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Clinical paper

Verification of the termination of resuscitation rules in pediatric out-of-hospital cardiac arrest cases

Sakura Minami^a, Chiaki Toida^{a,b,*}, Mafumi Shinohara^a, Takeru Abe^{a,c}, Ichiro Takeuchi^a

Abstract

Aim: Pediatric out-of-hospital cardiac arrest has an unfavorable prognosis; therefore, making accurate predictions of outcomes is crucial for tailoring treatment plans. The termination of resuscitation rules must accurately predict unfavorable outcomes. In this study, we aimed to assess if the current termination of resuscitation rules for adults can predict factors associated with unfavorable outcomes in pediatric out-of-hospital cardiac arrest and examine the relationship between these factors and unfavorable outcomes.

Methods: A retrospective nationwide cohort study of pediatric cases registered in the Japanese Association for Acute Medicine Multicenter Out-of-Hospital Cardiac Arrest Registry from June 1, 2014, to December 31, 2020, was conducted. The association between the current termination of resuscitation rules and outcomes, such as 30-day mortality and unfavorable 30-day neurological outcomes following out-of-hospital cardiac arrest, was evaluated.

Results: A total of 1,216 participants were included. The positive predictive value for predicting 30-day mortality for each termination of resuscitation rule exceeded 0.9. The specificity and positive predictive value for predicting unfavorable 30-day neurological outcomes were 1.00, indicating that no rules identified favorable outcomes. Factors such as no bystander witness, no return of spontaneous circulation before hospital arrival, no automated external defibrillator or defibrillator use, and no bystander cardiopulmonary resuscitation were associated with poor 30-day mortality and neurological outcomes.

Conclusion: Adult termination of resuscitation rules had a high positive predictive value for predicting pediatric out-of-hospital cardiac arrest. However, surviving cases make it challenging to use these rules for end-of-resuscitation decisions, indicating the need for identifying new rules to help predict neurological outcomes.

Keywords: Children, Out-of-hospital cardiac arrest, Termination of resuscitation, Positive predictive value, Neurological outcome, Life support

Introduction

Pediatric out-of-hospital cardiac arrest (pOHCA) has an unfavorable prognosis, with only 6–8% of patients being discharged from the hospital and only 1–2% experiencing favorable neurological outcomes among

those who survive.^{1–3} Pediatric patients typically survive longer, making decisions regarding the termination of resuscitation (TOR) ethically complex.⁴ Therefore, accurate prognosis prediction is crucial for determining a treatment plan that aligns with the family's preferences.

The TOR rules for adults have been employed to assess the appropriateness of prehospital resuscitation termination.^{5–7} Multiple

Abbreviations: pOHCA, Pediatric out-of-hospital cardiac arrest; TOR, termination of resuscitation; JAAM-OHCA Registry, Japanese Association for Acute Medicine Multicenter Out-of-Hospital Cardiac Arrest Registry; CPR, cardiopulmonary resuscitation; ROSC, return of spontaneous circulation; AED, automated external defibrillator; BLS, Basic Life Support; ALS, Advanced Life Support; SOS-KANTO, Survey of survivors after cardiac arrest conducted in the Kanto area of Japan; PCPC, Pediatric Cerebral Performance Category; ROC, receiver operating characteristic; AUC, area under the curve; PPV, positive predictive value; NPV, negative predictive value; CI, confidence intervals; OR, odds ratio.

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Resuscitation Rules

Huangqi Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Resuscitation Rules:

The book delves into Resuscitation Rules. Resuscitation Rules is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Resuscitation Rules, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Resuscitation Rules
- Chapter 2: Essential Elements of Resuscitation Rules
- Chapter 3: Resuscitation Rules in Everyday Life
- Chapter 4: Resuscitation Rules in Specific Contexts
- Chapter 5: Conclusion

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3. In chapter 2, the author will delve into the foundational concepts of Resuscitation Rules. This chapter will elucidate the essential principles that need to be understood to grasp Resuscitation Rules in its entirety.
4. In chapter 3, this book will examine the practical applications of Resuscitation Rules in daily life. This chapter will showcase real-world examples of how Resuscitation Rules can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Resuscitation Rules in specific contexts. The fourth chapter will explore how Resuscitation Rules is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Resuscitation Rules. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Resuscitation Rules.

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Table of Contents Resuscitation Rules

1. Understanding the eBook Resuscitation Rules

- The Rise of Digital Reading Resuscitation Rules
- Advantages of eBooks Over Traditional Books
- 2. Identifying Resuscitation Rules
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Resuscitation Rules
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Resuscitation Rules
 - Personalized Recommendations
 - Resuscitation Rules User Reviews and Ratings
 - Resuscitation Rules and Bestseller Lists
- 5. Accessing Resuscitation Rules Free and Paid eBooks
 - Resuscitation Rules Public Domain eBooks
 - Resuscitation Rules eBook Subscription Services
 - Resuscitation Rules Budget-Friendly Options
- 6. Navigating Resuscitation Rules eBook Formats
 - ePub, PDF, MOBI, and More
 - Resuscitation Rules Compatibility with Devices
 - Resuscitation Rules Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Resuscitation Rules
 - Highlighting and Note-Taking Resuscitation Rules
 - Interactive Elements Resuscitation Rules
- 8. Staying Engaged with Resuscitation Rules
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Resuscitation Rules

9. Balancing eBooks and Physical Books Resuscitation Rules
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Resuscitation Rules
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Resuscitation Rules
 - Setting Reading Goals Resuscitation Rules
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Resuscitation Rules
 - Fact-Checking eBook Content of Resuscitation Rules
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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