

## Prognostic Factors in Childhood Acute Myelogenous Leukemia

By Holcombe E. Grier, Richard D. Gelber, Bruce M. Camitta, Marcia J. Delaney, Michael P. Link, Karen N. Price, Pearl R. Leavitt, and Howard J. Weinstein

The prognostic significance of initial clinical and laboratory parameters was evaluated in 125 children with acute myelogenous leukemia (AML) treated on two consecutive protocols (VAPA and 80-035). Both protocols used an anthracycline with cytosine arabinoside (ara-C) for induction therapy followed by 12 to 14 months of intensive sequential postremission chemotherapy. Results are similar for the two treatment regimens. Seventy-two percent of patients achieved a complete remission, with 42% projected 5-year disease-free survival for the complete responders. Monocytic or myelomonocytic leukemic subtype (French-American-British [FAB] types M4 and M5), WBC count  $> 100,000/\mu\text{L}$ , and age  $< 2$  years at diagnosis all predicted increased risk of relapse and decreased overall

survival in univariate analyses. FAB subtype and high white count continued to predict for an increased risk of relapse in multivariate analyses and only M5 leukemic subtype independently predicted for poor survival. Patients with M4 or M5 leukemic subtype had a higher incidence of initial relapses in the CNS. The addition of intrathecal cytosine arabinoside in the second protocol, 80-035, decreased the percentage of patients with initial failure in the CNS, but did not improve overall survival. Improved CNS prophylaxis, better systemic therapy, and/or different treatment strategies are needed to improve therapy in these high-risk patients.

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**A**CUTE MYELOGENOUS leukemia (AML) represents a heterogeneous group of leukemias derived from cells of the myeloid lineage. Progress in therapy, especially for children, has increased both the complete remission rate and the percentage of patients in long-term remission disease-free survival.<sup>1,2</sup> Despite these encouraging results, approximately 25% of patients fail to achieve a complete remission and 50% to 70% still relapse despite further treatment with che-

motherapy. A general consensus exists regarding important clinical prognostic variables in childhood acute lymphoblastic leukemia.<sup>3</sup> Similar analyses of many pediatric and adult AML studies have failed to identify consistent prognostic factors.<sup>4</sup>

Between 1976 and 1984, we treated children with AML on two consecutive protocols. These used either Adriamycin (Adria Laboratories, Columbus, OH) or daunorubicin plus cytosine arabinoside (ara-C) for remission induction followed by 12 to 14 months of intensive sequential postremission chemotherapy. The results from these two studies are similar and together provide a data base to evaluate prognostic factors in children with AML after extensive clinical follow-up.

### MATERIALS AND METHODS

Sixty-one consecutive untreated children  $< 18$  years of age with AML were staged on the VAPA protocol between February 1976 and May 1980. Sixty-four children were entered onto a successor protocol (80-035) from May 1980 through March 1984. With the exception of a case patient with trisomy 21 and myelogenous leukemia whose parents elected to refuse further therapy, all patients presenting to the cooperating institutions during the time of study were treated on protocol. The diagnosis of AML was based on morphological examination of bone marrow and histochemical stains. The French-American-British (FAB) method of classification was used.<sup>5</sup> The clinical characteristics of the patients on each protocol are summarized in Table 1.

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# Acute Myelogenous Leukemia In Childhood

**H. Riehm**

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## **Acute Myelogenous Leukemia In Childhood:**

**Acute Myelogenous Leukemia in Childhood** Ursula Creutzig, Jörg Ritter, Günther Schellong, 2012-12-06 The results of treatment for childhood acute myelogenous leukemia AML have improved considerably during the last ten years This progress was demonstrated by the two consecutive multicenter studies AML BFM 78 and 83 in which almost identical extended multi drug regimes of the motherapy were administered for eight weeks and followed up by two years maintenance The main difference in the second study was the addition of an eight day intensive induction course Due to this new element the relapse rate was reduced significantly Another result of the BFM 83 study was the definition of two risk groups on the basis of standardized treatment which has led to a risk adapted treatment strategy in the third ongoing trial AML BFM 87 This improvement was only possible thanks to the cooperation of pediatricians physicians radiotherapists statisticians and especially the staff at the hospitals and reference laboratories Thus we would like to thank everyone who has been involved in these studies and hope that they will be further encouraged to improve treatment strategies for AML in children The coordination enforcement and analyses of the studies would not have been possible without the financial support of the Federal Ministry for Research and Technology of the FRG We are grateful for the generous contributions supporting this book from Lederle and Farmitalia Munster April 1990 Ursula Creutzig Jörg Ritter Günther Schellong Contents 1 Introduction

1 *Acute Myeloid Leukemia in Children* Daisuke Tomizawa, Edward Anders Kolb, Dirk Reinhardt, 2024-08-20 This book provides up to date information on key topics and issues in Pediatric Acute Myeloid Leukemia AML including the epidemiology biology diagnosis and treatment of particular forms of the disease supportive care and survivorship The entire spectrum of clinical management on pediatric AML is covered with the aim of equipping readers with the latest knowledge relevant to clinical practice and research based on enormous efforts made by cooperative clinical trial groups and consortia worldwide Each chapter is written by internationally renowned authorities who have been selected for their expertise in the subjects discussed This book will serve pediatric hematologists oncologists fellows and residents both as a comprehensive source of information and as a quick reference The book will also be of interest to pediatricians and general practitioners

*Acute Myelogenous Leukemia* Judith E. Karp, 2009-11-29 Acute Myelogenous Leukemia is a timely compilation of new concepts in the molecular pathogenesis and molecular therapy of acute myelogenous leukemia AML The focus is on selected critical molecular determinants of AML pathogenesis and pathophysiology and the exploitation of these factors by diverse therapeutic agents and modalities Bringing together new concepts and findings in the basic and clinical science of AML the book emphasizes the molecular basis for new therapies that stand to have the greatest potential impact on the clinical face of these diseases The text provides insights into selected novel strategies currently and prospectively being developed including interruption of specific signal transduction pathways modulation of gene expression attempts to reinstate differentiation and immunomodulation There is an emphasis throughout on the bidirectional flow of knowledge between the clinical and

laboratory arenas and both basic and clinical scientists will benefit from this translational text *Cancer in Children and Adolescents* William Carroll, Jonathan Finlay, 2010-10-22 Edited by two leading childhood cancer specialists and with contributions from authoritative experts in the field this comprehensive reference covers all aspects of major childhood cancers including molecular oncology and translational therapy pathological evaluation of childhood cancer surgical management of pediatric tumors non hodgkin s lymphoma and lymphoproliferative disorders in children infant brain tumors prevention diagnosis and treatment of infectious complications pain management late effects of childhood cancer therapy

**Pediatric Hematology** Robert J. Arceci, Ian M. Hann, Owen P. Smith, 2008-04-15 Pediatric Hematology is a comprehensive and succinct referenced text on the diagnosis and treatment of blood diseases in childhood It provides a ready source of reference for all the conditions likely to be encountered in day to day clinical practice For each condition the authors give helpful advice on differential diagnoses and clinical management This third edition has been extensively updated throughout in light of recent developments in this rapidly advancing area of medicine A well established textbook on the diagnosis and treatment of blood disorders in childhood A balanced and cutting edge referenced text on all aspects of diagnosis and treatment Easy to use practically organized with essential aspects of biology included within each chapter International editorial and contributor team representing a wide geographical and chronological range Whether you are an established sub specialist in pediatric hematology oncology a pediatrician a trainee or nursing specialist this book will answer all your questions about benign and malignant disorders of the blood in children and young adults **Oncology of Infancy and Childhood E-Book** Stuart H. Orkin, David E. Fisher, A. Thomas Look, Samuel Lux, David Ginsburg, David G. Nathan, 2009-06-09 To address the growing complexities of childhood cancer Nathan and Oski s Hematology and Oncology of Infancy and Childhood has now been separated into two distinct volumes With this volume devoted strictly to pediatric oncology and another to pediatric hematology you will be on the cutting edge of these two fields This exciting new full color reference provides you with the most comprehensive authoritative up to date information for diagnosing and treating children with cancer It brings together the pathophysiology of disease with detailed clinical guidance on diagnosis and management for the full range of childhood cancers including aspects important in optimal supportive care Written by the leading names in pediatric oncology this resource is an essential tool for all who care for pediatric cancer patients Offers comprehensive coverage of all pediatric cancers including less common tumors making this the most complete guide to pediatric cancer Covers emerging research developments in cancer biology and therapeutics both globally and in specific pediatric tumors Includes a section on supportive care in pediatric oncology written by authors who represent the critical subdisciplines involved in this important aspect of pediatric oncology Uses many boxes graphs and tables to highlight complex clinical diagnostic and management guidelines Presents a full color design that includes clear illustrative examples of the relevant pathology and clinical issues for quick access to the answers you need Incorporates the codified WHO

classification for all lymphomas and leukemias      **Diagnostic Pediatric Hematopathology** Maria A. Proytcheva,2011-02-03 An accurate and up to date guide to the diagnosis of benign and malignant hematologic disorders of childhood this is an excellent reference to ensure accurate diagnoses when evaluating peripheral blood bone marrow and lymph node disease It will be a valuable tool in the practice of pathologists pediatric pathologists and hematopathologists

**Nathan and Oski's Hematology and Oncology of Infancy and Childhood E-Book** Stuart H. Orkin,David G. Nathan,David Ginsburg,A. Thomas Look,David E. Fisher,Samuel Lux,2014-11-14 Written by the leading names in pediatric oncology and hematology Nathan and Oski s Hematology and Oncology of Infancy and Childhood offers you the essential tools you need to overcome the unique challenges and complexities of childhood cancers and hematologic disorders Meticulously updated this exciting full color set brings together the pathophysiology of disease with detailed clinical guidance to provide you with the most comprehensive authoritative up to date information for diagnosing and treating children Form a definitive diagnosis and create the best treatment plans possible with comprehensive coverage of all pediatric cancers including less common tumors as well as all hematologic disorders including newly recognized ones Develop a thorough understanding of the underlying science of diseases through summaries of relevant pathophysiology balanced with clear practical clinical guidance Nathan and Oski s is the only comprehensive product on the market that relates pathophysiology in such depth to hematologic and oncologic diseases affecting children Quickly and effortlessly access the key information you need with the help of a consistent organization from chapter to chapter and from volume to volume Stay at the forefront of your field thanks to new and revised chapters covering topics such as paroxysmal nocturnal hemoglobinuria lysosomal storage diseases childhood genetic predisposition to cancer and oncology informatics Learn about the latest breakthroughs in diagnosis and management making this the most complete guide in pediatric hematology and oncology Discover the latest in focused molecularly targeted therapies derived from the exponential growth of knowledge about basic biology and genetics underlying the field Rely on it anytime anywhere Access the full text images and more at Expert Consult

**Acute Myelogenous Leukemia** Robert Peter Gale,1990 The inclusion of experimental and clinical data in a single volume together with an emphasis on recent and controversial issues combine to make this treatise unique in its approach to acute myelogenous leukemia AML Investigators from diverse disciplines critically examine what is now understood about the pathogenesis of this disease and discuss new and emerging therapeutic approaches Chapters cover subjects ranging from leukemia in atomic bomb survivors to RAS gene mutations in AML and the pharmacologically directed design of AML therapy

**Hematology of Infancy and Childhood** David G. Nathan, Frank A. Oski,1993      *Malignant Neoplasms in Childhood and Adolescence* H. Riehm,1986

**Nathan and Oski's Hematology of Infancy and Childhood**,1998

[Pizzo & Poplack's Principles and Practice of Pediatric Oncology](#) Susan M. Blaney,Peter C. Adamson, Lee J. Helman,2025-09-16 Pizzo and Poplack s Principles and Practice of Pediatric Oncology 9th Edition remains the definitive

comprehensive reference in pediatric oncology Under the expert editorial leadership of Drs Susan M Blaney Peter C Adamson and Lee J Helman this edition builds on a legacy of excellence spanning decades A world renowned team of international multidisciplinary experts delivers authoritative up to date insights into the biology and genetics of childhood cancer diagnostic techniques and multimodal treatment approaches The Ninth Edition integrates the latest research breakthroughs including advances in targeted therapies immunotherapies and precision medicine It also expands its in depth coverage of supportive care symptom management survivorship and the long term effects of therapy This award winning text continues to be the essential guide for pediatric oncologists hematologists researchers and trainees dedicated to improving outcomes for children with cancer

**Pediatric Hematology** J. S. Lilleyman, Ian M. Hann, Victor S. Blanchette, 1999 This book is a comprehensive and succinct referenced text on the diagnosis and treatment of blood diseases in childhood It provides a ready source of information for all the conditions likely to be encountered in day to day clinical practice

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
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