

# Adults & adolescents 12+ years

## Personalized asthma management:

Assess, Adjust, Review response

Symptoms  
Exacerbations  
Side-effects  
Lung function  
Patient satisfaction



Confirmation of diagnosis if necessary  
Symptom control & modifiable risk factors (including lung function)  
Comorbidities  
Inhaler technique & adherence  
Patient preferences and goals

Treatment of modifiable risk factors and comorbidities  
Non-pharmacological strategies  
Asthma medications (adjust down or up)  
Education & skills training

ICS-formoterol is the preferred reliever for patients prescribed maintenance and reliever therapy. For other ICS-LABAs, the reliever is SABA

## Asthma medication options:

Adjust treatment up and down for individual patient needs

		<b>STEP 2</b>	<b>STEP 3</b>	<b>STEP 4</b>	<b>STEP 5</b>
<b>PREFERRED CONTROLLER</b> to prevent exacerbations and control symptoms	<b>STEP 1</b> As-needed low dose ICS-formoterol*	Daily low dose inhaled corticosteroid (ICS), or as-needed low dose ICS-formoterol*	Low dose ICS-LABA	Medium dose ICS-LABA	High dose ICS-LABA Refer for phenotypic assessment & add-on therapy e.g. tiotropium, anti-IgE, anti-IL5/4R, anti-IL13
Other controller options	Low dose ICS taken whenever SABA is taken †	Daily leukotriene receptor antagonist (LTRA) or low dose ICS taken whenever LABA taken †	Medium dose ICS, or low dose ICS+LTRA*	High dose ICS, add-on tiotropium, or add-on LTRA †	Add low dose ICS, but consider side-effects
<b>PREFERRED RELIEVER</b>	As-needed low dose ICS-formoterol*		As-needed low dose ICS-formoterol for patients prescribed maintenance and reliever therapy‡		
Other reliever option	As-needed short-acting $\beta_2$ -agonist (SABA)				

\* Data only with budesonide-formoterol (bud-form)  
† Separate or combination ICS and SABA inhalers

‡ Low-dose ICS-form is the reliever only for patients prescribed bud-form or BDP-form maintenance and reliever therapy  
§ Consider adding NCM SLIT for sensitized patients with allergic rhinitis and FEV1 >70% predicted

# Bronchial Asthma GINA Guidelines 24

**SK Jindal, PS Shankar, Suhail Raof,  
Dheeraj Gupta**

## **Bronchial Asthma Gina Guidelines 24:**

Clinical Asthma Jonathan A. Bernstein, Mark L. Levy, 2014-02-06 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 *Clinical Asthma Theory and Practice* presents a comprehensive study of both the common and the more challenging problems faced by all health care 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. *Textbook of Pulmonary and Critical Care Medicine Vols 1 and 2* SK Jindal, PS Shankar, Suhail Raoof, Dheeraj Gupta, 2011-01-31 This book published in two volumes. Both volume divided in twenty three sections all sections and chapters are most important. The *Textbook of Pulmonary and Critical Care Medicine* also offers a unique exposure to the problems in many parts of the world. Tuberculosis the number one treatable condition has been extensively covered and special topics such as multi drug resistance, directly observed therapy, TB prevention, nonpharmacologic approaches and extrapulmonary tuberculosis are particularly relevant. Many countries are facing a growing burden of noncommunicable respiratory diseases. They have become the second leading cause of death after injuries and their impact on indirect costs such as loss of work and home productivity is enormous. These problems are addressed and measures of prevention such as smoking cessation are included. Other special challenges including topics such as indoor and outdoor air pollution, climate change, poisoning with pesticides, snakebite, toxicity, pulmonary manifestations of tropical infections and industrial accidents such as the tragedy seen in Bhopal, Madhya Pradesh with methyl isocyanate have been well covered. However as globalization flattens the playing field and countries leap to industrialization, cultural beliefs, natural resources, climate and geography have slowed the pace of development in many parts of the world. Poverty leads to malnutrition, homelessness, lack of education and poor access to health care. Overcrowded cities and rural underdevelopment are other challenges that impact health in the various parts of the world. Moreover epidemics of HIV, drug abuse and smoking addiction take a greater toll on the population. Yes the world is flat but the terrain is filled with mountains and valleys and local problems demand local solutions. And these local problems need to be explored and presented with a scholarly perspective. The *Textbook of Pulmonary and Critical Care Medicine* has successfully incorporated these sociodemographic

factors into the subject matter The text is well written and the chapters are carefully referenced with subjects found in all traditional pulmonary and critical care textbooks e g airway diseases interstitial lung disease pleural disease pulmonary neoplasia pulmonary infection sleep and critical care There are several nontraditional sections as well that are practical and especially helpful to the practicing physician These include a section on the symptom approach to lung disease an overview of the pharmacologic agents used to treat lung disease and a comprehensive review of methods in lung diagnosis from the simple history and physical examination to the latest complex tools of interventional pulmonology The textbook is especially unique because of the abundance of illustrations flow charts and tables There are many radiographic and pathologic reproductions that are especially helpful [Rau's Respiratory Care Pharmacology - E-Book](#) Douglas S.

Gardenhire,2013-08-07 With an approach to learning as progressive as its content Rau s Respiratory Care Pharmacology 8th Edition simplifies the process of learning challenging pharmacology material like never before Rau s effective approach uses broken down terminology relatable explanations reader friendly writing and additional workbook guidance to help you easily master the text s cutting edge content which includes the latest terms pronunciations in depth sleep pharmacology reality based case studies and SOAP assessment opportunities Plus the online interactive flashcards and audio pronunciation glossary offer additional learning formats tailored to your digital preferences Improved readability makes it easier for you to grasp difficult material Expanded Key terms and definitions include over 275 terms with pronunciations Companion workbook offers a wide range of activities that help you apply knowledge gained from the core text and break down more difficult concepts beyond NBRC style multiple choice questions Clinical Scenarios with follow up SOAP assessment provide you with a reality based patient case study and an opportunity to indicate standardized treatment Inside back cover offers a quick reference list of the most commonly used abbreviations in pharmacology with full application Full color format draws out special features and creates a more reader friendly text Glossary aids your comprehension of pharmacology terminology Learning objectives parallel the recall analysis and application levels tested on the NBRC exam to prepare you for credentialing Key terms with definitions enable you to quickly master essential terminology Key Points boxes guide you in preparing for tests by identifying the most important concepts in each chapter Self assessment questions allow you to test yourself on key information within the chapter Student Resources on Evolve including an audio glossary and electronic flashcards provide opportunities to hone your understanding of respiratory pharmacology concepts *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      **Difficult and severe asthma in children, volume II** Renato Cutrera,Francesca Santamaria,Andrew Bush,Nicola Ullmann,Giorgio Piacentini,2023-04-12  
*Monaldi Archives for Chest Disease* ,2005      **Childhood Asthma and Beyond** L. A. Reynolds,E. M. Tansey,2001  
**Sleep Disorders and Airway Diseases** Sy Duong-Quy,Naricha Chirakalwasan,Timothy CRAig,Vinh Nhu  
Nguyen,2023-09-15      Rehabilitation of the Patient with Respiratory Disease Neil S. Cherniack,Murray D. Altose,Ikuo  
Homma,1999 The first comprehensive and authoritative reference on pulmonary rehabilitation written specifically for  
physicians An introductory section covers basic science aspects and provides the foundation for the understanding of the  
basis of respiratory impairment and disability Specific pathophysiological mechanisms of respiratory impairments are  
covered in chapters dealing with the full spectrum of respiratory diseases or disease categories Subsequent chapters cover  
approaches to assessment of respiratory function and performance measurement of impairment and disability determination  
and evaluation of dyspnea A comprehensive review of rehabilitation management and treatment regimens follows covering  
pharmacological approaches improvement of muscle function exercise training and nutritional supplementation Final  
chapters focus on psychosocial factors as well as relevant medical economic and bioethical issues      American Journal of  
Respiratory and Critical Care Medicine ,2009      *Yonsei Medical Journal* ,2009      SAMJ ,2007      **Rudolph's Pediatrics,  
24th Edition** Mark W. Kline,Jordan S. Orange,Angelo P. Giardino,Mahesh M. Rathore,Z Leah Harris,Antonio  
Cabrera,2026-01-30 The landmark pediatrics reference updated with timely new content and more clinically relevant than  
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Strategic Plan for Asthma in California ,2002      **Educational Evaluation** María Ortiz,Claudia Rubio,2009 There are

two common purposes in educational evaluation which are at times in conflict with one another Educational institutions usually require evaluation data to demonstrate effectiveness to funders and other stakeholders and to provide a measure of performance for marketing purposes Educational evaluation is also a professional activity that individual educators need to undertake if they intend to continuously review and enhance the learning they are endeavouring to facilitate This book presents new research on issues of vital importance to this field *Journal of Korean Medical Science* ,2009 *Current Medical Research and Opinion* ,2006 **Indian Journal of Biochemistry & Biophysics** ,2014 **Pharmacotherapy: A Pathophysiologic Approach, Eleventh Edition** Joseph T. DiPiro,Gary C. Yee,L. Michael Posey,2020-07-03 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product 25 additional chapters available online The classic guide to driving optimal patient outcomes using evidence based medication therapies updated with the latest advances and guidelines Presented in full color Pharmacotherapy A Pathophysiologic Approach 11th Edition helps you deliver the highest quality patient care through evidence based medication therapy derived from sound pharmacotherapeutic principles It takes you beyond drug indications and dosages showing how to properly select administer and monitor drugs everything you need to provide safe effective drug therapy across all therapeutic categories With all new monitoring tables and authoritative content from 300 expert contributors this new edition has been fully updated to reflect the latest evidence based information and recommendations You ll find Key Concepts at the beginning of each chapter Clinical Presentation tables that summarize disease signs and symptoms and Clinical Controversies boxes that examine the complicated issues faced by students and clinicians in providing drug therapy Why Pharmacotherapy A Pathophysiologic Approach is perfect for students pharmacists and other healthcare providers All chapters provide the most current reliable and relevant information available Key concepts kick off every chapter Clinical Presentation Tables summarize disease signs and symptoms The majority of sections include personalized pharmacotherapy content Clinical Controversies Boxes clarify the most complex drug therapy issues you ll face Diagnostic flow diagrams treatment algorithms dosing recommendations and monitoring approaches have been updated in full color to distinguish treatment pathways Most disease oriented chapters are enhanced by updated evidence based treatment guidelines which often include ratings of the level of evidence to support key therapeutic approaches Instructors who adopt this text are eligible for a PowerPoint presentation of all images and answers to Self Assessment Questions The most trusted guide of its kind for decades Pharmacotherapy A Pathophysiologic Approach is the go to text for students and practitioners seeking clear objective coverage of core pathophysiologic and therapeutic elements **The Medical Journal of Malaysia** ,2003

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web given that the study of mathematics is at least 3 000 years old and the earliest known record of juggling was recorded by the egyptians around 1800 b c it is interesting to note that no serious mathematical study of juggling occurred until claude shannon s work on his famous juggling theorems in the 1970 s

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