



---

# Contents

Foreword by John Barrett, vii  
Foreword by Stephanie J Lee, viii  
Foreword by John Goldman, ix  
List of Contributors, x

## Section 1 Late effects concepts, 1

- 1 Introduction, 3  
*Bipin N Savani*
- 2 Overview: transplant data and increasing numbers of long-term survivors, 7  
*Jakob R Passweg and Helen Baldomero*
- 3 Long-term transplant clinic setup, 11  
*André Tichelli, Joerg P Halter, Jakob R Passweg, and Alicia Rovó*
- 4 Late effects after allogeneic hematopoietic stem cell transplantation, 21  
*Shahrukh Hashmi and Mark R Litzow*
- 5 Late effects after autologous hematopoietic stem cell transplantation, 31  
*Sairah Ahmed and Yago Nieto*
- 6 Graft-versus-host disease and late effects after hematopoietic stem cell transplantation, 43  
*Gérard Socié*
- 7 Prominent role of allied health professionals (nurse practitioners, physician assistants, others) in long-term follow-up after hematopoietic stem cell transplantation, 52  
*Catherine E Lucid*

## Section 2 Management, 55

- 8 Screening and prevention guidelines for hematopoietic cell transplant survivors, 57  
*Navneet S Majhail and J Douglas Rizzo*

- 9 Secondary malignancies: prevalence, screening, prevention, and management guidelines, 65  
*Paolo F Caimi and Hillard M Lazarus*
- 10 Cutaneous chronic graft-versus-host disease, 77  
*Attilio Olivieri, Daniela Massi, Andrea Bacigalupo, and Anna Campanati*
- 11 Anti-infective prophylaxis, immunization and prevention of recurrent infectious complications in long-term survivors, 106  
*John P Galvin and Jayesh Mehta*
- 12 Seasonal virus infections: prevention and management guidelines, 116  
*Gaurav Trikha and John R Wingard*
- 13 Exposure to family members: infections and recent live vaccinations, 130  
*Brian G Engelhardt and James E Crowe, Jr*
- 14 Late pulmonary complications after allogeneic hematopoietic stem cell transplantation: bronchiolitis obliterans syndrome (BOS) and organizing pneumonia (OP), 141  
*Lee Gazourian, Gerald L Weinhouse, Joseph H Antin, and Vincent T Ho*
- 15 Post-transplantation bone disease: prevalence, monitoring, prevention, and management guidelines, 151  
*Kathryn Dahir, Brandon Perry, and Shubhada Jagasia*
- 16 Ocular complications: prevalence, monitoring, prevention, and management guidelines, 162  
*André Tichelli and Alicia Rovó*
- 17 Oral complications in hematopoietic stem cell transplantation survivorship, 172  
*Sharon Elad, Corey Cutler, and Nathaniel Treister*
- 18 Sexual dysfunction in long-term survivors: monitoring and management, 183  
*Andrea L Utz and Shubhada Jagasia*

- 
- 19 Fertility issues, contraception, and pregnancy outcome in long-term survivors, 193  
*Alicia Rovó, Nina Salooja, Carl P Schwarze, Joerg P Halter, and André Tichelli*
- 20 Follow-up of children after hematopoietic stem cell transplantation: growth and development, 203  
*Kristina K Hardy, David A Jacobsohn, and Evelio Perez-Albuerne*
- 21 Posttransplant diabetes mellitus: monitoring, prevention, and management guidelines, 215  
*Prathima Jasti, Shichun Bao, and Shubhada Jagasia*
- 22 Thyroid disease: monitoring and management guidelines, 225  
*M Kathleen Figaro, Cheryl A Fassler, Shubhada Jagasia, and Vipul T Lakhani*
- 23 Special issues related to female long-term survivors, 233  
*Melissa A Merideth, Kristin Clay Chabbaria, Tajana Klepac Pulanic, and Pamela Stratton*
- 24 Cardiac and vascular complications in long-term survivors after hematopoietic stem cell transplantation, 244  
*Alicia Rovó and André Tichelli*
- 25 Hyperlipidemia: prevalence, monitoring, management, interactions with immunosuppressive agents, and follow-up, 258  
*Dara L Eckerle Mize, Shubhada Jagasia, and Jeffrey B Boord*
- 26 Hypertension management in long-term survivors, 269  
*Imad Abboud*
- 27 Gastrointestinal complications of hematopoietic cell transplantation, 276  
*Preet Bagi, Niharika Samala, Steven Pavletic, and Theo Heller*
- 28 Hepatic complications of hematopoietic stem cell transplantation, 286  
*Niharika Samala, Preet Bagi, Theo Heller, and Steven Pavletic*
- 29 Monitoring and management of hepatitis B, hepatitis C, and HIV infection before and after transplantation, 294  
*Keith Lockett and Stephen Dummer*
- 30 Prevention and management of renal complications in long-term survivors, 304  
*Michael Dickenmann and Joerg P Halter*
- 31 Immunosuppressive agents and monitoring in long-term survivors, 314  
*Paul Shaughnessy and Helen Leather*
- Section 3 Supportive care for long-term survivors after HSCT, 321**
- 32 Nutritional assessments and nutritional supplementation for long-term transplant survivors: multivitamins, vitamin D, calcium, antioxidants, and minerals, 323  
*Lauren Zatarain, LaQuisa Hill, Daniel R Thomas, and Stacey A Goodman*
- 33 Daily routines and guidelines: driving, infection isolation, masks, food/diet, activities, exercise, pets, sun exposures, and others, 332  
*Angela M Woods*
- 34 Caregivers of long-term survivors, 340  
*Elizabeth Wulff-Burchfield*
- 35 Health-related quality of life in adult and pediatric survivors of hematopoietic stem cell transplantation, 345  
*Margaret Bevans and Lori Wiener*
- 36 Prevalent psychosocial adjustment issues and solutions: lifestyle and social challenges, 368  
*Katrina M Stokes*
- 37 A patient's perspective: concepts of long-term survivor support groups and their roles, 376  
*Michael W Brown*
- APPENDIX 1 NMDP/Be The Match posttransplant guidelines resources, 379  
*Darlene Haven*
- APPENDIX 2 Long-term follow-up calendar, 381  
*André Tichelli, Joerg P Halter, Jakob R Passweg, and Alicia Rovó*
- APPENDIX 3 Commonly used transplant-related medications in long-term survivors, 385  
*Melissa Logue*
- Index, 387