# **Contributors**

#### **CONSULTING EDITOR**

## VIRGINIA R. LITLE, MD

Professor, Department of Surgery, Chief, Division of Thoracic Surgery, Boston University, Boston, Massachusetts, USA

## **EDITORS**

## VIRGINIA R. LITLE, MD

Professor, Department of Surgery, Chief, Division of Thoracic Surgery, Boston University, Boston, Massachusetts, USA

## ROBERT J. CANELLI, MD

Assistant Professor of Anesthesiology, Boston University School of Medicine, Anesthesiologist and Intensivist, Boston Medical Center, Boston, Massachusetts, USA

## **AUTHORS**

## RANDAL S. BLANK, MD, PhD

Professor, Division of General Anesthesiology, Department of Anesthesiology, University of Virginia Health System, Charlottesville, Virginia, USA

# LISA M. BROWN, MD, MAS

Section of General Thoracic Surgery, Department of Surgery, University of California, Davis Health, Sacramento, California, USA

# MATTHEW BYLER, MD, MBA

Surgical Resident, Division of Thoracic and Cardiovascular Surgery, Department of Surgery, University of Virginia Health System, Charlottesville, Virginia, USA

# ROBERT CANELLI, MD

Assistant Professor of Anesthesiology, Boston University School of Medicine, Anesthesiologist and Intensivist, Boston Medical Center, Boston, Massachusetts, USA

# ROBERT J. CERFOLIO, MD, MBA

Executive Vice President, Vice Dean, Chief of Hospital Operations, Professor of Cardiothoracic Surgery, Department of

Cardiothoracic Surgery, NYU Langone Health, New York, New York, USA

#### JAMES M. CLARK, MD

Section of General Thoracic Surgery, Department of Surgery, University of California, Davis Health, Sacramento, California, USA

# DAVID T. COOKE, MD

Section of General Thoracic Surgery, Department of Surgery, University of California, Davis Health, Sacramento, California, USA

# LISA COOPER, MD

Division of Aging, Brigham and Women's Hospital, Boston, Massachusetts, USA

#### AARON R. DEZUBE, MD

Division of Thoracic Surgery, Brigham and Women's Hospital, Boston, Massachusetts, USA

# TRAVIS C. GERACI, MD

Fellow, Department of Cardiothoracic Surgery, NYU Langone Health, New York, New York, USA

# ANDRE F. GOSLING, MD

Department of Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA

## NATHAN HAYWOOD, MD

Surgical Resident, Division of Thoracic and Cardiovascular Surgery, Department of Surgery, University of Virginia Health System, Charlottesville, Virginia, USA

## MICHAEL T. JAKLITSCH, MD

Division of Thoracic Surgery, Brigham and Women's Hospital, Boston, Massachusetts, USA

## WALKER JULLIARD, MD

Thoracic Surgery Fellow, Division of Thoracic and Cardiovascular Surgery, Department of Surgery, University of Virginia Health System, Charlottesville, Virginia, USA

# HARDEEP S. KALSI, MBBs, IBSc

Division of Medicine, Lungs for Living Research Centre, UCL Respiratory, University College London, London, United Kingdom

# MICHAEL S. KENT, MD

Division of Thoracic Surgery and Interventional Pulmonology, Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA

#### **VIRGINIA R. LITLE, MD**

Professor, Department of Surgery, Chief, Division of Thoracic Surgery, Boston University, Boston, Massachusetts, USA

## JAMES D. LUKETICH, MD, FACS

Henry T. Bahnson Professor of Cardiothoracic Surgery, Chairman, Department of Cardiothoracic Surgery, Chief, Division of Thoracic and Foregut Surgery, Department of Cardiothoracic Surgery Director, Thoracic Surgical Oncology, Director, UPMC Esophageal and Lung Surgery Institute, Director, Mark Ravitch/Leon C. Hirsch Center for Minimally Invasive Surgery, University of Pittsburgh Medical Center, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, USA

## **BRENT LURIA, MD**

Clinical Associate Professor, Department of Anesthesiology, NYU Langone Health, New York, New York, USA

## **KYLE MARSHALL, MD**

Assistant Professor of Anesthesiology, University of Colorado Anschutz Medical Campus, Aurora, Colorado, USA

## LINDA W. MARTIN, MD, MPH

Associate Professor, Division of Thoracic and Cardiovascular Surgery, Department of Surgery, University of Virginia Health System, Charlottesville, Virginia, USA

# THEOFILOS MATHEOS, MD

Assistant Professor of Anesthesiology and Surgery, Division of Critical Care Medicine, Medical Director of Pre-Surgical Evaluation Clinic, Department of Anesthesiology and Perioperative Medicine, University of Massachusetts Medical School, UMass Memorial Medical Center, Worcester, Massachusetts, USA

#### KELEIGH McLAUGHLIN, MD

CA-3 Resident in Anesthesiology, University of Colorado Anschutz Medical Campus, Aurora, Colorado, USA

## THOMAS J. MELVIN, MD

Department of Surgery, University of Pittsburgh Medical Center Mercy Hospital, Pittsburgh, Pennsylvania, USA

## NEAL NAVANI, MD, MSc, PhD

Division of Medicine, Lungs for Living Research Centre, UCL Respiratory, University College London, London, United Kingdom

#### IAN NICKEL. MD

Surgical Resident, Division of Thoracic and Cardiovascular Surgery, Department of Surgery, University of Virginia Health System, Charlottesville, Virginia, USA

## MORIHITO OKADA, MD, PhD

Professor of Surgery, Department of Surgical Oncology, Hiroshima University, Hiroshima City, Hiroshima, Japan

## LAKSHMI RAM, MD

Surgical Critical Care Fellow, Department of Anesthesiology, Division of Critical Care, UMass Memorial Medical Center, Worcester, Massachusetts, USA

## GERARDO RODRIGUEZ, MD

Associate Medical Director, Surgical Intensive Care Unit, Clinical Associate Professor of Anesthesiology and Surgery, Boston University School of Medicine, Boston Medical Center, Boston, Massachusetts, USA

## INDERPAL S. SARKARIA, MD, MBA, FACS

Assistant Professor of Cardiothoracic Surgery, Vice Chair, Clinical Affairs, Director of Thoracic Robotic Surgery, Co-Director, UPMC Esophageal Surgery Institute, Department of Cardiothoracic Surgery, University of Pittsburgh Medical Center, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, USA

## PRABHU SASANKAN, BS

NYU Grossman School of Medicine, NYU Langone Health, New York, New York, USA

#### **ERIK SCOTT, MD**

Surgical Resident, Division of Thoracic and Cardiovascular Surgery, Department of Surgery, University of Virginia Health System, Charlottesville, Virginia, USA

# SHAHZAD SHAEFI, MD, MPH

Department of Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA

#### **MELINA SHONI, MD**

Resident Physician, Department of Anesthesiology, Boston Medical Center, Boston, Massachusetts, USA

## PRAVEEN SRIDHAR, MD

General Surgery Resident, Division of Thoracic Surgery, Department of Surgery, Boston Medical Center, Boston University School of Medicine, Surgical Education Office, Boston, Massachusetts, USA

#### KEI SUZUKI, MD

Assistant Professor of Surgery, Division of Thoracic Surgery, Department of Surgery, Boston Medical Center, Boston University School of Medicine, Boston, Massachusetts, USA

## RICKY THAKRAR, MBBs, PhD, IBSc

Division of Medicine, Lungs for Living Research Centre, UCL Respiratory, University College London, London, United Kingdom

## AMMARA A. WATKINS, MD, MPH

Division of Thoracic Surgery and Interventional Pulmonology, Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA

#### JENNIFER L. WILSON, MD, MPH

Division of Thoracic Surgery and Interventional Pulmonology, Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA

## TADEUSZ D. WITEK, MD

Department of Cardiothoracic Surgery, University of Pittsburgh Medical Center, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, USA

## JONATHAN C. YEUNG, MD, PhD, FRCSC

Assistant Professor, Department of Surgery, University of Toronto, Toronto General Hospital, Toronto, Ontario, Canada

## AIMEE ZHANG, MD

Surgical Resident, Division of Thoracic and Cardiovascular Surgery, Department of Surgery, University of Virginia Health System, Charlottesville, Virginia, USA