

## In This Issue: May 20, 2025

### Research

#### ORIGINAL INVESTIGATION

##### 1679 **Microultrasound-Guided vs MRI-Guided Biopsy for Prostate Cancer Diagnosis: The OPTIMUM Randomized Clinical Trial**

A Kinnaird and Coauthors  
for the OPTIMUM Investigators

This randomized, noninferiority trial of biopsy-naive men compares the detection of Gleason Grade Group  $\geq 2$  prostate cancer using microultrasound-guided and MRI fusion-guided biopsy.

 [Visual Abstract](#)

##### 1688 **Optimal Vasopressin Initiation in Septic Shock: The OVISS Reinforcement Learning Study**

A Kalimoutou and Coauthors

This multicenter study uses reinforcement learning to examine the treatment implications of a vasopressin initiation rule developed to improve short-term and hospital outcomes in critically ill adults with septic shock receiving norepinephrine.

Related Article [1720](#)

##### 1699 **Cardiac Arrest During Long-Distance Running Races**

JH Kim and Coauthors

This case series and cohort study uses data from the Race Associated Cardiac Event Registry to determine the incidence and outcomes of cardiac arrest during US marathons and half-marathons between 2010-2023.

Editorial [1674](#)

 [Audio](#) | [CME](#)

#### RESEARCH LETTER

##### 1724 **Concordance of 30-Day Mortality and In-Hospital Mortality or Hospice Discharge After Sepsis**

HC Prescott and Coauthors

This study uses a multihospital cohort to evaluate 2 candidate outcome measures being considered for benchmarking by the CDC and CMS for community-onset sepsis hospitalizations: 30-day mortality after admission and composite in-hospital mortality or hospice discharge.

 [Available online](#)

[jama.com](http://jama.com)

##### 1726 **Prevalence of Obesity With and Without Confirmation of Excess Adiposity Among US Adults**

EK Aryee and Coauthors

This study compares the prevalence of obesity (assessed by body mass index only) vs obesity prevalence when excess adiposity is confirmed by waist circumference measurement or dual-energy x-ray absorptiometry in a nationally representative sample of US adults.

### Opinion

#### VIEWPOINT

##### 1661 **The Future of Research on Vaccine Uptake at the National Institutes of Health**

DJ Opel, ST O'Leary, and MS Stockwell

##### 1663 **The End Kidney Deaths Act Risks Irreversible Harm to Organ Donation**

TF Mueller and Coauthors

##### 1665 **Building the AI-Enabled Medical School of the Future**

MD Succi, BS Chang, and AS Rao

##### 1667 **How AI Could Reshape Health Care—Rise in Direct-to-Consumer Models**

KD Mandl

#### PERSPECTIVE

##### 1670 **Health Care System Adaptation and Resilience During the Wildfire Crisis**

AJ Hertelendy, J Maggin, and G Ciottone

This Perspective examines critical components of health care system response during wildfire emergencies.

#### A PIECE OF MY MIND

##### 1673 **All Over Again**

L Marszal

In this narrative medicine essay, a palliative care pediatrician ponders the question of whether she would pick the same career in light of the challenges of practicing medicine and garnering respect for her subspecialty.

#### EDITORIAL

##### 1674 **Risk of Running—A Contemporary Look at Cardiac Arrest in Long-Distance Races**

NS Patel and MS Link

Related Article [1699](#)

##### 1676 **2024 Year in Review and Looking to 2025**

K Bibbins-Domingo and Coauthors

Related Article [1735](#)

### [Online at JAMA.com](#)

#### **AUDIO**

Weekly Editor's Summary

Real-World Performance of AI in Screening for Diabetic Retinopathy  
Cardiac Arrests During Long-Distance Running: What's Changed?

Diagnosis, Treatment, and Prognosis of Autosomal Dominant Polycystic Kidney Disease (ADPKD) in Adults

#### **VIDEO**

Focused Cardiac Ultrasound to Measure Volume Responsiveness Before and After Passive Leg Raise

#### **CME**

CME online at [jamacmelookup.com](http://jamacmelookup.com)

**CME Disclosure Statement:** Unless noted, all individuals in control of content reported no relevant financial relationships. If applicable, all relevant financial relationships have been mitigated.

#### **INSTRUCTIONS FOR AUTHORS**

[jamanetwork.com/pages/for-authors](http://jamanetwork.com/pages/for-authors)

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**Editor in Chief**  
Kirsten Bibbins-Domingo, PhD, MD, MAS



*continued >*

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### Clinical Review & Education

#### REVIEW

##### 1708 Autosomal Dominant Polycystic Kidney Disease: A Review

FT Chebib and Coauthors

This review discusses the pathophysiology, clinical presentation, diagnosis, treatment, and prognosis of autosomal dominant polycystic kidney disease diagnosed in adulthood.

[Audio](#) | [CME](#)

#### JAMA INSIGHTS

##### 1720 Point-of-Care Ultrasound in Sepsis and Septic Shock

TB Kaselitz and CW Seymour

This JAMA Insights explores the use of portable point-of-care ultrasound and focused cardiac ultrasound imaging in the diagnosis and treatment of patients with sepsis and septic shock in the emergency department and intensive care unit.

Related Article [1688](#)

[Video](#) | [CME](#)

#### JAMA CLINICAL GUIDELINES SYNOPSIS

##### 1722 Care of Patients With Chronic Venous Disease of the Legs

EA Goodman, JT Alexander, and TA Babrowski

This JAMA Clinical Guidelines Synopsis summarizes the 2022-2023 recommendations on evaluation and management of chronic venous disease of the lower extremities from the Society for Vascular Surgery, American Venous Forum, and American Vein and Lymphatic Society.

[CME](#)

#### JAMA PATIENT PAGE

##### 1752 What Is Dialysis?

R Voelker

This JAMA Patient Page describes dialysis options for people with kidney failure and the potential complications of dialysis.

### News & Analysis

#### MEDICAL NEWS

##### 1653 Diabetic Retinopathy Is Massively Underscreened—An AI System Could Help

R Perlis and K Schweitzer

This Medical News article is an interview with Arthur Brant, MD, and Sunny Virmani, MS, about their recent research on AI screening for diabetic retinopathy in large-scale clinical settings in India.

[Audio](#)

##### 1656 What Insights Into LDL Cholesterol's Structure Could Mean for Patients

J Abbasi

This Medical News article discusses recent landmark work to visualize the structure of the cholesterol-carrying low-density lipoprotein (LDL) particle bound to its cell surface receptor.

#### MEDICAL NEWS IN BRIEF

##### 1658 Measles Cases in European Region Highest in More Than 25 Years

##### 1658 Prescription Stimulant Misuse Affects About 1 in 4 Users

##### 1658 CDC Provides New Resources for Dengue Amid Ongoing Risk

##### 1658 "Broken Heart Syndrome" Tied to High Rehospitalization Rates

##### 1659 Automated Insulin Delivery May Benefit Patients With Type 2 Diabetes

##### 1659 New Tinnitus Guideline Offers Recommendations to Improve Patient Care

### Humanities

#### POETRY AND MEDICINE

##### 1734 House Call

JM Geskey

#### EDITOR'S NOTE

##### 1734 Medicine and Poetry as Spiritual Callings

R Campo

Related Article [1734](#)

#### JAMA REVISITED

##### 1748 Contributions of Pure Science to Progressive Medicine

### Letters

#### COMMENT & RESPONSE

##### Are Procalcitonin Measures a Reliable Predictor of Stopping Antibiotics Among Patients With Sepsis?

1728 NA Bosch, KC Wilson, and AC Law

1728 C-K Hsu and C-C Lai

1729 M Arrigo and LC Huber

1729 X Zhou, X Xi, and H Zeng

#### In Reply

1730 P Dark, A Hossain, and R Lall

#### Biomedical Innovation and Equitable Access

1731 K Lindpaintner

#### In Reply

1731 VJ Dzau, EL Shambaugh, and MH Laitner

#### Linear Ablation and Ethanol Infusion via the Vein of Marshall and Persistent AF

1732 Y-y Pei

#### In Reply

1732 C Sang, J Dong, and C Ma

[Available online](#)