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Nota di contenuto	History of Bone Marrow Transplantation -- Section I: Biology of Bone Marrow Transplantation-At the Benchside -- Hematopoietic Stem cell Biology-Basics -- Innovations in Understanding Hematopoietic Transplant Biology -- HLA in Stem Cell Transplant-Finding the Match -- Therapeutic Use of Hematopoietic Stem cells-Benign and Malignant Diseases -- Biology of Graft Versus Host Disease -- Section II: Bone Marrow Transplantation-the Procedure -- Types of Bone Marrow Transplant and Indications -- Allogeneic Stem Cell Transplant-Overview -- Haploidentical Stem Cell Transplantation- a Game Changer? -- Autologous Stem Cell Transplant -- Donor Selection for Stem Cell Transplant -- Conditioning in Bone Marrow Transplant -- Immunosuppressive Therapy -- Transplant Pharmacology -- Radiation Therapy in HSCT -- Graft Versus Host Disease -- Graft Failure in Stem Cell Transplant -- Immunomodulation in Bone Marrow Transplantation -- Pre-transplant Evaluation of Recipient and Donor -- Setting up the Bone Marrow Transplantation Unit -- Section III: Handling the Stem Cells -- Hematopoietic Stem Cell Collection Techniques -- Ex Vivo

Manipulation of Stem Cells -- Cryopreservation in HSCT -- Section IV: Supportive Care in Bone Marrow Transplantation -- Acute Complications in HSCT -- Infections in Bone Marrow Transplant Patients -- Blood Product Support in HSCT -- Nutritional Issues in HSCT Patients -- Psycho-social Issues in Bone Marrow Transplantation -- Pediatric Bone Marrow Transplantations -- Special Challenges -- Long Term Follow Up and Chronic Complications in Post Stem Cell Transplant Patients -- Section V: Epidemiology of Bone Marrow Transplantation -- Bone Marrow Transplant Data Management and Registries -- Outcomes of Bone Marrow Transplantation -- Section VI: Newer Trends -- Future of Hematopoietic Stem Cell Transplant -- Cellular Therapy -- Use of Cellular Therapy in Cancer and Infections -- Section VII: Case Studies in Bone Marrow Transplantation.

Sommario/riassunto

Bone Marrow transplantation or Hematopoietic stem cell transplantation is a life saving procedure in a number of diseases, hematological and non hematological, which fail alternative medical management or have no other treatment options. It has transformed the lives of thousands of patients and their families around the world battling with fatal or debilitating diseases. There are many unique aspects of bone marrow transplantation which makes it very different from solid organ transplants. There is an enormous amount of research going on in this field both at clinical and basic science levels. With the rapidly changing world and field of transplantation, there is a need for an authoritative and up to date resource for transplant professionals. This book titled Contemporary Bone Marrow Transplantation aims to be a reference text comprehensively covering various facets of hematopoietic stem cell transplants with latest insights about the technique and basic science behind it . The book is the product of collective effort of transplant professionals round the world, and will reflect their experience as well as the current standard of care practices in Stem cell transplantation. The book will be divided into different sections focusing on the basic science of bone marrow transplant, the technical aspects of the procedure itself and the supportive care of transplant patients. There will also be a section each on epidemiology, upcoming trends and also case studies , which will discuss real case scenarios from the experience of the authors, to illustrate the practical challenges in managing bone marrow transplant recipients.
