

In This Issue: February 4, 2020

Research

PRELIMINARY COMMUNICATION

423 Effect of Vitamin C, Hydrocortisone, and Thiamine vs Hydrocortisone Alone on Time Alive and Free of Vasopressor Support Among Patients With Septic Shock: The VITAMINS Randomized Clinical Trial

T Fujii and Coauthors
for the VITAMINS Trial Investigators

This randomized clinical trial compares the effects of treatment with intravenous vitamin C, hydrocortisone, and thiamine compared with intravenous hydrocortisone alone on duration of time alive and free of vasopressor use over 7 days in patients with septic shock.

Editorial **419**

 Visual Abstract

ORIGINAL INVESTIGATION

432 Effects of Iron Isomaltoside vs Ferric Carboxymaltose on Hypophosphatemia in Iron-Deficiency Anemia: Two Randomized Clinical Trials

M Wolf and Coauthors

Because intravenous (IV) iron can induce hypophosphatemia, the 2 clinical trials in this report directly compare the effects of 2 IV iron formulations, iron isomaltoside (now known as ferric derisomaltose) and ferric carboxymaltose, on phosphate levels in patients with iron-deficiency anemia unresponsive to oral iron.

 Visual Abstract

444 Association Between Neurological Disorders and Death by Suicide in Denmark

A Erlangsen and Coauthors

This population epidemiology study uses Danish registry data to examine associations between neurological disorders and higher suicide rates from 1980 through 2016.

 CME

455 Association of Home Noninvasive Positive Pressure Ventilation With Clinical Outcomes in Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-analysis

ME Wilson and Coauthors

This meta-analysis of trials and observational studies evaluates the association of the use of home noninvasive positive pressure ventilation (NIPPV) via home mechanical ventilator (HMV) and bilevel positive airway pressure (BPAP) devices with clinical outcomes and adverse events in patients with chronic obstructive pulmonary disease (COPD) and hypercapnia.

Editorial **421**

 Available online

jama.com

Opinion

VIEWPOINT

409 Billing Quality Is Medical Quality

SC Mathews and MA Makary

 Audio

411 Evaluating the Potential Role of Social Media in Preventive Health Care

RM Merchant

413 Toward a Speech Neuroprosthesis

EF Chang and GK Anumanchipalli

 Video

415 A Prescription for Longevity in the 21st Century: Renewing Purpose, Building and Sustaining Social Engagement, and Embracing a Positive Lifestyle

PA Pizzo

A PIECE OF MY MIND

417 The Power of a Healing Lie

Rev CP Shu

In this narrative medicine essay, an Asian American hospital chaplain reviews the film *The Farewell*, which tells the story of a Chinese family taking elaborate measures to hide a cancer diagnosis from the family matriarch, and compares it to her own professional and personal experience.

EDITORIAL

419 Lack of Benefit of High-Dose Vitamin C, Thiamine, and Hydrocortisone Combination for Patients With Sepsis

AC Kalil

Related Article **423**

421 Home Noninvasive Ventilation for Patients With Chronic Obstructive Pulmonary Disease and Chronic Respiratory Failure

JM Coleman III, KL Gates, and R Kalhan

Related Article **455**


 Online at JAMA.com

MULTIMEDIA

 **Editor's Audio Summary:** Listen as editors discuss this week's issue

 **Audio:** Football Players and Erectile Dysfunction Associated With Repetitive Head Injury

 **Audio:** Management of Chronic Stable Angina in 2020

 **Audio:** Treating Conjunctivitis and Dry Eye Disease

 **Author Audio Interview:** Billing Quality Is Medical Quality

INSTRUCTIONS FOR AUTHORS

 jamanetwork.com/pages/for-authors

DEPARTMENTS

Staff Listing **399**

CME Questions **472**

Recruitment Advertising **483**

Contact Information **485**

CORRECTIONS 480



Editor in Chief
Howard Bauchner, MD

136 YEARS
OF CONTINUOUS
PUBLICATION

continued >

In This Issue: February 4, 2020

Clinical Review & Education

JAMA GUIDE TO STATISTICS AND METHODS

466 Using Propensity Score Methods to Create Target Populations in Observational Clinical Research
L Thomas, F Li, and M Pencina

This JAMA Guide to Statistics and Methods reviews how propensity score methods can be used with observational data to mimic comparison populations in a randomized trial and account for differences that might lead to biased conclusions.

JAMA CLINICAL GUIDELINES SYNOPSIS

468 Human Papillomavirus Vaccination for Adults: Updated Recommendations of the Advisory Committee on Immunization Practices (ACIP)
LD Oshman and AM Davis

This JAMA Clinical Guidelines Synopsis summarizes the Advisory Committee on Immunization Practices' 2019 updated recommendations for human papillomavirus vaccination for adults.

FROM THE MEDICAL LETTER ON DRUGS AND THERAPEUTICS

470 Drugs for Some Common Eye Disorders
This Medical Letter review summarizes drugs available for the treatment of bacterial conjunctivitis and dry eye disease, including detail on formulations, dosage, and cost.

 Audio

JAMA PATIENT PAGE

486 Causes of Memory Loss in Elderly Persons
CM Borelli, D Grennan, and CC Muth

This JAMA Patient Page describes different possible causes of memory loss, including neurodegenerative dementias and other conditions that may be reversible or permanent.

 Available online

jama.com

News & Analysis

MEDICAL NEWS & PERSPECTIVES

401 Backlash Over Meat Dietary Recommendations Raises Questions About Corporate Ties to Nutrition Scientists
R Rubin

This Medical News story examines the outcry over a recently published guideline that found insufficient evidence to recommend eating less red meat.

BENCH TO BEDSIDE

405 DNA Prime Editing: A New CRISPR-Based Method to Correct Most Disease-Causing Mutations
T Hampton

THE JAMA FORUM

406 Food Insecurity and a Threatened Safety Net
DJ Mason

NEWS FROM THE FOOD AND DRUG ADMINISTRATION

408 Another Targeted Therapy for ERBB2-Positive Breast Cancer
408 New Migraine Drug Gains Approval
408 FDA's New Effort to Improve Compounded Drug Quality

Humanities

POETRY AND MEDICINE

481 To Make a Living
M Tong

JAMA REVISITED

482 Life, Death—and Bacteria

Letters

RESEARCH LETTER

473 Self-reported Marijuana Use in Electronic Cigarettes Among US Youth, 2017 to 2018
H Dai

This population epidemiology study uses data from the National Youth Tobacco Survey to assess trends in self-reported use of marijuana in electronic cigarettes among US middle school and high school students from 2017 to 2018.

Related Article **475**

475 Trends in Reported Marijuana Vaping Among US Adolescents, 2017-2019
RA Miech and Coauthors

This national survey study uses Monitoring the Future data to characterize trends in the prevalence of marijuana vaping in 2017, 2018, and 2019 among 8th, 10th, and 12th graders.

Related Article **473**

COMMENT & RESPONSE

476 HIPAA in the Era of Data Sharing
CG Kels

In Reply

477 IG Cohen and MM Mello

Herd Protection Against Oral HPV Infection

477 R-Y Zhuang and H-G Xu

In Reply

478 AK Chaturvedi, BI Graubard, and ML Gillison

Measuring Clinical Importance in a Trial of Interventions for Mixed Urinary Incontinence

479 TA Furukawa

In Reply

479 VW Sung and MG Gantz
for the NICHHD Pelvic Floor Disorders Network