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Hematologic Malignancies: Acute Leukemias Allogeneic Stem Cell Transplantation *Acute Leukemia* **Handbook of Acute Leukemia Acute Leukemias Pathophysiology of Blood Disorders Treatment of Acute Leukemias** *Childhood Acute Lymphoblastic Leukemia* **Acute Myeloid Leukemia** *Acute Leukemias IX* **Tumors in Adolescents and Young Adults Acute Leukemia Clinical Management of Acute Lymphoblastic Leukemia** Clinical Epidemiology of Acute Lymphoblastic Leukemia Pediatric Acute Lymphoblastic Leukemia Hematology **New Findings on Aclarubicin in the Treatment of Acute Myeloid Leukemia** Leukemia Etiology of Acute Leukemias in Children *Holland-Frei Cancer Medicine Acute Leukemias VI* **Biology and Therapy of Acute Leukemia Minimal Residual Disease in Acute Leukemia Acute Leukemias Fast Facts: Acute Myeloid Leukemia Diagnosis/Therapy Acute Leukem** *New Agents for the Treatment of Acute Lymphoblastic Leukemia* **Acute Leukemias VII Acute Leukemias II Recent Advances in Cell Biology of Acute Leukemia Acute Leukemias IV Acute Leukemias V Williams Hematology, 9E** Acute Lymphoblastic Leukemia Acute Leukemia: New Insights for the Healthcare Professional: 2013 Edition Acute Leukemia: New Insights for the Healthcare Professional: 2011 Edition **Fast Facts: Leukemia Acute Myelogenous Leukemia** *Hematologic Malignancies: Acute Leukemias* **New Perspectives on Pediatric Acute Leukemia**

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Leukemia is a hematologic malignancy arising from hematopoietic stem cells (HSCs) in the bone marrow. Starting with a detailed description of hematopoiesis and what goes wrong in leukemia, this concise guide covers all aspects of the four most common subtypes of the disease. Although the incidence and prevalence of leukemia are rising worldwide, survival rates are also increasing. However, both the effects of the disease and the adverse effects of treatment remain complex challenges. Yet, as our understanding of the molecular landscape increases, therapeutic options are becoming more personalized. This revised and updated second edition of 'Fast Facts: Leukemia' addresses the causes and risk factors for each subtype of leukemia, the initial and confirmatory diagnostic tests, and the latest treatment options. Designed as a comprehensive primer for physician assistants, nurse practitioners, primary care providers, oncology nurses, hematology/ oncology trainees and pharmacists, this resource will help the non-specialist and those in training to identify leukemia early and provide a thorough understanding of the pathology and genetic basis of the disease, treatment options, and effective approaches to emergency and supportive care. Table of Contents: • Understanding blood and its components • What is leukemia? • Epidemiology, etiology and risk factors • Diagnosis • Staging and general management • Supportive care • Emergencies in leukemia Acute leukemia a quite homogenous disease failed to break through the sound barriere of when untreated reveals a substantial hetero unsatisfactory cure rates even in special sub geneity in its response to therapy. While cure groups. While new protocols including more is achieved in a certain proportion of pa effective supportive care show some increase tients other cases prove to be highly resis in the initial response rates and certain im tant. The curability is superior in acute provements in the long-term results, no ben lymphoblastic (ALL) than in acute myeloid eficial effect on the relapse rate during the (AML) leukemia and - within both type- first 1 Y2 years emerged from any of these higher in children as compared to adults. regimens. Thus, high chances for cure are The two age groups and cell types can be presently restricted to children with ALL further subdivided into prognostic groups and to lesser proportions children with by special diagnostic features. Thus, in AML and adults with ALL and AML. Childhood acute leukemias are one of the main causes of death in children aged 1 to 14 years in some countries; and unfortunately, we have been unable to prevent it. Certainly, a good parcel of it is due to the poor understanding about its etiology. This book aims to describe the most important theories and hypothesis regarding childhood acute leukemia. Written by the most outstanding researchers in the field, this book intends to contribute to a greater understanding of the etiology of this disease. It goes beyond the simple and common analysis of risk factors, which hardly allows us to draw definite conclusions. By addressing the etiology of the disease, discussing from molecular biology until epidemiology and clinical manifestations, this book will guide present and future approaches, contributing for a better clinical management of leukemia in children. The knowledge regarding etiology is a crucial step for a better evaluation, prevention and treatment of a disease. Thus, this book finally intends to provide such knowledge, allowing physicians and practitioners to

a better manage of childhood acute leukemias. The rates of acute leukemia cure have gradually improved over the last decade. Clinical study results reflect the impact of chemotherapy intensity and duration, the role of prolonged maintenance, intensified consolidation or very early intensification. Further progress has also been achieved in bone marrow trans plantation, and recent prospective studies and meta-analyses have contributed comparisons of the high antileukemic efficacy of bone marrow transplantation to that of improved chemotherapy. This allows a more successful combining of the two forms of treatment. New prognostic factors have emerged from both cytogenetic and molecular genetic research. Thus, the Philadelphia chromosome translocation and the bcr/abl gene rearrangement have proven to be the dominating risk factor in acute lymphoblastic leukemia. Since the frequency increases with age, differences in prognosis between children and adults can be explained. Evaluation of molecular and immunologic leukemia cell markers has provided a better understanding of residual leukemia in clinical remission, as a prognostic factor and in monitoring the effectiveness of the antileukemic strategy. Recent work on leukemic cell biology has resulted in novel therapeutic approaches such as terminal differentiation by all-trans-retinoic acid, modulation of chemotherapy by hematopoietic growth factors such as GM-CSF and enhancement of immunologic control by cytokines such as interleukin 2. New antimicrobial drugs and the application of mostly empiric anti-infectious strategies have helped reducing the therapeutic risk. Thus, a number of recent achievements have provided us with new options in the management of patients with acute leukemias. Acute Leukemia: An Illustrated Guide to Diagnosis and Treatment provides a comprehensive and concise visual reference on acute myeloid leukemia (AML) and acute lymphoblastic leukemia (ALL) seen in children and adults. This book addresses all aspects of AML and ALL including their risk factors, cytogenetics and mutational characteristics, diagnoses, clinical management and prognoses which are imperative and challenging for medical students, residents, hematology and medical oncology fellows, and even community oncologists and hematologists. It presents complex information relying predominantly on pictorial depictions rather than traditional text in a visually instructive format. It replaces the wordiness of a traditional textbook with original and adapted illustrations, instructive schemata and diagrams, photomicrographs, tables, detailed figure legends, and practical, ‘bite-sized’ text. The result is a visually engaging book that is easy to read, review, and remember. Crafted by world experts in the field, this digestible volume provides you with the must-know information that you can utilize when encountering AML and ALL patients who require immediate attention. Whether you are an early-career practitioner looking for quick guidance to managing a deadly disease or you are a seasoned clinician looking for a quick review of treatment protocols, this engaging format provides a unique and ‘go-to’ resource. Key Features: Contains over 40 tables and over 220 illustrations, histologic photomicrographs, flow diagrams, graphs, and schemata with detailed figure legends Presents complex scientific aspects such as cytogenetics and molecular mutations in a visually digestible and easy-to-understand format Provides helpful and evidence-based treatment recommendations when providing induction therapy, consolidation therapy, and bone marrow transplantation Includes unique chapters on managing psychosexual issues accompanying AML and ALL treatment as well as on the FDA drug development and clinical trial design process Includes digital access to the e-book as well as an online Image Bank The development of new techniques such as immuno phenotyping, cytogenetic investigations and, more recently, molecular studies has considerably increased our diagnostic repertoire and broadened our ideas about the biology of acute leukemias. While immunophenotyping with mono clonal antibodies has yielded increased diagnostic precision and made it possible to develop a highly reproducible classification of acute leukemias based on cell-biological features, further insights have been gained into the patho genetic mechanisms involved in leukemogenesis by means of cytogenetic detection of acquired structural chromosomal abnormalities. Analysis of the leukemia-associated chromo somal breakpoints using molecular techniques can now pinpoint many genomic sites essential for normal develop ment and maturation of hematopoietic cells but functionally disrupted in leukemic cells. The main goal of the international workshop that we held in Berlin with a select group of scientists and clinicians involved in leukemia research was to describe the state of the art and new developments in the immunologic, cytogenetic, and molecular characterization of acute leukemias and to discuss the clinical importance of cell biological features. After introductory survey lectures dealing with the immunological and molecular-biological characteristics of normal vs. malignant lymphatic and myeloid progenitor cells, the workshop centered on con tributions characterizing the immunophenotype and both numerical and structural chromosomal abnormalities in acute leukemias. This issue of Emerging Cancer Therapeutics provides a comprehensive review for practitioners on the current status of leukemia treatment. Leukemia treatment has undergone major change over the course of the past few years and Leukemia addresses current best practices in the light of the most recent evidence. With contributions from experts across the US and Canada, Leukemia details the current management of different types of leukemia and reviews new therapies in development for various forms of acute leukemia, chronic leukemia, myelodysplastic syndrome, and myeloproliferative disorders. Coverage includes new developments in hematopoitic cell transplantation, leukemia pathology and management, immunotherapy and targeted therapies. It is a valuable tool for clinicians, nurses, researchers, medical students, residents, and fellows. Emerging Cancer Therapeutics Series Titles Features: Editorial board of nationally recognized experts across the spectrum of Cancer Therapeutics In-depth, up-to-date expert reviews and analysis of major new developments in all areas of Cancer Therapeutics Issues edited by an authority in specific subject area Focuses on major topics in Cancer Therapeutics with in-depth articles covering advances in clinical and translational research developments, as well as clinical applications and experience Emphasizes multidisciplinary approaches to research and practice Since the original publication of Allogeneic Stem Cell Transplantation: Clinical Research and Practice, Allogeneic hematopoietic stem cell transplantation (HSC) has undergone several fast-paced changes. In this second edition, the editors have focused on topics relevant to evolving knowledge in the field in order to better guide clinicians in decision-making and management of their patients, as well as help lead laboratory investigators in new directions emanating from clinical observations. Some of the most respected clinicians and scientists in this discipline have responded to the recent advances in the field by providing state-of-the-art discussions addressing these topics in the second edition. The text covers the scope of human genomic variation, the methods of HLA typing and interpretation of high-resolution HLA results. Comprehensive and up-to-date, Allogeneic Stem Cell Transplantation: Clinical Research and Practice, Second Edition offers concise advice on today's best clinical practice and will be of significant benefit to all clinicians and researchers in allogeneic HSC transplantation. Holland-Frei Cancer Medicine, Ninth Edition, offers a balanced view of the most current knowledge of cancer science and clinical oncology practice. This all-new edition is the consummate reference source for medical oncologists, radiation oncologists, internists, surgical oncologists, and others who treat cancer patients. A translational perspective throughout, integrating cancer biology with cancer management providing an in depth understanding of the disease An emphasis on multidisciplinary, research-driven patient care to improve outcomes and optimal use of all appropriate therapies Cutting-edge coverage of personalized cancer care, including molecular diagnostics and therapeutics Concise, readable, clinically relevant text with algorithms, guidelines and insight into the use of both conventional and novel drugs Includes free access to the Wiley Digital Edition providing search across the book, the full reference list with web links, illustrations and photographs, and post-publication updates The field of adolescents and young adult (AYA) oncology is experiencing a very challenging time. This book is a guide to the key issues for any clinician and health professional managing AYA with cancer in Europe. Emphasis is on collaboration between adult and pediatric specialists. Authors present their perception of the current state of the most prominent primary issues in AYA oncology. Chapters cover cross-cutting issues such as disease epidemiology, systems of care, access to innovative therapy and late effects of treatment and survivorship for AYA-onset cancers. There are discussions of the latest developments and the most important cancer types for AYA, including the shared perspectives of adult and pediatric specialists. Throughout the book recurrent challenges to the AYA community are exposed and solutions proposed. Tumors in Adolescents and Young Adults is highly recommended to any oncologist or haematologist treating patients aged 15 to 39 diagnosed with cancer. It will also be of interest to other members of the multidisciplinary teams involved with this patient group. Since the introduction of new anthracycline derivatives and anthrachi none analogues a few years ago, aclacinomycin A (Aclarubicin) has become an established agent for the treatment of hematologic malig nancies. A special symposium was therefore held during the congress of the German Society of Hermatology and Oncology in Hannover in October 1989 to provide an up-to-date overv.iew. Leading experts from the United States, Sweden, and Germany reported on the results being

obtained with aclacinomycin A, alone or combined with other agents, in patients with acute leukemias and myelodysplastic syndromes. This book is based on their contributions. As regards single-agent treatment, aclacinomycin A in myelodys plastic syndromes is dealt with, as well as its application in older patients with acute myeloid leukemia. Four contributions are devoted to the use of aclacinomycin A in combination with conventional or intermediate dose cytosine arabinoside or etoposide in patients with relapsed or refractory acute myeloid leukemia. The results reported indicate that aclacinomycin A has substantial activity in the treatment of hematologic malignancies. In summary, this book provides a valuable update on the current status of aclacinomycin A as used by experts in the treatment of he matologic malignancies. Acute Leukemia: An Illustrated Guide to Diagnosis and Treatment provides a comprehensive and concise visual reference on acute myeloid leukemia (AML) and acute lymphoblastic leukemia (ALL) seen in children and adults. This book addresses all aspects of AML and ALL including their risk factors, cytogenetics and mutational characteristics, diagnoses, clinical management and prognoses which are imperative and challenging for medical students, residents, hematology and medical oncology fellows, and even community oncologists and hematologists. It presents complex information relying predominantly on pictorial depictions rather than traditional text in a visually instructive format. It replaces the wordiness of a traditional textbook with original and adapted illustrations, instructive schemata and diagrams, photomicrographs, tables, detailed figure legends, and practical, 'bite-sized' text. The result is a visually engaging book that is easy to read, review, and remember. Crafted by world experts in the field, this digestible volume provides you with the must-know information that you can utilize when encountering AML and ALL patients who require immediate attention. Whether you are an early-career practitioner looking for quick guidance to managing a deadly disease or you are a seasoned clinician looking for a quick review of treatment protocols, this engaging format provides a unique and 'go-to' resource. KEY FEATURES Contains over 40 tables and over 220 illustrations, histologic photomicrographs, flow diagrams, graphs, and schemata with detailed figure legends Presents complex scientific aspects such as cytogenetics and molecular mutations in a visually digestible and easy-to-understand format Provides helpful and evidence-based treatment recommendations when providing induction therapy, consolidation therapy, and bone marrow transplantation Includes unique chapters on managing psychosexual issues accompanying AML and ALL treatment as well as on the FDA drug development and clinical trial design process Includes digital access to the ebook as well as an online Image Bank For 10 years the book series Acute Leukemias has been providing updates on the rapid progress being made internationally concerning this group of diseases. The fifth volume mainly addressed experimental approaches, but the present issue presents both therapeutic and prognostic aspects of the most recent results from major multicenter clinical trials. Additional chapters report new trends in leukemia cell biology,the monitoring of minimal residual disease, and secondary leukemias, as well as new antileukemic drugs, antimicrobial strategies, and the use of cytokines. The combined efforts against acute leukemias described in this book explain the recent improvements in the outcome of patients suffering from acute leukemias. Better therapy of acute leukemias depends ultimately on better understanding of the distinction between leukemic and normal progenitor cells. This hugely important new book describes the current knowledge of acute leukemia biology and discusses new classification systems that have arisen as a result of emerging insights into pathogenesis. Estey, Faderl and Kantarjian, who all work at the respected Anderson Cancer Center in Houston, Texas, USA, examine in detail advances in the treatment of particular types of acute leukemia. Their book also covers the management of acute leukemia in general as well as the development of new therapies. This book will be extremely useful to clinicians. This year notes two major changes in the annual Detroit Cancer Symposium. The first is our intention of selecting top ics of broad interest to the cancer community and examining the subject from both a basic laboratory and clinical viewpoint. In this way, the importance of both elements of cancer research are noted and the interplay between them emphasized. Further, we believe that Symposia such as this act to stimulate the basic scientist and clinician to continue their studies with the know ledge of the impact that each has upon the other and the nec essary cooperation required to solve the cancer problem. The second change is the publication of this Symposium. The pre vious sixteen were not committed to manuscript form. Given the change in format and intent of the series, we believe that this and subsequent volumes will make important contributions to the cancer literature. The topic of "Biology and Therapy of Acute Leukemia" was chosen for the first Symposium because of its historical signif icance in cancer chemotherapy. The therapeutic rationale for human leukemia is the result of understanding the basic tumor biology largely derived from transplantable leukemias in exper imental animals. It is through these models, as discussed by Dr. Fred Valeriote, that we learned the cellular kinetics of leukemia, the antileukemic effects of new agents and the ef fect of growth perturbation by various chemotherapeutic agents and their combinations. Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The world's most highly regarded reference text on the mechanisms and clinical management of blood diseases A Doody's Core Title for 2019! Edition after edition, Williams Hematology has guided generations of clinicians, biomedical researchers, and trainees in many disciplines through the origins, pathophysiological mechanisms, and management of benign and malignant disorders of blood cells and coagulation proteins. It is acknowledged worldwide as the leading hematology resource, with editors who are internationally regarded for their research and clinical achievements and authors who are luminaries in their fields. The Ninth Edition of Williams Hematology is extensively revised to reflect the latest advancements in basic science, translational pathophysiology, and clinical practice. In addition to completely new chapters, it features a full-color presentation that includes 700 photographs, 300 of which are new to this edition, and 475 illustrations. Recognizing that blood and marrow cell morphology is at the heart of diagnostic hematology, informative color images of the relevant disease topics are conveniently integrated into each chapter, allowing easy access to illustrations of cell morphology important to diagnosis. Comprehensive in its depth and breath, this go-to textbook begins with the evaluation of the patient and progresses to the molecular and cellular underpinnings of normal and pathological hematology. Subsequent sections present disorders of the erythrocyte, granulocytes and monocytes, lymphocytes and plasma cells, malignant myeloid and lymphoid diseases, hemostasis and thrombosis, and transfusion medicine. This book provides an overview of the key developments in both acute lymphocytic leukemia and acute myeloid leukemia with a comprehensive guide to the epidemiology, pathogenesis, etiology, clinical manifestations, classification, diagnosis, and staging as well as the most recent developments in the therapeutic landscape for acute leukemia. The Handbook of Acute Leukemia offers readers a key resource into the future outlook for patients with leukemia and is edited and authored by internationally renowned experts in the field. Leukemia is cancer of the white blood cells and acute leukemia means the condition progresses rapidly and aggressively, requiring immediate treatment. Acute leukemia is classified according to the type of white blood cells that are affected: either lymphocytes and myeloid cells. Acute myelogenous leukemia (AML), is the most common form of leukemia in adults. AML is a deadly form of malignancy, the prognosis for which has not improved in the last two decades. More importantly, it is a malignancy that is seen in older adults, therefore the number of cases is likely to rise as the population ages. Over the past 15 years, genetic mechanisms underlying AML have begun to unfold. Additional research in this area has helped identify key components and characteristics. Consequently, targeted therapy of AML is receiving much attention. It is the hope of researchers that as with chronic myelogenous leukemia (CML), and the drug, Gleevec, a targeted therapy for AML will be discovered. Better therapy of acute leukemias depends ultimately on better understanding of the distinction between leukemic and normal progenitor cells. This hugely important new book describes the current knowledge of acute leukemia biology and discusses new classification systems that have arisen as a result of emerging insights into pathogenesis. Estey, Faderl and Kantarjian, who all work at the respected Anderson Cancer Center in Houston, Texas, USA, examine in detail advances in the treatment of particular types of acute leukemia. Their book also covers the management of acute leukemia in general as well as the development of new therapies. This book will be extremely useful to clinicians. This book provides a comprehensive and up-to-date review of all aspects of childhood Acute Lymphoblastic Leukemia, from basic biology to supportive care. It offers new insights into the genetic pre-disposition to the condition and discusses how response to early therapy and its basic biology are utilized to develop new prognostic stratification systems and target therapy. Readers will learn about current treatment and outcomes, such as immunotherapy and targeted therapy approaches. Supportive care and management of the condition in resource poor countries are also discussed in detail. This is an indispensable guide for research and laboratory scientists, pediatric hematologists as well as

specialist nurses involved in the care of childhood leukemia. This volume provides detailed, yet concise, information about clinical presentations and current therapy for acute leukemia, both myelogenous and lymphocytic. Newer trends, including biological response modifiers, are discussed at length and a chapter is devoted to the role of bone marrow transplantation in the management of patients with acute leukemia. Comprehensive referencing is provided and specific therapeutic regimens are provided with the expectation that these may prove useful to the reader. Diagnosis and Therapy of Acute Leukemia in Adults will provide very helpful information for trainees and specialists treating patients with leukemia and can also be used as a practical guide for all medical staff, both senior and junior. In addition this book will be useful to professional pharmacists and specialist nursing staff dealing with the management of patients with acute leukemia within both hospital and out-patient facilities. The majority of cancers present at a relatively advanced stage in which invasion within the primary organ is well established and metastases to lymph and distant organs are either clinically apparent or present at the microscopic level. However, it is increasingly recognized that the natural history of cancer formation is a long and complex path taking many years to develop to a clinically apparent stage in most cases. Furthermore, for most solid tumours there is a pre-invasive or intraepithelial stage of disease. This affords the opportunity for early detection and prevention of invasive disease and hence a cure. However, with this advancing knowledge comes a whole plethora of questions which will be explored in this monograph. Firstly, we need to understand the global burden of pre-invasive disease and what the public health implications might be for wide-scale screening programmes. In the western world we already have experience of screening for cervical, breast, prostate and more recently colon cancer. As well as their potential benefits these programmes have financial and psychosocial implications which need to be carefully weighed. This is especially true since many pre-invasive lesions will not progress to cancer in a individual’s lifetime. In addition, there are questions concerning whether screening reduces the cancer burden or in fact distorts the survival figures through lead-time bias. Secondly, at the level of epidemiology and molecular pathogenesis there are important questions regarding the aetiology of pre-invasive lesions; an understanding of which might lead to possible chemopreventive strategies. For example, it would be helpful to know the extent to which the likelihood of developing a pre-invasive lesion is influenced by lifestyle or genetic factors and how these factors influence the risk of progression to invasive disease. At the molecular level we need to understand the pathways and molecular mechanisms, both genetic and epigenetic, by which cells achieve the capacity to invade. Thirdly, in order make clinical progress we need biomarkers to identify and risk stratify individuals with pre-invasive lesions. These biomarkers might be applied to the serum as in Prostate Specific Antigen in prostate cancer or be applied to tissue samples, such as oestrogen receptor status in breast cancer. In order to utilize biomarkers in the context of a screening programme there are issue around the invasiveness of the test as well as its positive and negative predictive value. With advances in molecular imaging there is now the exciting possibility of incorporating a molecular tag to a non-invasive imaging modality. Fourthly, in order to justify screening early detection must be coupled to a treatment strategy. If the chemopreventive agent is very well tolerated, then as well as targeting high risk groups, one might consider treatment at the population level. Aspirin is one such drug which has been extensively assessed in the context of colon cancer chemoprevention trials. Trials of aspirin chemoprevention are now being applied to other cancers such as oesophageal adenocarcinoma and since many individuals take aspirin for .chemoprevention of cardiovascular disease the cancer incidence can be ascertained in these populations. In order to understand the more general issues raised from the discussions above it is useful to consider disease specific examples. Our understanding of pre-invasive disease varies according to the organ site and there are lessons to be learned from these experiences. For example, there is now the prospect of a vaccine for cervical cancer with important questions about how this might be applied to the high incidence areas of the developing world. On the other hand, ductal carcinoma in situ is currently treated by mastectomy which is more radical than the treatment received by many women with invasive disease. Oesophageal adenocarcinoma, which is my own area of expertise is interesting because of the rapid rise in incidence in the western world and the clinically accessible pre-invasive lesion called Barrett’s oesophagus. However, most cases of Barrett’s oesophagus remain undiagnosed and it is not yet clear how to effectively diagnose, monitor and treat this condition without recourse to mass endoscopy with substantial cost implications. In conclusion, in an era in which preventive medicine is a major concern for consumers, health-policy makers and politicians pre-invasive disease is likely to become a major part of cancer medicine. Acute lymphoblastic leukaemia (ALL) is a malignant disorder of the bone marrow in which a lymphoid precursor cell becomes genetically altered resulting in dysregulated proliferation and clonal expansion of neoplastic cells. It is the most common malignancy in children, representing nearly one third of all paediatric cancers. In this book, the authors present topical research in the study of acute lymphoblastic leukaemia including genome wide association studies in paediatric acute lymphoblastic leukaemia; mice deficient for the Slp65 signalling protein which is a model for ALL; histone deacetylase inhibitors and maintenance therapy in Ph negative adult acute lymphoblastic leukaemia. This book, written by a team of leading experts, provides a comprehensive overview of acute myeloid leukemia (AML), the most frequent acute leukemia in adults. The opening chapters present current knowledge of epidemiology, etiologic factors, and the pathogenesis and molecular development of AML. Detailed guidance is offered on laboratory and clinical diagnostic workup and disease classification, and the patient- and disease-related factors that determine prognosis and treatment allocation are identified. On the basis of these general considerations, initial treatments in patients considered fit for intensive treatment and in older and co-morbid patients are reviewed, and the available relapse treatment strategies, explained. For all clinical scenarios, the most recent data on the optimal use of newly approved agents in different AML subgroups are presented. Separate chapters address the treatment of acute promyelocytic leukemia, current practice of allogeneic stem cell transplantation, and special clinical situations. Finally, promising approaches in drug development, current standards and challenges in assessment of measurable residual disease, immune approaches, and ideas for innovative trial designs are considered. The objective of the treatment of acute leukemia involves the eradication of all neoplastic cells, including the last one. Ideally, treatment should be controlled by monitoring cell kill. If the last cells could be discovered and their biological properties be determined, the qualitative and quantitative effects of treatment should be directly evaluable. This should ultimately permit a calculated tumor cell reduction thereby avoiding overtreatment and excessive toxicity and thus providing a basis for individualized antileukemic treatment. In recent years several new developments have contributed to the selective discovery of minimal numbers of leukemic cells which are hidden among the normal cells in the marrow cavities. These methods are the first steps to the realization of the therapeutic goals indicated above. They include the production and ap plication of monoclonal antibodies against differentiation antigens on the cell sur face, the use of pulse cytophotometry - and cell sorter techniques, the employment of cytogenetics, the development of culture techniques for selective growth of precursor cells and several others. These methodologies offer prospects for refined diagnosis and, as far as the elimination of leukemic cells is concerned, the further development of autologous bone marrow transplantation. Eliminating tumor cells from autologous grafts requires the detailed knowledge of the cellular inter relationships within the neoplasm so that the neoplastic cells responsible for tumor propagation are specifically removed. Recognition and characterization of the clonogenic cells of the neoplasm should then lead to determining their sensitivity to the therapeutic agents which are clinically applied. This book provides a state-of-the-art overview of acute lymphoblastic leukemia (ALL). The first section of the book presents the translational science behind ALL, reviewing molecular pathways and targets in B- and T-cell ALL, as well as techniques and application of minimal residual disease testing. The second section spotlights ALL management strategies for patients across the spectrum, from infants to the elderly. The final section outlines current and new advances in ALL treatment, including new monoclonal antibodies and allogenic and autologous HSCT. Written by experts in the field, Clinical Management of Acute Lymphoblastic Leukemia: From Bench to Bedside is a valuable resource that will guide patient management, stimulate investigative efforts, and increase understanding of the biologic underpinnings of the disease. This last year has seen the approval of the first targeted treatments for acute myeloid leukemia (AML) - following decades with no new developments and a poor prognosis for most patients with the disease. The new drugs reflect the remarkable progress that has been made in our understanding of the pathophysiology of AML and its underlying cytogenetic and molecular abnormalities - which differ not only between patients but also within a patient over time and with treatment. 'Fast Facts: Acute Myeloid Leukemia' provides a comprehensive yet concise foundation for understanding AML: from basic

epidemiology, diagnosis, classification and the current 'standard' treatment, through to recent advances in our understanding of the cytogenetic and molecular underpinnings of the disease, such as the IDH2 mutation, and the future for tailored therapy. It will be useful to primary care providers, medical students, specialist nurses, junior doctors and allied healthcare professionals who want to develop a thorough grounding in our evolving understanding of AML and its treatment. Contents: • Epidemiology, pathophysiology and etiology • Diagnosis • Treatment • Supportive care • Prognosis and monitoring • Emerging treatments • Useful resources This book describes different perspectives of childhood acute lymphoblastic leukemia. The approach includes aspects of molecular epidemiology, particularly molecular features that influence the genesis and prognosis of the disease. Some aspects of the prognosis of lymphoblastic leukemias are very detailed, highlighting the use of molecular biology in the early identification of complications that may occur in diseased patients. The authors of the present book conform a Mexican group who identifies the causes of leukemia, and they summarize their experience in research, results and proposals for future studies. A causal model is included in which the authors hypothesized the origin of acute lymphoblastic leukemias, particularly in children. This hypothesis can be useful to better understand other cancers during childhood. This book will help the reader to identify different molecular aspects involved in leukemia, and its relation to the development and evolution of the disease. In Treatment of Acute Leukemias, international experts not only review the state-of-the-art in managing children and adults with acute leukemia, but also debate the pros and cons of current controversial and problematic issues. The book summarizes the best diagnostic and treatment practices for acute leukemias in children, adolescents, and adults. Among the therapies discussed are methotrexate, asparaginase, antipurines, epipodophyllotoxins, hematopoietic stem cell transplantation, hematopoietic growth factors, and immunotherapy. A concise full-color review of the mechanisms of blood diseases and disorders – based on a Harvard Medical School hematology course 4 STAR DOODY'S REVIEW! "This is a superb book. Deceptively small, yet packs a wallop. The emphasis on principles instead of practice is welcome....The text is clear, concise, and surprisingly approachable for what could have been a very dense and dry discussion. I could not put this book down and read it entirely in one sitting. When was the last time anyone found a hematology textbook so riveting?"--Doody's Review Service Hematological Pathophysiology is a well-illustrated, easy-to-absorb introduction to the physiological principles underlying the regulation and function of blood cells and hemostasis, as well as the pathophysiologic mechanisms responsible for the development of blood disorders. Featuring a strong emphasis on key principles, the book covers diagnosis and management primarily within a framework of pathogenesis. Authored by world-renowned clinician/educators at Harvard Medical School, Hematological Pathophysiology features content and organization based on a hematology course offered to second year students at that school. The book is logically divided into four sections: Anemias and Disorders of the Red Blood Cell, Disorders of Hemostasis and Thrombosis, Disorders of Leukocytes, and Transfusion Medicine; it opens with an important overview of blood and hematopoietic tissues. Features Succinct, to-the-point coverage that reflects current medical education More than 200 full-color photographs and renderings of disease mechanisms and blood diseases Each chapter includes learning objectives and self-assessment questions Numerous tables and diagrams encapsulate important information Incorporates the feedback of 180 Harvard medical students who reviewed the first draft -- so you know you’re studying the most relevant material possible 150 years after the first description of the clinical picture of "white blood" and the introduction of the term "leukemia" by R. Virchow it appears, that the leukemias, and the acute leukemias in particular, serve as an impressive example for the major improvements that have been achieved in the treatment but also in the understand ing of the biology of malignant dis orders. The international symposia "Acute Leukemia" which are held at Münster since 1986 have developed into an interna tional forum to review the current progress and the future perspectives of leukemia research and therapy at a high scientific and clinicallevel. Since the possibility for active participation in these symposia is somewhat restricted we are glad to have the opportunity to extend the information that was presented at the symposium "Acute Leukemias V - Experimental Approaches and Management of Refractory Disease" which was held from February 27 to March 2, 1994 to a broader audience of basic scientists and clinicians. This meeting was especiAlly designed to discuss experimen tal approaches and the management of refractory disease which allows to evaluate new experimental therapies on the basis of preclinical studies. This book discusses key aspects of childhood acute lymphoblastic leukemia (ALL), presenting the latest research on the biology and treatment of the disease and related issues. The cure rate for ALL has improved dramatically due to advances such as supportive care, treatment stratification based on relapse risk, and the optimization of treatment regimens. Gathering contributions by eminent scholars Pediatric Acute Lymphoblastic Leukemia is a valuable resource for pediatric hematologists as well as for medical students, interns, residents and fellows. It not only offers comprehensive insights, but also provides a springboard for future research. Better therapy of acute leukemias depends ultimately on better understanding of the distinction between leukemic and normal progenitor cells. This hugely important new book describes the current knowledge of acute leukemia biology and discusses new classification systems that have arisen as a result of emerging insights into pathogenesis. Estey, Faderl and Kantarjian, who all work at the respected Anderson Cancer Center in Houston, Texas, USA, examine in detail advances in the treatment of particular types of acute leukemia. Their book also covers the management of acute leukemia in general as well as the development of new therapies. This book will be extremely useful to clinicians. Acute Leukemia: New Insights for the Healthcare Professional: 2011 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Acute Leukemia in a concise format. The editors have built Acute Leukemia: New Insights for the Healthcare Professional: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Acute Leukemia in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Acute Leukemia: New Insights for the Healthcare Professional: 2011 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/. The 7th volume of the book series Acute Leukemias provides new updates on the biology of acute leukemias and especially the underlying genetic and molecular events. High quality contributions are provided by leading scientists and clinicians making the book an excellent overview over most recent achievements which translate into new treatment strategies and hence an improved outlook for patients suffering from acute leukemias. Acute Leukemia: New Insights for the Healthcare Professional: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Additional Research in a concise format. The editors have built Acute Leukemia: New Insights for the Healthcare Professional: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Additional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Acute Leukemia: New Insights for the Healthcare Professional: 2013 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/. Acute Leukemias IX provides an extended and thorough overview of recent developments in cell biology and experimental therapy for acute leukemias. Following the tradition of the Acute Leukemias series since 1987, this book bridges the gap between basic research and clinical studies and emphasizes that both aspects are equally necessary to achieve improvements, not only in understanding the disease but also in providing better therapy. As a forum for world-wide activities in the field of acute leukemias the volume contains invaluable contributions that provide the reader with new, previously unpublished information. This is the third volume in this series on methods of treating acute leukemia. Multiple drug resistance is discussed, along with the use of human granulocyte-macrophage CSF, the role of stem cell factor, and basic aspects of cell biology and pharmakokinetics. There is also a comprehensive section dealing with relapse therapy and postremission therapy. The book thus provides the clinician with guidelines for use in everyday practice.

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