

Assess with ABCDE approach - recognise and treat reversible causes

Oxygen if SpO₂ < 94%, respiratory rate, heart rate, CRT, cardiac monitoring, blood pressure, vascular access, ANPU

Signs of circulation?

NO

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Decompensated - seek expert help

Signs of vital organ perfusion compromise:
Reduced LOC, tachypnoea, bradycardia/tachycardia,
BP < 5th centile*, CRT > 2 secs, weak or impalpable
peripheral pulses

YES

Compensated

Normal LOC, n° respiratory
distress and signs of
circulatory compromise,
BP > 5th centile*

Bradycardia

< 1 year < 60 min⁻¹
> 1 year < 50 min⁻¹

Optimal oxygenation with
positive pressure ventilation if
required
If unconscious and HR < 60
min⁻¹ despite oxygenation,
start chest compressions

No response to oxygenation:

If vagal stimulation possible
cause - atropine

If no response to oxygenation
or atropine consider
adrenaline

**Pacing - very rarely required
and guided by aetiology.**

Tachycardia

Narrow complex

Sinus tachycardia

Infant typically 160-220 min⁻¹
Child typically 160-180 min⁻¹
Gradual onset

Treat the cause:

Physiological response

- Crying
- Exercise
- Anxiety/fear
- Pain

Identify precipitant

Compensatory mechanisms

- Respiratory/circulatory failure
- Hypovolaemia
- Sepsis
- Anaemia

SVT

Infant > 220 min⁻¹
Child > 180 min⁻¹
Abrupt onset

Synchronised cardioversion
with appropriate sedation
+ analgesia (e.g. IV/intranasal
ketamine if delay in IV access)
Chemical cardioversion may
be 1st choice if suitable IV
access is in place and delay in
synchronised cardioversion.

Adrenaline

Consider amiodarone before
3rd shock

Broad complex

VT

Could be VT or SVT,
if unsure treat as VT

If conscious:

Synchronised cardioversion
with appropriate sedation
+ analgesia (e.g. IV/intranasal
ketamine if delay in IV access,
do not delay cardioversion).

If unconscious:

Immediate synchronised
cardioversion

Consider amiodarone before
3rd shock

Monitor for clinical
deterioration and
seek expert help

Treat the cause:

If bradycardia, consider
oxygenation and vagal tone

If SVT, consider vagal
manoeuvres

Reassess

Consider adrenaline

Drug	Atropine	Adrenaline	Adenosine	Amiodarone	Synchronised cardioversion	Magnesium
Treatment	Up to 11 years: 20 mcg kg ⁻¹ 12-17 years: 300-600 mcg, larger doses may be used in emergency	For bradycardia: 10 mcg kg ⁻¹ repeat if necessary	Up to 1 year: 150 mcg kg ⁻¹ , increase 50-100 mcg kg ⁻¹ every 1-2 min. Maximum single dose: Neonates 300 mcg kg ⁻¹ , Infants 500 mcg kg ⁻¹ 1-11 years: 100 mcg kg ⁻¹ , increase 50-100 mcg kg ⁻¹ every 1-2 min. Maximum single dose: 500 mcg kg ⁻¹ (max. 10 mg) 12-17 years: 3 mg IV, if required increase to 6 mg after 1-2 min, then 12 mg after 1-2 min	3 mg kg ⁻¹ - by 500mg IV infusion (c 20 mg) before 3rd cardioversion in discussion with paediatric cardiology/expert	With appropriate sedation + analgesia (e.g. IV/intranasal ketamine if delay in IV access + airway management) - IV access attempts must not delay cardioversion 1st shock: 1 J kg ⁻¹ 2nd shock: 2 J kg ⁻¹ , consider up to 4 J kg ⁻¹	25-50 mcg kg ⁻¹ Maximum per dose 2 g to be given over 10-15 min, may be repeated once if necessary, or 10mg IV do pointed VT

Age	*Typical BP 5th centile mmHg
1 month	50
1 year	70
5 years	75
10 years	80

Paediatric Cardiac Arrhythmias

Vicki Zeigler, Paul Gillette



Paediatric Cardiac Arrhythmias:

Concise Guide to Pediatric Arrhythmias Christopher Wren, 2011-11-21 Concise Guide to Pediatric Arrhythmias Written by one of the foremost pediatric cardiologists in the UK this essential new book is a clear practical highly visual guide to the recognition of arrhythmias and their management This innovative new reference Covers the full range of arrhythmias encountered in pediatric patients Presents each arrhythmia from identification to management options as well as showing how to make a precise non invasive diagnosis from the ECG Makes use of real ECG strips not perfect redrawn examples to show what readers will actually encounter in the clinical setting In addition the book discusses arrhythmias encountered in various clinical settings early and late after operation and in congenital heart disease or cardiomyopathy as well as brief overview of the use of invasive EP studies catheter ablation pacemakers and defibrillators Whereas other books on this important topic are aimed and tailored for the needs of experts in pediatric cardiology this book is ideal for pediatricians pediatric intensivists trainees in pediatrics pediatric cardiology and pediatric intensive care as well as for clinical support staff involved in the cardiac care of children Practical Management of Pediatric Cardiac Arrhythmias Vicki Zeigler, Paul Gillette, 2001-12-03 Practical Management of Pediatric Cardiac Arrhythmias offers a useful source of current practical information on the diagnosis and management of arrhythmias in children and is intended for all caregivers from novice to expert who treat children adolescents and young adults with arrhythmias It includes succinct information on implications for clinicians and patient and family considerations with precise how to information regarding specific treatment modalities and management techniques A feature unique to this book is an exploration of the nuances that make cardiac arrhythmias in this population different from those in adults The editors and authors are all internationally recognized experts in the field and each section is completely self contained and can be used separately to solve a specific problem Addressing itself to all healthcare professionals who deal with the increasing population of pediatric adolescent and young adult patients with arrhythmias this book will prove a valuable asset to any healthcare provider working in the fields of cardiology electrophysiology and pediatrics Paediatric Cardiac Arrhythmias Christopher Wren, Ronald William Fearnley Campbell, 1996 Paediatric cardiologists and paediatricians are now much more aware of and interested in understanding paediatric cardiac arrhythmias due largely to the rapid progress in this field over the last few years in terms of both investigation invasive and non invasive and the types of treatment available New drugs non pharmacological techniques and surgery have assumed a greater role and the introduction of fetal echocardiography has enabled the benefits of the new diagnostic and treatment techniques to be extended to the unborn child *Arrhythmias in Children* Vincent C. Thomas, Seshadri Balaji, 2021-04-13 Pediatric arrhythmias present numerous challenges to pediatric cardiologists and other practitioners who see pediatric patients including pediatricians family physicians emergency physicians residents fellows and other clinicians Arrhythmias in Children A Case Based Approach features practical methods for diagnosing and treating

arrhythmias in these patients across all settings Nearly three dozen real world scenarios are presented followed by a discussion of the diagnosis clinical thinking process involved treatment options expected outcomes and how to manage anticipated and unanticipated outcomes These practical realistic cases provide a unique and engaging way of approaching these challenging patient scenarios Uses a case based approach for a full spectrum of pediatric arrhythmias in the newborn child pre teen and teenager Presents history and physical differential diagnoses tests to order and practical plans of action Includes a section on arrhythmias in special circumstances Models clinical thinking skills for a wide number of real world patient situations Reviews pertinent clinical guidelines treatment and follow up

Cardiac Arrhythmias in Children and Young Adults with Congenital Heart Disease Edward P. Walsh,J. Philip Saul,John K. Triedman,2001 This volume reviews current pathophysiologic concepts and describes state of the art techniques for management of cardiac arrhythmias in children and young adults with congenital heart disease The book provides a thorough understanding of cardiac electrophysiology and detailed technical information on catheter ablation pacemakers and implantable defibrillators Coverage includes a how to chapter on three dimensional mapping techniques for localizing arrhythmias A chapter by world renowned experts examines current treatment options for postoperative atrial tachycardia The book also includes a review of the anatomy of the cardiac conduction system and a discussion of new findings in molecular genetics that relate to hereditary arrhythmias

Pediatric Cardiac Dysrhythmias Paul C. Gillette,Arthur Garson,1981

Catheter Ablation of Cardiac Arrhythmias in Children and Patients with Congenital Heart Disease Edward P. Walsh,George F. Van Hare,Paul Khairy,Mohammad Shenasa,2021-12-30 This authoritative book explores electrophysiologic testing and therapeutic catheter ablation for cardiac arrhythmias in children and in patients of all ages with congenital heart disease It reviews the anatomic and physiologic background to these procedures emphasizing the tools for mapping and tissue ablation that continue to improve patient outcomes Additionally individual chapters are dedicated to specific congenital heart defects for instance tetralogy of Fallot Ebstein s anomaly univentricular heart guiding the reader to anticipate the type of arrhythmia the most likely location for effective ablation and the technical challenges that may be encountered in each condition Key Features Provides a detailed review of the unique challenges presented by young patients with small heart size and patients of any age with distorted anatomy due to congenital heart disease in this long overdue updated text Intends to guide all cardiologists engaged in invasive electrophysiology at both the training level and established practice who are exposed to such exceptional cases Includes an internationally recognized group of experts who discuss the technical approaches success rates complication rates and special precautions needed to achieve optimal outcomes

Clinical Aspects of Cardiac Arrhythmias A.J. Camm,D. Ward,2012-12-06 We were particularly pleased to compile this volume entitled Clinical Aspects of Cardiac Arrhythmias Recent years have seen the publication of many textbooks on cardiac arrhythmias some of which concentrate on one particular aspect such as drug management electrocardiographic appearances electrophysiological

evaluation etc and others of which are the collated reports of symposia often dealing with detailed considerations of highly specialised problems Most of the larger more comprehensive texts have devoted a substantial proportion to basic considerations and experimental observations far removed from the clinical arena When asked to contribute to the series Current Status of Clinical Cardiology we felt that the clinical aspects of cardiac arrhythmias should be emphasized and that the text should be as comprehensive as possible within the limitations of a single volume in this series This comprehensive but clinical approach has necessitated the inclusion of certain subjects such as the mechanisms of tachycardia metabolic aspects of cardiac arrhythmias and reperfusion arrhythmias which are not directly or exclusively clinical However the rapid advances in these areas in recent years are likely to have increasingly important clinical consequences Although the epidemiology of clinical arrhythmias is difficult to discover it is widely appreciated that arrhythmias are commonplace

Textbook of Paediatric Emergency Medicine Peter Cameron, Gary J. Browne, Biswadev Mitra, Stuart Dalziel, Simon Craig, 2018-05-02 It is now more than ten years since the publication of the first edition of Textbook of Paediatric Emergency Medicine and interest in this specialty continues to grow at a local and international level Paediatric emergency medicine can be a challenging and difficult area for doctors Children cannot always communicate their problems verbally while parents are anxious and the possibility of a missed diagnosis is ever present Although the principles in managing paediatric patients are the same as adults there are significant differences in patterns of illness and response In addition the therapies available vary widely between adult and paediatric practice Textbook of Paediatric Emergency Medicine provides clear concise and comprehensive coverage of all the major topics that present within paediatric emergency medicine It offers a consensus approach to diagnosis and treatment drawing on the latest evidence available Short chapters with key point boxes allow for the quick and easy retrieval of information essential when time is short This Third Edition captures the major changes in guidelines across the specialty in the assessment and management of paediatric patients whilst refining established approaches to practice The text reviews both new technologies and the better application of older techniques which have led to changes in practice There are significant updates to the sections on resuscitation and trauma the clinical applications of bedside ultrasound analgesia and sedation There is also a new focus on the teaching and research sections

Cardiovascular genetics - focus on paediatric cardiomyopathy Juan Pablo Kaski, Giuseppe Limongelli, Elena Cervi, Dominic James Abrams, 2023-03-28 Cardiac Arrhythmias, Pacing and Sudden Death Peter Kowey, Jonathan P. Piccini, Gerald Naccarelli, James A. Reiffel, 2017-08-30 This book provides up to date user friendly and comprehensive guidance on the evaluation diagnosis and medical and surgical treatment of cardiac arrhythmias This ensures that that this title aids every trainee and practising cardiologist cardiac electrophysiologist cardiac surgeon vascular surgeon diabetologist cardiac radiologist and any physician who manages cardiac patients Cardiovascular Medicine Cardiac Arrhythmias Pacing and Sudden Death covers every aspect of cardiac arrhythmias from cardiac signs and symptoms through

imaging and the genetic basis for disease to surgery interventions treatment and preventive cardiology This coverage is presented with consistent chapter organization clear design and engaging text that includes user friendly features such as tables lists and treatment boxes

Catheter Ablation of Cardiac Arrhythmias Shoei K. Huang, Mark A. Wood, 2011 The breadth and range of the topics covered and the consistent organization of each chapter give you simple but detailed access to information on anatomy diagnostic criteria differential diagnosis mapping and ablation the book includes a unique section on troubleshooting difficult cases for each arrhythmia and the use of tables illustrations and high quality figures is unmatched among publications in the field

Critical Care of Children with Heart Disease Ricardo Munoz, Victor Morell, Eduardo da Cruz, Carol Vetterly, 2010-06-21 Critical Care of Children with Heart Disease will summarize the comprehensive medical and surgical management of the acutely ill patient with congenital and acquired cardiac disease The aim of the book is to teach bedside physicians nurses and other caregivers basic and practical concepts of anatomy pathophysiology surgical techniques and peri operative management of critically ill children and adults with congenital heart disease allowing these professionals to anticipate prevent or else treat such pathologies The book will cover specific cardiac lesions review their anatomy pathophysiology current preoperative intraoperative and postoperative assessment and management medical and surgical complications will be briefly described with each lesion further discussed in specific chapters In addition the book will have dedicated chapters to management of cardiac patients on extracorporeal membrane oxygenation hemofiltration hemo or peritoneal dialysis and plasma exchange Practical guidelines for cardiovascular nursing care will be also included

Textbook of Paediatric Emergency Medicine E-Book George Jelinek, Ian Everitt, Jeremy Raftos, 2011-12-02 A comprehensive textbook of paediatric emergency medicine for trainee doctors covers all the problems likely to present to a trainee in the emergency department Short concise chapters with key point boxes at the beginning easy to use for the hard pressed trainee Aims to give a consensus approach to assessment and treatment based on the latest evidence Highlights areas of controversy

Clinical Cardiac Electrophysiology in the Young Macdonald Dick, 2006-08-13 It takes a certain hubris to come forth with a This book emerges from the clinical book entitled Clinical Cardiac Electrophys practice and research of the pediatric cardiac iology in the Young There are a number electrophysiology group in the Division of of excellent texts monographs and reviews Pediatric Cardiology at the C S Mott Ch on cardiac arrhythmias in both adults and dren s Hospital the University of Michigan children Josephson s and also Zipes and in Ann Arbor and the former pediatric elec Jalife s comprehensive texts come to mind as trophysiology fellows from Michigan now well as a number of others including Deal established electrophysiologists in their own Wolff and Gelband s the several volumes right It represents a compilation of the cli from Gillette and the recent text from Walsh cal course electrocardiograms electrophysi Saul and Triedman the latter three texts fo ologic studies pharmacological management cusing on children and transcatheter ablation therapy in patients Nonetheless the past three decades have from infancy

through young adulthood seen in witnessed enormous advances in the under Ann Arbor and at the current clinical sites of standing and management of human cardiac the former Michigan fellows Thus while the arrhythmias This development represents the product may be idiosyncratic it is not prov fruits of both basic and clinical investigations cial We are interested in how it is done but in cardiac impulse formation and propagation not to the exclusion of other approaches

Textbook of Paediatric Emergency Medicine - E-Book Peter Cameron, Gary J. Browne, Biswadev Mitra, Stuart Dalziel, Simon Craig, 2023-04-04 This leading text is essential reading for all those working in the paediatric emergency medicine setting who require concise highly practical guidance that incorporates the latest best practice and evidence based guidelines The Textbook of Paediatric Emergency Medicine provides clear concise and comprehensive information to support clinicians in what can be a challenging area to provide care It not only covers diagnosis and management of all common presentations but it also includes practical tips on communicating with both patients and their families As a companion book to Cameron s Textbook of Adult Emergency Medicine this volume is specifically tailored to the educational needs of emergency medicine trainees but is also expected to benefit others working in the emergency setting including paramedics and emergency nurse specialists Concise chapters and key point boxes allow for the quick and easy retrieval of information Comprehensive coverage of all major topics that present within paediatric emergency care Practical tips on communicating with patients and their families All key topics updated to include latest available evidence New section on COVID 19 and Infection control Expanded and enhanced coverage of the use of ultrasound in emergency care An enhanced eBook version is included with purchase The eBook allows you to access all the text figures and references with the ability to search customise your content make notes and highlights and have content read aloud [ESPNIC Children's Intensive Care](#)

Textbook Joe Brierley, Pierre Tissieres, Akash Deep, 2025-07-01 This textbook provides the fundamental of children s critical care from a European perspective It offers a valuable guide for beginners as well as for clinicians working in Intensive Care and allied professionals including the role of an ICU in a modern children s hospital specific situations and clinical practice achievements including techniques and the more appropriate therapies to be applied in different conditions A section is devoted to specific organs lung heart and circulation kidney and RRT gut brain liver and pancreas inflammation immunity and sepsis metabolism and metabolic diseases in ICU whilst other to Cardiac Critical Care and Neuro Critical Care Edited and written by renowned key opinion leaders in the field all chapters use a learning oriented style with practical examples key points and take home messages so that readers can easily learn the content and at the same time apply what they have learned in the clinical setting ESPNIC Children s Intensive Care Textbook is also the prime textbook for the EPIC Diploma matching the published international consensus curriculum and it is accompanied by an MCQ in the fashion of the exam style

Paediatric Advanced Life Support Philip Jevon, 2012-05-07 In the event of a paediatric cardiac arrest it is essential to be able to respond rapidly providing safe and effective care The second edition of this successful text provides nurses with a

practical and systematic guide to the rapid assessment and delivery of appropriate resuscitation to infants and children
Conforms to current European Resuscitation Council Guidelines Based on up to date research and evidence based practice
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and paediatrics Paediatric Advanced Life Support is a succinct yet comprehensive guide and is an essential purchase for any
health professional likely to encounter an emergency situation Pediatric Cardiology Walter H. Johnson,James H.
Moller,2014-04-07 Caring for children with heart disease is extremely complex requiring a different and often tailor made
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a stellar author team Pediatric Cardiology The Essential Pocket Guide provides a unique concise and extremely practical
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