

## Research

### Estimated Daily Sodium Consumption 1209

Urinary sodium excretion may be a more accurate measure of sodium intake than dietary recall. Cogswell and colleagues analyzed 24-hour urine specimens from a nationally representative survey of 827 US adults and estimated mean sodium intake to be 3608 mg per day. In an Editorial, Ix and Anderson suggest that this estimate can serve as a benchmark for evaluating the success of public health strategies to reduce sodium intake from commercially processed foods and other sources.

📖 Editorial 1201

### Pharmacologic Closure of Patent Ductus Arteriosus 1221

In premature infants, closure of a hemodynamically significant patent ductus arteriosus may prevent organ damage from pulmonary hyperperfusion or systemic hypoperfusion. Mitra and colleagues reviewed 68 randomized trials enrolling 4802 infants and found that oral high-dose ibuprofen was associated with a higher likelihood of hemodynamically significant patent ductus arteriosus closure compared with standard doses of intravenous ibuprofen or indomethacin.

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

### Rural Birth Outcomes After Loss of Obstetric Services 1239

The lack of hospital-based obstetric services in rural areas may prolong travel distances and limit options for giving birth. Kozhimannil and colleagues conducted a retrospective cohort study of 4 941 387 births in 1086 rural US counties and found that loss of hospital-based obstetric services was associated with increases in out-of-hospital and preterm births. In an Editorial, Shah suggests that geographic distances could be bridged with modern modes of communication to access expert consultants and triage women at risk of adverse birth outcomes.

📖 Viewpoint 1193 Editorial 1203

## Opinion

### Viewpoint

1193 A Path to Sustain Rural Hospitals  
KM Murphy, LS Hughes, and P Conway

1195 Birth Defects Potentially Related to Zika Virus Infection During Pregnancy in the United States  
B Fitzgerald, C Boyle, and MA Honein

1197 Preventing the Malignant Transformation of Bipolar Disorder  
RM Post

### A Piece of My Mind

1199 Mentoring in the Era of #MeToo  
JS Byrley

### Editorial

1201 Measurements of 24-Hour Urinary Sodium and Potassium Excretion: Importance and Implications  
JH Ix and CAM Anderson

1203 Eroding Access and Quality of Childbirth Care in Rural US Counties  
NT Shah

1205 Infectious Diseases Mortality in the United States: Ongoing Investment Needed for Continued Progress  
EK Shuman and PN Malani

1207 From Guideline to Order Set to Patient Harm  
SD Shah and AS Cifu

## LETTERS

### Research Letter

1274 Three-Year Follow-up of a Trial of Close Contact Casting vs Surgery for Initial Treatment of Unstable Ankle Fractures in Older Adults  
DJ Keene and Coauthors for the Ankle Injury Management (AIM) Trial Collaborators

1276 Electronic Health Record Usability Issues and Potential Contribution to Patient Harm  
JL Howe and Coauthors

### Comment & Response

1278 Genotype vs Clinically Guided Dosing of Warfarin to Prevent Adverse Events

1280 Vaccination Strategies During Shortages of Yellow Fever Vaccine

1281 Correction



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1283 Legislation for Increased Rank for Medical Officers

**134 YEARS**  
OF CONTINUOUS  
PUBLICATION

Editor in Chief  
Howard Bauchner, MD

## Research (continued)

### Local Disparities in Infectious Disease Mortality 1248

Although infectious disease mortality in the United States is declining nationally, outbreaks may occur at the local level. El Bcheraoui and colleagues used death records and population counts to estimate age-standardized mortality rates and found large differences by county for several infectious diseases. In an Editorial, Shuman and Malani discuss several reasons why infectious disease mortality is likely to vary from place to place and over time.

Editorial 1205

## Clinical Review & Education

### HIV Preexposure Prophylaxis 1261

Approximately 1 in 8 of the 1.2 million people living with HIV in the United States are unaware of their HIV status, and only half of those known to be infected are receiving effective antiretroviral therapy. Riddell and colleagues review the efficacy and safety of preexposure prophylaxis to prevent the transmission of HIV.

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

### Contraindicated $\beta$ -Blocker Therapy 1269

This article in the JAMA Performance Improvement series explores the case of a patient with complete heart block who developed cardiogenic shock after receiving  $\beta$ -blocker therapy. Gupta and colleagues discuss contraindications to  $\beta$ -blocker therapy and the limitations of standardized admission orders. In an Editorial, Shah and Cifu emphasize that clinical decision support tools should be designed to supplement, not replace, clinical judgment.

Editorial 1207

Author Audio Interview [jama.com](http://jama.com) CME [jamanetwork.com/learning](http://jamanetwork.com/learning)

### Ambulatory Reflux Monitoring 1271

This JAMA Diagnostic Test Interpretation article by Patel and Gyawali presents a 56-year-old woman with persistent heartburn who was evaluated with ambulatory reflux monitoring. How would you interpret these test results?



JAMA Patient Page  
1290 Hypothermia

## NEWS & ANALYSIS

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VA Announces Plan to Improve Worst-Performing Medical Centers

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Exercise Remodels Heart in Middle Age

Benefits of Moderate Physical Activity Despite Frailty

Brief Psychotherapy for PTSD

### 1191 News From the CDC

Drug-Resistant Infections From Raw Milk

Global Outbreaks Threaten US Economy

## Online @ jama.com



### Editor's Audio Summary

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

### Online First Articles

Visit [jamanetwork.com/journals/jama/newonline](http://jamanetwork.com/journals/jama/newonline) for just-published opinion pieces and Medical News features.

### Author Interview



**AUDIO** Arjun Gupta, MD, author of " $\beta$ -Blockers in Myocardial Infarction: Issues With Standard Admission Order Sets," and Jennifer L. Rabaglia, MD, MSc, of Parkland Health and Hospital System

### Opioid Use and Addiction

A collection of JAMA Network articles about opioids is available at sites [jamanetwork.com/opioids/](http://jamanetwork.com/opioids/).

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