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Gabriel C. Oniscu • John L. R. Forsythe  
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Editors

# Transplantation Surgery

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## Preface

In a very short time, transplantation has evolved from a quasi-experimental technique to a well-established treatment for end-organ failure. Whilst many factors played an important role, this rapid evolution was largely due to developments and refinements in surgical technique.

A successful transplant is underpinned by precise surgery. The complexity of transplantation surgery, be it kidney, liver, heart, intestine, or otherwise, requires detailed knowledge of anatomy and a mastery of a variety of techniques. Arguably, transplantation surgery is the epitome of surgery, as it encompasses aspects of all surgical specialties. Furthermore, transplantation is the only surgical field that requires the removal of organs in a perfect condition, to allow implantation and subsequent function in a different patient. This intricate correlation between donor and recipient surgery requires skills, knowledge, and, above all, a well-established transdisciplinary team.

This Atlas was developed with the above principles in mind and covers many aspects of transplantation surgery. Single-artist illustration ensures a cohesive approach throughout the chapters. Procedures are illustrated in a step-by-step fashion to allow the reader to visualise the techniques and the critical steps. Whilst it is difficult to capture every aspect and technical variation of all procedures, the book covers the principle aspects of organ retrieval and thoracic and abdominal transplantation. Separate chapters address specific technical issues in lung, heart, kidney, pancreas, and intestinal transplantation. Several chapters of the Atlas are dedicated to the developments in liver transplantation where innovative techniques such as split liver transplantation, auxiliary transplantation, or domino transplantation have increased access to transplantation to more patients than ever before.

The important contribution of living donation is acknowledged by several chapters illustrating living donor lung, liver, kidney, pancreas, and intestinal transplantation. Whilst the use of some of these approaches remains limited, there is no doubt that the advent of living donation has transformed transplantation surgery. Many of the innovative techniques developed for living donor transplantation have now been successfully transposed to deceased donor transplantation.

The *Atlas of Transplantation Surgery* is the result of a large collaborative effort, bringing together an experienced international team of authors who have pioneered many of the techniques described. As such, the book will be an ideal reference point for transplant surgeons, trainees, fellows, and other professionals involved in transplantation. The residents and fellows will find detailed descriptions of surgical procedures and additional recommended reading to consolidate the operative planning and knowledge. Equally, we hope that experienced surgeons will be able to benchmark their individual techniques against those described by the authors.

We believe that clinical transplantation is the best example of true transdisciplinary practice working in harmony. We wish to thank the patients and the whole clinical teams of the three editors and the authors. Without them, this book would have never been written.

Edinburgh, UK  
Bristol, UK  
Aurora, CO

Gabriel C. Oniscu  
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We would like to thank the patients and the clinical teams of the editors and authors for their support and for motivating us to complete this book.

As usual, none of this would have been possible without the tremendous support from our families.

Gabriel C. Oniscu  
John L. R. Forsythe  
Elizabeth A. Pomfret

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