DIAGNOSIS AND MANAGEMENT OF CHRONIC NEUTROPENIA DURING CHILDHOOD

Juan Carlos Bernini, MD

Chronic neutropenia is defined as an abnormally low absolute neutrophil count (ANC) lasting more than 6 months. Many attempts have been made to classify the different forms of chronic neutropenia during childhood, but unfortunately a comprehensive classification system is lacking. Pathophysiologically, neutropenia can occur as a result of decreased bone marrow production (e.g., Kostmann syndrome), failure to release mature neutrophils from the bone marrow (myelokathexis), increased margination of neutrophils, or increased destruction in the peripheral circulation (e.g., autoimmune neutropenia or hypersplenism) (Table 1).

The risk for infection is inversely proportional to the ANC. When the ANC falls below 1000 per mm², stomatitis, gingivitis, and cellulitis dominate the clinical picture. More severe infections occur when the ANC is below 500 per mm³, with perirectal abscesses, pneumonia, and sepsis particularly common. Staphylococcus aureus is the most common isolated pathogen; however, in more severely affected patients, infections develop with gram-negative enteric bacilli, including Klebsiella species, Escherichia coli, and Pseudomonas aeruginosa. Uncommonly, fungal organisms also cause infection in patients with chronic neutropenia.

Considerable variability exists regarding susceptibility to infection for patients with similar circulating neutrophil counts. Monocytosis often occurs in patients with diverse types of chronic neutropenia, which

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Management Of Chronic Disorders Of Childhood

Gloria Leifer, Lisa Keenan-Lindsay

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and Adolescents Mark L. Goldstein, Stephen J. Morewitz, 2011-08-25 There has been a significant increase in the prevalence of certain chronic disorders among children and adolescents For example health experts warn of an epidemic of diabetes mellitus due to an increase in the sedentary life style and poor nutrition of children There are many questions still to be addressed in the study of chronic disorders among children and adolescents What are the risk factors associated with chronic diseases in these populations What are the major complications that contribute to disability and increased health care utilization and costs What impact do chronic diseases have on the psychosocial development What are the most effective diagnostic treatment and rehabilitation strategies How can patient education and self management activities be improved to help children and adolescents improve compliance with treatment regimens How can parents and other family members become more involved in assessment and management In what ways can peers schools religious institutions and other organizations help children and adolescent scope with their chronic disease This book addresses these questions by focusing on how eight chronic disorders affect health care utilization costs coping and health outcomes in children and adolescents Research studies are used to illustrate wide range of topics from the epidemiology of chronic diseases in children and adolescents health care utilization and costs to treatment outcomes disability and family processes Case studies from a clinical psychologist's private practice are used to clarify major psychosocial issues underlying chronic diseases in these populations Chapter One analyzes the epidemiology of eight chronic conditions in children and adolescents Data on the prevalence of diseases and associated risk factors are stressed in this chapter Health care planners can use these analyses to improve primary secondary and tertiary prevention through more effective uses of health care resources Chapter Two examines the latest information on health care utilization and costs for children and adolescents that can point to a more efficient means of reducing the rising health care costs associated with the treatment of chronic diseases In the remaining chapters the eight chronic diseases are evaluated in terms of five major issues First the latest trends in complications associated with each chronic condition are explored Second the impact of each disease on disability and psychosocial development of children and adolescents are analyzed Third recent research findings on diagnosis treatment and rehabilitation strategies are discussed Fourth new trends in patient education and self management are presented Fifth each chapter will assess the role of family peers schools and other organizations in helping children and adolescents cope with their chronic disorders Dr Mark L Goldstein a clinical psychologist reviews the literature and uses composite case studies from his practice to illustrate the impact of these trends on how children and adolescents manage chronic disease The information in this book will be relevant to a wide range of professionals and students in the fields of pediatrics medicine nursing public health mental health social work education health administration health policy and social sciences Nelson Textbook of Pediatrics E-Book Robert Kliegman, Bonita F. Stanton, Joseph W. St. Geme III, Nina F Schor, Richard E. Behrman, 2011-06-10 Nelson Textbook of Pediatrics has been the world's most trusted pediatrics resource for nearly 75 years

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Table of Contents Management Of Chronic Disorders Of Childhood

- 1. Understanding the eBook Management Of Chronic Disorders Of Childhood
 - The Rise of Digital Reading Management Of Chronic Disorders Of Childhood
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Management Of Chronic Disorders Of Childhood
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Management Of Chronic Disorders Of Childhood
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Management Of Chronic Disorders Of Childhood
 - Personalized Recommendations
 - Management Of Chronic Disorders Of Childhood User Reviews and Ratings
 - Management Of Chronic Disorders Of Childhood and Bestseller Lists
- 5. Accessing Management Of Chronic Disorders Of Childhood Free and Paid eBooks
 - Management Of Chronic Disorders Of Childhood Public Domain eBooks
 - Management Of Chronic Disorders Of Childhood eBook Subscription Services
 - Management Of Chronic Disorders Of Childhood Budget-Friendly Options
- 6. Navigating Management Of Chronic Disorders Of Childhood eBook Formats
 - ePub, PDF, MOBI, and More
 - Management Of Chronic Disorders Of Childhood Compatibility with Devices
 - Management Of Chronic Disorders Of Childhood Enhanced eBook Features
- 7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Management Of Chronic Disorders Of Childhood
- Highlighting and Note-Taking Management Of Chronic Disorders Of Childhood
- Interactive Elements Management Of Chronic Disorders Of Childhood
- 8. Staying Engaged with Management Of Chronic Disorders Of Childhood
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Management Of Chronic Disorders Of Childhood
- 9. Balancing eBooks and Physical Books Management Of Chronic Disorders Of Childhood
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Management Of Chronic Disorders Of Childhood
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Management Of Chronic Disorders Of Childhood
 - Setting Reading Goals Management Of Chronic Disorders Of Childhood
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Management Of Chronic Disorders Of Childhood
 - Fact-Checking eBook Content of Management Of Chronic Disorders Of Childhood
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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