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Recommendations for endotracheal tube insertion depths in children

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ABSTRACT

Background Endotracheal tube (ETT) malposition is frequent in paediatric intubation. The current recommendations for ETT insertion depths are based on formulae that hold various limitations. This study aimed to develop age-based, weight-based and height-based curve charts and tables for ETT insertion depth recommendations in children.

Methods In this retrospective single-centre study, we determined the individual optimal ETT insertion depths in paediatric patients by evaluating postintubation radiographic images. Age-based, weight-based and height-based ETT insertion depth recommendations were developed using regression analysis. We compared the insertion depths predicted by the models with previously published formulae.

Results Intubations of 167 children (0–17.9 years) were analysed. Best-fit curves generated with logistic regression analysis revealed R^2 values between 0.784 and 0.880. The insertion depths predicted by the models corresponded well with published age-based and height-based formulae. However, they demonstrated the unsuitability of weight-related linear formulae to predict ETT depth in children.

Conclusion The recommendations developed in this study facilitate a fast and accurate determination of recommended ETT insertion depths in children. Our recommendations provide greater accuracy than previously published formulae and demonstrate that weight-related linear formulae are unsuitable for predicting ETT depth in children.

INTRODUCTION

Endotracheal intubation in children is a crucial procedure in the prehospital setting, emergency department, intensive care unit and before surgery. Precise positioning of the endotracheal tube (ETT) is essential to reduce the incidence of complications, including atelectasis, pneumothorax, tracheal damage, unplanned extubation and posextubation stridor.¹ The gold standard for confirming the correct ETT position is chest radiography.^{2–5} Nevertheless, as prompt postintubation ventilation is mandatory and instant bedside radiography is not consistently available, methods to reliably estimate the optimal ETT insertion depth are required. Numerous formulae, most of which refer to the patient's age or weight, have been proposed to estimate the correct depth of tube placement within the trachea in children.^{6–11} Unfortunately, commonly used formulae for ETT insertion depth lack optimum accuracy, resulting in a significant

WHAT IS ALREADY KNOWN ON THIS TOPIC

- The incidence of endotracheal tube (ETT) malposition in children is significant.
- Published linear formulae to predict the correct ETT insertion depth do not account for the non-linear growth of children.

WHAT THIS STUDY ADDS

- We calculated accurate insertion ETT depth recommendations using non-linear regression analysis.
- Our recommendations demonstrate that weight-related linear formulae are unsuitable for predicting ETT insertion depth in children.

HOW THIS STUDY MIGHT AFFECT RESEARCH, PRACTICE OR POLICY

- Developed curves and tables have the potential to facilitate a fast and accurate determination of ETT insertion depths in children.
- Clinicians should use age-based and height-based formulae rather than weight-related linear formulae to predict ETT insertion depth in children.

incidence of ETT malposition.^{12–15} A formula-based approach may be unreliable because it relies on linear equations. Paediatric growth, however, does not follow a linear relationship, so the ETT insertion depth is unlikely to be optimally predicted by a linear formula.^{14–17}

This study's aim was to develop and compare age-based, weight-based and height-based recommendations for correct ETT insertion depths in children.

METHODS

Study design and subjects

We retrospectively evaluated the CXRs of intubated paediatric patients older than 28 days admitted to our University Medical Centre's paediatric intensive care unit from January 2017 to August 2020. All clinical patient data were obtained from the hospital's healthcare information systems (Sorian, Siemens Healthcare, Erlangen, Germany; ICM, Draeger, Luebeck, Germany). Extracted information included sex, age, weight, height, intubation route and ETT insertion depth. ETT depth was documented from the front teeth. Our institutional policy is to intubate neonates via the nasotracheal route. Therefore, we included only children older



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Table of Contents 5 Edition Tube Recommendations

1. Understanding the eBook 5 Edition Tube Recommendations
 - The Rise of Digital Reading 5 Edition Tube Recommendations
 - Advantages of eBooks Over Traditional Books
2. Identifying 5 Edition Tube Recommendations
 - 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 5 Edition Tube Recommendations
 - User-Friendly Interface
4. Exploring eBook Recommendations from 5 Edition Tube Recommendations
 - Personalized Recommendations
 - 5 Edition Tube Recommendations User Reviews and Ratings
 - 5 Edition Tube Recommendations and Bestseller Lists
5. Accessing 5 Edition Tube Recommendations Free and Paid eBooks
 - 5 Edition Tube Recommendations Public Domain eBooks
 - 5 Edition Tube Recommendations eBook Subscription Services
 - 5 Edition Tube Recommendations Budget-Friendly Options
6. Navigating 5 Edition Tube Recommendations eBook Formats

- ePub, PDF, MOBI, and More
- 5 Edition Tube Recommendations Compatibility with Devices
- 5 Edition Tube Recommendations Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 5 Edition Tube Recommendations
 - Highlighting and Note-Taking 5 Edition Tube Recommendations
 - Interactive Elements 5 Edition Tube Recommendations
- 8. Staying Engaged with 5 Edition Tube Recommendations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 5 Edition Tube Recommendations
- 9. Balancing eBooks and Physical Books 5 Edition Tube Recommendations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 5 Edition Tube Recommendations
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 5 Edition Tube Recommendations
 - Setting Reading Goals 5 Edition Tube Recommendations
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 5 Edition Tube Recommendations
 - Fact-Checking eBook Content of 5 Edition Tube Recommendations
 - 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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