

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, no 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 (x 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	71
10 years	80

Paediatric Cardiac Arrhythmias

Vincent C. Thomas, Seshadri Balaji



Paediatric Cardiac Arrhythmias:

Concise Guide to Pediatric Arrhythmias Christopher Wren, 2011-08-26 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

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

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

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 Electrophysiology practice and research of the pediatric cardiology in the Young There are a number of electrophysiology groups in the Division of excellent texts monographs and reviews Pediatric Cardiology at the C S Mott Children's Hospital the University of Michigan children Josephson's and also Zipes and in Ann Arbor and the former pediatric electrophysiology comprehensive texts come to mind as electrophysiology 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 clinical from Gillette and the recent text from Walsh's course electrocardiograms electrophysiology Saul and Friedman the latter three texts ofologic studies pharmacological management focusing 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 the fruits of both basic and clinical investigations We are interested in how it is done but in cardiac impulse formation and propagation not to the exclusion of other approaches

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

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