

## Research

### CARING FOR THE CRITICALLY ILL PATIENT

#### Extubation From Mechanical Ventilation 2175

Patients receiving mechanical ventilation are typically assessed for their readiness to be weaned from ventilatory support after a trial of spontaneous breathing. Subirà and colleagues randomized 1153 patients who were receiving mechanical ventilation and found that a trial of spontaneous breathing consisting of 30 minutes of pressure support ventilation, compared with 2 hours of T-piece ventilation, led to higher rates of successful extubation. In an Editorial, Girard and Burns discuss the importance of recognizing the earliest time when patients are ready for extubation.

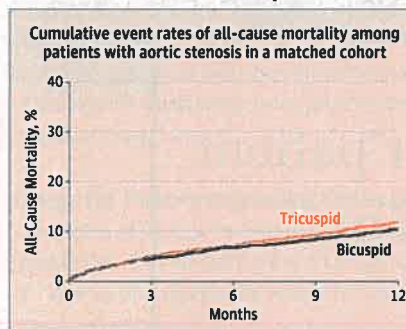
📖 Editorial 2167

📺 Visual Abstract [jama.com](http://jama.com)

#### Red Blood Cell Transfusions and Mortality 2183

It has been hypothesized that transfusions from female donors to male recipients may be associated with adverse outcomes attributable to immunological mechanisms. Edgren and colleagues for the NHLBI Recipient Epidemiology and Donor Evaluation Study-111 analyzed data for 1 047 382 patients and found that red blood cell transfusions from female, previously pregnant, or sex-discordant donors were not significantly associated with increased mortality.

#### Transcatheter Valve Replacement for Bicuspid Aortic Stenosis 2193



Transcatheter aortic valve replacement (TAVR) can be technically challenging for patients with bicuspid aortic valves. Makkar and colleagues conducted a prospective cohort study of 81 822 patients undergoing TAVR and found no significant differences in 30-day or 1-year mortality for patients with bicuspid vs tricuspid valve replacement, but bicuspid valve replacement was associated with an increased 30-day risk for stroke. In an Editorial, Barker and Reardon

suggest that randomized trials of TAVR for patients with bicuspid stenosis should consider valve anatomy subtypes, optimal valve sizing, and best practice implantation techniques.

📖 Editorial 2170 Related Article 2236

📺 CME [jamanetwork.com/learning](http://jamanetwork.com/learning)

## Opinion

### Viewpoint

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DP Sklar and GT McMahon

2159 Why Bolstering Trust in Journalism Could Help Strengthen Trust in Medicine  
VM Arora, D Rousseau, and G Schwitzer

2161 Dual-Physician Households: Strategies for the 21st Century  
L Ferrante and L Mody

2163 The Need for Federal Regulation of Marijuana Marketing  
JW Ayers, T Caputi, and EC Leas

### A Piece of My Mind

2165 Reflections on Leadership: Seizing and Embracing Opportunities—Holding Up Half the Sky  
BJ Stoll

### Editorial

2167 Revisiting, Reframing, and Casting a New Light on Liberation From Mechanical Ventilation  
TD Girard and KEA Burns

2170 Bicuspid Aortic Valve Stenosis: Is There a Role for TAVR?  
CM Barker and MJ Reardon

2172 HIV Screening and Preexposure Prophylaxis Guidelines: Following the Evidence  
H Scott and PA Volberding

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#### Research Letter

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GH Bevan and Coauthors

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2248 Editorials: The Ophthalmoscope, The Disaster



Editor in Chief  
Howard Bauchner, MD

**135 YEARS**  
OF CONTINUOUS  
PUBLICATION

## Clinical Review & Education

### RECOMMENDATION STATEMENT

#### Preexposure Prophylaxis to Prevent HIV Infection **2203**

HIV infection is acquired from previously infected individuals during sexual activity or by sharing needles used for injecting drugs. The US Preventive Services Task Force recommends that clinicians offer preexposure prophylaxis with effective antiretroviral therapy to individuals who are at high risk of HIV acquisition. In an Editorial, Scott and Volberding note that less than 10% of individuals with an indication for preexposure prophylaxis are receiving it.

📖 Editorial **2172** Related Article **2214** JAMA Patient Page **2252**  
🎧 Author Audio Interview [jama.com](http://jama.com) CME [jamanetwork.com/learning](http://jamanetwork.com/learning)

### EVIDENCE REPORT

#### Effectiveness of Preexposure Prophylaxis **2214**

In a review of 29 studies with 55 000 participants, Chou and colleagues found that pre-exposure prophylaxis of adults at increased risk of HIV infection using oral tenofovir disoproxil fumarate monotherapy or tenofovir disoproxil fumarate/emtricitabine was associated with a decreased risk of acquiring HIV infection.

📖 Editorial **2172** Related Article **2203** JAMA Patient Page **2252**  
🎧 Author Audio Interview [jama.com](http://jama.com)

### CLINICAL UPDATE

#### Prevention of Hip Fractures in Older Adults **2231**

The incidence of osteoporotic fracture increases with age. This JAMA Insights article by Berry and colleagues discusses the prevention of osteoporotic fractures based on estimates of risk and life expectancy, using pharmacologic and nonpharmacologic interventions.

📖 Related Article **2233**

#### Drugs for Postmenopausal Osteoporosis **2233**

The choice of therapy for osteoporosis is based on cost-effectiveness, pill burden, and comorbidities. This Medical Letter on Drugs and Therapeutics lists formulations and dosages of 7 classes of drugs for the prevention and treatment of postmenopausal osteoporosis.

📖 Related Article **2231**

### 📖 Online @ [jama.com](http://jama.com)



#### Editor's Audio Summary

Phil B. Fontanarosa, MD, summarizes and comments on this week's issue.

#### Visual Abstract

"Effect of Pressure Support vs T-Piece Ventilation Strategies During Spontaneous Breathing Trials on Successful Extubation Among Patients Receiving Mechanical Ventilation: A Randomized Clinical Trial"

#### Author Audio Interview



John W. Epling Jr, MD, MEd, author of "Preexposure Prophylaxis for the Prevention of HIV Infection: US Preventive Services Task Force Recommendation Statement"

#### Author Audio Interview

Paul A. Volberding, MD, author of "HIV Screening and Preexposure Prophylaxis Guidelines: Following the Evidence"

### Prevention of HIV Infection With Medications



#### JAMA Patient Page

**2252** Can HIV Infection Be Prevented With Medication?

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