

AGES 12+ YEARS: STEPWISE APPROACH FOR MANAGEMENT OF ASTHMA

Intermittent Asthma		Management of Persistent Asthma in Individuals Ages 12+ Years				
Treatment	STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6 [■]
Preferred	PRN SABA	Daily low-dose ICS and PRN SABA or PRN concomitant ICS and SABA [▲]	Daily and PRN combination low-dose ICS-formoterol [▲]	Daily and PRN combination medium-dose ICS-formoterol [▲]	Daily medium-high dose ICS-LABA + LAMA and PRN SABA [▲]	Daily high-dose ICS-LABA + oral systemic corticosteroids + PRN SABA
Alternative		Daily LTRA [*] and PRN SABA or Cromolyn, [*] or Nedocromil, [*] or Zileuton, [*] or Theophylline, [*] and PRN SABA	Daily medium-dose ICS and PRN SABA or Daily low-dose ICS-LABA, or daily low-dose ICS + LAMA, [▲] or daily low-dose ICS + LTRA, [*] and PRN SABA or Daily low-dose ICS + Theophylline [*] or Zileuton, [*] and PRN SABA	Daily medium-dose ICS-LABA or daily medium-dose ICS + LAMA, and PRN SABA [▲] or Daily medium-dose ICS + LTRA, [*] or daily medium-dose ICS + Theophylline, [*] or daily medium-dose ICS + Zileuton, [*] and PRN SABA	Daily medium-high dose ICS-LABA, or daily high-dose ICS + LTRA, [*] and PRN SABA	
		Steps 3–4: Conditionally recommend the use of subcutaneous immunotherapy as an adjunct treatment to standard pharmacotherapy in individuals ≥ 5 years of age whose asthma is controlled at the initiation, build up, and maintenance phases of immunotherapy [▲]			Consider adding Asthma Biologics (e.g., anti-IgE, anti-IL5, anti-IL5R, anti-IL4/IL13) ^{**}	

Assess Control

- First check adherence, inhaler technique, environmental factors, [▲] and comorbid conditions.
- Step up** if needed; reassess in 2–6 weeks
- Step down** if possible (if asthma is well controlled for at least 3 consecutive months)

Consult with asthma specialist if Step 4 or higher is required. Consider consultation at Step 3.

Control assessment is a key element of asthma care. This involves both impairment and risk. Use of objective measures, self-reported control, and health care utilization are complementary and should be employed on an ongoing basis, depending on the individual's clinical situation.

Abbreviations: ICS, inhaled corticosteroid; LABA, long-acting beta₂-agonist; LAMA, long-acting muscarinic antagonist; LTRA, leukotriene receptor antagonist; SABA, inhaled short-acting beta₂-agonist

[▲] Updated based on the 2020 guidelines.

^{*} Cromolyn, Nedocromil, LTRAs including Zileuton and montelukast, and Theophylline were not considered for this update, and/or have limited availability for use in the United States, and/or have an increased risk of adverse consequences and need for monitoring that make their use less desirable. The FDA issued a Boxed Warning for montelukast in March 2020.

^{**} The AHRQ systematic reviews that informed this report did not include studies that examined the role of asthma biologics (e.g., anti-IgE, anti-IL5, anti-IL5R, anti-IL4/IL13). Thus, this report does not contain specific recommendations for the use of biologics in asthma in Steps 5 and 6.

[■] Data on the use of LAMA therapy in individuals with severe persistent asthma (Step 6) were not included in the AHRQ systematic review and thus no recommendation is made.

Asthma Management Guidelines 2013

**Teresa A. Volsko, Robert L.
Chatburn, Mohamad F. El-Khatib**



Asthma Management Guidelines 2013:

Manual of Critical Care Nursing - E-Book Marianne Saunorus Baird, 2021-10-13 Selected for Doody's Core Titles 2024 in Critical Care Coverage of more than 75 disorders most commonly seen in progressive and critical care settings equips you with all the content needed to handle problems in critical care nursing Consistent easy to use format mirrors a practicing nurse's approach to patient care and facilitates quick reference to vital information Diagnostic Tests tables highlight the definition purpose and abnormal findings for each test Gerontologic considerations and bariatric considerations are highlighted throughout to direct attention to patients with unique needs in critical care settings NOC outcomes and NIC interventions apply standardized nursing taxonomies to the disorders and conditions most commonly encountered in progressive and critical care settings Portable size makes it ideal for use on the unit or at the bedside Safety Alert and High Alert boxes call attention to issues vital to patient safety Hough's Cardiorespiratory Care Alexandra Hough, 2017-11-23 The latest edition of this must have text book promises an evidence based and practical approach covering the very latest in cardiorespiratory care The textbook covers a wide range of cardiorespiratory conditions and discusses treatment of patients in different clinical settings such as critical care the ward area and out patient departments It begins with physiology and pathology and progresses into a detailed patient assessment section and a discussion of specific respiratory and cardiac conditions The final section covers different groups of people who may require physiotherapy such as infants children and adults with specific conditions including a considered section on palliative care Critical thinking is facilitated by clinical reasoning boxes in the text and problem solving is aided by case studies at the end of each chapter There are also relevant practice tips to enable transfer of learning into the clinical environment The text is supported by over 280 line drawings and diagrams along with over 70 x rays and photographs to further illustrate the points under discussion Q A case studies with scans and x rays Outcome measures for problems and diseases Boxes with learning and practice tips to encourage reflection Tables with definitions normal values and comparisons Practical techniques described with precision Expanded cardiovascular section Updated practical details on physiotherapy techniques Extra chapters on surgical complications and interventions Comprehensive coverage of Critical Care procedures and rehabilitation Practicalities of the management of children and infants Update on the evaluation of outcomes **Respiratory Care** Vanessa Gibson, David Waters, 2016-10-14 Respiratory conditions are a leading cause of death and disability and account for a massive proportion of hospital admissions This comprehensive text provides a detailed overview and discussion of respiratory care with chapters on assessment investigations treatments and a wide range of conditions as well as anatomy and physiology Taking an inter professional and patient focused approach Respiratory Care is evidence based and linked to key practice guidelines to enable postgraduate students and professionals to provide the most effective care Each chapter includes learning outcomes and makes use of case studies to provide an explicit and practical application of the topic to patient care Respiratory Care is

essential reading for all nurses and healthcare professionals in respiratory care in hospital or community settings Vanessa Gibson is a Teaching Fellow and Learning and Teaching Lead at the Department of Healthcare at Northumbria University UK David Waters is Head of Academic Department Faculty of Society and Health Buckinghamshire New University UK

CURRENT Medical Diagnosis and Treatment 2013 Maxine A. Papadakis, Stephen J. McPhee, Michael W.

Rabow, 2012-09-21 The 1 bestselling annual guide to internal medicine now completely updated Learn from the experts and accelerate your clinical decision making Internationally acclaimed for its scholarship conciseness full color presentation and encyclopedic scope CMDT puts the latest research where it belongs into your practice The new edition of this streamlined clinical companion delivers at a glance summaries of the signs symptoms epidemiology etiology and treatment options for more than 1 000 diseases and disorders Practitioners in both the hospital and ambulatory settings rely on CMDT to keep up with new medical advances prevention strategies and cost effective therapies Here s why CMDT is essential to clinical practice Covers the fundamentals of clinical diagnosis and patient management in all fields of internal medicine A to Z survey of all primary care topics including gynecology and obstetrics dermatology neurology ophthalmology otolaryngology psychiatry neurology toxicology urology geriatrics orthopedics and palliative care The only text with an annual update on the treatment of HIV infection and AIDS Easy to navigate design with numerous figures and tables Drug treatment tables with indexed trade names and updated costs in each section Current references with PubMed and PMID numbers Essentials of Diagnosis callouts for most diseases disorders ICD 9 codes listed on inside covers NEW TO THIS EDITION New chapter on Women s Health Issues Extensively revised chapters Viral Rickettsial Infections Disorders Related to Environmental Factors and Blood Disorders Coverage of critical developments in anticoagulation and antiplatelet therapy antihypertensive therapy hematology neurology infectious disease and cardiovascular medicine Important updates in oncology including breast cancer treatment options new lung cancer screening protocols and cervical screening recommendations New risk assessment model for deep vein thrombosis DVT and DVT preventive therapies following hip or knee replacement Recent CDC guidelines on adult and adolescent immunizations and the treatment of sexually transmitted infections Overview of new medications including ivacaftor eltrombopag romiplostim and eculizumab Extensive revision of the section on rhabdomyolysis New section on peripheral artery aneurysms

The Protocol Book for Intensive Care Soumitra Kumar, 2018-03-31

The new edition of this intensive care manual brings clinicians fully up to date with the latest advances in the diagnosis and management of acute cardiac emergencies and related medical disorders Organised by organ system the book also covers pulmonary emergencies stroke endocrine and central nervous system disorders and rheumatology The fifth edition has been thoroughly revised to present the latest guidelines in intensive care and provides up to date descriptions of unique presentations differential diagnosis and management of critical diseases and disorders The comprehensive text is further enhanced by clinical photographs diagrams and tables Key points Comprehensive guide to diagnosis and management of

acute cardiac emergencies and related disorders Also covers critical care of disorders in other organ systems Thoroughly revised new edition presenting latest guidelines in intensive care Previous edition 9789350907405 published in 2014

Asthma Education Ian Mitchell, Gaynor Govias, 2021-08-23 This book comprehensively presents all the necessary information health professionals need to become Certified Asthma Educators Competent asthma educators must possess a number of skills they must have appropriate and sound medical and pharmaceutical knowledge be proficient and effective educators who can influence their patients behaviors for the better and finally they need the administrative and organizational skills needed to set up and run efficient clinics at their places of work The book is divided into three sections to meet those needs Asthma The Fundamentals The Role of Education and The Effective Asthma Educator The first section covers clinical knowledge of asthma with chapters including lung structure and function clinical presentation of asthma and environmental issues in asthma management The second section delves into the role of educating patients and teaches readers how to best do that with an integrated approach between physician educator and patient The third section looks further into educating techniques with a view of the learning process considerations for instruction locations and the role the educator plays overall The final chapter in the book presents example cases for readers to assess the knowledge they have learned throughout This second edition serves as both textbook and study guide for certification as well as a long term reference publication It has been fully updated from the previous edition with the latest treatment guidelines medications and disease monitoring methods This is an ideal guide for asthma educators those seeking NAECB certification and any health professional involved with individuals who have asthma

Equipment for Respiratory Care Teresa A. Volsko, Robert L. Chatburn, Mohamad F. El-Khatib, 2014-12 Equipment For Respiratory Care is changing the paradigm of historic respiratory care equipment books Focusing on the principles of the equipment and then concluding with in depth discussion and practical solutions to complex problems this focus on the clinical application of patient care enhances key critical thinking skills with clear explanations of the features of the equipment as well as the way it functions New Approach Emphasis on clinical application rather than engineering technical detail to drive critical thinking Provides students with the tools to approach equipment troubleshooting rather than have to rely on textbook algorithms Includes Case based critical thinking modules provide the opportunity to develop decision making skills Provides an easy to use logical approach to tackling clinical or patient and technical problems Helps students select the most appropriate equipment determined by patient need among similar technologies Includes illustrations from the user s point of view will focus on how the operator needs to interact with the equipment Follows AARC Clinical Practice Guidelines

Clinical Allergy and Asthma Management in Adolescents and Young Adults Ravindran Chetambath, Venugopal Panicker, 2021-11-29 This text addresses the need for a practical handbook on asthma and allergy in adolescents and young adults which constitutes an interesting and challenging age group Asthma may diminish in intensity with age but is still an ongoing concern In addition compliance with

management is not generally successful with the risk that the failure to treat it adequately could lead to long term sequelae namely COPD Finally obesity and sedentarism in young adults and adolescents can worsen asthma on the one hand while some can be athletes on the other hand This ready reckoner aims to help in understanding clinical allergy which is imperative for every physician who is caring for patients with asthma given its high prevalence and heterogeneous treatment options

KEY FEATURES Covers allergic diseases in general and asthma in detail and provides comprehensive coverage of clinical features diagnosis and management using a case based approach Creates awareness of the fundamentals of clinical allergy helping physicians make wise choices in medical and surgical management especially in resource limited settings Features insight from international authors with clinical experience in the diagnosis and treatment of asthma in the specific age group of adolescents and young adults

CURRENT Practice Guidelines in Primary Care 2013 Joseph S. Esherick, Daniel S. Clark, Evan D. Slater, 2012-12-18 Current Practice Guidelines in Primary Care 2013 draws information from many established CPG sources and presents summaries of the most relevant guidelines in an easy to use pocket sized package for use by any primary care clinician It offers quick access to the latest guidelines for the most appropriate preventive services screening methods and treatment approaches for commonly encountered conditions in the outpatient setting

Pediatric Allergy: Principles and Practice Stanley J. Szefler, MD, Francisco A Bonilla, MD, PhD, Cezmi A Akdis, Hugh Sampson, 2015-08-11 The third edition of Pediatric Allergy continues this title's steadfast tradition of providing comprehensive authoritative guidance on the day to day diagnosis and management of pediatric allergic and immunologic diseases You'll have the most up to date research at hand thanks to an easily accessible full color format that highlights a host of new chapters extensive updates and clinically focused coverage Whether you're a student resident pediatrician or allergist you'll appreciate this user friendly and versatile source for providing optimal care Includes diagnostic tests available for asthma upper respiratory allergy and more Equips you with an understanding of the immune mechanisms underlying allergic diseases Features coverage of drug allergies and cross reactivity Highlights clinical pearls discussing the best approaches to the care and treatment of pediatric patients Appendices listing common food allergies and autoantibodies in autoimmune diseases make for quick reference to essential material Expert Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures images and references from the book on a variety of devices Revised asthma section examines current asthma guidelines school centered asthma programs exercise induced asthma and new directions in asthma therapy Includes the most current knowledge relating to emerging asthma within young children medication adherence and the impact of infection on the natural history of asthma New information on gene therapy stem cell therapy and a host of new immunodeficiency diseases helps you obtain the best results from the therapeutics for pediatric allergic and immunologic diseases Features brand new chapters on immunopathology diagnostics and management potential immunotherapeutic strategies for treating food allergies current status of immunotherapy for food

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