

Research

Genotype-Guided Warfarin Dosing

1115

Warfarin dose requirements vary widely, resulting in frequent emergency department visits for adverse events. Gage and colleagues randomized 1650 patients undergoing elective hip or knee arthroplasty who were treated with perioperative warfarin and found that genotype-guided warfarin dosing reduced the combined risk of major bleeding, international normalized ratio of 4 or greater, venous thromboembolism, or death. In an Editorial, Emery acknowledges that genotype-guided algorithms may decrease the harms of anticoagulation, but suggests that clinical dosing algorithms are likely to be simpler and less expensive.

Editorial 1110

Low-Dose Oxygen Supplementation in Adults With Acute Stroke

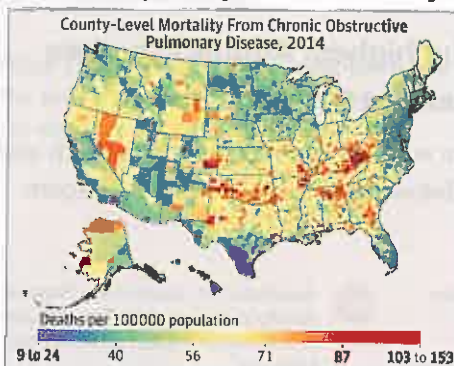
1125

Supplemental oxygen for patients with stroke might prevent hypoxia and secondary brain damage but could also have adverse effects such as vasoconstriction and pulmonary toxicity. In a randomized clinical trial of 8003 nonhypoxic patients with acute stroke, Roffe and colleagues found that low-dose oxygen supplementation did not reduce death or disability at 3 months.

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Chronic Respiratory Disease Mortality in the United States

1136



Geographically precise annual estimates of chronic respiratory disease mortality might illuminate health disparities. Dwyer-Lindgren and colleagues estimated age-standardized mortality rates by county for 4 616 711 deaths due to chronic respiratory diseases and identified disparities in mortality rates by county, sex, and diagnosis. In an Editorial, Mannino and Sanderson recommend major investments in smoking cessation and the prevention

of harmful occupational exposures, as well as the development of disease-modifying treatments to prevent progression to disability and death.

Editorial 1113

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CS Halberstadt

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GW Daniel, M Schneider, and MB McClellan

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VM Ranieri, D Brodie, and J-L Vincent

A Piece of My Mind

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H Bauchner

1110 Pharmacogenomic Testing and Warfarin: What Evidence Has the GIFT Trial Provided?
JD Emery

1113 Using Big Data to Reveal Chronic Respiratory Disease Mortality Patterns and Identify Potential Public Health Interventions
DM Mannino and WT Sanderson

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1188 Correction

Editor in Chief
Howard Bauchner, MD

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Research (continued)

Biotin Ingestion and Interference With Immunoassays 1150

Ingestion of nutritional supplements containing biotin might decrease the accuracy of immunoassays that rely on biotin binding to detect low levels of analytes. In a preliminary study by Li and colleagues of 6 healthy adult participants and 11 hormone and nonhormone analytes measured by 37 immunoassays, ingesting 10 mg/d of biotin for 1 week was associated with clinically important assay interference.

Clinical Review & Education

Delirium in Older Adults 1161

Delirium is a life-threatening but often preventable complication of acute illness, surgery, or hospitalization. Oh and colleagues review the clinical management of delirium, with an emphasis on nonpharmacologic approaches.

■ Author Audio Interview jama.com CME jamanetwork.com/learning

Diagnosing Invasive Aspergillosis 1175

This JAMA Diagnostic Test Interpretation article by Miceli and Kauffman presents a 67-year-old man receiving prednisone for granulomatous polyangiitis who was hospitalized with a 2-week history of worsening dyspnea and dry cough. Blood and bronchoalveolar lavage fluid were evaluated for suspected invasive pulmonary aspergillosis. How do you interpret the results?

From The Medical Letter: Long-term Use of Proton Pump Inhibitors 1177

This *Medical Letter on Drugs and Therapeutics* discusses the safety of proton pump inhibitors when taken for months or years.



JAMA Patient Page 1198 Electrical Injury

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Injectable Buprenorphine Halts Effects of Opioids and May Deter Abuse

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Increase in Epilepsy Cases
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Editor's Audio Summary

Edward H. Livingston, MD, summarizes and comments on this week's issue.

Author Interview



AUDIO Interview with Tammy T. Hsieh, MD, MPH, Esther S. Oh, MD, PhD, and Sharon K. Inouye, MD, MPH, authors of "Delirium in Older Persons: Advances in Diagnosis and Treatment"

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