

Adult Emergency Medicine At A Glance Stormrg

Updates in Emergency Medicine Clinical Pathways in Emergency Medicine Clinical Emergency Medicine The Little Black Book of Emergency Medicine Guide to Essentials in Emergency Medicine Textbook of Adult Emergency Medicine E-Book Case Studies in Emergency Medicine Anyone, Anything, Anytime Hospital-Based Emergency Care An Introduction to Clinical Emergency Medicine Essentials of Emergency Medicine Social Emergency Medicine Basic Emergency Care: Approach to the Acutely Ill and Injured Essentials of Accident and Emergency Medicine Emergency Medicine Step-up to Emergency Medicine Hospital Management and Emergency Medicine Patient Safety in Emergency Medicine Emergency Department Leadership and Management Challenging and Emerging Conditions in Emergency Medicine Mastering Emergency Medicine Oxford Handbook of Emergency Medicine Aging Well Harwood-Nuss' Clinical Practice of Emergency Medicine Practical Teaching in Emergency Medicine Emergency Medical Services Essential Emergency Medicine Current Emergency Diagnosis & Treatment Pediatric Emergency Medicine Emergency Medicine The Pediatric Emergency Medicine Resource Adult Emergency Medicine Geriatric Emergency Medicine Emergency Medicine Emergency Medicine Secrets Emergency Medicine Fleisher & Ludwig's Textbook of Pediatric Emergency Medicine Evidence-Based Emergency Care Emergency Care for Children The Washington Manual of Emergency Medicine *John Cahill Suresh S David Scott C. Sherman Steven E. Diaz Manning OOI Peter Cameron Colin G. Kaide Brian J. Zink Institute of Medicine Swaminatha V. Mahadevan Douglas A. Rund Harrison J. Alter World Health Organization Ahmad Subhy Alsheikhly Anthony FT Brown Martin Huecker Information Resources Management Association Pat Croskerry Stephanie Kayden Arvind Venkat Chetan Trivedy Jonathan P. Wyatt Jean Galiana Allan B. Wolfson Amal Mattu Institute of Medicine Steven W. Salyer Mary T. Ho Jill M. Baren Sascha Fulde Marianne Gausche-Hill John O'Brien Joseph H. Kahn James G. Adams Vincent J. Markovchick Chris Moulton Kathy N. Shaw Jesse M. Pines Institute of Medicine Mark D. Levine (MD)*

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updates in emergency medicine is the ultimate portable reference for the busy emergency physician or internist it introduces principles and practices of emergency medicine and addresses academic controversies within the discipline this concise organized pocket guide is packed with the essential important clinical information offering among its many key features updates in bioterrorism high risk aspects of emergency medicine advanced trauma support regional anesthesia advanced cardiac support psychiatric emergencies detailed pediatric section

this book aims to provide condensed and crystallised knowledge providing the rationale for investigations and interventions emergency medicine is a specialty where time and knowledge are critical factors in deciding appropriate management which could otherwise result in loss of life or limb the challenge often is to have lucid management plans whilst standing at the bedside of the patient in order to address this challenge a manuscript is needed which aims to enhance the clinical skills of the emergency physician the objective of this book is to compile a road map for practitioners of emergency medicine which would guide them through algorithm based pathways this format is distinctive by nature for its concise presentation which facilitates easy reading and early application written by global experts this book aims to be a truly international representation of emergency physicians who have come together to deliver contemporary concepts in emergency patient care

ninety eight of the chief complaints and disorders you re most likely to encounter in the ed a clear concise guide for clinicians new to the emergency department a doody s core title for 2015 written by authors who are practicing emergency physicians and emergency medicine educators clinical emergency medicine distills the entire content of the emergency medicine curriculum into less than one hundred succinct clinically relevant chapters this unique book is intended to guide you through what you must know and be able to do during an actual shift and give you a better understanding of the issues and problems you will face while working in the emergency department featuring a consistent find it now design clinical emergency medicine delivers concise must know information on ninety eight chief complaints and disorders ranging from asthma and chest pain to fever and poisoning each chapter begins with key points followed by an introduction clinical presentation history and physical examination diagnostic studies medical decision making treatment and disposition and suggested reading whenever possible the authors provide practical advice on drug dosing the medical decision making thought process treatment plans and dispositions that will be of value in a clinical environment numerous diagnostic algorithms simplify the problem and point you towards a solution valuable to medical students physician assistants nurse practitioners and junior level residents clinical emergency medicine teaches you things that may not have been covered in medical or physician assistant school but have an important bearing on patient outcomes

thoroughly revised and updated the second edition of this pocket sized handbook provides comprehensive concise evidence based information on diagnosing and treating illness and injury in the emergency setting the little black book of emergency medicine is a convenient resource offering quick access to vital information and makes a great reference for solving pressing problems on the ward or in the clinic also available in pda format

now fully revised and updated textbook of adult emergency medicine provides clear and consistent coverage of this rapidly evolving specialty building on the success of previous editions it covers all the major topics that present to the trainee doctor in the emergency department it will also prove invaluable to the range of other professionals working in this setting including nurse specialists and paramedics who require concise highly practical guidance incorporating latest best practices and current guidelines for the first time this edition now comes with access to additional ancillary material including practical procedure videos and self assessment material updates throughout reflect latest practice developments curricula

requirements and essential guidelines key point boxes highlight topic essentials as well as controversial areas of treatment an expanded list of leading international contributors ensures comprehensive coverage and maximizes worldwide relevance new and enhanced coverage of important and topical areas including latest imaging in emergency medicine organ donation massive transfusion protocols medico legal issues patient safety and quality measures all new accompanying electronic ancillary material including procedure videos and self assessment materials to check your understanding and aid exam preparation expansion of administration section especially patient safety new and enhanced coverage of important and topical areas including latest imaging in emergency medicine organ donation massive transfusion protocols medico legal issues patient safety and quality measures all new accompanying electronic ancillary materials including practical procedures videos and self assessment materials

this book contains a variety of medical case studies from actual patients presenting to the emergency department it includes not only typical cases that present to the ed but also less common yet very important cases that one can't afford to miss each chapter begins with a case or set of cases with typical and atypical aspects of the disease in question this is followed by high value learning points on the condition with introductory background points physiology and pathophysiology of the disease how to make the diagnosis and finally how to initiate treatment the cases provide expert discussion with tips and tricks personal experience with management of each of the cases and a follow up description of the outcome of the cases to provide the reader with closure to supplement each case study all 67 chapters include a pattern recognition component that identifies the key diagnostic features of the disease discussed the chapters conclude with a summary of the diagnostic and treatment details of each condition using a concise easy to read bulleted format the book helps readers to learn evaluate adopt new practices right now learn emergency medicine case studies learning rounds learn evaluate adopt right now is an essential resource for a variety of emergency medicine clinicians including experienced physicians residents physician assistants nurse practitioners nurses and medical students rotating in the emergency department finally this book can be used as a basis for small group discussions especially in emergency medicine training programs

a wonderful picture of an important period in the practice of medicine in the united states from the foreword by peter rosen md here is the very first book to comprehensively explore the evolution of the field of emergency medicine from its origins following world war ii through the sociopolitical changes of the 1950s 1960s and 1970s to the present first hand narratives from more than 45 founders and pioneers of emergency medicine provide a vivid portrayal of the important events and viewpoints that have given rise to today's practice represents the first comprehensive history of emergency medicine as a specialty provides first hand oral histories from more than 45 of the key figures who witnessed and helped to shape the developments chronicled in the book offers keen insights into how the sociopolitical changes of the 1950s through 1970s influenced public health health care delivery and emergency medicine includes many unique photographs of important leaders in emergency medicine

today our emergency care system faces an epidemic of crowded emergency departments patients boarding in hallways waiting to be admitted and daily ambulance diversions hospital based emergency care addresses the difficulty of balancing the roles of hospital based emergency and trauma care not simply urgent and lifesaving care but also safety net care for uninsured patients public health surveillance disaster preparation and adjunct care in the face of increasing patient volume and limited resources this new book considers the multiple aspects to the emergency care system in the united states by exploring its strengths limitations and future challenges the wide range of issues covered includes the role and impact of the emergency department within the larger hospital and health care system patient flow and information technology workforce issues across multiple disciplines patient safety and the quality and efficiency of emergency care services basic clinical and health services research relevant to emergency care special challenges of emergency care in rural settings hospital based emergency care is one of three books in the future of emergency care series this book will be of particular interest to emergency care providers professional organizations and

policy makers looking to address the deficiencies in emergency care systems

an introduction to clinical emergency medicine focuses on the skills necessary to provide emergency care

this book provides a concise overview of basic treatment plans for the problems most frequently encountered in the emergency department it explores general concepts signs and symptoms trauma environmental emergencies systemic disorders and special programs best of all it combines peerless authority with a practical focus on need to know information

social emergency medicine incorporates consideration of patients social needs and larger structural context into the practice of emergency care and related research in doing so the field explores the interplay of social forces and the emergency care system as they influence the well being of individual patients and the broader community social emergency medicine recognizes that in many cases typical fixes such as prescriptions and follow up visits are not enough the need for housing a safe neighborhood in which to exercise or socialize or access to healthy food must be identified and addressed before patients health can be restored while interest in the subject is growing rapidly the field of social emergency medicine to date has lacked a foundational text a gap this book seeks to fill this book includes foundational chapters on the salience of racism gender and gender identity immigration language and literacy and neighborhood to emergency care it provides readers with knowledge and resources to assess and assist emergency department patients with social needs including but not limited to housing food economic opportunity and transportation core emergency medicine content areas including violence and substance use are covered uniquely through the lens of social emergency medicine each chapter provides background and research implications and recommendations for practice from the bedside to the hospital healthcare system and beyond and case studies for teaching social emergency medicine principles and practice is an essential resource for physicians and physician assistants residents medical students nurses and nurse practitioners social workers hospital administrators and other professionals who recognize that high quality emergency care extends beyond the ambulance bay

developed by who and the international committee of the red cross in collaboration with the international federation for emergency medicine basic emergency care bec approach to the acutely ill and injured is an open access training course for frontline healthcare providers who manage acute illness and injury with limited resources bec teaches a systematic approach to the initial assessment and management of time sensitive conditions where early intervention saves lives it includes modules on the abcde and sample history approach trauma difficulty in breathing shock and altered mental status the practical skills section covers the essential time sensitive interventions for these key acute presentations the bec package includes a participant workbook and electronic slide decks for each module bec integrates the guidance from who emergency triage assessment and treatment etat for children who pocket book of hospital care for children who integrated management of pregnancy and childbirth and the integrated management of adult adolescent illness imai

as physicians we have a constant passion for improving and maintaining patient s care and safety the book is divided into three parts focusing on the essentials of general concepts diagnosis and management of accident and emergency medicine as well as an academic approach to teaching in the emergency setting the chapters selected for this book are written by an excellent group of recognized emergency surgeons and physicians from different countries and cultures facilitating a comprehensive and interesting approach to the problems of emergency treatment we hope this book will be helpful and used worldwide by medical students clinicians and researchers enhancing their knowledge and advancing their objectives by a book that intends to become a reference text for research and practice within accident and emergency medicine

the eighth edition of this international bestselling emergency medicine handbook has been completely revised and updated to include the latest evidence based guidelines and treatment

protocols underpinning best practice in emergency medical care carefully designed to suit the needs of interns and resident doctors working in the emergency department as well as specialist trainees the book covers the full range of emergencies general medical infectious disease and foreign travel related toxicological surgical paediatric obstetric and gynaecological ophthalmic and psychiatric as well as practical procedures and administrative and legal issues

an important addition to the popular step up series step up to emergency medicine uses the proven series format to provide a high yield review of emergency medicine ideal for preparing for clerkships clinical rotations end of rotation shelf exams and the usmle step 2 clinical pearls full color illustrations and quick hits provide essential information in an efficient easy to remember manner perfect for medical physician assistant and nurse practitioner students step up to emergency medicine delivers exactly what you need to know both for exam preparation and for practical use in the evaluation and treatment of patients in the emergency department succinct outline approach focuses on the core content you need to know quick hits in the margins highlight highly testable topics clinical pearls help you identify clinical connections for handy retrieval at test time and aid in the transition from basic science to clinical medicine more than 100 full color photographs and line drawings illustrate key concepts throughout easy to follow algorithms show examples of effective clinical reasoning particularly for similar complaints numerous charts tables graphs and mnemonics facilitate easy retention of essential material 100 online questions with complete rationale for correct and incorrect answers help prepare you for exams and clinical practice coverage includes every essential area of emergency medicine including psychiatric pediatric and environmental emergencies trauma wounds toxicology and medicolegal considerations as well as must know information on relevant pathophysiology clinical features differential diagnoses patient evaluation therapy and more

this book examines the latest scholarly material on emerging strategies and methods for delivering optimal emergency medical care and examines the latest techniques and methods of critical care it also shows how revolutionary technologies and methods are vastly improving how healthcare is implemented globally

with the increased emphasis on reducing medical errors in an emergency setting this book will focus on patient safety within the emergency department where preventable medical errors often occur the book will provide both an overview of patient safety within health care the culture of safety importance of teamwork organizational change and specific guidelines on issues such as medication safety procedural complications and clinician fatigue to ensure quality care in the ed special sections discuss ed design medication safety and awareness of the culture of safety

emergency departments around the world may differ but many of the problems they face are the same written by an international panel of experienced emergency department leaders emergency department leadership and management provides the latest knowledge and advice to improve your personal leadership skills the book will assist emergency department leaders in overcoming common management and operational problems including overcrowding risk management implementing the right triage system electronic and it solutions improving clinical teamwork education of emergency department staff improving patient flow care pathways and leading during times of change example cases are included to allow leaders to compare common cases to the problems which they face in their own departments information on designing emergency medicine specialty residency programs is also provided it is the official text of the international emergency department leadership institute iedli and has been endorsed by the international federation for emergency medicine ifem

with growing numbers of chronically ill patients surviving longer and receiving novel medical and surgical treatments emergency departments are increasingly the venue for associated acute presentations how can emergency physicians respond to these challenging and emerging conditions this book focuses on the unusual and complex disease presentations not

covered in detail in the standard textbooks helping you manage patients with conditions such as congenital heart disease cystic fibrosis morbid obesity intellectual disability and intestinal failure not only does this book provide guidance on evaluation and diagnosis but it also addresses the practical issues of acute management and continuing referral the individual chapters are written by high profile emergency physicians in conjunction with appropriate specialists and include authoritative evidence to back up the clinical information

mastering emergency medicine is a concise revision focused textbook that covers everything that candidates need to know in order to pass the college of emergency medicine s cem membership examination mcem to enter training and to the pass fellowship examination fcem to complete the certificate of specialist training with over 100 osce scena

fully revised and updated the oxford handbook of emergency medicine is the definitive best selling guide for all of the common conditions that present to the emergency department whether you work in emergency medicine or just want to be prepared this book will be your essential guide following the latest clinical guidelines and evidence written and reviewed by experts this handbook will ensure you are up to date and have the confidence to deal with all emergency presentations practices and procedures in line with the latest developments in the field such as infection control dnr orders advanced directives and learning disability the book also includes new sections specifically outlining patient advice and information as well as new and revised vital information on paediatrics and psychiatry for all junior doctors specialist nurses paramedics clinical students gps and other allied health professionals this rapid reference handbook will become a vital companion for both study and practice

this open access book outlines the challenges of supporting the health and wellbeing of older adults around the world and offers examples of solutions designed by stakeholders healthcare providers and public private and nonprofit organizations in the united states the solutions presented address challenges including providing person centered long term care making palliative care accessible in all healthcare settings and the home enabling aging in place financing long term care improving care coordination and access to care delivering hospital level and emergency care in the home and retirement community settings merging health and social care supporting people living with dementia and their caregivers creating communities and employment opportunities that are accessible and welcoming to those of all ages and abilities and combating the stigma of aging the innovative programs of support and care in aging well serve as models of excellence that when put into action move health spending toward a sustainable path and greatly contribute to the well being of older adults

organized for easy reference this comprehensive concise and clinically focused text covers all aspects of emergency medicine chapters follow a consistent structured format clinical presentation differential diagnosis evaluation management and disposition with highlighted critical interventions and common pitfalls in this edition the pain and pain management section is now at the front of the book since a large percentage of emergency department patients present with pain related complaints the trauma section now follows the high risk chief complaint section a new two color design will help readers find critical elements of each chapter easily a companion website will include the fully searchable text more than 400 self assessment questions with answers and additional images and tables

inherent to the teaching and practice of emergency medicine are specific challenges not found in other specialties the unknowns of the emergency department the need to identify life and limb threatening conditions the pressure to solve problems and find solutions quickly and the orchestration of clinical specialists and ancillary services because of these unique demands books written by clinicians from other disciplines that extrapolate their information from other specialties aren t always suitable references for teachers of emergency medicine this book is different it shows how to incorporate effective teaching strategies into the unique teaching atmosphere of the emergency department how to effectively lecture lead small groups give feedback foster life long faculty development skills and much more it is written by emergency medicine physicians for emergency medicine physicians practical teaching in

emergency medicine gets to the essential core of how to best teach the art of practicing emergency medicine and provides the blueprint to become a better teacher providing guidance on how to accomplish skilful teaching in busy emergency departments it provides emergency physicians and trainees with the necessary tools to effectively and efficiently transmit information to learners in the often times chaotic emergency department environment

emergency medical services ems is a critical component of our nation s emergency and trauma care system providing response and medical transport to millions of sick and injured americans each year at its best ems is a crucial link to survival in the chain of care but within the last several years complex problems facing the emergency care system have emerged press coverage has highlighted instances of slow ems response times ambulance diversions trauma center closures and ground and air medical crashes this heightened public awareness of problems that have been building over time has underscored the need for a review of the u s emergency care system emergency medical services provides the first comprehensive study on this topic this new book examines the operational structure of ems by presenting an in depth analysis of the current organization delivery and financing of these types of services and systems by addressing its strengths limitations and future challenges this book draws upon a range of concerns the evolving role of ems as an integral component of the overall health care system ems system planning preparedness and coordination at the federal state and local levels ems funding and infrastructure investments ems workforce trends and professional education ems research priorities and funding emergency medical services is one of three books in the future of emergency care series this book will be of particular interest to emergency care providers professional organizations and policy makers looking to address the deficiencies in emergency care systems

steven w salyer phd pa c and fellow emergency medicine physician assistants present a quick concise and practical guide to commonly confronted medical emergencies essential emergency medicine is ideal for the busy pa and np in the hospital or on site and for dedicated emts on the front lines for fast access information to emergency action diagnosis treatment and follow up recommendations quick and concise guide to emergency medicine section on toxicology emergencies section on pediatric emergencies icd and cpt codes over 30 new topics covered information on required radiographs mris and cts for each emergency step by step recommendations for ordering appropriate tests and interpreting the results

this authoritative reference equips you with the essential knowledge to provide comprehensive and effective care to children in an emergency setting from age specific diagnoses and chief complaints through developmental considerations and psychosocial issues this text guides you through the full range of medical and surgical conditions commonly encountered when treating pediatric emergencies the use of full color throughout diagnostic algorithms text boxes charts clinical pearls and pitfalls and other visual features ensure the book will make crucial clinical information easy to find and apply tap into expert guidance on all aspects of pediatric emergency medicine from the physical exam and usual and unusual presentations through to disposition criteria and transfer issues access step by step guidance on administering critical life support interventions and providing effective diagnostic and therapeutic ambulatory care quickly review specific treatment protocols for various emergency settings including general emergency departments community hospitals tertiary care centers ems and transport and triage find information fast with or without a known diagnosis with content organized both by chief complaints and by specific diagnoses better understand how problems present differently in infants children and adolescents with age specific diagnoses identify and manage the psychosocial issues surrounding pediatric patients including major depression and suicidality sexual and physical abuse child neglect and violence easily absorb key information with the aid of text boxes algorithms clinical pearls and pitfalls retrieve information easily with a consistent templated format

the ultimate emergency medicine textbook from the renowned professor gordian fulde now in a new edition emergency medicine 6e presents evidence based clinical management and

treatment advice for emergency medicine students and practitioners in Australasia the vast range of topics include paediatric geriatric gynaecology psychiatric dental rural and indigenous presentations ensuring readers are well prepared for any eventuality in the emergency department this outstanding text combines expertise and experience with fully up to date content it is authored by professor Gordian Fulde emergency department director at Sydney's St Vincent's Hospital with contributions from Dr Sascha Fulde and over 60 other notable emergency medicine clinicians readers will gain a solid understanding of effective procedural and management skills in the ED practical tips relate to patient transport and retrieval seriously ill patients advanced nursing roles general practitioners working with it administration legal matters governance and quality care and interns and students in the emergency department the ideal complement to hands on emergency medicine training this new edition of emergency medicine also prepares readers to apply key emergency medicine skills to unique incidents such as mass casualty and chemical biological and radiological hazard contingencies topics included in this edition of emergency medicine include securing the airway resuscitation arrhythmia management pain management imaging dermatology trauma poisoning envenomation overdose coverage of important controversies with evidence based recommendations editor comments contained in relevant chapters to provide clinical tips and advice for practice increased coverage of topical issues such as deep vein thrombosis economy class syndrome and street drugs practical rapid reference appendix detailed glossary and index the quick reference guide is updated and included in this book it is also made available as an app updating all chapters particularly toxicology it paediatrics new resuscitation guidelines cardiopulmonary resuscitation external automated defibrillation in BLS compressions breathing airway unconsciousness priorities in an emergency principles and format for developing guidelines all revised 12 2010 following ILCOR more comprehensive content for indigenous and rural emergencies chapter moderate repetition arising from so many contributors the CT brain and C spine rules have been added to the quick reference guide

APLS the pediatric emergency medicine resource revised fourth edition offers the information necessary to assess and manage critically ill or injured children during the first hours in the emergency department the revised fourth edition of APLS is truly the body of knowledge in pediatric emergency medicine if you want the newest most comprehensive reference on pediatric emergency medicine the revised fourth edition will meet your needs developed by expert authors editors and faculty from both AAP and ACEP the new APLS is a unique teaching and learning system for individual physicians residents students and APLS instructors and course directors the fourth edition of APLS has been revised and expanded to cover new conclusions drawn from reason fact and experience to the benefit of sick and injured children worldwide together AAP and ACEP developed APLS into a new stand alone course offering continuing medical education units and an APLS course completion card the course is highly interactive with small group scenarios hands on skill stations and case based lectures

this new volume in the established and well respected series of self assessment color reviews covers all aspects of adult emergency medicine some 250 cases are presented randomly to reflect real life practice each case consists of one or more questions illustrated by stimulating visual material including clinical photographs imaging and electro

this comprehensive volume provides a practical framework for evaluation management and disposition of this growing vulnerable patient population

announcing a better source for dependable answers in your fast paced field this new reference edited by James G Adams MD presents the right kind of know how the right way so you can get what you need and move on you'll have just enough background to understand each problem without getting bogged down expert decision making assistance with evidence where available and a user friendly format that delivers high yield guidance in instants both in print and online features chapters on complication of gynecologic procedures in abortion and assisted reproductive technology and complications of bariatric surgery to address the increasing number of patients you see with these complications basic science coverage is just detailed enough so you can understand every problem quickly without being overwhelmed a focus on the most common differential diagnoses helps you to think horses not zebras

clinical recommendations are founded upon sound evidentiary guidelines wherever available to assist you in implementing evidence based practices brief clear chapters written to consistent highly practical templates enable you to get the knowledge you need as efficiently as you need it prominent text boxes emphasize priority actions facts and formulas documentation patient teaching and tips and tricks so you can apply actionable information easily more than 500 full color clinical photographs let you see emergent conditions as they present in real life full text online access allows you to perform quick searches tap into regular updates and download illustrations it s a perfect way to get instant answers in your busy emergency department

this updated and expanded edition is divided into 19 sections on all aspects of emergency medicine sections include decision making in the ed primary complaints nontraumatic illness cns respiratory system cardiovascular system gi tract genitourinary tract hematology oncology metabolism endocrinology infectious disease environmental emergencies pediatrics toxicologic trauma behavioral emergencies emergency medicine administration and risk management and medical control and disaster management

emergency medicine lecture notes provides all the necessary information within one short volume for a sound introduction to this core specialty area presented in a user friendly format combining readability with flowcharts and high quality illustrations this fourth edition has been thoroughly revised to reflect recent advances in the field of emergency medicine for this new edition emergency medicine lecture notes features illustrations and flow charts in a two colour presentation throughout more detail on imaging diagnosis and management of a wide range of acute conditions a brand new companion website at lecturenoteseries.com/emergencymed featuring a selection of mcqs to test readers on common pitfalls in emergency medicine not only is this book a great starting point to support initial teaching on the topic but it is easy to dip in and out of for reference or revision at the end of a module rotation or final exams whether you need to develop or refresh your knowledge of emergency medicine emergency medicine lecture notes presents need to know information for all those involved in treating those in an emergency setting

fleisher ludwig s textbook of pediatric emergency medicine has long been acknowledged as the indispensable comprehensive clinical reference on diagnosing and managing emergent health issues in children now a new editorial team and an all star collection of contributing authorities have meticulously updated this essential work bringing you all of the most recent approaches to virtually any pediatric emergency you are likely to encounter in practice

this book for emergency physicians and fellows training in emergency medicine provides evidence based information on what diagnostic tests to ask for and when and how to use particular decision rules the new edition builds on the success of the current book by modifying the presentation of the evidence increasing the coverage and updating the current information throughout

children represent a special challenge for emergency care providers because they have unique medical needs in comparison to adults for decades policy makers and providers have recognized the special needs of children but the system has been slow to develop an adequate response to their needs this is in part due to inadequacies within the broader emergency care system emergency care for children examines the challenges associated with the provision of emergency services to children and families and evaluates progress since the publication of the institute of medicine report emergency medical services for children 1993 the first comprehensive look at pediatric emergency care in the united states this new book offers an analysis of the role of pediatric emergency services as an integrated component of the overall health system system wide pediatric emergency care planning preparedness coordination and funding pediatric training in professional education research in pediatric emergency care emergency care for children is one of three books in the future of emergency

care series this book will be of particular interest to emergency health care providers professional organizations and policy makers looking to address the pediatric deficiencies within their emergency care systems

each high quality volume in the esteemed washington manual series brings together contributions from faculty and residents at the washington university school of medicine in st louis the washington manual of emergency medicine the latest addition to the series focuses on practical content on how physicians actually practice emergency care comprehensive and concise it also acts as a handy quick reference delivering need to know information at your fingertips even in point of care situations features goes beyond the scope of a traditional emergency medicine reference to address topics such as interactions treatments and patient stabilization organized into practice facing sections focusing on content for emergency medicine professionals ideal for students and residents in emergency departments emergency medicine physicians and advanced practice nurses and physician assistants each chapter follows a templated structure so you can uncover information quickly and apply it to a care situation effectively covers issues appropriate for emergency departments toxicology end of life procedures psychiatric care ultrasound violence in the er procedural skills and more your book purchase includes a complimentary download of the enhanced ebook for ios android pc mac take advantage of these practical features that will improve your ebook experience the ability to download the ebook on multiple devices at one time providing a seamless reading experience online or offline powerful search tools and smart navigation cross links that allow you to search within this book or across your entire library of vitalsource ebooks multiple viewing options that enable you to scale images and text to any size without losing page clarity as well as responsive design the ability to highlight text and add notes with one click

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Understanding and Handling NH_4^+ : Challenges and Solutions

Ammonium (NH_4^+), a ubiquitous cation in various natural and industrial processes, presents both benefits and challenges. Understanding its properties and behavior is crucial in diverse fields, from environmental science and agriculture to chemical engineering and analytical chemistry. This article addresses common questions and challenges related to NH_4^+ , providing insights and solutions for effective handling and management.

1. The Chemistry of Ammonium: Properties and Reactions

Ammonium is a polyatomic cation formed by the protonation of ammonia (NH_3). Its positive charge arises from the nitrogen atom's ability to accept a proton (H^+). This simple ion plays a significant role in numerous chemical reactions. **Key Properties:** **Solubility:** Ammonium salts are generally highly soluble in water, a property exploited in many applications. This solubility is due to the strong ion-dipole interactions between the charged ammonium ion and water molecules. **Acidity:** Although not as strong as mineral acids, ammonium salts can exhibit weak acidity in aqueous solutions. This is because the ammonium ion can donate a proton to water, forming ammonia and hydronium ions (H_3O^+). The strength of this acidity depends on the accompanying anion. **Reactivity:** Ammonium ions can participate in various reactions, including: **Decomposition:** At high temperatures, ammonium salts can decompose, often releasing ammonia gas. This is a crucial consideration in handling and storage. For example, ammonium chloride (NH_4Cl) decomposes into ammonia and hydrogen chloride upon heating: $\text{NH}_4\text{Cl}(s) \rightarrow \text{NH}_3(g) + \text{HCl}(g)$ **Neutralization:** Ammonium ions react with hydroxide ions (OH^-) to form ammonia and water: $\text{NH}_4^+(aq) + \text{OH}^-(aq) \rightarrow \text{NH}_3(aq) + \text{H}_2\text{O}(l)$ This reaction is fundamental in many analytical procedures. **Substitution Reactions:** Ammonium can act as a leaving group in certain organic reactions.

2. Ammonium in Environmental Systems: Implications and Management

Ammonium is a critical nutrient for plant growth, providing nitrogen necessary for protein synthesis. However, excessive levels of ammonium in the environment can lead to significant problems: **Eutrophication:** High ammonium concentrations in water bodies fuel algal blooms, leading to eutrophication. This depletes oxygen levels, harming aquatic life. **Soil Acidification:** Ammonium's contribution to soil acidity can negatively impact plant health and microbial communities. The ammonium ion undergoes nitrification (oxidation to nitrite and then nitrate), a process that releases protons (H^+) into the soil. **Toxicity:** While essential in moderate amounts, high concentrations of ammonium are toxic to aquatic organisms and even terrestrial plants. **Management Strategies:** **Nitrification Control:** Slowing down the nitrification process through techniques like controlled aeration can minimize soil acidification. **Wastewater Treatment:** Effective wastewater treatment processes are critical for removing ammonium before discharge into water bodies. Biological processes like nitrification and denitrification are commonly employed. **Precision Fertilization:** Applying appropriate amounts of nitrogen-containing fertilizers minimizes excess ammonium buildup in soil.

3. Analytical Determination of Ammonium: Methods and Applications

Accurately measuring ammonium concentration is vital in various contexts. Common analytical methods include: Nessler's Method: This colorimetric method utilizes Nessler's reagent, which reacts with ammonium to form a yellow-brown complex, allowing for spectrophotometric quantification. It is sensitive but susceptible to interference from other ions. Ion Chromatography (IC): IC is a highly selective and sensitive technique capable of separating and quantifying ammonium ions in complex matrices. Ion-Selective Electrodes (ISEs): Ammonium ISEs provide a rapid and relatively inexpensive method for measuring ammonium concentration, particularly in situ.

4. Safety Considerations when Handling Ammonium Salts

Ammonium salts, while commonly used, require careful handling due to potential hazards: Ammonia Gas Release: Decomposition of ammonium salts at high temperatures or in the presence of strong bases releases ammonia gas, which is irritating to the eyes, nose, and respiratory tract. Adequate ventilation is crucial. Acidity/Basicity: The acidity or basicity of ammonium salts depends on the counterion. Appropriate personal protective equipment (PPE) should be used when handling. Ingestion: Ingestion of certain ammonium salts can be toxic. Always follow safety guidelines and handle with care.

5. Summary

Ammonium (NH_4^+), a ubiquitous ion, plays a crucial role in various natural and industrial processes. Understanding its chemistry, environmental implications, analytical determination, and safety considerations is essential for its effective management. From environmental protection to fertilizer application and analytical chemistry, addressing the challenges associated with ammonium is vital for sustainability and operational efficiency.

FAQs:

1. What is the difference between ammonia (NH_3) and ammonium (NH_4^+)? Ammonia is a neutral molecule, while ammonium is a positively charged ion formed by the addition of a proton to ammonia. 2. How can I safely dispose of ammonium salts? Consult local regulations for proper disposal procedures. Often, small quantities can be diluted and flushed down the drain with plenty of water. Larger quantities might require specialized waste disposal services. 3. Can ammonium be used as a fertilizer? Yes, ammonium is a crucial source of nitrogen for plant growth, and many fertilizers contain ammonium salts (e.g., ammonium nitrate, ammonium sulfate). 4. What are the health effects of ammonium exposure? High concentrations of ammonia gas can irritate the eyes, nose, throat, and lungs. Ingestion of ammonium salts can cause nausea, vomiting, and other gastrointestinal problems. Chronic exposure may lead to more serious health issues. 5. How is ammonium removed from wastewater? Wastewater treatment plants typically employ biological processes like nitrification (conversion of

ammonium to nitrate) followed by denitrification (conversion of nitrate to nitrogen gas), which removes the nitrogen from the wastewater. Other methods, such as ion exchange, can also be employed.

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