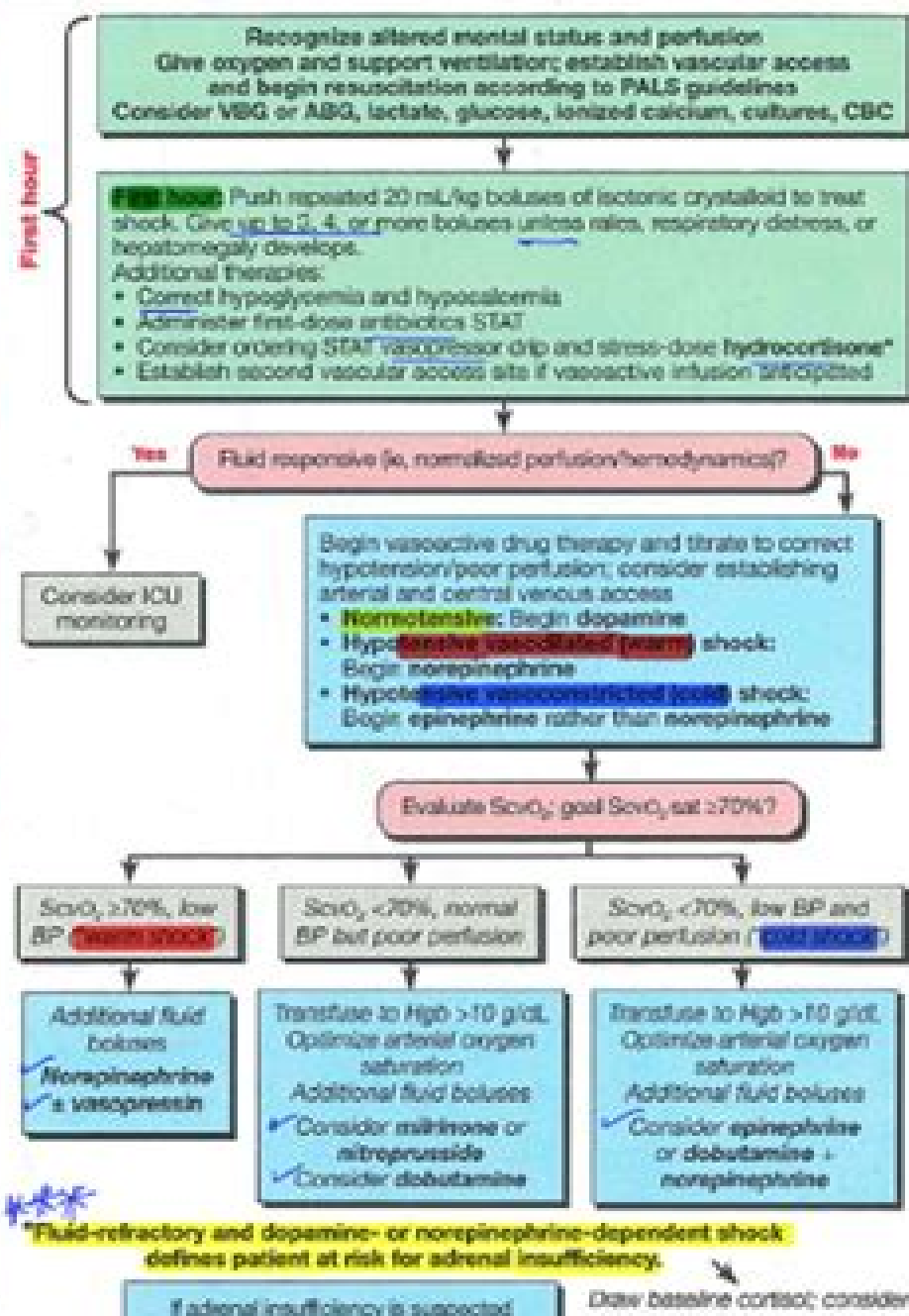


# Summary of Steps of CPR for Adults, Children, and Infants

Component	Recommendations		
	Adults	Children	Infants
Recognition	Unresponsive (for all ages)		
	No breathing or no normal breathing (i.e. only gasping)	No breathing or only gasping	
	No pulse felt within 10 seconds		
CPR sequence	Chest compressions, Airway, Breathing (C-A-B)		
Compression rate	At least 100/min		
Compression depth	At least 2 inches (5 cm)	At least 1/3 AP diameter About 2 inches (5 cm)	At least 1/3 AP diameter About 1 1/2 inches (4 cm)
Chest wall recoil	Allow complete recoil between compressions Rotate compressors every 2 minutes		
Compression interruptions	Minimize interruptions in chest compressions Attempt to limit interruptions to <10 seconds		
Airway	Head tilt–chin lift (suspected trauma: jaw thrust)		
Compression-to-ventilation ratio (until advanced airway placed)	30:2 1 or 2 rescuers	30:2 Single rescuer 15:2 2 rescuers	
Ventilations with advanced airway	1 breath every 6-8 seconds (8-10 breaths/min) Asynchronous with chest compressions About 1 second per breath Visible chest rise		
Defibrillation	Attach and use AED as soon as available. Minimize interruptions in chest compressions before and after shock; resume CPR beginning with compressions immediately after each shock.		

# Pediatric Septic Shock Algorithm



# Pals Algorithms 2012 Study Guide

**Jian Pei, Yannis Manolopoulos, Shazia  
Sadiq, Jianxin Li**



## **Pals Algorithms 2012 Study Guide:**

### **Analyzing Multidisciplinary Uses and Impact of Innovative Technologies** Marchisio, Emiliano, 2022-05-27

Technology faces rapid advancements every year and each year its uses in various facets of society increase and become more profound. Every discipline has adopted technology in some capacity. From FinTech in the business realm to phygital churches in the realm of religion, innovation is applicable everywhere. It is essential that professionals study how to use these advancements to their advantage and also to examine their impact on society and its multitude of sectors. Analyzing Multidisciplinary Uses and Impact of Innovative Technologies discusses the many uses and impacts of innovative technology in society. It guides the reader through these emerging technologies and provides examples and strategies on how they are used. This book further specifically analyzes the many ways these innovations have impacted different sectors such as education, medicine, and media. Covering topics such as pharmacovigilance, assistive technology, and sustainable tourism, this premier reference source is an essential resource for government officials, community leaders, business leaders and managers, museum managers, hospital administrators, rehabilitation professionals, psychiatrists, faculty, and administrators of education, students of higher education, researchers, and academicians.

*Digital Twin - Fundamental Concepts to Applications in Advanced Manufacturing* Surjya Kanta Pal, Debasish Mishra, Arpan Pal, Samik Dutta, Debashish Chakravarty, Srikantha Pal, 2021-08-12. This book provides readers with a guide to the use of Digital Twin in manufacturing. It presents a collection of fundamental ideas about sensor electronics and data acquisition, signal and image processing techniques, seamless data communications, artificial intelligence, and machine learning for decision making, and explains their necessity for the practical application of Digital Twin in Industry. Providing case studies relevant to the manufacturing processes, systems, and subsystems, this book is beneficial for both academics and industry professionals within the field of Industry 4.0 and digital manufacturing.

Fundamentals of Air Pollution Daniel A. Vallero, 2014-07-26. Fundamentals of Air Pollution is an important and widely used textbook in the environmental science and engineering community. This thoroughly revised fifth edition of Fundamentals of Air Pollution has been updated throughout and remains the most complete text available, offering a stronger systems perspective and more coverage of international issues relating to air pollution. Sections on pollution control have been reorganized and updated to demonstrate the move from regulation and control approaches to green and sustainable engineering approaches. The fifth edition maintains a strong interdisciplinary approach to the study of air pollution, covering such topics as chemistry, physics, meteorology, engineering, toxicology, policy, and regulation. New material includes near-road air pollution, new risk assessment approaches, indoor air quality, the impact of biofuels and fuel additives, mercury emissions, forecasting techniques, and the most recent results from the National Air Toxics Assessment. Stronger systems approach emphasizing the impact of air pollution on ecosystems and human health. Risks, measures, models, and control of air pollution are discussed at scale, starting at the individual niche level and expanding to planetary/global scale. Increased emphasis on

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*VII Latin American Congress on Biomedical Engineering CLAIB 2016, Bucaramanga, Santander, Colombia, October 26th -28th, 2016* Isnardo Torres, John Bustamante, Daniel A. Sierra, 2017-04-05 This volume presents the proceedings of the CLAIB 2016 held in Bucaramanga Santander Colombia 26 27 28 October 2016 The proceedings presented by the Regional Council of Biomedical Engineering for Latin America CORAL offer research findings experiences and activities between institutions and universities to develop Bioengineering Biomedical Engineering and related sciences The conferences of the American Congress of Biomedical Engineering are sponsored by the International Federation for Medical and Biological Engineering IFMBE Society for Engineering in Biology and Medicine EMBS and the Pan American Health Organization PAHO among other organizations and international agencies to bring together scientists academics and biomedical engineers in Latin America and other continents in an environment conducive to exchange and professional growth

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