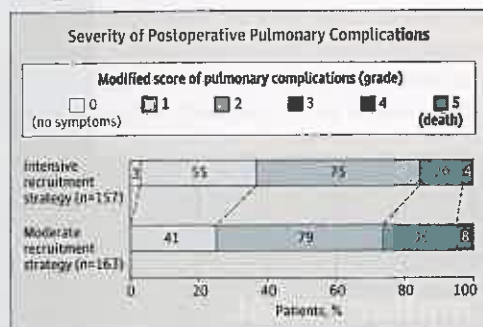


Research

Lung-Protective Ventilation



In patients recovering from surgery, the goals of mechanical ventilation are to open collapsed alveoli and improve gas exchange while minimizing barotrauma to the lungs. This single-center randomized clinical trial by Leme and colleagues randomized 320 patients requiring mechanical ventilation after cardiac surgery to undergo lung inflation maneuvers at higher vs lower airway pressures to recruit alveoli while maintaining a low tidal volume to minimize barotrauma. The patients who received lung inflation at higher pressures had less severe pulmonary complications. In an Editorial, Neto and Schultz discuss the benefits and harms of ventilation strategies for patients with severe lung injury.

✚ Editorial 1413
✚ CME jamanetworkcme.com

US Norepinephrine Shortage and Mortality

In 2011 to 2012, the United States experienced a severe nationwide shortage of norepinephrine, the first-line vasopressor for treatment of hypotension in patients with septic shock. To assess potential harms of this shortage, Vail and colleagues conducted a retrospective cohort study of 27 835 patients with septic shock admitted to 26 US hospitals with at least 1 quarter of norepinephrine shortage in 2011. Patients admitted to these hospitals during times of shortage had greater in-hospital mortality. In an Editorial, Donohue and Angus recommend 5 broad solutions for preventing shortages of sterile injectable drugs.

✚ Editorial 1415
✚ CME jamanetworkcme.com

Vascular Risk Factors and Brain Amyloid Deposition

Hypertension, diabetes, smoking, and hypercholesterolemia are risk factors for Alzheimer disease, but it is not known whether this risk is mediated by an increase in amyloid deposition. In a prospective cohort study of 322 participants aged 45 to 64 years who were free of dementia at baseline and were followed up for 20 years or more, Gottesman and colleagues found that midlife exposure to vascular risk factors was associated with amyloid deposition in later life; this finding is consistent with a role of vascular disease in the development of Alzheimer disease.



Humanities

The Arts and Medicine
1398 *Homecoming—The Podcast*
DM Benedek, GH Wynn, and RJ Ursano

Poetry and Medicine
1483 *Bloodwork*
J Dunlop

JAMA Revisited
1484 *The Relation Between Pediatrics and General Medicine*

Opinion

Viewpoint

1407 *The Risk of Expanding the Uninsured Population by Repealing the Affordable Care Act*
AEM Eltorai and MI Eltorai

1409 *Achieving Universal Coverage Without Turning to a Single Payer: Lessons From 3 Other Countries*
RE Herzlinger, BD Richman, and RJ Boxer

A Piece of My Mind

1411 *The Evidence-Based Metaphor*
B Trogen

Editorial

1413 *Optimizing the Settings on the Ventilator: High PEEP for All?*
AS Neto and MJ Schultz

1415 *National Shortages of Generic Sterile Injectable Drugs: Norepinephrine as a Case Study of Potential Harm*
JM Donohue and DC Angus

1418 *The Role of Spinal Manipulation in the Treatment of Low Back Pain*
RA Deyo

1420 *Vital Directions and National Will*
DM Berwick

LETTERS

Research Letter

1476 *Potential Number of Organ Donors After Euthanasia in Belgium*
J Bollen and Coauthors

Comment & Response

1477 *Zoledronic Acid Dosing Interval for Metastatic Cancer*

1478 *Coagulation Testing in a Bleeding Patient*

1480 *FDA Approval of Eteplirsen for Muscular Dystrophy*

1482 *Correction*

Editor in Chief
Howard Bauchner, MD

133 YEARS
OF CONTINUOUS
PUBLICATION

Research (continued)

Spinal Manipulative Therapy and Acute Low Back Pain 1451

Common treatments for acute back pain include heat, analgesics, muscle relaxants, exercises, physical therapy, and spinal manipulation. Systematic reviews have reached different conclusions about the effectiveness of spinal manipulation compared with nonmanipulative therapies. In this review by Paige and colleagues of 26 randomized clinical trials, spinal manipulative therapy was associated with modest improvements in acute low back pain and function at up to 6 weeks, with transient minor musculoskeletal harms. In an Editorial, Deyo discusses the potential benefits of spinal manipulative therapy and explains how it may relieve pain.

📖 Editorial 1418

Clinical Review & Education

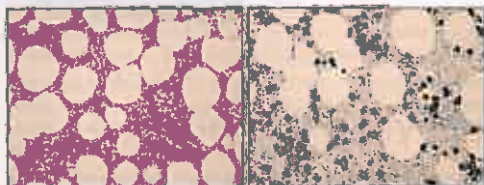
Vital Directions for Health and Health Care 1461

Dzau and colleagues review and synthesize the findings of 19 National Academy of Medicine-commissioned white papers on infrastructure and policy priorities considered essential to improving health and health care in the United States. In an Editorial, Berwick suggests that national adoption of this template for change would result in better health care quality, better health status, and more sustainable health care costs.

📖 Editorial 1420

📺 CME jamanetworkcme.com

Acute Anuric Renal Failure in an 80-Year-Old Man 1471



This JAMA Clinical Challenge article by Summa and Jain presents a man with hypertension, gastroesophageal reflux disease, chronic kidney disease, and anuria who was tested for multiple myeloma. What would you do next?

From The Medical Letter: Lifitegrast (Xiidra) for Dry Eye Disease 1473

This *Medical Letter on Drugs and Therapeutics* article discusses the safety and effectiveness of an anti-inflammatory ophthalmic solution for treatment of the symptoms of dry eye disease.

📺 Online @ jama.com



Editor's Audio Summary

Derek C. Angus, MD, MPH, summarizes and comments on this week's issue.

JN Challenge

Have you taken the Challenge? Test yourself on real cases from JAMA Network journals and get answers in real time at jamanetwork.com/pages/clinical-challenge.

Online First Research

Visit jamanetwork.com/journals/jama/newonline for just-published research featured at scientific meetings, such as ENDO and ISICEM.

JAMA Network Podcasts

JAMA Network podcasts explore the latest original research and current clinical content. Subscribe at sites jamanetwork.com/audio/.



JAMA Patient Page

1490 Using Tourniquets to Stop Bleeding

NEWS & ANALYSIS

Medical News & Perspectives

1400 Barry Marshall, MD: *H pylori* 35 Years Later

The JAMA Forum

1402 Politics, Policy, and Medicaid Reform

1404 Capitol Health Call

Congress Urged to Promote Immunization

Vets Still Face Challenges in Receiving Timely Medical Care

Concern Over Family Planning Clinics

1405 News From the CDC

Asbestos Exposure Still Poses

Occupational Health Risks

Cancer Screenings Lag Behind National Goals Set for 2020

Departments

1395 Staff Listing

1475 CME Questions

1485 Classified Advertising

1488 Journal Advertiser Index

1489 Contact Information

Instructions for Authors

jama.com/public/Instructionsforauthors.aspx