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HCT -- 16. Mobilization and Collection of HSC -- 17. Mobilization and Collection of HSC in Children -- 18. Procurement and Management of Cord Blood Unit for allogeneic transplantation -- 19. Graft Manipulation -- 20. Processing, Cryopreserving and Controlling the Quality of HSC -- 21. Documentation of Engraftment and Chimerism After HCT -- 22. Short- and Long-Term Controls After HCT -- Part IV . General Management of the Patient -- 23. Vascular Access -- 24. Transfusion Support -- 25. Nutritional Support -- 26. GVHD Prophylaxis -- 27. Infection Control and Isolation Procedures -- 28. General Management of the Patient: Specific Aspects of Infectious Disease Supportive Care in Children -- 29. Vaccinations -- 30. Psychological Morbidity and Care -- 31. Clinically Relevant Drug Interactions in HCT -- 32. The Roles of the HCT Nurse -- 33. Ethical Issues in HCT -- 34. Quality of Life Assessment After HCT for Pediatric and Adults -- Part V. HCT Complications and Management -- 35. Neutropenic Fever -- 36. Bacterial Infections -- 37. Invasive fungal diseases -- 38. Viral Infections -- 39. Other Life-Threatening Infections -- 40. Bleeding and Thrombotic Complications -- 41. Graft Failure -- 42. Early complications of endothelial origin -- 43. Acute Graft-Versus-Host Disease -- 44. Chronic Graft-Versus-Host Disease -- 45. Post-transplant lymphoproliferative syndromes -- 46. Iron Overload -- 47. Secondary Neoplasia (Other than PTLPS) -- Part VI . Specific Organ Complications -- 48. Ocular and Oral Complications -- 49. Hepatic complications -- 50. Gastrointestinal Complications -- 51. Haemorrhagic Cystitis and Renal Dysfunction -- 52. Noninfectious Pulmonary Complications -- 53. Neurological Complications -- 54. Skin, Hair and Musculoskeletal Complications -- 55. Cardiovascular Diseases and Metabolic Syndrome -- 56. Endocrine Disorders, Fertility and Sexual Health -- Part VII . Prevention and Management of Relapse -- 57. Monitoring Measurable Residual Disease in ALL and AML -- 58. Prevention and Treatment of Relapse by Drugs -- 59. Delayed transfer of immune cells, or the art of donor lymphocyte infusion (DLI) 2.0 -- 60. Cellular Therapy with Engineered T Cells, Efficacy and Side Effects: Gene Editing/Gene Therapy -- 61. Mechanisms of Immune Resistance -- 62. Regulatory Aspects Of Atmp Versus Minimally Manipulated Immune Cells -- Part VIII . Specific Modalities of HCT and Management -- 63. At Home HCT -- 64. Role Of Umbilical Cord Blood Transplantation -- 65. Haploidentical HCT -- 66. Photopheresis in Adults and Pediatrics -- 67. Overweight and obese patients -- 68. HCT in Elderly Patients -- 69. Feasibility and Experiences of HCT in Resource-constrained Settings -- Part IX . Indications and Results -- 70. AML in adults -- 71. Acute Myeloid Leukemia in Children -- 72. Acute Lymphoblastic Leukemia in Adults -- 73. Acute Lymphoblastic Leukemia in Children and Adolescents -- 74. Myelodysplastic Neoplasms/Syndromes (MDS) -- 75. Allogeneic hematopoietic cell transplantation in pediatric MDS including refractory cytopenia of childhood and in juvenile myelomonocytic leukemia -- 76. Myelodysplastic/Myeloproliferative Neoplasms -- 77. Myeloproliferative Neoplasms -- 78. Acquired bone marrow failure: Severe Aplastic Anemia and Paroxysmal nocturnal hemoglobinuria -- 79. Fanconi Anemia and Other Hereditary Bone Marrow Failure Syndromes -- 80. Hemoglobinopathies (Sickle Cell Disease and Thalassemia) -- 81. Multiple Myeloma -- 82. Systemic Light Chain Amyloidosis -- 83. Poems Syndrome And Disease Produced By Other Monoclonal IGS -- 84. Indolent Lymphoma -- 85. CHRONIC LYMPHOCYTIC LEUKEMIA -- 86. Large B-Cell Lymphoma -- 87. Mantle Cell Lymphoma -- 88. Other B- and T-Aggressive Lymphomas & Lymphomas Associated with HIV -- 89. Classical Hodgkin's Lymphoma -- 90. Inborn errors of immunity --

91. Inborn Errors of Metabolism and Osteopetrosis -- 92. Autoimmune Disease -- 93. CART cells & other cell therapies (ie MSC, Tregs) in autoimmune diseases -- 94. Solid Tumours.

Sommario/riassunto

This Open Access 2nd edition of the EBMT handbook with its new format, addresses the latest developments and innovations in hematopoietic cell transplantation and cellular therapy. Consisting of 94 chapters, it has been written by 210 leading experts in the field. Discussing all types of hematopoietic cell transplantation, including selection of stem cell sources, it also covers the indications for transplantation, the management of early and late complications as well as the new and rapidly evolving field of cellular therapies and new infections (COVID-19). This book provides an unparalleled description of current practices to enhance readers' knowledge and practice skills.
