

## Research

### Bundled Payments and Quality Outcomes in Joint Replacement 1267

The Bundled Payments for Care Improvement (BPCI) initiative, a voluntary initiative of the Centers for Medicare & Medicaid Services, is testing whether linking payments for services provided during an episode of care can reduce Medicare payments while maintaining or improving quality. In an analysis of Medicare claims for lower extremity joint replacement before ( $n = 29\,441$ ) and after ( $n = 31\,700$ ) the BPCI initiative took effect, Dummit and colleagues found that Medicare payments declined more in BPCI-participating hospitals than in comparison hospitals, without significant change in quality outcomes. In an Editorial, Fisher discusses bundled payments as one approach to Medicare payment reform.

**E** Editorial 1262 Related Article 1258

**CME** [jamanetworkcme.com](http://jamanetworkcme.com)

### Time-to-Treatment, Outcomes of Endovascular Thrombectomy 1279

In a meta-analysis of data from 5 randomized trials (1287 patients) of endovascular thrombectomy in the treatment of large-vessel ischemic stroke, Saver and colleagues examined the association between time-to-treatment and patient outcomes. The authors report that compared with medical therapy alone, earlier treatment with endovascular thrombectomy was associated with a lower degree of disability at 3 months. Greatest benefit was observed when the time between symptom onset and arterial puncture for thrombectomy was less than 2 hours. In an Editorial, Warach and Johnston discuss implications of early time-to-treatment strategies for ischemic stroke.

**E** Editorial 1265

**A** Author Video Interview [jama.com](http://jama.com)

### LDL-C Lowering and Cardiovascular Risk Reduction 1289

Although clinical benefits of lowering low-density lipoprotein cholesterol (LDL-C) levels with statin therapy are widely accepted, benefits of nonstatin therapies are less clear. In a meta-analysis of data from 49 randomized clinical trials (312 175 participants) of LDL-C lowering therapies, Silverman and colleagues evaluated the association between LDL-C reduction and relative cardiovascular risk reduction across different statin and nonstatin therapies. The authors report that statin or nonstatin therapies that act via up-regulation of LDL receptor expression were associated with similar lower relative risks of major vascular events per change in LDL-C levels.

**CME** [jamanetworkcme.com](http://jamanetworkcme.com)



## Humanities

### The Art of JAMA

1244 *Sunset on the Sea*, 1872  
John Frederick Kensett (1816-1872)

### Poetry and Medicine

1320 *Passions in Every Room*

### JAMA Revisited

1321 *Polluting the Universe*

## Opinion

### Viewpoint

1252 *Pathways for Oxygen Regulation and Homeostasis: The 2016 Albert Lasker Basic Medical Research Award*  
WG Kaelin Jr, PJ Ratcliffe, and GL Semenza

1254 *Hepatitis C Virus—From Discovery to Cure: The 2016 Lasker-DeBakey Clinical Medical Research Award*  
RFW Bartenschlager, CM Rice, and MJ Sofia

1256 *Ensuring an Innovative and Productive Future for the Next Generation of Scientists: The 2016 Lasker-Koshland Special Achievement Award in Medical Science*  
B Alberts

1258 *The CMS Comprehensive Care Model and Racial Disparity in Joint Replacement*  
S Ibrahim, H Kim, and KJ McConnell

### A Piece of My Mind

1260 *It's Time to Change the Rules*  
PS Auerbach and WH Waggoner II

### Editorial

1262 *Evaluation of the Medicare Bundled Payment Initiative for Lower Extremity Joint Replacement*  
ES Fisher

1265 *Endovascular Thrombectomy for Ischemic Stroke: The Second Quantum Leap in Stroke Systems of Care?*  
S Warach and SC Johnston

## LETTERS

### Research Letter

1315 *Single-blind vs Double-blind Peer Review in the Setting of Author Prestige*  
K Okike and Coauthors

### Comment & Response

1317 *Use of Projection Analyses and Obesity Trends*

1317 *Aspirin and Acute Respiratory Distress Syndrome*

1318 *Emailing Test Results to Patients*

1319 *Correction*

Editor in Chief  
Howard Bauchner, MD

**133 YEARS**  
OF CONTINUOUS  
PUBLICATION

## Clinical Review & Education

### Response to Fluid Resuscitation in Hemodynamic Instability 1298

Overly aggressive fluid resuscitation can adversely affect outcomes among hemodynamically unstable patients. This article in The Rational Clinical Examination series by Bentzer and colleagues examines predictors of fluid responsiveness—defined as an increase in cardiac output following intravenous fluid administration—among hemodynamically unstable adult patients with refractory hypotension, signs of organ hypoperfusion, or both. Based on a review of 50 prospective studies of the diagnostic accuracy of tests to predict fluid responsiveness in this patient population, the authors report that passive leg raising followed by measurement of cardiac output or related parameters may be the most useful test to predict fluid responsiveness in hemodynamically unstable adults.

■ Author Audio Interview [jama.com](http://jama.com) CME [jamanetworkcme.com](http://jamanetworkcme.com)

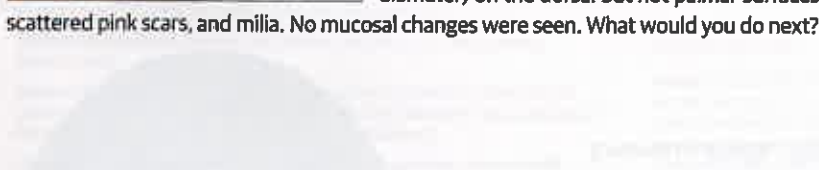
### Blood CEA for Detecting Colorectal Cancer Recurrence 1310

Monitoring of blood carcinoembryonic antigen (CEA) levels to identify colorectal cancer recurrence is recommended after primary curative treatment. Further evaluation is recommended if the blood CEA level rises above a threshold level; however, there is substantial variation in the threshold applied. This JAMA Clinical Evidence Synopsis article summarizes a Cochrane diagnostic test accuracy review (52 studies; 9717 patients total) of the diagnostic performance of CEA at different thresholds. Associations of CEA thresholds with recurrences, missed recurrences, and unnecessary referrals are reported.

### Painless Vesicular Eruption on Dorsal Surfaces of Hands 1312



A 67-year-old man presented with a 2-week history of painless, nonpruritic blisters on his hands that were unrelated to trauma, irritants, or known contact dermatitis. He has a long history of heavy smoking and alcohol consumption and a history of hypertension, which is treated with lisinopril. Examination of the hands revealed tense and mildly hemorrhagic vesicles (0.2-cm to 0.6-cm diameter) on the dorsal but not palmar surfaces, scattered pink scars, and milia. No mucosal changes were seen. What would you do next?



## JAMA Patient Page

1326 Diagnosis and Treatment of Pancreatic Cystic Neoplasms

## NEWS & ANALYSIS

### Medical News & Perspectives

1246 Zika: Worse Than Thalidomide?

1249 Health Agencies Update

Zika Vaccine Enters Clinical Trials

HHS Funds Development of Faster Zika Diagnostic Test

Final Rules for School Nutrition

### 1250 Clinical Trials Update

Surgery No Benefit to Patients With Meniscal Tears

Simple, Less Expensive Psychotherapy Effective for Depression

Telemonitoring Helps Keep Diabetes Under Control

### 1251 News From the CDC

Heart Health in the Workplace

Opiates Harm Newborns, Too

## ■ Online @ jama.com



### Editor's Audio Summary

Mary McGrae McDermott, MD, summarizes and comments on this week's issue.

### JAMA Professionalism

This new section is accompanied by audio case discussions providing in-depth analysis. Listen at <http://sites.jamanetwork.com/linked-audio/jpr160004audio1.html>.

### Author Interview

**VIDEO** Interview with Jeffrey L. Saver, MD, author of "Association Between Time to Treatment With Endovascular Thrombectomy and Outcomes From Large-Vessel Ischemic Stroke"

**AUDIO** Interview with Najib T. Ayas, MD, MPH, author of "Will This Hemodynamically Unstable Patient Respond to a Bolus of Intravenous Fluids?"

### Departments

1237 Staff Listing

1314 CME Questions

1323 Classified Advertising

1324 Journal Advertiser Index

1325 Contact Information

### Instructions for Authors

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