

Research

Antibiotic Prophylaxis for Removal of Orthopedic Implants **2438**

Rates of surgical site infection after removal of orthopedic implants have been unexpectedly high. In a trial of 470 patients who were undergoing removal of orthopedic implants, Manouk and colleagues found that a single preoperative dose of intravenous cefazolin, compared with saline, did not reduce this risk.

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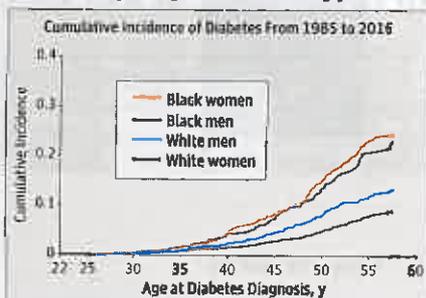
Mortality Risk of Short-term Exposure to Air Pollution **2446**

US air quality standards are periodically reevaluated in light of new scientific evidence. Di and colleagues conducted a case-crossover study of more than 22 million deaths in the US Medicare population and found that short-term exposures to fine particulate matter and ozone were associated with mortality at levels below current standards. In an Editorial, Zhang recommends cleaner energy production to reduce ambient emissions and suggests that personalized protection strategies may decrease individual susceptibility.

Editorial 2431

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Racial Disparity in Risk for Type 2 Diabetes **2457**



Black adults in the United States are nearly twice as likely as white adults to develop type 2 diabetes. In a study by Banks and colleagues of 4251 black and white adults aged 18 to 30 years followed up for a mean of 24.5 years, racial differences in the incidence of type 2 diabetes were explained by modifiable risk factors such as body mass index, employment, education, and residential segregation.



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Editor in Chief
Howard Bauchner, MD

134 YEARS
OF CONTINUOUS
PUBLICATION

Research (continued)

Calcium or Vitamin D Supplementation and Fracture Incidence 2466

Practice guidelines recommend calcium and vitamin D supplements for older adults to prevent osteoporosis-related fractures. In a review of 33 randomized trials involving 51145 community-dwelling older adults, Zhao and colleagues found that supplements containing calcium or vitamin D did not decrease fracture risk.

Clinical Review & Education

Sports-Related Eye Injuries 2483

A recent article in *JAMA Ophthalmology* reported that patients presenting to an emergency department with impaired vision were often injured by paintballs or air guns. In this From the JAMA Network article, Pieramici discusses the importance of eye protection in sports and leisure activities.

Insulin Dosing Error in a Patient With Severe Hyperkalemia 2485

This article in the JAMA Performance Improvement series explores the case of a patient who received an overdose of insulin while being treated for hyperkalemia. Hewitt and colleagues discuss systematic improvements in hospital procedures to prevent similar errors.

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

Guselkumab for Psoriasis 2487

This Medical Letter on Drugs and Therapeutics discusses the safety and efficacy of the interleukin-23 blocker guselkumab for the treatment of moderate to severe plaque psoriasis.



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Editor's Audio Summary

Howard Bauchner, MD, summarizes and comments on this week's issue.

Author Interview



AUDIO Interview with Cynthia Barnard, PhD, MBA, author of "Insulin Dosing Error in a Patient With Severe Hyperkalemia," Lara K. Ellinger, PharmD, BCPS, and Keith Hemmert, MD

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