

# Hematologic and oncologic emergencies

Doing the most good in the least time

Malcolm L. Brigden, MD

## PREVIEW

Several urgent problems in oncology and hematology may require that primary care physicians start therapy without waiting for subspecialist intervention. Most of these problems are related to chemotherapy, which often consists of multidrug immunosuppressive regimens, or to the effects of the cancer itself, such as hypercalcemia from bone metastasis or spinal cord compression from tumor extension. In this article, Dr Brigden reviews 11 such emergencies and the most efficient steps to take to manage them.

**E**mergencies in hematology and oncology may be conveniently grouped into three major categories: metabolic crises, compressions and obstructions, and symptomatic cytopenias.<sup>1-3</sup> Primary care physicians are often involved, because such emergency situations may be the initial presenting feature of disease or a complication of known cancer. In any case, appropriate management depends on not only a correct diagnosis but also prognostic information, with consideration given to the possibility of cure, significant remission, or improvement in quality of life. This article provides a concise overview of initial management of common emergency situations in hematology and oncology.

## Metabolic crises

Among the most often encountered metabolic emergencies are hyperuricemia, hypercalcemia, hyponatremia (the syndrome of inappropriate antidiuretic hormone [SIADH]), and tumor-associated hypokalemia.

### Hyperuricemia

Hyperuricemia—with renal uric acid deposition and possible renal failure—occurs most commonly with high-grade lymphoproliferative disorders (eg, Burkitt's lymphoma, lymphoblastic lymphoma), often in association with treatment.<sup>4,5</sup> Rare cases of spontaneous hyperuricemic nephropathy have been reported in patients who have aggressive lymphoma or leukemia, especially if underlying

renal function is compromised.<sup>6</sup> In addition, cases have been reported of uric acid nephropathy in patients with chronic myeloproliferative disorders, multiple myeloma, and squamous-cell carcinoma of the head and neck.<sup>4,7</sup>

### Presentation and evaluation:

Rarely, a patient with hyperuricemia may present with signs of acute gout, but usually, signs indicate uremia (eg, nausea, vomiting, lethargy, oliguria). Levels of uric acid, creatinine, phosphate, calcium, electrolytes, and blood urea nitrogen should be determined. Studies using intravenous contrast material should be avoided because of the possibility of dehydration, which further aggravates renal deterioration.

**Treatment:** Anticipation and prevention of hyperuricemia should be the primary goals.<sup>4,5</sup> Therefore, any patient presenting with a high-grade lymphoproliferative disorder or low-grade lymphoproliferative disease with bulky adenopathy should be pretreated with hydration, urinary alkalization (with use of sodium bicarbonate and acetazolamide [Diamide, Diamox]), and administration of allopurinol (Zylo-

*continued*

# Hematologic And Oncologic Emergencies

**Christine N. Duncan, Julie-An M.  
Talano, Jennifer A. McArthur**



## **Hematologic And Oncologic Emergencies:**

**Hematologic and Oncologic Emergencies, An Issue of Emergency Medicine Clinics of North America** Colin G. Kaide, Sarah Dubbs, 2018-07-28 This issue of Emergency Medicine Clinics focuses on Hematology and Oncology Emergencies with topics including Cardiovascular toxicities of cancer therapies The latest cancer agents and their complications Infections in the cancer patient Pediatric oncologic emergencies Rapid fire oncologic emergencies Rapid fire hypercalcemia Rapid fire sickle cell disease Rapid fire SVC Syndrome The Cancer ED EM Oncology Fellowship Anticoagulation Reversal and Rapid Fire Blast Crisis Hyperviscosity

**Hematology/Oncology Emergencies, An Issue of Emergency Medicine Clinics of North America** John C. Perkins, 2014-08-28 This issue of Emergency Medicine Clinics edited by Drs John Perkins and Jonathan Davis focuses on emergencies related to Hematology Oncology and covers topics such as Oncologic Mechanical Emergencies Neutropenic Fever Oncologic Metabolic Emergencies Acute Leukemias Pediatric Oncologic Emergencies Chemotherapeutic Medications and their Emergent Complications Anemia Thrombotic Microangiopathies TTP HUS HELLP Congenital Bleeding Disorders Acquired Bleeding Disorders and Antithrombotic agents Sickle Cell Disease and more

Hematologic and Oncologic Emergencies William Robert Bell, 1993      Handbook of Hematologic and Oncologic Emergencies J.P. Dutcher, P.H. Wiernik, 2013-06-29 Oncology has developed as a subspecialty of medicine with unique and often complex clinical problems This handbook of hematologic and oncologic emergencies provides a compact concise yet comprehensive guide to the management of a variety of difficult clinical situations The authors of the various chapters are all clinicians with experience in the management of these difficult patients Their efforts provide insight and a ready source of practical information which lends itself to use in the clinic and in the inpatient ward The authors sincerely hope that this handbook will be of service to house officers and fellows alike as they develop skills in the management of the emergent problems of patients with hematologic and other neoplasms Janice P Dutcher Peter H Wiernik Bronx New York Contents 1 Syndrome of Inappropriate Antidiuretic Hormone Secretion and Hyponatremia 000 Stuart L Marcus M D Ph D and Joachim Z Fuks M D 1 Introduction 1 2 Mechanisms 3 3 Etiology 3 4 Diagnosis 5 5 Treatment 6 References 8 2 Acute Tumor Lysis Syndrome Prevention and Management 9 Stuart L Marcus M D Ph D and Avi I Einz ig M D 1 Introduction 9 2 Risk Factors for the Development of Azotemia in Acute Tumor Lysis Syndrome 10 3 Metabolic Abnormalities That Occur during Acute Tumor Lysis Syndrome 11 4 Prevention of Acute Tumor Lysis Syndrome Management prior to Beginning Chemotherapy 13 5 Posttreatment Management Indications for Dialysis 14 References 15      *Hematologic and Oncologic Emergencies, An Issue of Emergency Medicine Clinics of North America* Monica K. Wattana, Molly Estes, 2025-08-01 In this issue of Emergency Medicine Clinics guest editors Drs Monica K Wattana and Molly Estes bring their considerable expertise to the topic of Hematologic and Oncologic Emergencies Top experts discuss approach considerations for the oncologic patient leukopenia and febrile neutropenia tumor lysis hyperviscosity syndrome mechanical obstruction and more Contains 14 relevant practice

oriented topics including tumor hemorrhage chemotherapy complications immunotherapy complications acute leukemia multiple myeloma and hypercalcemia sickle cell and more Provides in depth clinical reviews on hematologic and oncologic emergencies offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews Hematology and Oncology Casey O'Connell, Vanessa Lynn Dickey, 2005 Designed as a quick read for both students on a hematology oncology rotation and others who want to know more about the specialty Blueprints Hematology and Oncology covers the essentials that every practitioner will need to know Pocket sized and practical this book covers the most common conditions students are likely to encounter It focuses on the essential content students need to know during a rotation allowing for a fast easy read Twenty five multiple choice review questions are included to help students test their understanding of the subject The book also features a valuable appendix on career and residency opportunities Also included are sections on medications and their toxicities and common hematological and oncological emergencies Perfect for medical students physician assistants nurse practitioners and related health professionals will also find Blueprints valuable

**Hematology/Oncology Emergencies, An Issue of Hematology/Oncology Clinics of North America** John C. Perkins, Jonathan E Davis, 2017-11-06 This issue of Hematology Oncology Clinics edited by Drs John Perkins and Jonathan Davis focuses on emergencies related to Hematology Oncology and covers topics such as Oncologic Mechanical Emergencies Neutropenic Fever Oncologic Metabolic Emergencies Acute Leukemias Pediatric Oncologic Emergencies Chemotherapeutic Medications and their Emergent Complications Anemia Thrombotic Microangiopathies TTP HUS HELLP Congenital Bleeding Disorders Acquired Bleeding Disorders and Antithrombotic agents Sickle Cell Disease and more Hematologic and Oncologic Emergencies, an Issue of Emergency Medicine Clinics of North America Monica K. Wattana, Molly Estes, 2025-08 In this issue of Emergency Medicine Clinics guest editors Drs Monica K Wattana and Molly Estes bring their considerable expertise to the topic of Hematologic and Oncologic Emergencies Top experts discuss approach considerations for the oncologic patient leukopenia and febrile neutropenia tumor lysis hyperviscosity syndrome mechanical obstruction and more Contains 14 relevant practice oriented topics including tumor hemorrhage chemotherapy complications immunotherapy complications acute leukemia multiple myeloma and hypercalcemia sickle cell and more Provides in depth clinical reviews on hematologic and oncologic emergencies offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews **Hematology/Oncology Emergencies, an Issue of Hematology/Oncology Clinics of North America** John C. Perkins, Jonathan E. Davis, 2017-11 This issue of Hematology Oncology Clinics edited by Drs John Perkins and Jonathan Davis focuses on emergencies related to Hematology Oncology and covers topics such as Oncologic

Mechanical Emergencies Neutropenic Fever Oncologic Metabolic Emergencies Acute Leukemias Pediatric Oncologic Emergencies Chemotherapeutic Medications and their Emergent Complications Anemia Thrombotic Microangiopathies TTP HUS HELLP Congenital Bleeding Disorders Acquired Bleeding Disorders and Antithrombotic agents Sickle Cell Disease and more

*Manual of Pediatric Hematology and Oncology* Philip Lanzkowsky, 2005-06-06 Given that there have been considerable advances in the treatment and management of oncologic diseases in children the fifth edition of this successful clinical manual will be entirely updated to incorporate all current protocols and developments This edition will be a comprehensive book on patient management replete with algorithms and flow diagrams on diagnosis and management Its concise and easy to read format will enable readers to make accurate diagnoses and permit them to treat patients without having extensive previous hematologic oncologic experience A list of normal values at various ages in children providing an extremely useful reference for patient management is included Selected for inclusion in Doody's Core Titles 2013 an essential collection development tool for health sciences libraries Offers a concise systematic approach to all pediatric hematologic and oncologic disorders in one reference manual Easy to read format multiple tables charts and flow diagrams for diagnosis and management of pediatric hematologic and oncologic disorders Clear presentation by practicing clinicians who are also academic researchers of recent developments in molecular genetics cytogenetics immunology transplantation and biochemistry

*Lanzkowsky's Manual of Pediatric Hematology and Oncology* Jonathan D. Fish, Jeffrey M. Lipton, Philip Lanzkowsky, 2016-04-22 Lanzkowsky's Manual of Pediatric Hematology and Oncology Sixth Edition is a comprehensive book on patient management replete with algorithms and flow diagrams on diagnosis and management Reflecting the considerable advances in the treatment and management of hematologic and oncologic diseases in children the sixth edition of this successful clinical manual has been entirely updated to incorporate all current treatment protocols new drugs and management approaches Its concise and easy to read format will enable readers to make accurate diagnoses and permit them to treat patients without having to reference larger medical textbooks Based on the new standards of genetic classification and prognostic information that have arisen in the past five years the sixth edition includes two new chapters Diagnostic Molecular and Genomic Methodologies for the Hematologist Transfusion Medicine and several new expanded chapters that were previously sections in consolidated chapters Myelodysplasia Myeloid Leukemias Lymphoid Leukemias Hemolytic Anemia and Disorders of Coagulation Presents a concise systematic approach to all pediatric hematologic and oncologic disorders in one manual Offers an alternative to bigger references which only cover either oncologic or hematologic disorders in twice as many pages Presents an easy to read format multiple tables charts and flow diagrams for diagnosis and management of pediatric hematologic and oncologic disorders Includes 2 new chapters and several expanded chapters Diagnostic Molecular and Genomic Methodologies for the Hematologist Transfusion Medicine Myelodysplasia Myeloid Leukemias and Lymphoid Leukemias

**Cumulated Index Medicus**, 1993 Critical Care of the Pediatric

Immunocompromised Hematology/Oncology Patient Christine N. Duncan, Julie-An M. Talano, Jennifer A. McArthur, 2019-02-01 This volume provides a comprehensive overview of critical care of the pediatric immunocompromised hematology oncology patient The text focuses on unique aspects of the pediatric immunocompromised patient that predisposes the child to significant illness and presents critical care management strategies specific to the patient population In addition to chapters on oncology primary immune deficiency immunocompromised hematology and hematopoietic cell transplant patients the book covers the changing landscape of ICU care pharmacologic considerations and psychological and social aspects of the critical care of hematology oncology patients Written by experts from a range of disciplines Critical Care of the Pediatric Immunocompromised Hematology Oncology Patient An Evidence Based Guide is a valuable resource for clinicians and practitioners who treat this patient population

*Oncologic Emergency Medicine* Knox H. Todd, Charles R. Thomas, Jr., Kumar Alagappan, 2021-04-22 The expanded second edition of this key clinical reference provides the most up to date and comprehensive review of oncologic emergencies It covers the diagnosis and management of the full range of emergencies caused directly by cancer and or treatment including chemotoxicity radiotoxicity and post surgical complications as well as transplant related issues and toxicities of novel antineoplastic agents and the new immunotherapies The book also shows how the entire spectrum of clinical medicine is brought to bear in the care of cancer patients in the unique setting of the emergency department ED from health promotion and prevention to treatment and palliative care Recognizing the multiple overlapping contexts in which emergency care of cancer patients occurs the book addresses clinically crucial interdisciplinary topics such as the ethics of ED cancer care analgesic misuse and abuse informatics quality improvement and more Finally perspectives on care system and social forces that shape ED cancer care such as cancer care disparities and care models frame the book as a whole Edited and written by world renowned experts in emergency medicine and oncology the Second Edition of *Oncologic Emergency Medicine Principles and Practice* is the definitive resource for emergency physicians oncologists internists family physicians emergency nurses nurse practitioners physician assistants and policy makers as well as pre and postgraduate trainees

**Oncologic Emergencies** Ellen F. Manzullo, Carmen Esther Gonzalez, Carmen P. Escalante, Sai-Ching J. Yeung, 2015-12-16 This new resource on managing oncologic emergencies is directed at all health care professionals who care for patients with cancer or survivors Edited and written by clinician experts at The University of Texas MD Anderson Cancer Center the book covers the full range of oncologic emergencies from cardiac and neurologic to orthopedic to hematologic and addresses important palliative care ethical and Emergency Department considerations Chapters are structured with busy clinicians in emergent and urgent settings in mind and each chapter concludes with a series of key practice points and a list of suggested readings for those who wish to delve deeper into a subject For any clinician facing the increasing number of patients who experience an oncologic emergency this is an up to date clinically focused and authoritative resource

**Harrison's Hematology and Oncology, 2e** Dan Longo, 2013-03-22

Hematology and Oncology as only Harrison's can cover it. Featuring a superb compilation of chapters on hematology and oncology that appear in Harrison's Principles of Internal Medicine Eighteenth Edition, this concise full color clinical companion delivers the latest knowledge in the field backed by the scientific rigor and authority that have defined Harrison's. You will find content from renowned editors and contributors in a carry anywhere presentation that is ideal for the classroom, clinic, ward, or exam certification preparation. Features Organized into twelve sections: The Cellular Basis of Hematopoiesis, Cardinal Manifestations of Hematologic Diseases, Anemias, Myeloproliferative Disorders, Hematologic Malignancies, Disorders of Hemostasis, Biology of Cancer, Principles of Cancer Prevention and Treatment, Neoplastic Disorders, Endocrine Neoplasia, Remote Effects of Cancer and Oncologic Emergencies, and Late Effects/Complications. Each chapter contains relevant information on the genetics, cell biology, pathophysiology, and treatment of specific disease entities. Chapters on hematopoiesis, cancer cell biology, and cancer prevention reflect the rapidly growing body of knowledge in these areas. Integration of pathophysiology with clinical management. 153 high yield questions and answers drawn from Harrison's Principles of Internal Medicine. Self Assessment and Board Review. 18e. Content updates and new developments since the publication of Harrison's Principles of Internal Medicine 18e. 55 chapters written by physicians who are recognized experts in the field of hematology and oncology. Helpful appendix of laboratory values of clinical importance.

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**Oncology Nursing Forum**, 1999 **Emergency Nursing Core Curriculum E-Book** Emergency Nurses Association, 2007-08-06 Whether you are a new or an experienced emergency nurse you'll find that the Emergency Nursing Core Curriculum 6th Edition is an essential tool for your practice Authored by the Emergency Nurses Association ENA this highly respected resource will help you build and verify your knowledge develop practice standards improve quality of care and educate nursing staff as well as patients and families The Emergency Nursing Core Curriculum 6th Edition is also the ideal resource to help you prepare for the Certification for Emergency Nurses CEN exam Authored by ENA you can rely on this text to be the most authoritative and up to date resource available The text's

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