

# Asthma in Pregnancy

**13% of pregnant women have asthma in Australia**

**Increased risks to mum**



**1 in 2**  
have asthma attacks requiring medical help

Cesarean section

Gestational diabetes mellitus

Pre-eclampsia

**Increased risks to baby**



Pre-term birth

Newborn hospitalisation

Low birth weight

Later development of asthma in the child

## Recommended management

### REGULAR REVIEW

- Every 4-6 weeks
- Assess Asthma Control
- Update Written asthma action plan



### ASTHMA MEDICATION

- Continue to take prescribed asthma medications
- Inhaled corticosteroids are considered safe in pregnancy and breastfeeding
- Discuss with your GP or respiratory specialist



### MULTIDISCIPLINARY MANAGEMENT

- Involve obstetric care provider



### MANAGEMENT OF CO-MORBIDITIES

- Address co-morbidities (e.g. rhinitis, reflux, hypertension/pre-eclampsia, anxiety/depression)
- Control triggers (e.g. tobacco smoking, allergies, poor air quality)



### EDUCATION

- Assess inhaler technique
- Check medication adherence
- Reinforce importance of good asthma control



## Management of Asthma Attacks

Use oral corticosteroids if required

Follow your written Asthma Action Plan

Seek help early

First aid Advice

click or  
scan



An asthma attack should prompt a **full review** of an individual's asthma management plan and medication.

**Good asthma control improves outcomes for mother and child**



# Management Of Asthma During Pregnancy

**Vincenzo Berghella**



## **Management Of Asthma During Pregnancy:**

**Management of Asthma During Pregnancy** National Heart, Lung, and Blood Institute. National Asthma Education Program. Working Group on Asthma and Pregnancy, 1993

**Optimising the Management of Asthma During Pregnancy** Angelina Lim, 2013

Background Uncontrolled asthma during pregnancy is associated with the maternal hazards of asthma exacerbation and perinatal hazards including intrauterine growth restriction and preterm birth Interventions directed at achieving better asthma control during pregnancy should be considered a high priority in order to optimise both maternal and perinatal outcomes Poor adherence to asthma medication regimens during pregnancy and suboptimal prescribing in pregnant women have both been shown to jeopardise asthma control These barriers need to be understood in order to inform the development of interventions for resolving these problems The aim of this PhD was firstly to ascertain the safety of preventive asthma medications during pregnancy then explore barriers to and facilitators of maternal asthma management and finally to design and evaluate an informed intervention to optimise asthma management during pregnancy

Methods A four phase project was conducted to contribute to optimising asthma management during pregnancy Phase 1 was a systematic review of the safety of preventive asthma medications during pregnancy Phase 2 involved investigating asthma management and prescribing trends during pregnancy through a postal survey of general practitioners n 842 involved in shared maternity care at the three largest maternity hospitals in Victoria Australia Phase 3 explored the factors associated with adherence to asthma medications and experiences of pregnant asthmatic women through in depth interviews n 23 Finally Phase 4 brought the results together in a randomised controlled trial testing a Multidisciplinary Approach to Management of Maternal Asthma MAMMA in pregnant women with asthma n 60 Both intervention and control usual standard care groups were followed prospectively and their asthma control was assessed at 3 and 6 months using the Asthma Control Questionnaire ACQ to evaluate the effectiveness of the intervention Pregnant women with asthma were recruited from antenatal clinics and or databases from two maternity hospitals in Victoria Australia Mercy Hospital for Women and The Royal Women s Hospital

Key findings Phase 1 Chapter 2 current safety data have not been able to establish a direct association between asthma medication use during pregnancy and poor outcomes whereas there is an abundance of literature supporting the risks of uncontrolled asthma Women should not refrain from taking their asthma medications during pregnancy Phase 2 Chapter 4 Over a quarter of general practitioner respondents may be advising patients to reduce or discontinue their asthma medications during pregnancy when it is unnecessary for them to do so i e patient s asthma adequately controlled on current therapy putting them at risk of uncontrolled asthma Furthermore lack of knowledge in regards to management of deteriorating asthma during pregnancy became evident with over 12% of respondents being unsure about what to do Phase 3 Chapter 5 By interviewing participants it became apparent that many pregnant women were unaware of the risks of poorly controlled asthma Consequently they were discontinuing their current asthma therapy

and increasing the risks of poor asthma control during pregnancy and poor perinatal outcomes Reasons behind their decisions revolved around lack of support and information about what to do concerns about the safety of the medications past experiences and desire for an all natural pregnancy Asthma monitoring was also found to be poor or nonexistent in pregnancy Phase 4 Chapters 6 and 7 MAMMA involved many interventions by the trial pharmacist aimed at improving asthma control in the intervention participants These included initiation of asthma action plans n 7 restarting of preventers n 5 initiation of preventers n 5 increase in preventer doses n 4 and referral to a respiratory specialist n 1 The Asthma Control Questionnaire ACQ score in the intervention group n 29 decreased by a mean SD of 0 46 1 05 at 3 months and 0 89 0 98 at 6 months The control group n 29 had a mean decrease of 0 15 0 63 at 3 months and 0 18 0 73 at 6 months The difference between groups adjusting for baseline was 0 22 95%CI 0 54 to 0 10 at 3 months and 0 60 0 85 to 0 36 at 6 months The difference at 6 months was statistically significant p0 001 and clinically significant 0 5 No asthma related oral corticosteroid use hospital admissions emergency visits or days off work were reported during the trial Conclusion These findings confirm the safety of preventive asthma medications the importance of health professionals such as pharmacists monitoring asthma management during pregnancy and the value of a multidisciplinary model of care involving education regular monitoring and follow up in routine antenatal care This thesis has promoted more awareness of the risks of poorly controlled asthma in pregnancy and clarifies the need for future research in this area

**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

**Management of Asthma During Pregnancy** ,1993 Treatment and Prognosis in Obstetrics & Gynecology Manju Gita Mishra,Hemali Heidi Sinha,2014-05-30 This book is a comprehensive guide to the field of obstetrics and gynaecology for trainees Divided into two sections the first covers obstetrical topics including early pregnancy problems infections renal diseases during pregnancy antenatal and labour complications and management of

third stage problems The second section covers numerous gynaecological topics and includes a chapter on paediatric and adolescent gynaecological problems Each topic is discussed in a step by step format from initial clinical diagnosis to its management new treatment options and scientific rationale for the various approaches More than 1350 clinical images diagrams and tables are included to enhance learning Key points Comprehensive guide to obstetrics and gynaecology for trainees Covers numerous obstetrical and gynaecological problems Step by step format explaining diagnosis management and new treatment options Includes more than 1350 images diagrams and tables Shnider and Levinson's Anesthesia for Obstetrics Maya Suresh,2013-01-30 Now in a fully updated Fifth Edition Shnider and Levinson s Anesthesia for Obstetrics continues to provide the comprehensive coverage that has made it the leading reference in the field The rising number of Cesarean births and the more advanced age of first time mothers in the United States have brought with them an increased risk for complications making the role of the obstetric anesthesiologist increasingly important This comprehensive reference addresses maternal and fetal physiology fetal assessment anesthesia and analgesia in both vaginal and Cesarean delivery neonatal well being management of fetal maternal and anesthetic complications and management of coexisting disorders in the mother The Fifth Edition includes a new editorial team a new full color format and new sections on Assessment of the Fetus Anesthesia for Cesarean Delivery Neonatal Well Being Old and New Concepts Ethical Medical and Social Challenges and Issues Maternal Safety Difficult and Failed Intubation Morbidity and Mortality and Anesthetic Considerations for Reproductive In Utero and Non Obstetric Procedures *Manual of Clinical Problems in Pulmonary Medicine* Richard A. Bordow,Andrew L. Ries,Timothy A. Morris,2005 The thoroughly revised updated Sixth Edition of this Spiral Manual is a complete convenient practical guide to diagnosis and management of pulmonary disorders A new chapter on terrorism and disaster medicine has been added and new contributors have rewritten the chapters on preoperative pulmonary evaluation aspiration pneumonia the lung in immunocompromised hosts staphylococcal and streptococcal pneumonias anaerobic pulmonary infections histoplasmosis Aspergillus lung disease neuromuscular diseases and spinal cord injury pulmonary complications in burn patients sarcoidosis and Goodpasture s syndrome Other chapters have been revised to incorporate recent American Thoracic Society recommendations on end of life care exercise testing tobacco control and other concerns

**Maternity and Pediatric Nursing** Susan Scott Ricci,Terri Kyle,2009 Authors Susan Ricci and Terri Kyle have teamed up to deliver a unique resource for your students to understand the health needs of women and children This new combination book Maternity and Pediatric Nursing will empower the reader to guide women and their children toward higher levels of wellness throughout the life cycle The textbook emphasizes how to anticipate identify and address common problems to allow timely evidence based interventions Features include unfolding case studies throughout each chapter multiple examples of critical thinking and an outstanding visual presentation with extensive illustrations depicting key concepts A bound in CD ROM and a companion Website include video clips and NCLEX style review questions *Oxford*

*Handbook of Respiratory Nursing* Terry Robinson, Jane Scullion, 2021-02-12 This handbook gives a systematic account of the main respiratory diseases in adults covering assessment diagnosis and nursing management It highlights the multiple needs of respiratory patients not only the physical requirements but also psychosocial needs including palliative care and end of life issues

Shnider and Levinson's Anesthesia for Obstetrics Samuel C. Hughes, Gershon Levinson, Mark A. Rosen, Sol M. Shnider, 2002 The leading reference on anesthesia during pregnancy and delivery is now in its thoroughly updated Fourth Edition This volume provides complete information on anesthesia for vaginal delivery cesarean section obstetric complications anesthetic complications anesthesia for nonobstetric disorders during pregnancy and management of the fetus and newborn This edition provides expanded coverage of infectious diseases during delivery including HIV herpes chorioamnionitis labor epidural fever and sepsis The section on anesthetic complications includes a new chapter on the difficult airway failed intubation and cardiac arrest There is a revised chapter on evaluation of the neonate and more information about CT ultrasound and MRI

**Clinical Maternal-Fetal Medicine** Hung N. Winn, Frank A. Chervenak, Roberto Romero, 2021-09-01 This is a comprehensive one stop online book relating to all areas of pregnancy and birth The second edition of this easily searchable guide is edited by eminent experts in the field and includes new contributions from international authors It will be an ideal reference for Maternal Fetal Specialists and Generalists wanting an authoritative answer on any point Key features Grouped in to six topics modules for convenience Electronic search facility across all chapters Approximately 700 000 words of text 7000 references 300 figures including 100 in full colour and 200 tables available to search Key topics All common pregnancy and birth related problems such as diabetes and pregnancy Many rarer complications such as protozoan infections Fetal assessment which is absolutely central to MFM practice Medico legal aspects Sickle cell disease a major problem for patients of African descent New chapters include Recurrent early pregnancy losses Invasive hemodynamic monitoring Chronic and acute hypertension Neurological disorders Maternal obesity Assessment of fetal genetic disorders First and second trimester screening

*Middleton's Allergy E-Book* N. Franklin Adkinson Jr., Bruce S Bochner, A Wesley Burks, William W Busse, Stephen T Holgate, Robert F Lemanske, Robyn E O'Hehir, 2013-09-18 This best selling resource has a worldwide reputation as the leader in its field Focusing on human immunology and biology while also reporting on scientific experimentation and advancement it provides comprehensive coverage of state of the art basic science as well as authoritative guidance on the practical aspects of day to day diagnosis and management This new edition includes 700 full color illustrations and a new more accessible format to make finding information a snap for the busy practitioner Includes a glossary of allergy and immunology for quick and easy reference Contains keypoints and clinical pearls highlighted to find important information quickly links to useful online resources both for you and for your patients Offers contributions from hundreds of international authorities for world class expertise in overcoming any clinical challenge Contains 400 new illustrations 700 in all to better illustrate complex immunology Covers

the very latest in the field including hot topics such as food allergy and immunotherapy Includes the latest guidelines from The National Asthma Education and Prevention Program NAEPP Utilizes a new more user friendly full color format for easier reference     Maternal-Fetal Evidence Based Guidelines Vincenzo Berghella,2022-03-29 This new edition of an acclaimed text reviews the evidence for best practice in Maternal Fetal Medicine to present the reader with the right information with appropriate use of proven interventions and avoidance of ineffectual or harmful ones The information is presented in the right format by summarizing evidence succinctly and clearly in tables and algorithms The aim is to inform the clinician to reduce errors and to make it easy to do it right The volume can be purchased separately or together with the companion volume on Obstetric Evidence Based Guidelines set ISBN 9780367567033 The Series in Maternal Fetal Medicine is published in conjunction with the Journal of Maternal Fetal and Neonatal Medicine From reviews of previous editions An excellent resource with quick and easy protocols this book has a permanent spot on my shelf Doody s Review Service     **A Practical**

**Approach to Anesthesia for Emergency Surgery** Manju N Gandhi,Anila D Malde,Amala G Kudalkar,Hemangi S Karnik,2011-07 There is a large influx of trauma general surgical pediatric neurosurgical and obstetric emergencies as the hospital is one of the major public hospitals located in a densely populated region sitting amidst major routes in the city It also provides services for emergency cardiovascular cerebrovascular interventions and cadaver transplants Daily lessons from this tremendous emergency work inspired us to bring out this book There is plethora of reference material available in basic sciences related to anesthesiology namely physiology pharmacology physics and anatomy Similarly a large number of textbooks are on techniques such as general regional monitored anesthesia care as well as super specialties like cardiac neurosurgical and pediatric anesthesia etc But there is a limited availability of books and references for emergency anesthesia One has to scan and integrate parts from various sources This book is an attempt to assimilate the scattered information and add clinical expertise Contents of this book have been divided into nine sections to cover majority of the emergencies General considerations for adults obstetric and pediatric sections have been written separately to avoid duplication An additional challenge is cases with various medical disorders for emergency surgeries Efforts have been taken to accommodate them in first section and obstetric section The contributors of this book work together at LTMMC and LTMGH and have a well balanced team with fresh talent bringing the latest technological knowledge and tenured practitioners supplementing it with applied experience Part of the team worked on collection of the matter from different sources for an ideal scenario while the senior faculty members used their vast clinical experience for a more practical and realistic application These combined efforts have been truly beneficial to achieve our goal to rationally mix latest technology with clinical experience and identify potential ways to conduct anesthesia with best results at least costs and minimum risk

Textbook of Obstetric Anaesthesia Rachel E. Collis,Felicity Plaat,John Urquhart,2002 The modern obstetric anaesthetist must not only provide safe and effective pain relief in labour and anaesthesia for Caesarean section but also understand the

wider role of the anaesthetist in the management of the pregnant woman Textbook of Obstetric Anaesthesia provides information on the breadth of obstetric anaesthesia and the role of the obstetric anaesthetist in the delivery suite It provides useful practical evidence based information on all aspects of labour ward management Coverage of all subject areas is comprehensive and a multidisciplinary group of expert contributors examine the key issues in normal labour and routine analgesia routine fetal monitoring and basic interpretation of the CTG Later chapters go on to cover in detail what happens and how to manage patients in difficult situations that extend beyond the routine Women's Health Across the Lifespan Laura Marie Borgelt,2010 Factors influencing women s health care Sex and gender differences Menstrual and ovarian conditions Contrceptive methods Pregnancy health care Select conditions and disorders over the lifespan Select infectious diseases Cancer in women The 5-Minute Consult Clinical Companion to Women's Health Kelly A. McGarry,2012-07-16 The 5 Minute Consult Clinical Companion to Women s Health Second Edition is a quick reference guide to the diagnosis and management of symptoms and disorders that commonly occur in women Written by primary care physicians and obstetrician gynecologists the book covers disorders that are unique to women occur disproportionately in women or have a different clinical presentation course and or prognosis in women The contributors present practical up to date evidence based information in a format designed for rapid consultation Obstetric and Gynecological Emergencies Goswami Deepti,Bhasin Sangeeta,Batra Swaraj,2014-05-14 The unique aspect of this book is collection of 100 true case scenarios as one sees them in the casualty the main objective being to provide a convenient source of information in the emergency hour The book constitutes 43 chapters into three sections In this book the first dealing with commonly encountered emergency situations in obstetrics the second dealing with emergency situations in gynecology and the third dealing with situations common to both Obstetrics and gynecology Each chapter is well laid out and written in an easy to understand format The book is written with focus on practical and academic needs of both postgraduate students and practicing consultants It provides a convenient source of information and a practical guideline for ready reference in the management of challenging emergency situations in the casualty **Primary Care E-Book** Terry Mahan Buttar,JoAnn Trybulski,Patricia Polgar-Bailey,Joanne Sandberg-Cook,2019-11-04 Primary Care E Book **Maternal-Fetal Evidence Based Guidelines, Second Edition** Vincenzo Berghella,2011-11-15 Maternal Fetal Medicine Evidence Based Guidelines reviews the evidence for best practice in maternal fetal medicine It presents the reader with the right information in the right format by summarizing evidence in easy to use tables and algorithms Each guideline is designed to make it easy to do it right with appropriate use of proven interventions and no use of harmful interventions Plenty of evidence is available so that well informed clinicians can reduce errors so that the first aim is ultimately to improve the health of mother and fetus by providing quality care



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