

# What is Severe Asthma?

## SEVERE ASTHMA IS:

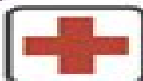
### ASTHMA THAT REMAINS UNCONTROLLED...

- Persistent symptoms
- Frequent/serious attacks



### ...DESPITE TREATABLE FACTORS BEING ADDRESSED...

- Adherence
- Inhaler technique
- Self-monitoring
- Triggers
- Comorbidities



### ...AND MAXIMAL INHALED THERAPY TAKEN REGULARLY

- High-dose inhaled corticosteroids **AND**
- Long-acting beta agonist or a second controller



## WHAT ARE THE SYMPTOMS?

Frequent severe symptoms and asthma attacks, including...



## WHAT TO DO?

Recommend referral for systematic multidimensional assessment and management

## HOW MANY PEOPLE HAVE SEVERE ASTHMA?

Based on international estimates, of people with asthma...

**24%**

of people with asthma receive high intensity treatment

**17%**

have difficult-to-treat asthma  
(high intensity treatment with persistent symptoms)

**3%**  
(up to 10%)

have severe asthma  
(high intensity treatment with persistent symptoms, despite adherence & correct inhaler technique)

## WHAT ARE THE EFFECTS

Severe asthma has a heavy burden on people's lives:

Emotional & psychological burden

Reduced physical activity

Increased co-morbidities

Relationship impacts

Increased costs (medications, healthcare & indirect)

Reduced employment & workplace performance

Hospitalisations

Deaths



# Severe Asthma

**Huangqi Zhang**



## **Severe Asthma:**

*Severe Asthma* Yong Chul Lee, So Ri Kim, Seong Ho Cho, 2017-10-30 This book presents state of the art knowledge on severe asthma with the aim of providing readers with a clear understanding of first the heterogeneity of the condition and of patients symptom profiles and responses to therapy and second the future implications of this heterogeneity for individualized patient care After an opening section that offers an overview of severe asthma including its clinical significance the pathogenesis available diagnostic approaches and treatment options are described in detail The sections on diagnosis and treatment cover the role of biomarkers the use of radiologic diagnostic modalities and both pharmacologic and non pharmacologic therapies including emerging options that will address hitherto unmet needs of patients The outcomes of cutting edge preclinical and clinical research are carefully documented and numerous useful tips provided on patient management The inclusion of many informative schematic figures will assist readers in grasping the contents easily The book will be of high value for medical students researchers general physicians specialists and paramedical staff Severe Asthma Kian Fan Chung, Elliot Israel, Peter G. Gibson, 2019-06-01 Severe asthma is a form of asthma that responds poorly to currently available medication and its patients represent those with greatest unmet needs In the last 10 years substantial progress has been made in terms of understanding some of the mechanisms that drive severe asthma there have also been concomitant advances in the recognition of specific molecular phenotypes This ERS Monograph covers all aspects of severe asthma epidemiology diagnosis mechanisms treatment and management but has a particular focus on recent understanding of mechanistic heterogeneity based on an analytic approach using various omics platforms applied to clinically well defined asthma cohorts How these advances have led to improved management targets is also emphasised This book brings together the clinical and scientific expertise of those from around the world who are collaborating to solve the problem of severe asthma Difficult and Severe Asthma in Children Andrew Bush, Giorgio Piacentini, Francesca Santamaria, Nicola Ullmann, Renato Cutrera, 2019-09-23 Globally severe asthma is defined by the WHO as either A untreated severe asthma B difficult to treat severe asthma and C treatment resistant severe asthma Untreated severe asthma is a political problem the children do not have access to the basic tools for asthma management and when this is corrected asthma outcomes are transformed The problem in difficult to treat severe asthma is not the airway disease but co morbidities and behavioral factors This is the group in which there are most asthma deaths underscoring that severe asthma cannot be solely defined by levels of prescribed therapy Treatment resistant severe asthma is rare and challenging and the problem is the airway pathology These children require new and innovative therapies **Severe Asthma in Children and Adolescents** Erick Forno, Sejal Saglani, 2019-11-13 This book provides readers with a comprehensive review of severe asthma in children and adolescents covering epidemiology genetics risk factors co morbidities clinical presentation diagnosis and treatment Written by leaders in the field chapter discussions draw on the mechanisms driving the disease genetics multidisciplinary approaches

immunomodulators and other important aspects in the management of the disease Severe Asthma in Children and Adolescents Mechanisms and Management is designed to be a practical guide opening with an introduction on the epidemiology of severe childhood asthma as well as a discussion of special considerations of the disease unique to the preschool aged patient The distinctions between the diagnosis and management of asthma in young children of various ages and specific approaches for the adolescent with severe asthma including the transition into adult care are then addressed Finally the book closes with a discussion on the current state and future avenues for severe asthma research Severe Asthma in Children and Adolescents is an indispensable reference for the healthcare professional for basic and translational researchers as well as for students residents and fellows

**Asthma in the 21st Century** Rachel Nadif, 2022-09-08 Asthma in the 21st Century New Research Advances provides an overview on asthma with discussions on its heterogeneity risk factors and their interrelations and e health in an aging world based on current research knowledge The book covers heterogeneity of the disease beyond severe asthma new risk factors new diagnoses with climate change a focus on chemical exposures at home e health and links with aging and notable advances in key areas such as diet and microbiota the genetics of asthma and the asthma versus COPD debate Worldwide the total number of asthma sufferers is estimated to be 270 million with an additional 100 million expected to develop asthma by 2025 and asthma is the most common chronic disease among children There are a number of clinical books available on asthma but none with much discussion on current scientific findings and new disease understanding Yet the concept of asthma has evolved quickly in the past 5 10 years with many clinicians struggling to keep up with new scientific findings Offers an overall view of asthma and addresses notable advances in key areas such as diet and the microbiota the genetics of asthma and asthma COPD overlap syndrome Covers hot topics such as heterogeneity of asthma beyond severe asthma new risk factors more common complications with climate change a focus on chemical exposures at home e health and links with frailty in an aging world Provides a deep understanding of a multifactorial complex and heterogeneous chronic inflammatory disease known as asthma

*Clinical Focus Series: Difficult Asthma* Liam Heaney, Andrew Menzies, 2013-03-30 Most patients with asthma are easily diagnosed and treated with the use of an inhaler or medication Approximately five per cent of people that suffer from asthma have difficult or refractory asthma whereby they experience persistent problems that are not controlled by standard treatment methods Part of the Clinical Focus Series this book provides a complete overview of difficult asthma discussing the clinical assessment and management of this complex condition Beginning with the epidemiology and characteristics of severe asthma the book defines current understanding of the immunological mechanisms and disease heterogeneity It also offers insight into how the condition can affect the physical and psychological aspects of a person's life Separate chapters examine novel therapeutic strategies and the economic burden of refractory asthma Key points Discusses clinical assessment and management of difficult asthma Includes epidemiology immunology physical and psychological effects economic burden and novel therapeutics

Internationally renowned author and editor team      **Textbook of Pulmonary and Critical Care Medicine Vols 1 and 2**  
 SK Jindal, PS Shankar, Suhail Raoof, Dheeraj Gupta, 2011-03-20 Book includes the basic principles of Pulmonology as well as the recent advances in allied clinical sciences relevant to pulmonology Includes valuable inputs on tuberculosis other pulmonary infections environmental and occupational medicine sleep disorders and general systemic diseases affecting the respiratory system Although critical care is relevant for most of the medical and surgical specialties the pulmonologist have a more vested interest than other specialists Assisted respiration which forms the core of most critical care lies in the primary domain of pulmonologists      **Respiratory Disease and its Management** A. McLuckie, 2009-07-28 Medical training for Intensive Care Medicine ICM has made great developments over the years Recent advances have led to the introduction of competency based training with a strong focus on the development of specific competencies at basic intermediate and advanced stages of learning This ensures trainees hold the appropriate skills and knowledge to undertake safe clinical practice and thus provide good patient care One of the key topics covered in ICM training is respiratory disease and its management Based on this it would therefore seem appropriate to introduce a text that addresses each of the key areas

Asthma Peter J. Barnes, Ian W. Rodger, Neil C. Thomson, 1998-04-20 Now available in its Third Edition Asthma Basic Mechanisms and Clinical Management has become the reference text in asthma This highly successful text sheds new light on the basic physiological and molecular mechanisms of asthma how current treatments work and how best to apply the latest knowledge to control this important disease The Third Edition has undergone radical revision and includes several new chapters It retains the virtues of the previous volumes by bringing together all of the recent research findings by internationally recognized experts on the causative mechanisms of asthma including in depth clinical aspects and therapy The book presents an integrated approach toward the treatment of this disease with new concepts changes in asthma management and the development of new therapeutic agents Asthma provides extensive references for researchers and clinicians who need to keep abreast of recent developments in this rapidly expanding field Comprehensive coverage of both basic science and clinical aspects of asthma Extensively referenced throughout      *Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2011* United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Labor, Health and Human Services, Education, and Related Agencies, 2010      Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2011, Part 2A, 111-2 Hearings , 2010      Principles and Practice of Critical Care P. K. Verma, 2019-09-08 This edition is presented in a totally new and reader friendly format The focus of this volume is on holistic management of critically ill adult patients and it builds upon concepts one step at a time allowing one the opportunity to develop competence at one s own pace      Oh's Intensive Care Manual Andrew D. Bersten, Neil Soni, 2009-01-01 The sixth edition provides practical concise information on all aspects of intensive care Written in a clear and accessible style and now for the first time presented in

colour throughout this book enables the user to manage a patient in an ICU setting effectively without recourse to large text reference works or specialized monographs This thoroughly revised and updated edition reflects the best and most current practice from leading centres in Australia the UK and Western Europe Information on management and treatment of conditions is balanced by pathophysiological and pharmacological background This is not just a cook book of procedures It provides all of the essential information for candidates wishing to pass professional examinations Addition of colour throughout to highlight summary boxes tables charts and flow diagrams Will make key information more accessible easier and faster to retrieve Pitfalls in treatment and management emphasized in each chapter Provides the user with expert advice on practical issues that will be encountered on a day to day basis in the ICU Keeps the user abreast of the latest developments in diagnosis and management      **Navigating Pulmonary Crisis** Mohankumar Thekkinkattil,2024-11-12

*Asthma and COPD* Peter J. Barnes,Jeffrey M. Drazen,Stephen I. Rennard,Neil C. Thomson,2008-10-30 The Second Edition of Asthma and COPD Basic Mechanisms and Clinical Management continues to provide a unique and authoritative comparison of asthma and COPD Written and edited by the world s leading experts it continues to be a comprehensive review of the most recent understanding of the basic mechanisms of both conditions specifically comparing their etiology pathogenesis and treatments Each chapter considers Asthma and COPD in side by side contrast and comparison not in isolation in the context of mechanism triggers assessments therapies and clinical management Presents the latest and most comprehensive understandings of the mechanisms of inflammation in both Asthma and COPD Most extensive reference to primary literature on both Asthma and COPD in one source Easy to read summaries of the latest advances alongside clear illustrations      *Rosen's Emergency Medicine - Concepts and Clinical Practice, 2-Volume Set,Expert Consult Premium Edition - Enhanced Online Features and Print,7* James Adams,2010-01-01 This reference places the latest information at users fingertips and a more streamlined format makes it easy to find the exact information quickly and conveniently Includes access to a companion Web site for additional resources      **Civetta, Taylor, & Kirby's Critical Care** Joseph M.

Civetta,2009 Now in its fourth edition this leading critical care textbook contains more than 30 new chapters and completely updated information The book addresses every problem encountered in the intensive care unit and covers surgical critical care more thoroughly than any other text      *Digital Allergology* Paolo Maria Matricardi,Stephanie Dramburg,2025-05-23 Several hundred million citizens suffer from allergic diseases ranging from watery eyes to life threatening anaphylactic shock In addition to the individual reduction of quality of life allergies have an impact on workplace efficiency and healthcare budgets Although new developments of diagnostic assays are advancing quickly their implementation in clinical routine is challenged by several barriers This is very evident in the EU where the gap between technological progress and modern diagnosis is rapidly growing Digital Health tackles this challenge by providing novel tools supporting allergy diagnosis and treatment through internet platforms medical devices smart phone apps telemedicine tools etc The integration of Digital

Health procedures and tools in the management of allergic diseases will allow personalized diagnostic and therapeutic approaches with 24/7 interactivity between patients and professional healthcare. It will enable the delivery of faster relevant healthcare support via real-time accessibility of key information for specialists at primary health care centers, pharmacies, and the patient's home. *Digital Allergology: From Theory to Practice* is unique in comprehensively approaching Digital Allergology, starting with the general frame to more specific parts on specific allergic diseases, public health, as well as research and perspectives from several countries. Allergology being transversal and covering dozens of sub-specialty areas, the list of authors, each one with specific expertise in Digital Health applied to his/her sub-area of interest, is heterogeneous. Same sub-areas will be seen from different perspectives. Built for allergists and other clinicians with a strong interest in allergic diseases, it will be a stimulating read for allied health professionals, insurance companies, public health administrators, manufacturers in allergen immunotherapy, IT developers, and clinical scientists. **Middleton's Allergy E-Book** A. Wesley Burks, Robyn E.

O'Hehir, David H. Broide, Stephen T. Holgate, Leonard B. Bacharier, Gurjit K. Khurana Hershey, R. Stokes Peebles, 2019-09-25. Through eight outstanding editions, Middleton's Allergy Principles and Practice has been the reference of choice for both clinicians and researchers as both a practical reference and an effective self-assessment tool for board preparation. The 9th Edition continues the tradition of excellence with comprehensive coverage of all basic science and clinical applications regarding allergy practice and disease mechanisms. It brings you fully up to date with recent innovations in the diagnosis, prevention, and management of allergic disorders, including emerging global issues, the advent of precision medicine, and new immunologic therapies. Offers unparalleled depth and up-to-date guidance on the full spectrum of allergy across the lifespan with significant updates throughout. Contains new chapters on Innate Lymphoid Cells, Systems Biology, and Treatment of Primary Immunodeficiency Diseases. Discusses emerging topics such as epidemic thunderstorm asthma and precision medicine in allergic disorders. Features more than 730 full-color illustrations, including many new cellular and molecular drawings of disease mechanisms. Includes new Summary of Important Concepts boxes plus new multiple-choice questions online with explanations and answers. Features a new team of expert editors and more international contributors for a global perspective of this complex field. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices. *Pediatric Hospital Medicine* Ronald M.

Perkin, Dale A. Newton, James D. Swift, 2008. Now in its Second Edition, this text focuses exclusively on the management of hospitalized pediatric patients from admission to discharge. It is an excellent resource for residency programs, hospitalist fellowships, and continuing education for physicians whose practice includes the management of hospitalized newborns and children. Because pediatric hospital care is provided by a wide variety of healthcare professionals and in many different hospital settings, this text provides a framework for unified management and effective and efficient care. This edition includes new sections on emergency medicine and psychiatric hospitalization and expanded coverage of management of children with

complex and chronic conditions



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## **Table of Contents Severe Asthma**

1. Understanding the eBook Severe Asthma
  - The Rise of Digital Reading Severe Asthma
  - Advantages of eBooks Over Traditional Books
2. Identifying Severe Asthma
  - 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 Severe Asthma
  - User-Friendly Interface
4. Exploring eBook Recommendations from Severe Asthma
  - Personalized Recommendations
  - Severe Asthma User Reviews and Ratings
  - Severe Asthma and Bestseller Lists
5. Accessing Severe Asthma Free and Paid eBooks

- Severe Asthma Public Domain eBooks
- Severe Asthma eBook Subscription Services
- Severe Asthma Budget-Friendly Options
- 6. Navigating Severe Asthma eBook Formats
  - ePub, PDF, MOBI, and More
  - Severe Asthma Compatibility with Devices
  - Severe Asthma Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Severe Asthma
  - Highlighting and Note-Taking Severe Asthma
  - Interactive Elements Severe Asthma
- 8. Staying Engaged with Severe Asthma
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Severe Asthma
- 9. Balancing eBooks and Physical Books Severe Asthma
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Severe Asthma
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Severe Asthma
  - Setting Reading Goals Severe Asthma
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Severe Asthma
  - Fact-Checking eBook Content of Severe Asthma
  - 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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