

Research

Emergency Intubation

2179

The tracheal tube introducer (known as the bougie) is used primarily for patients with poor laryngeal views or as a rescue device when initial intubation attempts fail. In a randomized clinical trial of 757 patients requiring emergency orotracheal intubation, Driver and colleagues found that use of a bougie, compared with an endotracheal tube and stylet, was more likely to achieve intubation on the first attempt.

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Oxygenation of Extremely Preterm Infants

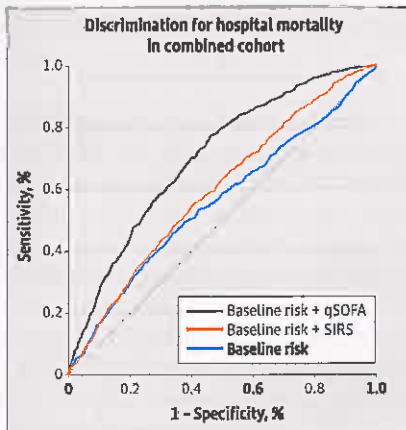
2190

Oxygen therapy is essential for the treatment of many preterm infants, but too much oxygen can be toxic. Askie and colleagues for the Neonatal Oxygenation Prospective Meta-analysis Collaboration conducted a meta-analysis of 5 trials that randomized 4965 extremely preterm infants to higher or lower target ranges for oxygen saturation and found no difference in death or major disability. In an Editorial, Bizzarro discusses secondary outcomes of the treatment strategies.

Editorial 2173

Identifying Patients at Risk of Sepsis

2202



The quick Sequential (Sepsis-Related) Organ Failure Assessment (qSOFA) score may be useful in resource-limited settings because it is not based on laboratory tests. Rudd and colleagues for the Sepsis Assessment and Identification in Low Resource Settings Collaboration conducted a retrospective analysis of hospitalized adults with suspected infection in 9 cohorts from low- and middle-income countries and found that the qSOFA score had predictive validity for identifying patients at risk of death. In an Editorial, Adhikari and Rubenfeld discuss the qSOFA score as a screening test for sepsis.

Editorial 2175

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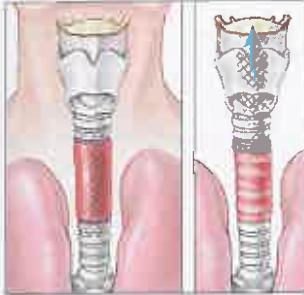
Editor In Chief
Howard Bauchner, MD

134 YEARS
OF CONTINUOUS
PUBLICATION

Research (continued)

Bioengineered Tracheal and Bronchial Reconstruction

2212



Airway replacement could restore function to patients with proximal lung tumors or end-stage tracheobronchial disease. Martinod and colleagues analyzed the clinical experience of 20 patients and found airway reconstruction with a human cryopreserved aortic allograft to be feasible, although further research is needed to assess efficacy and safety. In an Editorial, Rusch suggests that future studies could explore the mechanisms of tissue regeneration and help refine this novel procedure.

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Clinical Review & Education

Restricted Randomization in Clinical Trials

2223

In trials with small sample sizes, randomization procedures can be modified to ensure that participants or prespecified covariates are balanced across study groups. Broglio discusses the advantages and disadvantages of restricted randomization techniques in this JAMA Guide to Statistics and Methods.

Hearing Aids and Quality of Life

2225

Hearing loss is a barrier to communication and social engagement. In this Clinical Evidence Synopsis summarizing a Cochrane review of 5 randomized clinical trials, Kitterick and Ferguson discuss the benefits of hearing aids for patients with hearing loss.

Evaluation and Management of Patients With Suspected Syncope

2227

In this JAMA Clinical Guidelines Synopsis of a 2017 guideline developed by the American College of Cardiology, the American Heart Association, and the Heart Rhythm Society, Waytz and colleagues discuss the evaluation of adults with suspected syncope and the need for more research to guide the management of patients at intermediate risk of adverse outcomes.



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Editor's Audio Summary

Howard Bauchner, MD, summarizes and comments on this week's issue.

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Author Interview



AUDIO Emmanuel Martinod, MD, PhD, author of "Feasibility of Bioengineered Tracheal and Bronchial Reconstruction Using Stented Aortic Matrices," and



Valene W. Rusch, author of "Has Reconstruction of the Central Airways Been Transformed? From Aorta to Trachea"

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