will fail to capture the latest trial or the newest guidelines. And yet,

despite these unavoidable realities, we feel that there is a need for a source of foundational knowledge that culls the practice of advanced heart and lung disease over different clinical environments, populations, geographies, and constraints. Given the breadth of the fields covered, this task cannot be accomplished in a review paper or even a dedicated journal issue. Those scholarly projects are different in scope and vision. The subject matter covered in this two-volume tome comprises the most resource intensive, costly, and life-altering therapies available in medicine and surgery, and as such, deserves the input and collaborative effort of the clinical leaders that are at the forefront of creating and sharing this foundational knowledge with those of us immersed in this tremendously rewarding and challenging field. From nascent developments like donation after circulatory death to new organ preservation strategies, from transplantation in sensitized patients to the clinical reality of xenotransplantation, and from cardiogenic shock teams to the challenges in durable mechanical support, it is here, delivered by a critical mass of expertise. So, whether you prefer the nostalgia of a physical book and the feel and smell of flipping pages or you are attracted to the portability and searchability of an e-reader, we strongly believe you will find this textbook to be an invaluable source of the most comprehensive material in the field.

The Editors

We have a hunger of the mind which asks for knowledge of all around us, and the more we gain, the more is our desire; the more we see, the more we are capable of seeing.

Maria Mitchell

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