

In This Issue: December 14, 2021

Research

ORIGINAL INVESTIGATION

2268 Effect of Intravenous or Intraosseous Calcium vs Saline on Return of Spontaneous Circulation in Adults With Out-of-Hospital Cardiac Arrest: A Randomized Clinical Trial

MF Vallentin and Coauthors

This placebo-controlled randomized clinical trial compares administration of calcium vs saline during out-of-hospital cardiac arrest for sustained return of spontaneous circulation in adults.

[Visual Abstract](#) | [Video](#)

2277 Heterogeneity of Treatment Effects in an Analysis of Pooled Individual Patient Data From Randomized Trials of Device Closure of Patent Foramen Ovale After Stroke

DM Kent and Coauthors

This study evaluates heterogeneity of treatment effect (HTE) of patent foramen ovale (PFO) closure on stroke recurrence based on the Risk of Paradoxical Embolism and PFO-Associated Stroke Causal Likelihood scoring systems using individual patient data pooled from 6 randomized clinical trials (RCTs) that compared PFO closure plus medical therapy vs medical therapy alone in patients with PFO-associated stroke.

Editorial **2265**Related Article **2312**

[CME](#)

2287 Association Between Preserved Ratio Impaired Spirometry and Clinical Outcomes in US Adults

ES Wan and Coauthors

This study of pooled data from 9 US population-based cohorts assessed mortality risk and adverse cardiovascular and respiratory outcomes for chronic lung diseases among adults with normal spirometry vs preserved ratio impaired spirometry.

[CME](#)

Opinion

VIEWPOINT

2257 Pediatric COVID-19 Vaccines: What Parents, Practitioners, and Policy Makers Need to Know

WJ Moss, LO Gostin, and JB Nuzzo

2259 Incentivizing a New Culture of Data Stewardship: The NIH Policy for Data Management and Sharing

LA Jorgenson, CD Wolinetz, and FS Collins

2261 Contextualizing Risk Among Patients With Heart Failure

SJ Greene, J Butler, and GC Fonarow

A PIECE OF MY MIND

2263 The Hardest Thing

VB Viswanathan

In this narrative medicine essay, a pediatrician who learned the hard secrets of breastfeeding after the birth of her twins shares how her experience transformed her approach to new parents by acknowledging the difficulty and helping them find support.

EDITORIAL

2265 Patent Foramen Ovale Closure—Harnessing Clinical Trial Evidence to Inform Individualized Treatment Decisions

RW Yeh and D DeFaria Yeh

Related Article **2277**

Clinical Review & Education

REVIEW

2299 Diagnosis and Management of Acute Appendicitis in Adults: A Review

D Moris, EK Paulson, and TN Pappas

This narrative review summarizes current understanding of the pathophysiology, diagnosis, and management of acute appendicitis, especially comparing antibiotics-only vs surgical approaches to management.

JAMA Patient Page **2339**

[Audio](#) | [CME](#)

[Online at JAMA.com](#)

[AUDIO](#)

Editor's Summary of This Issue

Current Management of Acute Appendicitis: Antibiotics or Surgical Intervention

[VIDEO](#)

Effect of Vasopressin and Methylprednisolone vs Placebo on Return of Spontaneous Circulation in Patients With In-Hospital Cardiac Arrest

[CME](#)

Find CME quizzes online at jamacmelookup.com

[INSTRUCTIONS FOR AUTHORS](#)

jamanetwork.com/pages/for-authors

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CORRECTION 2333

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Phil B. Fontanarosa, MD, MBA



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JAMA GUIDE TO STATISTICS AND METHODS

2312 Heterogeneity of Treatment Effect: Estimating How the Effects of Interventions Vary Across Individuals

DC Angus and C-C H Chang

This Guide to Statistics and Methods discusses the various approaches to estimating variability in treatment effects, including heterogeneity of treatment effect, which was used to assess the association between surgery to close patent foramen ovale and risk of recurrent stroke in patients who presented with a stroke in a related JAMA article.

Related Article [2277](#)

JAMA CLINICAL CHALLENGE

2314 Erythematous Papules and Hemorrhagic Vesicles in a Woman With Arthralgias and Eye Pain

L West, SK Cho, and C Thomas

A 48-year-old woman with diet-controlled diabetes had extremity arthralgias, a purpuric rash and foot paresthesias, and eye pain and redness. Vital signs and results of laboratory testing including direct immunofluorescence were unremarkable; skin biopsy showed leukocytoclasia, erythrocytic extravasation, and fibrin in small blood vessel walls. What is the diagnosis and what would you do next?

JAMA PATIENT PAGE

2339 Acute Appendicitis

K Walter

This JAMA Patient Page describes the causes, symptoms, diagnosis, and treatment options for uncomplicated and complicated acute appendicitis.

Related Article [2299](#) Audio

News & Analysis

MEDICAL NEWS & PERSPECTIVES

2247 COVID-19 Vaccine Makers Plan for Annual Boosters, but It's Not Clear They'll Be Needed

R Rubin

This Medical News feature examines whether it's likely that repeated COVID-19 vaccine boosters will be needed to maintain protection against SARS-CoV-2.

BIOTECH INNOVATIONS

2250 Data Emerge From the UK's COVID-19 Vaccine Extended Dosing Interval**2250 COVID-19 Vaccine Combination Was Superior in Real-world Study****2250 Immunocompromised Patients With COVID-19 Receive Interferon Gamma**

NEWS FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION

2251 Cancer Care Creates Substantial Costs for US Patients**2251 Delta Variant Wasn't Linked With More Severe Disease**

Humanities

THE ARTS AND MEDICINE

2245 The Legacy of James McCune Smith, MD—The First US Black Physician

NK Aggarwal

This Arts and Medicine feature surveys the life and scholarship of James McCune Smith, MD, a 19th-century New York physician who cared for poor individuals, debunked pseudoscience justifying racism, and published broadly in medicine and public health.

POETRY AND MEDICINE

2335 In a Dark Wood

M Wynn

JAMA REVISITED

2336 Myth and Mumpsimus in Medicine

Letters

RESEARCH LETTER

2323 Association of Social Risk Factors With Home Dialysis and Kidney Transplant Rates in Dialysis Facilities

R Thorsness and Coauthors

This study examines rates of home dialysis and transplant at dialysis facilities that serve patients with high social risk to understand how they fare under the End-Stage Renal Disease Treatment Choices Model.

2326 Frequency and Duration of Boarding for Pediatric Mental Health Conditions at Acute Care Hospitals in the US

JK Leyenaar and Coauthors

This study estimates the frequency and duration of boarding for pediatric mental health conditions at US acute care hospitals and describes hospital resources available to support youths during boarding.

COMMENT & RESPONSE

Sedation and Ventilator Liberation Protocol vs Usual Care and Duration of Invasive Ventilation in Pediatric Intensive Care Units**2328** N Nosaka and T Masuda

In Reply

2329 B Blackwood, DF McAuley, and MJ Peters**Active vs Expectant Management of Persisting Pregnancy of Unknown Location****2329** J-R He, H-Y Xiao, and X Qiu

In Reply

2330 KT Barnhart, AZ Steiner, and KR Hansen**Nicotine Pouch Unit Sales in the US From 2016 to 2020****2330** M Hrywna, MJ Lewis, and PM Ling

In Reply

2331 K Marynak, S Emery, and BA King**Slower vs Faster Intravenous Fluid Bolus Rates and Mortality in Critically Ill Patients****2331** X Chapalain and O Huet

In Reply

2332 FG Zampieri and AB Cavalcanti