

## Personalised 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)  
Co-morbidities  
Inhaler technique & adherence  
Patient goals

Treatment of modifiable risk factors & co-morbidities  
Non-pharmacological strategies  
Education & skills training  
Asthma medications

## Asthma medication options:

Adjust treatment up and down for individual patient needs

### PREFERRED CONTROLLER

to prevent exacerbations and control symptoms

Other controller options

### PREFERRED RELIEVER

Other reliever option

#### STEP 1

As-needed low-dose ICS-formoterol<sup>\*</sup>

Low-dose ICS taken whenever SABA is taken<sup>†</sup>

#### STEP 2

Daily low-dose inhaled corticosteroid (ICS), or as-needed low-dose ICS-formoterol<sup>\*</sup>

Leukotriene receptor antagonist (LTRA), or low-dose ICS taken whenever SABA is taken<sup>†</sup>

As-needed low-dose ICS-formoterol<sup>\*</sup>

#### STEP 3

Low-dose ICS-LABA

Medium-dose ICS, or low-dose ICS+LTRA<sup>‡</sup>

As-needed low dose ICS-formoterol<sup>‡</sup>

#### STEP 4

Medium-dose ICS-LABA

High-dose ICS, add-on tiotropium, or add-on LTRA<sup>‡</sup>

#### STEP 5

High-dose ICS-LABA

Refer for phenotypic assessment<sup>‡</sup> add-on therapy, e.g. tiotropium, anti-IgE, anti-IL5/5R, anti-IL4R

Add low-dose OCS, but consider side-effects

As-needed short-acting  $\beta_2$ -agonist (SABA)

<sup>\*</sup> Off-label; data only with budesonide-formoterol (bud-form)

<sup>†</sup> Off-label; separate or combination ICS and SABA inhalers

<sup>‡</sup> Low-dose ICS-form is the reliever for patients prescribed bud-form or BDP-form maintenance and reliever therapy

<sup>‡</sup> Consider adding HDM SLIT for sensitized patients with allergic rhinitis and FEV<sub>1</sub> >70% predicted

# Gina Asthma Guidelines 20

**Erick Forno, Sejal Saglani**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

## **Gina Asthma Guidelines 20:**

**Sleep Disorders and Airway Diseases** Sy Duong-Quy, Naricha Chirakalwasan, Timothy C. Craig, Vinh Nhu Nguyen, 2023-09-15      **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      **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      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      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

**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

*Collins-Bride & Saxe's Clinical Guidelines for Advanced Practice Nursing* Yoonmee Joo,Jim V. Gatewood,Mary Anne Israel,Kelly Wong McGrath,2024 Collins Bride Frailty Common Gerontology Syndromes Cancer Survivorship Lipid Disorders Acne pediatrics section

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 *ACSM's Resource Manual for Guidelines for Exercise Testing and Prescription* David P. Swain,ACSM,Clinton A. Brawner,2012-12-26 ACSM s Resource Manual for Guidelines for Exercise Testing and Prescription was created as a complement to ACSM s Guidelines for Exercise Testing and Prescription and elaborates on all major aspects of preventative rehabilitation and fitness programs and the major position stands of the ACSM The 7th edition provides information necessary to address the knowledge skills and abilities set forth in the new edition of Guidelines and explains the science behind the exercise testing and prescription ACSM s Resource Manual is a comprehensive resource for those working in the fitness and clinical exercise fields as well as those in academic training

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Asthma David J. Jackson,Vanessa M. McDonald,Ian D. Pavord,2025-06-01 Asthma is one of the most prevalent respiratory diseases affecting 8% of the world s population Given the huge impact of the condition and the vast amount of progress that has been made in the field in the last 10 years a Monograph on the topic is now timely Opening with a section on pathophysiology then moving on to cover diagnosis and assessment therapeutic approaches comorbidities and special circumstances this Monograph provides an up to date overview of the current understanding of asthma mechanisms and how to deliver care for people with asthma Assessing and Managing the Acutely Ill Patient for Nursing Associates Cariona Flaherty,Marion Taylor,2022-11-26 Acutely ill adults present in a variety of settings and caring for them is a key part of the nursing associate role This book equips you with the skills and knowledge to assess the acutely ill adult and manage their care Each chapter follows a case study of a patient presenting with an acute illness working step by step through their assessment and care whilst drawing on relevant pathophysiology pharmacology and evidence based practice Written in clear language specifically for the nursing associate this is your perfect introduction to the world of acute care Key features Fully mapped to the NMC Standards of Proficiency for Nursing Associates 2018 Introduces a range of commonly encountered

acute illnesses across different body systems A unique case study approach uses real world practice scenarios to make understanding the complex theory pathophysiology and pharmacology much easier Focuses specifically on the requirements of the nursing associate role helping you to develop into a confident professional practitioner

**How to Pass the FRACP Written Examination** Jonathan Gleadle, Jordan Li, Danielle Wu, Paul Kleinig, 2021-09-27 How to Pass the FRACP Written Examination is an indispensable review and study guide for anyone preparing for the challenging Fellow of the Royal Australasian College of Physicians FRACP exam This up to date resource fully aligns with the current FRACP core training curriculum containing a wealth of traditional multiple choice questions MCQs as well as extended matching questions EMQs There are hundreds of questions for every major topic of the written examination including critical care medicine cardiology infectious diseases immunology and allergy neurology and pharmacology More than a simple practice exam this guide provides clear and complete explanations of each answer a mini review of the subject and links to the most recent or relevant articles on the topic Complementing the main body of questions are a number of teaching and two step questions designed to strengthen clinical reasoning skills highlight important issues and expand knowledge of contemporary hot topics Written by an experienced team of physicians and educators this must have book Provides a thorough review of the latest FRACP basic training syllabus Features QR codes embedded in the text to enable quick access to all references Offers tips hints advice and examination strategies from previous candidates Provides numerous questions grounded in clinically relevant cases Covers areas of medicine that are new contemporary and evolving Covering both the Basic Sciences and Clinical Practice of the latest exam Passing the FRACP Written Examination is an essential companion for FRACP candidates as well as those looking to refresh improve or update their knowledge of the FRACP syllabus

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**Textbook of Clinical Pediatrics** A. Y. Elzouki,H. A. Harfi,H. Nazer,William Oh,F. B. Stapleton,R. J. Whitley,2012-01-10 The second edition of the textbook is planned to become a MRW textbook It will be written by 389 eminent pediatricians and scientists from leading university hospitals and health centers in North America Europe Asia and Australia Written with more than 425 chapters the book will encompass virtually all pediatric subspecialties covering every pediatric disease and organ system Its strong clinical focus with a problem based approach will help practicing pediatricians residents medical students as well as family practitioners to manage sick children in a practical way based on scientific evidence Thus it will become a valuable reference and resource for all health care practitioners dealing with pediatric patients      *The Washington Manual of Medical Therapeutics Paperback* Zachary Crees,Cassandra Fritz,Alonso Huedebort,Jonas Noe,Arvind Rengarajan,Xiaowen Wang,2019-04-16 Established for more than 75 years The Washington Manual of Medical Therapeutics 36th Edition provides concise high yield content that reflects today s fast changing advances in medical technology and therapeutics In one convenient portable resource you ll find complete coverage of every area of medicine and the core subspecialties all at your fingertips for quick review and reference Discover why housestaff and faculty worldwide depend on this best selling resource for day to day clinical practice in internal medicine      **Medicine: Prep Manual for Undergraduates E-book** Aggarwal Praveen,George K. Mathew,2019-06-28 With ever expanding knowledge and advances in medicine the sixth edition of this book is significantly revised and presented in new full colour format Structured in question answer format this book is a must have for all undergraduate medical students as it prepares them for both theory and viva voce examinations It is also useful for dentistry and nursing students Thorough revision of all the chapters without changing basic framework to keep up with the latest changes in the field of medicine Revision of topics especially respiratory system immunological factors in disease diseases of the cardiovascular system diseases of the gastrointestinal system acute poisoning and environmental emergencies oncology diseases of the kidneys and genitourinary system diseases due to infections endocrine and metabolic diseases

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