

Gina Asthma Clasification

Asthma in Australian Children Antoinette Zinoviev,Leanne Poulous,Rosario Ampon,Anne-Marie Waters.2009 This study investigated the incidence, prevalence, risk factors among infants, risk factors among children, management, and outcomes of childhood asthma and wheezing illness in Australia, drawing upon findings from 'Growing up in Australia: the Longitudinal Study of Australian Children'. The analysis found that within the first 3 years of life, 16.9% of infants in the study experienced asthma or wheeze, and of the non-asthmatic children aged 4 to 5 years, 4.1% will develop asthma by the seventh year of life. The report examines the differences in risk factors and prevalence among the different age groups, gender differences, preventive factors, and health effects.

Asthma and COPD Peter J. Barnes,Jeffrey M. Drazen,Stephen I. Rennard,Neil C. Thomson.2009-03-19 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

Severe Asthma Kian Fan Chung,Elliot Israel,Peter G. Gibson.2019 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.

Global Strategy for Asthma Management and Prevention DIANE Publishing Company.1996-09 Contents: definition; epidemiology; risk factors; mechanisms of asthma; diagnosis and classification; prevention; a six-part asthma management program (educate patients to develop a partnership in asthma management; assess and monitor asthma severity; avoid or control asthma triggers; establish medication plans for long-term management; establish plans for managing exacerbations; provide regular follow-up care); socioeconomic; education and the delivery of care; recommendations; glossary. Extensive references. Charts and tables.

Childhood Asthma Stanley J Szeffler,Soren Pedersen.2005-09-26 This reference collects the latest studies on the development, diagnosis, and treatment of childhood asthma and offers current perspectives on new technologies that will shape the management of pediatric asthma in the forthcoming decade-illustrating how advances in pulmonary function measurement, inflammatory markers, imaging, and pharmacogenetics will enhance the diagnosis and monitoring of asthma in years to come.

Asthma in Children and Adults - What are The Differences and What Can They Tell us About Asthma? Steve Turner,John W. Upham.2020-05-15

Asthma Peter J. Barnes,Ian W. Rodger,Neil C. Thomson.1992 The Second Edition of this highly successful text includes all the virtues of the first--all aspects of research on the causative mechanisms of asthma and its treatment as well as exhaustive and extensive chapter references. The book has expanded in line with recent research findings. Of special note is the inclusion of important advances in the understanding of the basic inflammatory process in asthma--the role of individual cells, and the role of multiple inflammatory mediators. Comprehensive coverage of both basic science and clinical aspects of asthma Exhaustively referenced throughout

European Lung White Book European Respiratory Society (United Kingdom),Robert Loddenkemper,European Lung Foundation,G. J. Gibson,Y. Sibille.2003-01-01

100 Questions & Answers about Asthma .

Asthma Adherence .1999

Difficult and Severe Asthma in Children Andrew Bush,Giorgio Piacentini,Francesca Santamaria,Nicola Ullmann,Renato Cutrera.2019 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Expert Panel Report .2003

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.

Antifungal Therapy Mahmoud Ghannoum,John R. Perfect.2016-04-19 A concise one-stop-practical reference for the various physicians dealing with fungal infections, Antifungal Therapy appeals to infectious disease physicians, transplant surgeons, dermatologists, and intensivists, as well as basic scientists and pharmaceutical company researchers interested in the state of antifungal therapy. This book provides a c

America Breathing Easier U. S. Department of Health and Human Services,Centers for Disease Control and Prevention,National Program.2012-06-26 CDC's National Asthma Control Program (NACP) was created in 1999 to help the millions of people with asthma in the United States gain control over their disease. The program's goals include reducing the number of deaths, hospitalizations, emergency department visits, school days or workdays missed, and limitations on activity due to asthma. The NACP funds states, cities, school programs, and non-government organizations to help them improve surveillance of asthma, train health professionals, educate individuals with asthma and their families, and explain asthma to the public. The program has improved asthma treatment, management, and control in the U.S. The NACP collects data on state-specific levels to focus efforts and resources where they are needed. CDC's funded programs have improved the quality of asthma care, improved asthma management in schools, and fostered policies to help reduce air pollution. CDC's National Asthma Control Program plays a critical role in helping America breathe easier by learning more about asthma and how to control it. Four thousand people die each year from asthma-related causes, and asthmas is a contributing factor in another 7,000 deaths every year. In asthma, something - air pollution, allergens, exercise, stress, certain chemicals in the workplace - causes the airways of the lungs to

narrow or become blocked, making it hard to breathe. For the most part we don't know why some people have asthma and other do not – although we're getting closer every day – but thanks to the work of medical researchers, health care professionals, and public health specialists, we're doing more to help people with the disease alleviate some of their burden. But the burden of asthma falls not only on individuals with asthma. It also falls on our schools, our families, our neighborhoods, our workplaces, our cities, and our states. It falls on our health care system. It falls on all Americans, whether or not we have asthma, because we pay for that burden with higher health insurance rates, with lost productivity, and with our tax dollars. The CDC National Asthma Control Program funds states, cities, and school programs to help them improve surveillance of asthma, train health professionals, educate individuals with asthma and their families, and explain asthmas to the public. To maintain that progress, CDC and its federal, state, local, and nonprofit partners must continue the vital work of tracking asthma, enhancing the capacity of federal, state and local public health offices; training health practitioners and educators; implementing proven interventions; filling in gaps in research; and increasing the American people's understanding of asthma. As part of a joint, coordinated effort, these people, programs, and policies can alleviate the burden of asthma and keep America breathing easier.~

Paediatric Asthma J. Gerritsen, K-H. Carlsen. 2012 Asthma is a disease of many faces and is frequently seen in children. This Monograph covers all aspects of paediatric asthma, across all ages, from birth through to the start of adulthood. It considers diagnostic problems in relation to the many phenotypes of asthma, covers the treatment of both mild-to-moderate and severe asthma, and discusses asthma exacerbations as well as exercise-induced asthma. The issue also provides an update on the pathophysiology of asthma, the role of bacterial and viral infections, and the impact of environmental factors, allergy, genetics and epigenetics. Finally, **Advances in Asthma** Akihito Yokoyama. 2018-12-18 This book provides discussions on bronchial asthma from a clinical perspective, focusing on the recent studies on its pathophysiology, diagnosis and treatment. It also explores the latest findings regarding the phenotypes and endotypes of asthmatic patients, making it of particular interest to those involved with non-eosinophilic asthma and eosinophilic asthma. Further, it discusses the importance of ILC 2 in eosinophilic asthma, and the accumulated results from the forced oscillation technique and periostin that are actively practiced in Japan. As some aspects of diagnosis and treatment are different in Western and Asian countries, it is important that the data is disseminated around the globe. The clinical questions addressed by the authors are critical and thought provoking, while the questions raised by the editors are instructive, informative and provide new perspectives on unresolved issues. This book appeals to wide readership from beginning learners to physicians in clinical practice and scholars engaging in basic research.

Middleton's Allergy Essentials E-Book Robyn E. O'Hehir, Stephen T Holgate, Aziz Sheikh. 2015-12-09 For decades, health care practitioners have relied on Middleton's Allergy as their go-to reference for comprehensive information on allergic disorders. Now Middleton's Allergy Essentials, by Drs. Robyn E. O'Hehir, Stephen T. Holgate, and Aziz Sheikh, offers a concise resource that's both easily accessible and highly authoritative. Perfect for clinicians in primary and secondary care settings, this practical volume covers what is most useful in your daily practice, with a strong emphasis on disease diagnosis and management. A practical approach to evaluation, differential diagnosis, and treatment of allergic disorders, focused specifically on what the non-specialist needs to know for everyday practice. Each chapter begins with a handy summary of key concepts to help you quickly identify important information. Coverage of today's hot topics includes asthma, drug allergies, food allergies and gastrointestinal disorders, anaphylaxis, atopic dermatitis, and allergic contact dermatitis. Concise sections on mechanisms are included where relevant, keeping you up to date with this rapidly evolving field. Authored by the same internationally recognized experts that produce Middleton's Allergy, the definitive text in the field. Ideal for physicians, residents, general and family practitioners, nurse practitioners, primary care doctors, hospitalists, general internists – anyone who is called upon to make effective diagnostic and treatment decisions regarding allergic disorders.

High-resolution CT of the Lung Wayne Richard Webb, Nestor Luiz Müller, David P. Naidich. 2009 The thoroughly revised Fourth Edition of this widely acclaimed volume explains how to use the newest high-resolution CT technology to detect and diagnose lung abnormalities. Still the only complete text on the topic, this compact, affordable reference is written by the foremost experts and provides cutting-edge technical and clinical information. It includes state-of-the-art HRCT scans of interstitial lung diseases and differential diagnosis tables summarizing the most helpful diagnostic features of interstitial and airspace diseases. This edition includes full-color illustrations of histologic findings in lung disease, correlated with HRCT manifestations. Also included are updated HRCT images obtained on multidetector CT scanners with many coronal and sagittal reformations. Two new chapters on the idiopathic interstitial pneumonias detail the differential diagnosis, pathophysiology, histology, clinical manifestations, and HRCT features of these entities. A companion Website will offer the fully searchable text plus an image bank containing all illustrations from the text.

McMaster Textbook of Internal Medicine 2019/20 Roman Jaeschke, Piotr Gajewski, Paul M. O'Byrne. 2019-10-30 A convenient compact textbook that fits snugly into your scrubs pocket. Developed at McMaster University, the birthplace of evidence-based medicine (EBM) and one of the world's top universities, in cooperation with over 300 highly renowned scientists from North America and Poland.

Pediatric Asthma Charles K. Naspitz. 2001 Asthma is a condition which affects many infants and older children and which can be debilitating in its severity. The editors of this text assembled a team of experts from around the world to discuss the various aspects of the disease. A section on normal lung development precedes chapters concentrating on asthma in different age groups. Various causes of asthma, such as exercise, indoor and outdoor allergens and food hypersensitivity are discussed in the following chapters. The psychological and socioeconomic impact of the disease on this vulnerable age group is covered, and various methods.

Respiratory Epidemiology Isabella Annesi-Maesano, Bo Lundbäck, Giovanni Viegi. 2014-09-01 Over the last decade, the volume of research into the pathophysiology and genetics of pulmonary diseases has increased greatly. This has led to the development of new treatments and therapies for many diseases, including lung cancer, asthma and cystic fibrosis. This issue of the ERS Monograph comprehensively demonstrates the developments in respiratory medicine in recent years. It outlines the importance of epidemiology in respiratory medicine, and will prove a methodological tool that will help disease management. It should also be used as an advocacy tool for the sake of public health.

2016 Pocket Guide for Asthma Management and Prevention Global Initiative For Asthma. 2016-02-19 The Global Initiative for Asthma (GINA) was established to increase awareness about asthma among health professionals, public health authorities and the community, and to improve prevention and management through a coordinated worldwide effort. GINA prepares scientific reports on asthma, encourages dissemination and implementation of the recommendations, and promotes international collaboration on asthma research.

Immunotherapy in Asthma Jean Bousquet, Hans Yssel. 1999-08-24 This massive reference thoroughly analyzes the mechanisms implicated in the pathophysiology of asthma, such as T helper lymphocyte subsets, and the consequences of various extrinsic and intrinsic factors, and IgE receptor expression – reviewing current concepts in immunotherapeutic approaches for the treatment of this and other allergic diseases. Investigates the only category of treatment showing the potential to affect the natural course of allergic diseases and prevent the onset of asthma. Written by more than 80 internationally renowned pulmonary experts, allergic disease specialists, and basic researchers, Immunotherapy in Asthma discusses the efficacy of new medications, examines the role of metachromatic cells, lymphocytes, macrophages, and other cell types present in bronchial biopsies, presents basic topics such as the functional and phenotypic properties of Th1 and Th2 cells and their role in allergic disease and the regulation of IgE-mediated inflammatory responses, addresses the deleterious effects of smoking and passive exposure to cigarette smoke in children and adults, assesses differences and similarities between intrinsic and antigen-induced asthma, describes the effects of immunogenic peptides on the cytokine production profile of allergen-specific CD4+ T cells, explains the different clinical aspects of allergic responses, such as bronchial hyperreactivity and eosinophilic inflammation of the airways, reviews the genetic basis of allergy, as well as risk factors for asthma, explores oral, sublingual, local nasal, and local bronchial routes for noninjective immunotherapies, evaluates various agents with modulatory effects.

on normal and pathogenic immune responses focuses on strategies for the prevention of childhood asthma and more! Containing over 3000 references, drawings, and tables, Immunotherapy in Asthma is an indispensable resource for pulmonologists, immunologists, allergists, and medical school students in these disciplines.

2019 Pocket Guide for Asthma Management Global Initiative For Asthma.2019-04-10 The Global Strategy for Asthma Management and Prevention provides a comprehensive and integrated approach to asthma management that can be adapted for local conditions and for individual patients. It focuses not only on the existing strong evidence base, but also on clarity of language and on providing tools for feasible implementation in clinical practice. The report is updated each year. The 2019 GINA report includes important new recommendations for treatment of mild asthma (page 16) and severe asthma (page 24).

Difficult To Treat Asthma Sandhya Khurana,Fernando Holguin.2019-08-29 This book provides a practical, stepwise, evidence-based approach to effective management of patients with difficult to treat asthma. The impact of asthma on morbidity and healthcare utilization increases exponentially with severity. Severe refractory asthma accounts for less than 5% of all asthma. Its prevalence, however, is often overestimated as there are several other confounding factors that make asthma 'difficult to treat'. Many novel (albeit expensive) therapies are now available and providers caring for patients with severe asthma are charged with selecting the best evidence treatment. This calls for complex and nuanced decision-making. Whether people with asthma gain and maintain control over their condition depends not only on the availability of effective drugs, but also multiple patient and healthcare provider behaviors. Therefore, now more than ever, it has become increasingly important to differentiate "difficult" from "severe refractory" asthma to allow identification of patients most likely to benefit from these therapies. This volume delves into the current understanding of mechanisms and increasingly recognized heterogeneity of this complex disease. It discusses a structured approach to identification and optimization of factors contributing to poor asthma control, including nonadherence, comorbidities and occupational/environmental triggers. The book includes 'state of the art' reviews on recent advances in traditional and targeted asthma therapies, as well as a glimpse into what the future may hold. Highlights include a comprehensive guide to management of severe asthma in children and pregnancy, as well as practical considerations to management of asthma based on different clinical phenotypes. Each chapter is authored by leading experts in the field who share their own clinical approach. This is an ideal guide for clinical pulmonologists and allergist/immunologists, as well as primary care providers, physician extenders in specialty practice, physicians in pulmonary/allergy training, and even industry partners.

Asthma Celso Pereira.2019-10-02 Asthma is a prevalent disease in all age groups that results from different pathogenic mechanisms, cells, and mediators engaged in innumerable clinical phenotypes and endotypes. This book exhaustively and didactically explores the biological expression of numerous cells and mediators involved in bronchial inflammation. The information provided aims at identifying the diversity and complexity of the interrelationships between the different players, drawing attention to critical mechanisms in asthma. It also highlights the requirement of new tools to identify strong biomarkers absolutely critical for managing asthma.

Essentials of Clinical Pulmonology Pallav L Shah,Felix JF Herth,YC Gary Lee,Gerard J Criner.2018-09-05 Concise yet comprehensive, this textbook of clinical pulmonology provides pulmonologists and respiratory disease physicians with all the key information that they need to know to manage the patient through the diagnosis and treatment journeys. From the most common condition to the rarest, each disease is consistently presented and comprehensively covered giving the reader just the key facts. Building upon the basic sciences and integrating these with clinical practice, each chapter has a consistent approach, is highly designed and visually appealing. Numerous illustrations, colour photographs, scans, bullet points, tables and algorithms ensure that the key information is available at a glance. The keynote sections serve as a useful revision aid as do the multiple choice questions. A truly international and highly experienced editorship with expert contributors from around the world ensure that the book remains a trusted source of information. Set at the level between the definitive reference work and the clinical manual, *Essentials of Clinical Pulmonology* is an invaluable cornerstone for all pulmonologists whether trainees or experienced clinicians.

Diagnosis and Management of Bronchial Asthma Michael Glass.2015-03-05 This book is a concise and sophisticated introduction to bronchial asthma. Asthma remains a severe cause of anxiety for a lot of people worldwide. This book discusses topics related to the diagnosis, prevalence and progression of asthma. It also includes

Evidence-based Asthma Management J. Mark FitzGerald.2001 Introducing a new book that takes a solid, evidence and research-based approach to asthma management. From start to finish, this book guides the reader through indication for the use of current therapies, including beta adrenergic agonists, corticosteroids, alternate therapies, and more. An informative guide, it offers advice on asthma education, compliance issues, and what to do when asthma is unresponsive to the usual therapy. Additionally, epidemiology, genetics, diagnosis, inducers and triggers are also discussed.

Expert Panel Report 2 National Asthma Education and Prevention Program (National Heart, Lung, and Blood Institute). Second Expert Panel on the Management of Asthma.1998

Asthma in the Elderly Robert Barbee.1997-08-12 This invaluable clinical resource furnishes a comprehensive review of asthma in the older patient-covering pathology, physiology, immunology, diagnostic problems, and management. Written by a team of renowned authorities, *Asthma in the Elderly* addresses the epidemiology and classification of asthma in the older population details the pharmacological management of chronic asthma as well as acute exacerbation management summarizes the toxicity of asthma drugs and the potential pitfalls of pharmacological management describes the pathological features of airway obstructive disease in older patients presents the factors that make asthma management more complex and patient education more difficult and much more! Containing over 1100 bibliographic citations for more in-depth exploration of particular topics, *Asthma in the Elderly* is a practical guide for pulmonologists and pulmonary disease specialists; clinical allergists; geriatricians; internists; chest, intensive care, primary care, and family practice physicians; respiratory therapists; physiologists; pathologists; cell and molecular biologists; and medical school students in these disciplines.

Pulmonary Function Testing in Children: Techniques and Standards George Polgar,Promadhat Varuni.1971

Allergy and Asthma .2019-06-25 *Allergy and Asthma: The Basics to Best Practices* is intended to serve as a single comprehensive reference covering all needed knowledge of allergic diseases. Allergy is a unique and distinctive area of medicine wherein learning the fundamentals requires gathering information from various different disciplines. Allergic diseases affect various organ systems and the practice of a wide range of physicians from otolaryngologists, and pulmonologists, to gastroenterologists, dermatologists, and ophthalmologists. Clinicians and trainees alike will benefit from a resource that introduces the basic concepts, as well as providing comprehensive, consistently up-to-date instruction on intermediate and advanced conditions, research, and treatment strategies. The book is divided into nine sections and is written by some of the foremost experts in the field. *Allergy and Asthma* opens with an introduction which covers the epidemiology of allergic diseases, fundamentals of allergy and immunology, and a thorough grounding of different types of allergens. Early sections address allergic upper airway diseases, allergic skin diseases, and asthma in detail, using a structured, consistent format from chapter to chapter to provide continuity and ease of reference. Later sections thoroughly cover various food allergies, insect allergies, drug allergy, anaphylaxis, and utilize ample tables and illustrations to provide additional learning tools for the reader. This major reference not only provides basic knowledge on diagnosing and treating allergies, but moves beyond these basics to emphasize using a systematic approach to working up and treating a patient. A variety of techniques used in diagnosing asthma and allergy will be examined, of which include prick skin tests, in-vitro testing, patch testing and non-conventional allergy tests. Concluding this book are sections dedicated to management, therapeutic strategies of allergy and asthma, with a look to future research directions for this unique field. Physicians and residents in allergy and immunology, pulmonology, otolaryngology, gastroenterology, dermatology, ophthalmology and other specialties will find the work of value in enhancing their practice and studies. Researchers in a range of areas especially immunology and food science will also find this text to be a compelling and reliable resource.

British Guideline on the Management of Asthma .2008

100 Questions and Answers about Your Child's Asthma Claudia S. Plottel,B. Robert Feldman.2007-06 The authors provide authoritative, practical answers to your questions about childhood asthma, treatment options,

post-treatment quality of life, coping strategies for both patient and caregiver, and sources of support.

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.

Fuzzy Systems and Data Mining III A.J. Tallón-Ballesteros, K. Li. 2017-11-07 Data science is proving to be one of the major trends of the second decade of the 21st century. Even though the term was coined by Peter Naur in the mid 1960s as 'datalogy', or the science of data, it is in the context of data analytics, and especially of big data, that data science has emerged as the new paradigm. Fuzzy and Crisp strategies are two of the most widespread approaches within the computational intelligence umbrella. This book presents 65 papers from the 3rd International Conference on Fuzzy Systems and Data Mining (FSDM 2017), held in Hualien, Taiwan, in November 2017. All papers were carefully reviewed by program committee members, who took into consideration the breadth and depth of the research topics that fall within the scope of FSDM. Offering a state-of-the-art overview of fuzzy systems and data mining, the publication will be of interest to all those whose work involves data science.

Heterogeneity in Asthma Allan R. Brasier. 2014-07-08 Asthma is a chronic relapsing airways disease that represents a major public health problem worldwide. Intermittent exacerbations are provoked by airway mucosal exposure to pro-inflammatory stimuli, with RNA viral infections or inhaled allergens representing the two most common precipitants. In this setting, inducible signaling pathways the airway mucosa play a central role in the initiation of airway inflammation through production of antimicrobial peptides (defensins), cytokines, chemokines and arachidonic acid metabolites that coordinate the complex processes of vascular permeability, cellular recruitment, mucous hyper-secretion, bronchial constriction and tissue remodeling. These signals also are responsible for leukocytic infiltration into the submucosa, T helper-lymphocyte skewing, and allergic sensitization. Currently, it is well appreciated that asthma is a heterogeneous in terms of onset, exacerbants, severity, and treatment response. Current asthma classification methods are largely descriptive and focus on a single aspect or dimension of the disease. An active area of investigation on how to collect, use and visualize multidimensional profiling in asthma. This book will overview multidimensional profiling strategies and visualization approaches for phenotyping asthma. As an outcome, this work will facilitate the understanding of disease etiology, prognosis and/or therapeutic intervention.

Environmental Tobacco Smoke Exposure in Children Aged 3-19 Years with and Without Asthma in the United States, 1999-2010 Kenneth B. Quinto. 2013

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Gina Asthma Clasification Introduction

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