

Asthma transition from childhood into adulthood

Oliver Fuchs*, Thomas Bohmer†, Claus F Rabe, Erik von Mutius

Asthma is the most prevalent chronic respiratory disease both in children and adults and resembles a complex syndrome rather than a single disease. Different methods have been developed to better characterise distinct asthma phenotypes in childhood and adulthood. In studies of adults, most phenotyping relies on biomaterials from the lower airways; however, this information is missing in paediatric studies because of restricted accessibility. Few patients show symptoms throughout childhood, adolescence, and adulthood. Risk factors for this might be genetics, family history of asthma and atopy, infections early in life, allergic diseases, and lung function deficits. In turn, a large proportion of children with asthma lose their symptoms during school age and adolescence. This improved prognosis, which might also reflect a better treatment response, is associated with being male and with milder and less allergic disease. Importantly, whether clinical remission of symptoms equals the disappearance of underlying pathology is unknown. In fact, airway hyper-responsiveness and airway inflammation might remain despite the absence of overt symptoms. Additionally, a new-onset of asthma symptoms is apparent in adulthood, especially in women and in the case of impaired lung function. However, many patients do not remember childhood symptoms, which might reflect relapse rather than true initiation. Both relapse and adult-onset of asthma symptoms have been associated with allergic disease and sensitisation in addition to airway hyper-responsiveness. Thus, asthma symptoms beginning in adults might have originated in childhood. Equivocally, persistence into, relapse, and new-onset of symptoms in adulthood have all been related to active smoking. However, underlying mechanisms for the associations remain unclear, and future asthma research should therefore integrate standardised molecular approaches in identical ways in both paediatric and adult populations and in longitudinal studies.

Introduction

Whooping disorders and asthma are the most prevalent chronic respiratory diseases both in childhood and adulthood, with about 300 million people of all ethnicities affected worldwide across all ages. Despite common pathophysiological factors that lead to characteristic clinical symptoms, individuals affected by asthma vary substantially in their complaints, in their clinical manifestations, including comorbidities, and across age groups.¹

Childhood and adult asthma resemble a complex syndrome rather than a single disease and present with different phenotypes^{2,3} that lead to the recognised state of variable airway obstruction, which at times is not fully reversible or even fixed during the disease course.⁴ Presumably, however, variable airway obstruction is affected through diverse underlying pathophysiological processes adding further to the complexity of our pathophysiological understanding.^{5,6} These diverse underlying mechanisms could be used to further define asthma, which is known as an asthma endotype. This approach also includes complex but refined molecular information in a network approach with the aim to better link biology to clinical presentation.^{7,8} However, symptoms, especially during early life, are rather poor predictors of asthma later in life, and the disease displays a variable course across all ages. These variabilities are possibly the reason why asthma phenotypes have not helped to improve prognosis in the clinical setting for children or for adults, although such predictors and targeted treatment strategies are urgently needed.

Independent of age, several methods for the definition of asthma phenotypes have been developed. These methods are either based on a combination of

clinical and empirical approaches and data obtained from epidemiological studies, including molecular information,^{9,10} or they use objective and unsupervised data-driven techniques to determine endophenotypes and phenotypes from collated data,^{11,12} which remain subjective because of the a-priori choice of data used in the analyses.

However, most endophenotyping and phenotyping have been investigated in children and adults separately, with an inherent bias towards data on underlying pathophysiology in adults and epidemiological data for children. Accordingly, data on the important link between childhood and adult asthma are sparse, despite some prospective studies spanning the age ranges.

Key messages

- For persistent asthma symptoms, epidemiological studies have identified genetic background, family history of asthma and atopy, infections early in life, allergic disease, and lung function deficits as risk factors.
- Data for remission and relapse of asthma symptoms are sparse, but point towards male sex and a milder and less allergic disease being associated with remission of symptoms, and a role of allergic disease and persisting airway hyper-responsiveness for their relapse.
- For new-onset of asthma symptoms in adults, risk is increased for women and in the case of allergic disease, pre-existing airway hyper-responsiveness and lung function impairment.
- Equivocally, persistence into adulthood and relapse and new-onset of asthma symptoms in adulthood have all been related to uptake of active smoking.



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For more on asthma prevalence see <http://www.growthis.org>

Asthma From Childhood To Adulthood Proefschrift

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Akdis, Leonard B. Bacharier, Charlotte
Cunningham-Rundles, Scott H
Sicherer, Hugh A. Sampson**

Asthma From Childhood To Adulthood Proefschrift:

Asthma from Childhood to Adulthood Marion Helena Grol, 1999 **The Transition of Respiratory Care: from Child to Adult** Alexandra M. Nanzer, Peter J. Barry, Brian D. Kent, 2024-06-01 One in five adolescents have special healthcare needs one in 10 face limitations to daily activities due to chronic illness or disability Taken alongside the ever changing societal landscape and the multifaceted psychological aspects of adolescence these statistics underline the need to recognise adolescents and young adults as a distinct patient population with unique healthcare needs This Monograph addresses this need Opening with chapters that discuss health inequalities adolescent psychology and treatment adherence the book goes on to cover specific respiratory diseases and the requirements of their adolescent subjects Readers will find this Monograph a useful and interesting insight into adolescent health *Methods in Asthmology* Luigi Allegra, Pier C. Braga, Roberto Dal Negro, 2012-12-06 Bronchial asthma is a multifactorial disease Cooperation between pneumologists physiologists immunologists pharmacologist and pediatricians is frequently needed for the complete investigation of an asthma case This means that a physician in general practice cannot alone assess all the aspects of asthma employing different techniques to manage this disease This book will provide physicians with a unique source on the principal methods which can be used to analyze individual cases of asthma and a helpful reference source for better understanding the multiple pathways to the disease **Neonatal and Pediatric Respiratory Care - E-Book** Brian K. Walsh, 2018-09-06 Learn to improve the respiratory care of neonates infants and children Neonatal and Pediatric Respiratory Care 5th Edition gives you a solid foundation in the assessment and treatment of respiratory disorders Clear full color coverage simplifies the principles of respiratory care while emphasizing clinical application A critical piece in respiratory care's total curriculum solution this new edition includes all the changes in current clinical practice and in the education environment Learning objectives at the beginning of each chapter break down key content into measurable behaviors criteria and conditions and self assessment questions provide an excellent review for the NBRC Neonatal Pediatric Specialty exam UPDATED Content reflects the latest developments in the field meeting the needs of AD programs and BS Respiratory Care programs which are growing in this field NBRC exam style assessment questions test your comprehension of the material in each chapter Neonatal and pediatric disorders case studies provide an opportunity to see how content covered in the text applies to the more difficult areas of care for neonatal and pediatric disorders Comprehensive test preparation is provided through coverage of all the content in the matrix for the NPS exam Learning objectives at the beginning of each chapter highlight what you should learn by breaking down key content into measurable behaviors criteria and conditions Academic and authoritative presentation of content covers all of the major topics of respiratory care for neonates infants and children including both theory and application Dedicated Quality and Safety chapter addresses quality care for the neonatal pediatric patient NEW Revised chapter Invasive Mechanical Ventilation of the Neonate and Pediatric Patient conforms to the new terminology and taxonomy

for modes of ventilation NEW Additional case studies provides more application opportunities for you NEW Revised content better correlates to the NBRC NPS exam

Clinical Asthma Jonathan A. Bernstein, Mark L. Levy, 2025-09-03 Enormous progress in asthma research has been made in the past 50 years including a greater understanding of its complex pathogenesis and new and more effective therapies Consequently the scientific literature has grown vast and can be difficult to integrate With contributions from a distinguished panel of world renowned authors the Second Edition of Clinical Asthma Theory and Practice presents a comprehensive study of both the common and the more challenging problems faced by all healthcare personnel who treat patients with asthma The book is divided into seven sections starting with the basics of asthma and ending with a discussion on the approach to asthma worldwide and in the primary care setting Reflecting a strong clinical emphasis each chapter begins with a patient case study supported by essential background information on the basic science and clinical decision making process This is followed by a discussion of clinical evaluation and management The multidisciplinary coverage explores a range of topics including genetics inflammation immunology and the identification of different endotypes Using a bench to bedside approach the book links basic science to the clinical management of asthma and explores options for improvement The carefully selected authorship from experts worldwide presents a truly global outlook

Respiratory Diseases in Women S. Buist, C.E. Mapp, 2003-06-01 Present day insights into the relationship between gender and health emphasise the necessity of taking sex and gender differences into consideration Sex refers to biological characteristics such as chromosomes physiology and anatomy that distinguish females and males Gender refers to the array of socially constructed roles and relationships personality traits attitudes behaviours and values that society ascribes to the two sexes on a differential basis In health related research both sex differences and differences resulting from gender are implied Sex can determine differential propen

Asthma's Impact on Society Kevin B. Weiss, 1999-10-27 One of the first comprehensive studies of the social and economic consequences of this chronic pulmonary illness Asthma's Impact on Society assesses how communities families and individuals confront asthma and try to minimize its deleterious effects Written by over 25 highly esteemed experts Asthma's Impact on Society defines the con

Clinical Asthma E-Book Mario Castro, Monica Kraft, 2008-04-21 This unique new text delivers practical guidelines on diagnosing and treating patients with asthma Drs Castro and Kraft are extensively involved in asthma research and improved patient care and their comprehensive coverage of key challenges in diagnosing and treating asthma makes this a must have resource The organized full color format ensures readability and helps you find information quickly and easily Offers up to date protocols and management guidelines to help you provide the best care for your patients Presents chapters on special situations and special populations to help you overcome clinical challenges such as the difficult to control or pregnant asthma patient Provides specialized sections on asthma education to give guidance on leading your patients to better self management by improving their adherence to treatment guidelines Highlights material found on the Asthma Educator Certification exam in special education

boxes Offers expert guidance on translating the new NIH EPR 3 Asthma Guidelines to hands on patient care Organized in a consistent chapter format that provides concise logical coverage of essential information for easy reference Contains special boxes that highlight clinical pearls controversial issues and patient education information Uses a full color format that makes it easy to find information quickly *Allergic Diseases from Infancy to Adulthood* Charles Warren Bierman, David S. Pearlman, 1988 The American Review of Respiratory Disease, 1993-11 Includes Abstracts section previously issued separately **The European Respiratory Journal**, 1993 *Manual of Asthma Management* Paul M. O'Byrne, Neil C. Thomson, 2001 This manual covers asthma management in both adult and paediatric patients This updated edition combines tackling practical clinical issues with the basic science to aid diagnosis management and treatment *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 ALLERGIES Bruce S. Dobozin MD. & Stuart H. Young, 2011-07-16 Fifty million Americans suffer from allergies to certain foods pollens animal danders dust mites and other less common allergens Although the most common symptoms from watery eyes to hives are not life threatening there is a substantial cost in health care spending associated with these conditions Americans spent about 18 billion each year on asthma care in 2009 And of the 19 billion spent each year on over the counter remedies a substantial portion is spent on allergy medications Now two specialists in allergy medicine reveal how to manage allergies safely and effectively and live more comfortable symptom free lives Allergies debunks the many myths about allergies and offers long term help to both seasonal and chronic sufferers This comprehensive and authoritative resource helps you make informed choices about everything from diagnostic tests to nasal antihistamines and corticosteroid sprays from homeopathic remedies for poison ivy and insect bites to desensitizing therapies and emergency relief for severe allergic reactions and much more including A detailed evaluation of the most common over the counter drugs How to minimize allergens like mites pollen and danders in your house Useful advice for life threatening allergies such as food and stinging insects Allergies and exercise Allergies and pregnancy Skin disorders from allergies When allergy shots are unnecessary Self treatment versus traditional care How to recognize and avoid allergy scam treatments

Allergies in children and the elderly Plus a comprehensive guide to reliable information on the internet **Danish Medical Bulletin** ,1954 American Journal of Respiratory and Critical Care Medicine ,2007 A Psychological Study of Mothers of Asthmatic Children Marvin Margolis,1959 **Asthma and Rhinitis** William W. Busse,Stephen T. Holgate,2008-04-30 The second edition of this highly acclaimed text has been extensively revised and greatly expanded to reflect the considerable advances made in our understanding of the mechanisms of asthma and rhinitis Containing the contributions of 242 experts of international standing presented in 133 chapters Asthma and Rhinitis provides an up to date authoritative reference for both the clinician and scientist The global approach given in this book mirrors the universal approach to the understanding of allergic disease The editors have carried out a thorough and radical revision of the content by adding 6 new sections and 44 new chapters Most of this expansion is due to greatly increased coverage of the clinical aspects of asthma with new sections on childhood asthma and on drug treatment each drug class has its own chapter Also the expansion of research into the genetic basis of asthma has necessitated a whole new section on Genetics comprising some six chapters There are also new chapters on adult onset asthma and the relationship of asthma to sinusitis A new section on Asthma in Special Circumstances includes chapters on asthma in pregnancy asthma and surgery asthma in the elderly and asthma in the context of critical care In bringing the Second Edition fully up to date the book has inevitably increased in size and is now presented in two volumes The second edition of Asthma and Rhinitis will continue the tradition of its predecessor of providing an up to the minute reference for all those involved in the management of and research into asthma and rhinitis **Research Relating to Children** ,1954 *Pediatric Allergy,E-Book* Donald Y. M. Leung,Cezmi A Akdis,Leonard B. Bacharier,Charlotte Cunningham-Rundles,Scott H Sicherer,Hugh A. Sampson,2020-10-19 With complete concise coverage of prevention indications diagnosis and treatment Pediatric Allergy 4th Edition is your go to resource for current clinically focused content in the rapidly changing field of allergies and immune mediated diseases in children This highly regarded reference fully covers immunology and origins of allergy growth and development pregnancy infancy and early middle and late childhood all with a new practical clinical focus You ll find authoritative coverage of the full range of allergies in pediatric patients from asthma and other common conditions to rare or uncommon allergies providing a one stop resource for clinicians across specialties who care for children Focuses on the clinical application of science to the bedside including clinical pearls discussing best practice approaches and guidelines Integrates the latest research on the origins of allergy in early life including pregnancy the neonate and infants Includes new evidence based management guidelines for various diseases including food allergy atopic dermatitis asthma and immunodeficiency Provides new content on the prevention of allergies asthma eczema and food allergies in young children and extensive current guidelines and new therapies Offers up to date information on key areas such as food challenges skin testing IgE diagnostic labs immunotherapy clinical immunology diagnostic testing molecular diagnostics and lung function testing Highlights current guidance from a new team of leading

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Asthma From Childhood To Adulthood Proefschrift Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Asthma From Childhood To Adulthood Proefschrift**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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