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Nota di contenuto	Section1-introduction to the basics of stem cell transplant and t cells -- history of stem cell transplant -- basics of stem cell transplant -- hematopoiesis -- t cell development-1 -- t cell development-2 -- role of thymus -- immunology of stem cell transplant -- early t precursor cell -- regulatory t cells -- tolerance induction -- section 2: b cells and dendritic cells -- b cells -- dendritic cells -- section 3: diseases of t cells -- t cell malignancies -- primary immunodeficiency diseases -- section 4: pre-transplant procedures -- apheresis -- cryopreservation -- section 5: radio-chemotherapeutic agents used in stem cell transplant -- classification of conditioning regimens -- chemotherapeutic agents used in stem cell transplant -- role of anti-thymocyte globulin in stem cell transplant -- total body irradiation -- section 6: autologous stem cell transplant -- indications for autologous stem cell transplant -- stem cell transplant for autoimmune diseases -- stem cell transplant for hodgkin lymphoma -- stem cell transplant for b cell non-hodgkin lymphoma -- stem cell transplant for t cell non-hodgkin lymphoma -- stem cell transplant for plasma cell dyscrasias -- section 7: allogeneic stem cell transplant -- indications allogeneic stem cell transplant -- stem cell transplant for severe aplastic anemia

-- stem cell transplant for hemoglobinopathies -- stem cell transplant for acute lymphoblastic leukemia -- stem cell transplant for acute myeloblastic leukemia -- stem cell transplant for myelofibrosis -- section 8: haploidentical stem cell transplant -- haploidentical stem cell transplant -- section 9: graft-versus-host disease -- acute gvhd -- chronic gvhd -- section 10: post transplant monitoring and management -- immune reconstitution following stem cell transplant -- drugs used post stem cell transplant -- chimerism post stem cell transplant -- post transplant immunosuppression -- donor lymphocyte infusion -- adoptive t cell therapy -- section 11: infections post stem cell transplant -- bacterial infections post stem cell transplant -- clostridium difficile infection in stem cell transplant recipients -- cytomegalovirus infection post stem cell transplant -- fungal infections post stem cell transplant -- viral infections in patients undergoing chemotherapy and stem cell transplant -- pneumocystis jirovecii in patients undergoing chemotherapy and stem cell transplant -- section 12: complications post stem cell transplant -- complications in patients post stem cell transplant -- engraftment syndrome post stem cell transplant -- hemorrhagic cystitis post stem cell transplant -- sinusoidal obstruction syndrome in patients post stem cell transplant -- relapse following allogeneic stem cell transplant -- abo mismatched stem cell transplant and related complications -- cytopenias post stem cell transplant -- section 13: miscellaneous -- pre-transplant evaluation -- major histocompatibility complex -- vaccination post stem cell transplant -- hemophagocytic lymphohistiocytosis -- electrolyte management during stem cell transplant -- miscellaneous questions.

Sommario/riassunto

This book is quick guide on the hematopoietic stem cell transplant (SCT), also called bone marrow transplant (BMT) - an evolving field of hematology and hemato-oncology. This book covers the various types of stem cell transplants like autologous and allogeneic stem cell transplants, indications, ways of doing a transplant, and stem cell transplants basic principles. Written in a question-answer format, readers will find it more interesting as one question sequentially leads to another. This book explains the complications of SCT in individual chapters along with the biology of T cells which are the most important cells involved in the success of SCT This book is beneficial to the budding hematologists, oncologists, and postgraduates interested in SCT and helps students in their exams. The book would be helpful for readers globally as SCT is a procedure done worldwide and is an ever-increasing field for treating various benign and malignant hematological diseases.
