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377 To the point: undergraduate medical education learner mistreatment issues on the learning environment in the United States
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 The problem of learner mistreatment on obstetrics and gynecology clerkships is reviewed, and institutional and clerkship-level solutions are suggested.

383 Placental colonization with periodontal pathogens: the potential missing link
 Lori A. Fischer; Ellen Demerath; Peter Bittner-Eddy; Massimo Costalonga
 Placental colonization with periodontal pathogens may explain the association of periodontitis with adverse pregnancy outcomes and the failure of dental therapy to reduce such outcomes.

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393 Fat mass changes during menopause: a metaanalysis
 Ananthan Ambikairajah; Erin Walsh; Hossein Tabatabaei-Jafari; Nicolas Cherbuin
 Attention should be paid to the accumulation of central fat after menopause, whereas increases in total fat mass should be monitored consistently across the lifespan.

410 Laparoscopic and robotic hysterectomy in endometrial cancer patients with obesity: a systematic review and meta-analysis of conversions and complications
 Maria C. Cusimano; Andrea N. Simpson; Fahima Dossa; Valentina Liani; Yuvreet Kaur; Sergio A. Acuna; Deborah Robertson; Abheha Satkunaratnam; Marcus Q. Bernardini; Sarah E. Ferguson; Nancy N. Baxter
 This systematic review suggests that robotic surgery may offer clinical benefit over conventional laparoscopy in patients with endometrial cancer and morbid obesity who undergo primary hysterectomy.

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AJOG EPONYMS

Woods screw maneuver for shoulder dystocia (1943)

At a meeting of the New York Academy of Medicine in May 1942, C. E. Woods, MD, an obstetrician working at hospitals in Mineola and Hempstead, NY, noted that, as he later wrote, “both in teaching and in practice, it would appear that disaster attributable only to difficulty in shoulder delivery is to be accepted as an unavoidable incident.”

To counter this presumption, Dr Woods, drawing on a law of physics, designed “a simple, easily taught, working principle or plan” applicable to all shoulder delivery problems. He laid out his technique, to become known as the Woods screw maneuver for shoulder dystocia, in the Journal in 1943.¹

Once the baby’s head has emerged, Dr Woods wrote, the shoulders “resemble a longitudinal section of a screw engaged in three threads”: pubic, promontory, and coccyx. “Any pulling on the baby’s neck or axilla,” he observed, “is mechanically incorrect because it violates a simple, well-known law of physics applicable to the screw.”

The article, with photographs featuring a wooden manikin, is available with other “AJOG Eponyms” under the Collections tab at ajog.org.

REFERENCE

1. Woods CE. A principle of physics as applicable to shoulder delivery. 1943;45:796-804.

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429 Progestogens for the prevention of preterm birth and risk of developing gestational diabetes mellitus: a meta-analysis

Vasilios Pergialiotis; Ioannis Bellos; Erifili Hatziagelaki; Aris Antsaklis; Dimitrios Loutradis; George Daskalakis

The present meta-analysis reveals evidence that indicates that women who receive 17-alpha hydroxyprogesterone caproate are at increased risk of developing gestational diabetes mellitus.

CLINICAL OPINION

437 Placental bed research: I. The placental bed: from spiral arteries remodeling to the great obstetrical syndromes

Ivo Brosens; Patrick Puttemans; Giuseppe Benagiano

The first of two articles on the study of the placental bed is featured.

457 Placental bed research: II. Functional and immunological investigations of the placental bed

Lynda K. Harris; Marisa Benagiano; Mario M. D'Elis; Ivo Brosens; Giuseppe Benagiano

Pregnancy is now being recognized as a biological stress test, whereby undiagnosed or subclinical levels of cardiovascular disease or altered immune responses may predispose pregnant women to complications; clinical management should therefore involve consideration of future cardiovascular disease risk for both affected mothers and their offspring.

ORIGINAL RESEARCH

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GYNECOLOGY

470 Preconception blood pressure and time to pregnancy among couples attempting to conceive their first pregnancy

Xiang Hong; Jun Zhao; Kaiping Huang; Qiaoyun Dai; Hongguang Zhang; Yan Xuan; Jingwei Wu; Shenghao Fang; Qiaomei Wang; Haiping Shen; Zongyu Xu; Yiping Zhang; Donghai Yan; Daxun Qi; Xueying Yang; Yue Zhang; Xu Ma; Bei Wang

Abnormal preconception blood pressure levels of couples were associated with prolonged time to pregnancy.

472 Biomarker panel for early detection of endometrial cancer in the Prostate, Lung, Colorectal, and Ovarian cancer screening trial



Christopher M. Tarney; Guisong Wang; Nicholas W. Bateman; Kelly A. Conrads; Ming Zhou; Brian L. Hood; Jeremy Loffredo; Chunqiao Tian; Kathleen M. Darcy; Chad A. Hamilton; Yovanni Casablanca; Anna Lokshin; Thomas P. Conrads; G. Larry Maxwell

A biomarker panel consisting of 6 proteins distinguished endometrial cancer cases from controls ≤ 2 years from diagnosis using prediagnostic serum.

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ORIGINAL RESEARCH *(continued)***474 National patterns of care and fertility outcomes for reproductive-aged women with endometrial cancer or atypical hyperplasia**

Ross F. Harrison; Weiguo He; Shuangshuang Fu; Hui Zhao; Charlotte C. Sun; Rudy S. Suidan; Terri L. Woodard; J. Alejandro Rauh-Hain; Shannon N. Westin; Sharon H. Giordano; Larissa A. Meyer

Fertility-conserving treatment for women with endometrial cancer or atypical hyperplasia has increased, although relatively few of these women experience live births following these diagnoses.

476 Advanced paternal age and the risk of spontaneous abortion: an analysis of the combined 2011–2013 and 2013–2015 National Survey of Family Growth

Brian T. Nguyen; Erica J. Chang; Kristin A. Bendikson

Based on NSFG data, advanced paternal age may increase the odds of spontaneous abortion, independent of select factors, including demographics, pregnancy intention, and maternal age.

478 Second primary anal and oropharyngeal cancers in cervical cancer survivors

Katyayani Papatla; Michael T. Halpern; Enrique Hernandez; Jennifer Brown; Daniel Benrubi; Karen Houck; Christina Chu; Stephen Rubin

Cervical cancer survivors have a substantially increased risk of HPV-associated anal and oropharyngeal cancers that persists 10 or more years after cervical cancer diagnosis.

480 The relationship of defecation symptoms and posterior vaginal wall prolapse in women undergoing pelvic organ prolapse surgery

Päivi K. Karjalainen; Nina K. Mattsson; Kari Nieminen; Anna-Maija Tolppanen; Jyrki T. Jalkanen

Posterior vaginal wall prolapse is an important contributing factor behind obstructive defecation symptoms measured by the short form of the Pelvic Floor Distress Inventory.

483 Learning curve of robot-assisted laparoscopic sacrocolpo(recto)pexy: a cumulative sum analysis

Femke van Zanten; Steven E. Schraffordt Koops;

Pieter C. M. Pasker-De Jong; Egbert Lenters; Henk W. R. Schreuder

We defined a learning curve for robot-assisted sacrocolpo(recto)pexy with aid of cumulative sum analysis; proficiency was obtained after 78 cases.

485 Surgical outcomes in patients with anti-N-methyl D-aspartate receptor encephalitis with ovarian teratoma

Yi Dai; Junji Zhang; Haitao Ren; Xingnan Zhou; Juan Chen; Liying Cui; Jinghe Lang; Hongzhi Guan; Dawei Sun

Twenty-nine cases of anti-N-methyl-D-aspartate receptor (NMDAR) encephalitis with ovarian teratoma in a prospective cohort were analyzed for their characteristics, clinical symptoms, ovarian teratoma, and significance of laparoscopic ovarian cyst removal.

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OBSTETRICS

487 The transition from latent to active labor and adverse obstetrical outcomes



Joshua I. Rosenbloom; Candice L. Woolfolk; Leping Wan; Molly J. Stout; Methodius G. Tuuli; George A. Macones; Alison G. Cahill

Patients whose dilation time from 4 to 6 cm exceeds the 90th percentile have increased risks for cesarean delivery and maternal and neonatal complications.

489 Maternal drug-related death and suicide are leading causes of postpartum death in California



Sidra Goldman-Mellor; Claire E. Margerison

Drug-related and suicide deaths comprised 54 of 300 postpartum deaths during 2010–2012 in California women (18%), with mortality risk concentrated among socioeconomically disadvantaged and non-Hispanic white women.

491 Association between stillbirth ≥ 23 weeks gestation and acute psychiatric illness within 1 year of delivery

Adam K. Lewkowitz; Joshua I. Rosenbloom; Matt Keller; Julia D. López; George A. Macones; Margaret A. Olsen; Alison G. Cahill

The risk of need for acute psychiatric care within 1 year of delivery is nearly 2.5 times higher after stillborn singleton vs liveborn singleton births.

493 Characteristics and mode of inheritance of pathogenic copy number variants in prenatal diagnosis

Matthew Hoi Kin Chau; Ye Cao; Yvonne Ka Yin Kwok; Samantha Chan; Yiu Man Chan; Huilin Wang; Zhenjun Yang; Hoi Kin Wong;

Tak Yeung Leung; Kwong Wai Choy

Pathogenic copy number variants are common amongst high-risk pregnancies and most of them are beyond the detection limit of standard NIPS.

495 Size and shape of the four-chamber view of the fetal heart in fetuses with an estimated fetal weight less than the tenth centile

John C. Hobbins; Diane L. Gumina; Michael V. Zaretsky; Camille Driver; Annabelle Wilcox; Gregory R. DeVore

The 4-chamber image of the fetal heart was examined in fetuses with an estimated fetal weight $<10^{\text{th}}$ centile and found to be abnormal in size and shape.

498 Assessment of ventricular contractility in fetuses with an estimated fetal weight less than the tenth centile

Greggory R. DeVore; Diane L. Gumina; John C. Hobbins

Abnormal right and left ventricular contractility of the fetal heart was identified in fetuses with an estimated fetal weight less than the 10th centile.

502 Cyclic-recombinase-reporter mouse model to determine exosome communication and function during pregnancy

Samantha Sheller-Miller; Kyungsun Choi; Chulhee Choi; Ramkumar Menon

Using a transgenic dual-color Cre-reporter mouse, we developed a model to investigate feto-maternal exosome crosstalk during pregnancy.

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MEETING PAPERS

SGS SELECTED PAPERS FROM THE 45TH ANNUAL MEETING OF THE SOCIETY FOR GYNECOLOGIC SURGEONS

505 A cost-minimization analysis of treatment options for postmenopausal women with dysuria

Megan S. Bradley; Richard H. Beigi; Jonathan P. Shepherd

The least costly strategy for treatment of postmenopausal women with dysuria is empiric antibiotic therapy with trimethoprim/sulfamethoxazole, followed by waiting on urine culture results before treatment.

507 Catheter burden following urogynecologic surgery

Alexis A. Dieter; Jennifer M. Wu; Jessica L. Gage; Katherine M. Feliciano; Marcella G. Willis-Gray

In women with voiding dysfunction after urogynecologic surgery, there was no difference in catheter burden when we compared indwelling Foley catheter and intermittent self-catheterization.

509 Characterizing anxiety at the first encounter in women presenting to the clinic: the CAFÉ study

Thythy T. Pham; Yufan B. Chen; William Adams; Birte Wolff; Megan Shannon; Elizabeth R Mueller

This study characterizes the anxiety in women about their initial urogynecologic consultation and the factors that contribute to anxiety improvement during the encounter.

511 Multimodal opioid-sparing postoperative pain regimen compared with the standard postoperative pain regimen in vaginal pelvic reconstructive surgery: a multicenter randomized controlled trial

Andrey Petrikovets; David Sheyn; Helen H. Sun; Graham C. Chapman; Sangeeta T. Mahajan; Robert R. Pollard; Sherif A. El-Nashar; Adonis K. Hijaz; Jeffrey Mangel

Multimodal opioid-sparing postoperative pain regimen offers improved pain control after vaginal pelvic reconstructive surgery compared with the standard opioid-based regimen.

513 Sacral neuromodulation versus onabotulinumtoxinA for refractory urgency urinary incontinence: impact on fecal incontinence symptoms and sexual function

Uduak U. Andy; Cindy L. Amundsen; Emily Honeycutt; Alayne D. Markland; Gena Dunivan; Keisha Y. Dyer; Nicole B. Korbly; Megan Bradley; Sandip Vasavada; Donna Mazloomdoost; Sonia Thomas; on behalf of the NICHD Pelvic Floor Disorders Network

In women with refractory urgency urinary incontinence, treatment with onabotulinumtoxinA and sacral neuromodulation result in similar improvements in fecal incontinence and sexual symptoms.

515 Assessing the impact of procedure-specific opioid prescribing recommendations on opioid stewardship following pelvic organ prolapse surgery

Brian J. Linder; John A. Occhino; Sheila R. Wiest; Christopher J. Klingele; Emanuel C. Trabuco; John B. Gebhart

Using procedure-specific opioid prescribing recommendations, we decreased the number of opioids prescribed at hospital dismissal by roughly one half, without adversely impacting patient satisfaction.

MEETING PAPERS *(continued)***517** A randomized, double-blind, placebo-controlled trial of onabotulinumtoxin A trigger point injections for myofascial pelvic pain

Sybil G. Dessie; Emily Von Bargen; Michele R. Hacker; Miriam J. Haviland; Eman Elkadry

Onabotulinumtoxin A injection into the pelvic floor muscles for myofascial pelvic pain was not more effective at decreasing muscle pain than saline injection.

519 Anatomy, histology, and nerve density of clitoris and associated structures: clinical applications to vulvar surgery

Lindsey A. Jackson; Adam M. Hare; Kelley S. Carrick; Denise M. O. Ramirez; Jennifer J. Hamner; Marlene M. Corton

A thorough knowledge of anatomy, innervation, and tissue composition of the clitoris and associated structures is critical in patient counseling, surgical planning, and avoidance of surgical complications.

521 A novel measurement of pelvic floor cross-sectional area in older and younger women with and without prolapse

Anne G. Sammarco; David D. Sheyn; Tessa E. Krantz; Cedric K. Olivera; Antonio A. Rodrigues; Ms. Emily K. Kobernik; Mariana Masteling; John O. Delancey

The novel measurement of anterior pelvic area takes into consideration muscular and bony aspects of the pelvic floor and is larger in older women with prolapse.

523 Surgeon volume and reoperation risk after midurethral sling surgery

Alexander A. Berger; Jasmine Tan-Kim; Shawn A. Menefee

Higher-volume surgeons have lower reoperation rates after midurethral sling surgery.

IMAGES IN OBSTETRICS

524 Intravesical pregnancy due to vesicouterine fistula

Sandro Santos Fenelon; Públio Cesar Cavalcante Viana; Guilherme Orpinelli Ramos do Rego

A 36-year-old woman with a history of cyclic recurrent hematuria and chronic pelvic pain is diagnosed with vesicouterine fistula with a herniated sac-like mass in the bladder.

SURGEON'S CORNER

525 Surgical management of neuroproliferative-associated vestibulodynia: a tutorial on vestibulectomy with vaginal advancement flap

Catherine Wu; Andrew Goldstein; Jordan S. Klebanoff; Gaby N. Moawad

Vestibulectomy is the treatment of choice when conservative therapies have failed in reducing pain from neuroproliferative-associated vestibulodynia.

RESEARCH LETTERS

527 Feasibility and acceptability of home use of a smartphone-based urine testing application among women in prenatal care

Anne E. Burke; Katrina M. Thaler; Mika Geva; Yonatan Adiri

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528 Routine screening of pregnant women for Zika virus in the setting of local transmission—Miami—Dade County, Florida, 2016–2017

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Carlos R. Oliveira; Hillary Hosier; Blake Pate; Linda M. Niccolai; Sangini S. Sheth; Alla Vash-Margita

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533 Strengthening opioid use disorder training among obstetrician-gynecologists: Hollander et al's call to action

Gregory T. Woods; Stephanie L. Lim; Julia R. Salinaro

533 Incorporating the probability of competing event(s) into the preeclampsia competing risk algorithm

David A. Krantz; Terrence W. Hallahan

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535 Uterine legacy of open maternal–fetal surgery: preterm uterine rupture

Ramen H. Chmait; Eftichia V. Kontopoulos; Rubén A. Quintero

536 Magnetic resonance imaging for placenta accreta: hope for the future

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537 Minimally invasive surgery for early-stage cervical cancer: is the uterine manipulator a risk factor?

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Koji Matsuo; Alexander Melamed; Jason D. Wright

CORRECTIONS

504 Ferguson KK, McElrath TF, Chen Y-H, et al. Repeated measures of urinary oxidative stress biomarkers during pregnancy and preterm birth. *Am J Obstet Gynecol* 2015;212:208.e1-8.

A table in each of 2 original research articles, published in the Journal in February 2015 and May 2017, that presented findings from the same research group contained minor erroneous data labeling due to a coding error in the dataset.

CORRECTIONS *(continued)*

504 February 2019 (vol. 220, no. 2, pages 199.e1-13)

An original research article on preeclampsia screening published in the February 2019 issue spelled out an abbreviated study name incorrectly, provided an incomplete description of support supplied for the study, and omitted the second academic affiliation of a coauthor.

SOCIETY FOR MATERNAL-FETAL MEDICINE

B2 The Society for Maternal-Fetal Medicine (SMFM) Fetal Anomalies Consult Series



Society for Maternal-Fetal Medicine; Joanne E. Stone; Jeffrey A. Kuller; Mary E. Norton; Alfred Abuhamad

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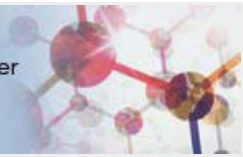
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November 2019 Financing Health Care

This issue features a special dossier on different models for financing health care, including single-payer, multi-payer, and state-based models. The issue also includes research and perspectives on the forces behind the adoption of Tobacco 21 policies in the US, myths about health insurance claims, late-stage HIV diagnoses in the US, and more.

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Studies suggest that drug prices vary widely across retail pharmacies. In this study, researchers used drug pricing data from GoodRx to describe cash prices across categories of retail pharmacies throughout the United States for commonly used generic and brand-name drugs.

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R.G. Meester, I. Lansdorp-Vogelaar, S.J. Winawer, A.G. Zauber, A.B. Knudsen, and U. Ladabaum

Robust evidence suggests that screening substantially reduces risk for death due to colorectal cancer through removal of precancerous adenomas and early detection, but few outcome data exist to inform appropriate management of patients in whom adenomas have been removed. In this study, the authors used a microsimulation model to compare the lifetime benefits and costs of high- versus low-intensity surveillance among patients with low- or high-risk adenomas removed after screening with colonoscopy or fecal immunochemical testing.

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J.A. Watt, Z. Goodarzi, A.A. Veroniki, V. Nincic, P.A. Khan, M. Ghassemi, Y. Thompson, A.C. Tricco, and S.E. Straus

This network meta-analysis of 163 randomized trials compares the efficacy of pharmacologic and nonphar-

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A. Qaseem, C.J. Crandall, R.A. Mustafa, L.A. Hicks, and T.J. Wilt
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Long-term anticoagulation with vitamin K antagonists (VKAs) is the standard of care for preventing thrombosis in patients with antiphospholipid antibody syndrome (APS), but VKAs require frequent monitoring and are associated with food and drug interactions. This 3-year randomized controlled trial compared the efficacy and safety of a newer oral anticoagulant versus dose-adjusted VKAs in patients with APS.

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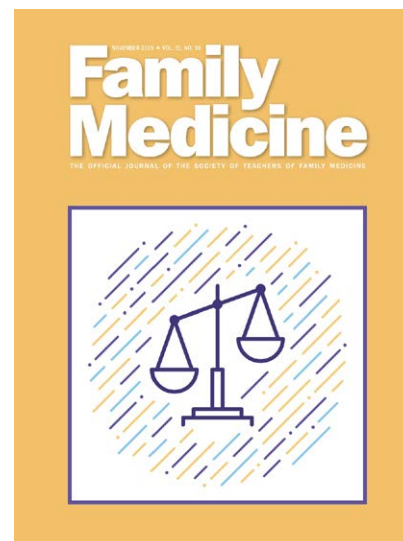
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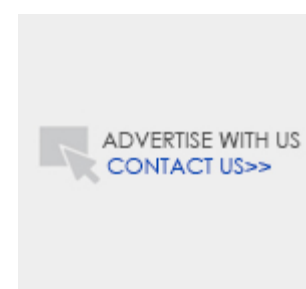
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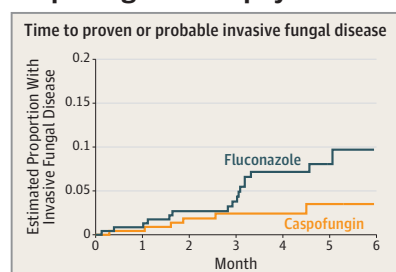
Lefamulin for Community-Acquired Bacterial Pneumonia 1661

Because of fluoroquinolone-associated safety concerns and high rates of bacterial resistance, new treatment options are needed for patients with community-acquired bacterial pneumonia. Alexander and colleagues randomized 738 patients with community-acquired bacterial pneumonia and found that lefamulin was noninferior to moxifloxacin for the outcome of early clinical response.

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Caspofungin for Prophylaxis of Invasive Fungal Disease 1673



Patients receiving intensive chemotherapy for acute myeloid leukemia are at high risk of invasive fungal disease. In a randomized trial by Fisher and colleagues that enrolled 517 participants with acute myeloid leukemia, prophylaxis with caspofungin, compared with fluconazole, resulted in a significantly lower incidence of proven or probable invasive fungal disease.

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Genomic Associations With Primary Open-Angle Glaucoma 1682

Primary open-angle glaucoma is more common and more severe in patients of African ancestry, but genetic variants have not been identified in this disproportionately affected population. In a genome-wide association study of 2320 individuals with primary open-angle glaucoma and 2121 control individuals, the Genetics of Glaucoma in People of African Descent Consortium found that variations at the *APBB2* locus were associated with primary open-angle glaucoma by ancestry.

✚ Related Article 1705



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1721 The Hospital Mail
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1722 The Relationship Between Herpes Zoster, Syphilis and Chickenpox

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1718 Correction

Editor in Chief
Howard Bauchner, MD

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Research (continued)

CARING FOR THE CRITICALLY ILL PATIENT

End-of-Life Practices in European Intensive Care Units

1692

European guidelines for end-of-life practices have changed over the past decade. Sprung and colleagues conducted a prospective observational study of 13 625 patients who had treatment limitations or died in 22 European intensive care units in 2015-2016 and found that limitations in life-prolonging therapies occurred significantly more frequently and death without limitations in life-prolonging therapies occurred significantly less frequently than in the period 1999-2000. An Editorial by Cox and colleagues discusses opportunities for improving the quality of patient-centered end-of-life care.

📖 Editorial 1655

➕ CME jamanetwork.com/learning

Clinical Review & Education

Surveying the Human Genome

1705

In this JAMA Guide to Statistics and Methods, Guo and Rotter explain how genome-wide association studies home in on genes that may affect the likelihood of disease.

📖 Related Article 1682

CLINICAL UPDATE

Clinical Management of Adolescents With Obesity

1707

Adolescence is a critical period for managing obesity. This JAMA Insights article by Cardel and colleagues discusses an integrated continuum of care that begins with the least invasive treatment.

Lefamulin for Community-Acquired Bacterial Pneumonia

1709

Lefamulin is a pleuromutilin antibiotic that inhibits bacterial protein synthesis. This Medical Letter on Drugs and Therapeutics discusses the efficacy and safety of lefamulin for the treatment of community-acquired bacterial pneumonia.

📖 Related Articles 1661



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1728 What Is Dementia?

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"Oral Lefamulin vs Moxifloxacin for Early Clinical Response Among Adults With Community-Acquired Bacterial Pneumonia: The LEAP 2 Randomized Clinical Trial" and "Effect of Caspofungin vs Fluconazole Prophylaxis on Invasive Fungal Disease Among Children and Young Adults With Acute Myeloid Leukemia: A Randomized Clinical Trial"

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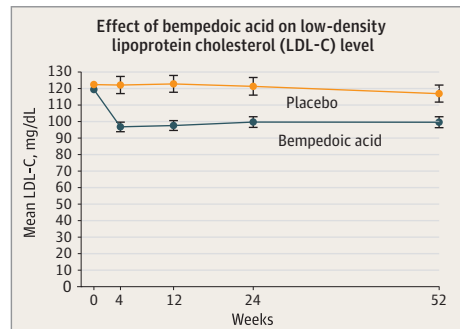
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Research

Adding Bempedoic Acid to Statin Therapy

1780



Clinical guidelines recommend that patients with atherosclerotic cardiovascular disease (ASCVD) who do not achieve sufficient reductions in low-density lipoprotein cholesterol (LDL-C) with statin therapy should also be treated with nonstatin agents. Goldberg and colleagues randomized 779 patients with ASCVD or familial hypercholesterolemia who were receiving maximally tolerated statins and

found that the addition of bempedoic acid resulted in a significant lowering of LDL-C over 12 weeks. In an Editorial, Honigberg and Natarajan note that clinical guidelines have endorsed stringent LDL-C reduction for patients at high risk for ASCVD.

Editorial 1769

Visual Abstract [jama.com](https://jamanetwork.com)

Survival Benefit of Heart Transplant Centers

1789

In the United States, heart transplant centers select candidates for transplant and provide advanced therapies for heart failure. Parker and colleagues conducted a registry-based study of 29 199 heart transplant candidates and found that transplant center was associated with the survival benefit of transplant. In an Editorial, Sandhu and colleagues suggest that risk scoring and regionalization may improve the allocation of donor hearts.

Editorial 1772

CME jamanetwork.com/learning

Resynchronization for Chemotherapy-Induced Cardiomyopathy

1799

Chemotherapy-induced cardiomyopathy (CHIC) with abnormal electrical activation of the ventricles has a poor prognosis. Singh and colleagues conducted a prospective cohort study of 30 patients with CHIC and found that cardiac resynchronization therapy was associated with improvement in left ventricular ejection fraction after 6 months. In an Editorial, Meijers and Moslehi suggest that future studies should identify cancer survivors who have an increased risk of developing cardiovascular disease.

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Clinical Review & Education

Interpreting Articles About Machine Learning 1806

Machine learning algorithms are derived from patterns in sets of “training” data for the purpose of generating predictions. In this JAMA User’s Guide to the Medical Literature, Liu and colleagues discuss the validation and implementation of machine learning models for clinical medicine. In an Editorial, Doshi-Velez and Perlis discuss the potential usefulness of machine learning algorithms for certain clinical tasks.

Viewpoint 1765 Editorial 1777

CME jamanetwork.com/learning

Primary Prevention of Cardiovascular Disease 1817

In this JAMA Clinical Guidelines Synopsis of a 2019 guideline developed by the American College of Cardiology and the American Heart Association, Jain and Davis discuss team-based, risk-centered approaches to the primary prevention of cardiovascular disease.

Clinical Management of Atrial Fibrillation 1819

The treatment of atrial fibrillation is based on a strategy of anticoagulation, rate control, and rhythm control. This Medical Letter on Drugs and Therapeutics reviews therapeutic options for the treatment of atrial fibrillation.

Audio Interview jama.com



JAMA Patient Page

1836 Testing for Nonalcoholic Fatty Liver Disease

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Author Audio Interview



S. Claiborne Johnston, MD, PhD, author of “The Risk and Cost of Limited Clinician and Patient Accountability in Health Care”

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“Effect of Bempedoic Acid vs Placebo Added to Maximally Tolerated Statins on Low-Density Lipoprotein Cholesterol in Patients at High Risk for Cardiovascular Disease: The CLEAR Wisdom Randomized Clinical Trial”

Audio Interview

Sandip Mukherjee, MD, Yale New Haven Hospital, discusses atrial fibrillation.

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Research

Delayed Cord Clamping and Maternal Blood Loss

1869

Delayed umbilical cord clamping is associated with improved birth outcomes for term infants, but the evidence for maternal outcomes is less clear. Purisch and colleagues randomized 113 women undergoing scheduled cesarean delivery and found that delayed umbilical cord clamping, compared with immediate cord clamping, resulted in no significant difference in the change in maternal hemoglobin at postoperative day 1. In an Editorial, Rabe and Andersson suggest that evidence-based techniques for placental transfusion should be standardized.

Editorial 1864 Related Article 1877

Visual Abstract [jama.com](https://jamanetwork.com)

Outcomes of Placental Transfusion for Preterm Infants

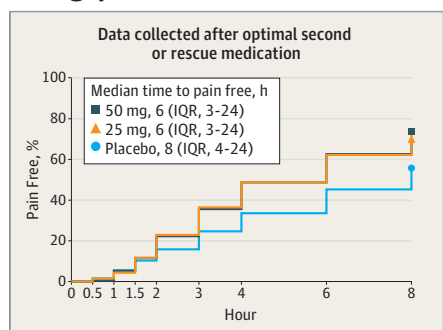
1877

Delayed cord clamping provides a placental transfusion to the newborn, but umbilical cord milking takes less time and allows resuscitation to begin promptly. Katheria and colleagues randomized 540 preterm infants to receive umbilical cord milking or delayed cord clamping and found no statistically significant difference in the rate of a composite outcome of death or severe intraventricular hemorrhage, but did find a statistically significantly higher rate of severe intraventricular hemorrhage in the umbilical cord milking group.

Editorial 1864 Related Article 1869

Ubrogepant for the Acute Treatment of Migraine

1887



Many patients have contraindications to the available migraine pharmacotherapies, experience adverse effects, or continue to have pain and other symptoms while receiving treatment. Lipton and colleagues randomized 1686 adults with migraine and found that acute treatment with ubrogepant, compared with placebo, led to significantly greater rates of pain freedom at 2 hours with 50-mg and 25-mg doses, and absence of the most

bothersome migraine-associated symptom with the 50-mg dose.

CME jamanetwork.com/learning



Image courtesy of Columbia Records

Humanities

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1846 Memoir of an Undeadhead—A Blood Transfusion Pathologist's Vampire Weekend Romance
MJ Miller

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HC Meissner

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NN Sawicki

1920 Provision of Insurance Coverage for IVF by a Large Employer and Changes in IVF Rates Among Health Plan Enrollees
JM Dupree and Coauthors

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1923 Family Visitation Policies in the ICU and Delirium

1925 Correction

Editor in Chief
Howard Bauchner, MD

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Research (continued)

Vitamin D Supplementation for Type 2 Diabetes

1899

Preliminary evidence suggests that vitamin D and omega-3 fatty acid supplements may prevent the development and progression of chronic kidney disease in patients with type 2 diabetes. De Boer and colleagues randomized 1312 adults with type 2 diabetes and found that supplementation with vitamin D₃ or omega-3 fatty acids resulted in no significant difference in change in estimated glomerular filtration rate at 5 years. In an Editorial, Lucas and Wolf suggest that vitamin D supplementation is unlikely to have clinical benefits other than maintenance of bone health.

Editorial 1866

CME jamanetwork.com/learning

Clinical Review & Education

WOMEN'S HEALTH

Genitourinary Syndrome of Menopause

1910

Dyspareunia, dryness, burning, and pruritus affect more than half of midlife and older women, and there is increasing recognition that loss of estrogen resulting from the cessation of ovarian function may also promote urinary frequency and urgency. This JAMA Insights article by Crandall discusses the clinical management of vulvovaginal and urinary tract symptoms associated with low levels of estrogen.

CLINICAL UPDATE

Opioid Therapy for Acute and Chronic Pain

1912

Opioid therapy is associated with health risks, but patients receiving long-term opioid therapy can also be harmed if their medications are withheld. This JAMA Insights article by Wood and colleagues reviews evidence-based recommendations for the management of patients with acute and chronic pain.

A Woman With Lymphoma and Purpura

1914



This JAMA Clinical Challenge by Li and colleagues presents a 62-year-old woman with lymphoma who developed purpuric patches on her cheek, ears, arms, and legs after completing a cycle of chemotherapy. What would you do next?

Online @ jama.com



Editor's Audio Summary

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

Author Audio Interview

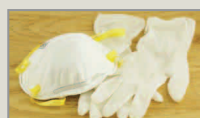


Deborah Dowell, MD, MPH, author of "Patient-Centered Reduction or Discontinuation of Long-term Opioid Analgesics: The HHS Guide for Clinicians"

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Personal Protective Equipment for Infection Control



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1932 Tracheostomy

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Research

Fibrinogen vs Cryoprecipitate After Cardiac Surgery

1966

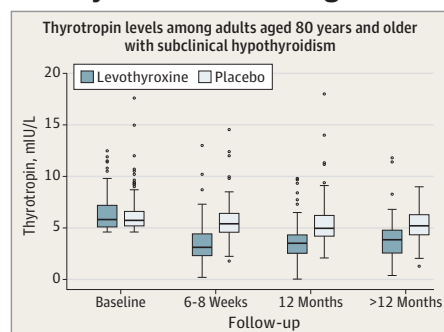
Clinical guidelines recommend that severe bleeding after cardiac surgery should be treated with fibrinogen concentrate or cryoprecipitate. Callum and colleagues for the FIBRES Research Group randomized 827 adult patients experiencing clinically significant bleeding and hypofibrinogenemia after cardiac surgery and found that fibrinogen concentrate was noninferior to cryoprecipitate with regard to number of blood components transfused in a 24-hour period after bypass. In an Editorial, Hess and colleagues note that fibrinogen concentrate has lower risks of infection and transfusion reaction and is easier to store, handle, and administer.

Editorial 1958

Visual Abstract jama.com CME jamanetwork.com/learning

Levothyroxine for Adults Aged 80 Years and Older

1977



It is unclear whether all patients with subclinical hypothyroidism benefit from levothyroxine treatment. Mooijaart and colleagues analyzed data for 251 community-dwelling adults aged 80 years and older who had subclinical hypothyroidism and found that treatment with levothyroxine, compared with placebo, was not significantly associated with improvement in hypothyroid symptoms or fatigue. In an Editorial, Cappola suggests that the upper limit of the thyrotropin reference range for this age group should be extended to avoid treating patients who are unlikely to have a clinical benefit.

Editorial 1961

Baclofen and Encephalopathy

1987

In patients with chronic kidney disease, the use of baclofen has been linked to reports of encephalopathy. Muanda and colleagues conducted a retrospective cohort study of 15 942 older adults with chronic kidney disease and found that the 30-day incidence of encephalopathy was increased among those prescribed higher vs lower doses of baclofen.



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2027 It Will Be Good for Us
JT Okonkwo

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SR Baldassarri, DA Fiellin, and AS Friedman

1953 Colorado End-of-Life Options Act:
A Clash of Organizational and
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M Wynia

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1955 Two Rooms
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1957 Protecting the Sanctity of the
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S Harman and A Verghese

1958 Should Fibrinogen Concentrate
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in Cardiac Surgery?
AS Hess, JR Hess, and DB Coursin

1961 The Thyrotropin Reference Range
Should Be Changed in Older Patients
AR Cappola

1963 Confronting the Rise and Fall
of US Life Expectancy
HK Koh, AK Parekh, and JJ Park

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2020 Object-Related Aspiration Deaths
in Children and Adolescents in the
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JD Cramer and Coauthors

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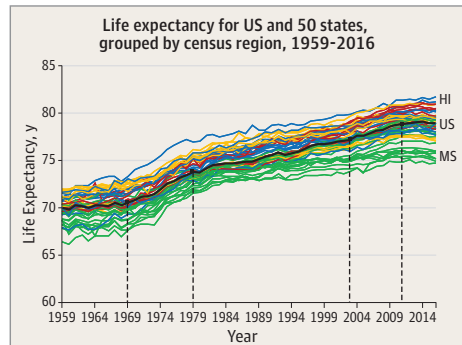
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Clinical Review & Education

Life Expectancy in the United States



Editorial 1963

CME jamanetwork.com/learning

Life expectancy in the United States has been decreasing. Woolf and Schoomaker review life expectancy and mortality rates for the past 60 years and identify potential contributing factors. In an Editorial, Koh and colleagues recommend further study of health risks associated with income inequality, unstable employment, and divergent state policies.

1996

WOMEN'S HEALTH

Bisphosphonates for Postmenopausal Osteoporosis

Bisphosphonates bind to hydroxyapatite crystals on bony surfaces, where they inhibit osteoclast-mediated bone resorption. This JAMA Insights article by Ensrud and Crandall reviews the benefits and harms of bisphosphonates and alternative agents for fracture prevention in women with postmenopausal osteoporosis.

2017



JAMA Patient Page

2032 What Is Norovirus

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1942 The Search for a Universal Flu Vaccine Heats Up

1945 Study Identifies Primary Care Knowledge Gaps and Barriers in Type 2 Diabetes Prevention

1947 Health Agencies Update

Proposed Rule for Lowering Lead Levels in Drinking Water

New NIH Strategic Research Plan Focuses on Tick-Borne Diseases

HHS Guide for Tapering or Stopping Long-term Opioid Use

1948 Clinical Trials Update

H. pylori Treatment May Reduce Long-term Gastric Cancer Risk

Low-back Pain Guideline Didn't Improve Outcomes

Gaming Intervention Increased Physical Activity in Overweight Adults

Polypill More Effective Than Usual Care for Reducing Cardiovascular Risks

Intense Exercise Improved Motor Function in Parkinson Disease

1949 News From the CDC

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Stephen R. Baldassarri, MD, MHS, author of "Vaping—Seeking Clarity in a Time of Uncertainty"

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"Effect of Fibrinogen Concentrate vs Cryoprecipitate on Blood Component Transfusion After Cardiac Surgery: The FIBRES Randomized Clinical Trial"

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How Close Are We to a Universal Flu Vaccine?

Audio

JAMA Medical News Roundup: November 2019



Audio Interview

Update in Clinical Infectious Diseases 2019-2020



Research

Costs of Pivotal Trials for Novel Therapeutic Agents

1451

In this study, Moore and colleagues estimated the costs of pivotal clinical trials for all new therapeutic agents approved by the US Food and Drug Administration from 2015 to 2016 and examined how key features of the pivotal trials were associated with these costs. A total of 138 pivotal clinical trials provided the basis for approval of 59 new therapeutic agents, with a median estimated cost of \$19 million. Results showed pivotal clinical trial costs increased if more patients were needed to document treatment benefit, if active drug comparators were used, or to measure clinical end points rather than a change in a surrogate outcome. Ross provides the Editor's Note.

📖 Editor's Note 1457 and Related Article 1458

PHYSICIAN WORK ENVIRONMENT AND WELL-BEING**Association of Scribes With Improved Workflow**

1467

Mishra and colleagues performed this 12-month crossover study to evaluate whether the use of medical scribes in primary care improved physician productivity and patient satisfaction. Use of medical scribes, paraprofessionals who transcribe clinical visit information into electronic health records in real time under physician supervision, has been proposed as a strategy to alleviate documentation burden and improve physician efficiency. Through surveys, physicians reported that medical scribes were associated with decreased documentation burden and improved work efficiency, and patients reported that scribes had positive consequences on office visits. Bates and Landman provide the Invited Commentary.

📖 Invited Commentary 1472

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Low-Dose Amitriptyline for Chronic Low Back Pain

1474

In this double-blind, randomized clinical trial, Urquhart and colleagues examined the efficacy of low-dose amitriptyline vs an active comparator in reducing pain, disability, and work absence and hindrance in 146 participants with chronic low back pain. The primary outcome was pain intensity measured at 3 and 6 months using the visual analog scale and Descriptor Differential Scale. Results demonstrated there were no significant improvements in outcomes at 6 months, but there was a reduction in disability at 3 months, an improvement in pain intensity that was nonsignificant at 6 months, and minimal adverse events reported with a low-dose, modest sample size and active comparator.

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Patient Functional Status and Medicare Cost of Care

1489

This retrospective observational study by Johnston and colleagues analyzed data from the Medicare Current Beneficiary Survey to determine if patient cognitive and functional status and local area health care supply and economic conditions were associated with Medicare total annual cost of care. The total annual cost of care was measured as the total annual reimbursed amount per patient for Medicare Part A and Part B services, in all categories. Results demonstrated that neuropsychological and functional impairment were common in Medicare beneficiaries and were associated with increased annual Medicare spending. Bynum and Lewis provide the Invited Commentary.

📖 Invited Commentary 1507 and Related Article 1498

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AL Goldman and Coauthors

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DM Silvestri and Coauthors

1557 | **LESS IS MORE** Trends in the Use of Knee Arthroscopy in Adults
DH Howard

1558 Association Between Antibiotic Prescribing for Respiratory Tract Infections and Patient Satisfaction in Direct-to-Consumer Telemedicine
KA Martinez and Coauthors

Research (continued)

Effect of Patient Characteristics on Readmission Rates

1498

Roberts and colleagues analyzed Medicare claims and US Census data in this observational study that evaluated differences in hospital readmission rates associated with measurable patient characteristics not used by Medicare to adjust for risk of readmissions in pay-for-performance programs. Characteristics not used by Medicare but used in this study included clinical factors, such as disability, and social factors, such as poverty. Adjusting for these additional characteristics reduced overall hospital variation in readmission rates, narrowed differences in rates between hospitals serving higher vs lower proportions of high-risk Medicare patients, and reduced expected penalties among the 10% of hospitals with the largest penalty reductions. Bynum and Lewis provide the Invited Commentary.

Invited Commentary 1507 and Related Article 1489

Water Intake in Premenopausal Women With Cystitis

1509

Hooton and colleagues performed this randomized clinical trial to assess the efficacy of increased daily water intake vs usual fluid intake on the frequency of recurrent cystitis in premenopausal women who drank low volumes of total fluid daily. Participants were randomly assigned to drink, in addition to their usual fluid intake, 1.5 L of water daily (water group) or no additional fluids (control group) for 12 months. Results showed the mean number of cystitis episodes were lower in the water group compared with the control group and that increased water intake may be an effective strategy to prevent recurrent cystitis in premenopausal women at high risk for recurrence who drink low volumes of fluid daily. Grady provides the Editor's Note.

Editor's Note 1515

Kidney Disease With Allopurinol Use in Gout Treatment

1526

This cohort study by Vargas-Santos and colleagues used data from the UK Health Improvement Network to examine the association of allopurinol use in patients with gout with the risk of developing chronic kidney disease stage 3 or higher. A group of 4760 initiators of allopurinol was compared with a group of 4760 noninitiators of allopurinol, excluding those with chronic kidney disease stage 3 or higher or urate-lowering therapy use before their gout diagnosis. Results demonstrated that use of allopurinol of at least 300 mg/d was associated with lower risk of developing chronic kidney disease stage 3 or higher compared with nonusers and that allopurinol initiation at less than 300 mg/d was not associated with renal function decline. Zipurksy and Juurlink provide the Invited Commentary.

Invited Commentary 1533 and Related Article 1516

Clinical Review & Education

Potential Biases in Machine Learning Algorithms

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This Special Communication by Gianfrancesco and colleagues explored potential biases in machine learning–based clinical decision support tools that use electronic health record data. Biases include those related to missing data and patients not identified by algorithms, sample size and underestimation, and misclassification and measurement error. Biases and deficiencies in the data used by machine learning algorithms may contribute to socioeconomic disparities in health care. As solutions to these biases, the authors recommended conducting follow-up studies to ensure results are meaningful, testing algorithms in socioeconomically diverse health care systems, and developing feedback loops to verify output.

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