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

2022 Journal Impact Factor: 120.7, one of the highest in medicine and science

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Kirsten Bibbins-Domingo, PhD, MD, MAS

Research

JAMA | Original Investigation
Donanemab in Early Symptomatic Alzheimer Disease
The TRAILBLAZER-ALZ 2 Randomized Clinical Trial

John R. Sims, MD, Jennifer A. Zimmer, MD, Cynthia D. Evans, PhD, Ming Lu, MD, MS, MPH, PhD, Alette M. Wessels, PhD, Sergey Shcherbinin, PhD, Hong Wang, PhD, Emel Serap Monkul Nery, Stephen Salloway, MD, Liana G. Apostolova, MD, Oskar Hansson, MD, PhD, Craig Ritchie, MD, Daniel M. Skovronsky, MD, PhD, for the TRAILBLAZER-ALZ 2 Investigators

IMPORTANCE There are limited efficacious treatments for Alzheimer disease.

OBJECTIVE To assess efficacy and adverse events of donanemab, an antibody that clears brain amyloid plaque.

DESIGN, SETTING, AND PARTICIPANTS Multicenter (277 medical research centers in 27 countries), randomized, double-blind, placebo-controlled, 18-month phase 3 trial. We enrolled 1736 participants with early symptomatic Alzheimer disease (mild cognitive impairment/mild dementia) with amyloid and low/medium or high tau pathology on positron emission tomography imaging from June 2020 to November 2021 (last follow-up for primary outcome in April 2023).

INTERVENTIONS Participants were randomized in a 1:1 ratio to receive donanemab (n = 876) intravenously every 4 weeks for 72 weeks. Participants in the placebo group (n = 860) received intravenous placebo every 4 weeks for 72 weeks. Participants in the donanemab group were seen in the placebo group and were seen in 40.6% of APOE ε4 carriers.

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JAMA Health Forum™

An open access health policy journal

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Editor: John Z. Ayanian, MD, MPP,
University of Michigan
Deputy Editor: Melinda B. Buntin, PhD,
Vanderbilt University School of Medicine
Online ISSN: 2689-0186
Published Since: 2020
2024 Volume Number: 5
Now indexed in PubMed/MEDLINE and
other major bibliographic databases.



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JAMA Cardiology

Editor: Robert O. Bonow, MD, MS
Print Frequency: 12 issues per year
Print ISSN: 2380-6583
Online ISSN: 2380-6591
Published Since: 2016
2024 Volume Number: 9

Description

JAMA Cardiology is a peer-reviewed journal dedicated to publishing exceptional original research, state-of-the-art reviews, and informative opinion that will advance the science and practice of cardiology, enhance cardiovascular health, and inform health care policy.

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Indexed in: PubMed and MEDLINE

2022 Journal Impact Factor

24, one of the highest ranking among cardiology journals

 jamacardiology.com

JAMA Dermatology

Editor: Kanade Shinkai, MD, PhD
Print Frequency: 12 issues per year
Print ISSN: 2168-6068
Online ISSN: 2168-6084
Published By AMA Since: 1920
2024 Volume Number: 160

Description

JAMA Dermatology publishes peer-reviewed information concerning a broad range of issues relating to the skin and its conditions—clinical studies, surgical therapeutics, techniques, and breakthrough treatments.

Features Include

- Clinical Evidence Synopsis
- Clinicopathological Challenge
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2022 Journal Impact Factor

10.9, one of the highest ranking among dermatology journals

 jamadermatology.com

JAMA Internal Medicine

Editor: Sharon K. Inouye, MD, MPH
Print Frequency: 12 issues per year
Print ISSN: 2168-6106
Online ISSN: 2168-6114
Published Since: 1908
2024 Volume Number: 184

Description

JAMA Internal Medicine delivers high-impact, peer-reviewed advances in internal medicine focusing on original research, reviews, and controversies in the field. Covering a broad range of topics, the journal publishes essential information for informed decision-making.

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- Clinical Insights

2022 Journal Impact Factor

39, ranking high among internal medicine journals

 jamainternalmedicine.com

Announcing the new Editor in Chief of *JAMA Internal Medicine*

Sharon K. Inouye, MD, MPH



JAMA Neurology

Editor: S. Andrew Josephson, MD
Print Frequency: 12 issues per year
Print ISSN: 2168-6149
Online ISSN: 2168-6157
Published Since: 1959
2024 Volume Number: 81

Description

JAMA Neurology provides an international perspective on a wide range of topics from leading centers of neurological research through peer-reviewed information, forums, and features.

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- Reviews
- Images in Neurology
- Author Interviews
- Patient Page
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2022 Journal Impact Factor

29, one of the highest ranking among neurology journals

 jamaneurology.com

JAMA Oncology

Editor: Mary L. (Nora) Disis, MD
Print Frequency: 12 issues per year
Print ISSN: 2374-2437
Online ISSN: 2374-2445
Published Since: 2015
2024 Volume Number: 10

Description

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Indexed in: PubMed, MEDLINE, and Web of Science

2022 Journal Impact Factor

28.4, one of the highest ranking among oncology journals

 jamaoncology.com

JAMA Ophthalmology

Editor: Neil Bressler, MD
Print Frequency: 12 issues per year
Print ISSN: 2168-6165
Online ISSN: 2168-6173
Published By AMA Since: 1929
2024 Volume Number: 142

Description

JAMA Ophthalmology draws on academic, scientific, and clinical experts for a broad range of clinical and laboratory science articles, Clinical Trials, Reviews, Commentaries, and a wide range of special features.

Features Include

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2022 Journal Impact Factor

8.1, one of the highest ranking among ophthalmology journals

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JAMA Otolaryngology–Head & Neck Surgery

Editor: Jay F. Piccirillo, MD
Print Frequency: 12 issues per year
Print ISSN: 2168-6181
Online ISSN: 2168-619X
Published Since: 1925
2024 Volume Number: 150

Description

JAMA Otolaryngology–Head & Neck Surgery publishes clinical and basic research from around the world on diseases of the head and neck. It is the official publication for the American Head and Neck Society and the American Academy of Facial Plastic and Reconstructive Surgery, Inc.

Features Include

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- Viewpoints
- Advances in Diagnosis and Treatment Review

2022 Journal Impact Factor

7.8, the highest ranking otolaryngology journal in the world

 jamaotology.com

JAMA Pediatrics

Editor: Dimitri A. Christakis, MD, MPH
Print Frequency: 12 issues per year
Print ISSN: 2168-6203
Online ISSN: 2168-6211
Published Since: 1911
2024 Volume Number: 178

Description

JAMA Pediatrics offers original studies, Editorials, systematic Reviews, Commentaries, case studies, and updates on clinical science and practice management, in addition to a variety of special features.

Features Include

- Clinical Challenges
- Online-Only Content
- Journal Club
- Patient Page
- Caring for the Critically Ill Patient

2022 Journal Impact Factor

26.1, one of the highest ranking among pediatrics journals

 jamapediatrics.com

JAMA Psychiatry

Editor: Dost Öngür, MD, PhD
Print Frequency: 12 issues per year
Print ISSN: 2168-622X
Online ISSN: 2168-6238
Published Since: 1959
2024 Volume Number: 81

Description


Each month *JAMA Psychiatry* delivers state-of-the-art original studies and diverse commentary on the interplay between psychiatric disorders and physical health, human behavior, and emerging therapies.

Features Include

- Original Investigations
- Neuroscience and Psychiatry
- Reviews
- Editorials
- Clinical Challenges

2022 Journal Impact Factor

25.8, one of the highest ranking among psychiatry journals

 jamapsychiatry.com



Content published every weekday online.

JAMA Surgery

Editor: Melina R. Kibbe, MD
Print Frequency: 12 issues per year
Print ISSN: 2168-6254
Online ISSN: 2168-6262
Published Since: 1920
2024 Volume Number: 159

JAMA Network | Open™

Editor: Frederick P. Rivara, MD, MPH
Online Publication Frequency: Every weekday
Online ISSN: 2574-3805
Published Since: 2018
2024 Volume Number: 7

Description

JAMA Surgery publishes peer-reviewed research, commentaries, illustrations, and special articles that keep readers up to date on important advances in the field, from surgical techniques to optimizing patient care. It is the official publication for the Association of VA Surgeons, Pacific Coast Surgical Association, and the Surgical Outcomes Club.

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- Reviews
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2022 Journal Impact Factor

16.9, the highest ranking surgery journal in the world

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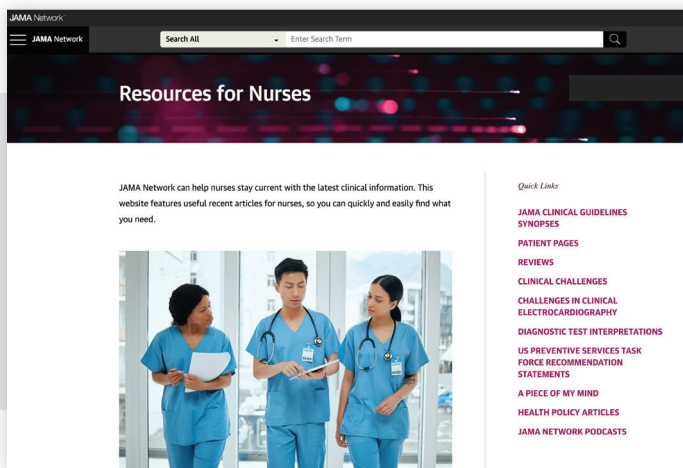
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2022 Journal Impact Factor

13.8, one of the highest among general medicine open access journals

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3. Clinical Review & Education

Clinical Reviews, guidelines, and articles with useful therapeutic and diagnostic insight. For more information about clinical content, please see pages 10-11.

Research

JAMA | Original Investigation

Donanemab in Early Symptomatic Alzheimer Disease The TRAILBLAZER-ALZ 2 Randomized Clinical Trial

John R. Sims, MD, Jennifer A. Zimmerman, MD, Cynthia D. Evans, PhD, Ming Lu, MD, MPH, Paul A. Aditya, PhD, Jonathan Sparks, PhD, Abhishek M. Hossain, PhD, Sergey Shcherbinin, PhD, Hong Wang, PhD, Emel Sarac-Marshall Hany, MD, Emily C. Coblin, PhD, Paul Solomon, PhD, Stephen Salloway, MD, Larisa G. Apostolova, MD, Oskar Hansson, MD, PhD, Craig Ritchie, MD, PhD, Coana A. Brook, PhD, Mark Mintun, MD, Daniel M. Slavovitsky, MD, PhD, for the TRAILBLAZER-ALZ 2 Investigators

IMPORTANCE There are limited efficacious treatments for Alzheimer disease.

OBJECTIVE To assess efficacy and adverse events of donanemab, an antibody designed to clear brain amyloid plaques.

DESIGN, SETTING, AND PARTICIPANTS Multicenter (277 medical research centers/hospitals in 8 countries), randomized, double-blind, placebo-controlled, 18-month phase 3 trial that enrolled 1736 participants with early symptomatic Alzheimer disease (mild cognitive impairment/mild dementia) with amyloid and low/medium to high tau pathology based on positron emission tomography imaging from June 2020 to November 2021 (last patient visit for primary outcome in April 2023).

INTERVENTIONS Participants were randomized in a 1:1 ratio to receive donanemab (1500 mg intravenous every 4 weeks for 72 weeks) or placebo (n = 876) intravenously every 4 weeks for 72 weeks.

MAIN RESULTS AND MEASURES The primary outcome was the change in the Clinical Dementia Rating Scale (CDR-SB) score from baseline to 72 weeks. Donanemab significantly improved CDR-SB scores compared with placebo (mean difference, 1.25 [95% CI, 1.18-1.42], P < .001) in the 72-week group. Secondary outcomes included the change in the CDR-SB score at 48 weeks (mean difference, 1.22 [-0.16] with donanemab and -0.27 [95% CI, -0.50] in the placebo group) and the change in the CDR-SB score at 12 weeks (mean difference, 2.02 [95% CI, 1.54-3.33], P < .001) in the donanemab group and 1.20 (95% CI, 1.00-1.41) with placebo (difference, -0.67 [95% CI, -1.06 to -0.28] with donanemab and 1.72 [95% CI, 1.53-1.91] with placebo (difference, -2.34 [-2.60] with placebo (difference, -0.7 [95% CI, -1.0] combined population). Amyloid-related imaging abnormality was observed in 24.0% of participants in the donanemab group and 20.0% in the placebo group during study.

CONCLUSIONS AND RELEVANCE Donanemab significantly improved CDR-SB scores compared with placebo in participants with early symptomatic Alzheimer disease.

KEY WORDS: Alzheimer disease; amyloid; donanemab; randomized clinical trial; tau pathology.

VIEWPOINT pages 305, 311, 315

Visual Abstract

Editorial pages 503, 505, 507, and 510

Supplemental content

VIEWPOINT

AI IN MEDICINE

Artificial Intelligence in Clinical Diagnosis: Opportunities, Challenges, and Hype

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ChatGPT, a generative artificial intelligence (AI) chatbot, has recently been hailed as a promising tool to improve health care quality. One study compared output from the AI chatbot for medical questions with answers from physicians; other studies have evaluated the AI chatbot's responses to sample clinical vignettes.¹⁻⁴ A foundational aspect of high-quality health care—making correct and timely diagnoses—remains a challenge in modern medicine despite decades of technological advances.^{5,6} Therefore, any emerging technology with potential to reduce diagnostic errors warrants serious examination.

Recent literature provides some suggestions as to what role AI chatbots may have in assisting with diagnosis.⁶⁻⁸ However, clinical diagnosis is both an art and a science, and is more challenging for AI to optimize than visual diagnostic interpretation, such as radiographic and pathologic diagnosis. Here, we provide a realistic overview of generative AI's role in clinical diagnosis to clarify type, strengths, challenges, and future opportunities.

Diagnostic dilemmas are common in clinical medicine. Arriving at a patient's final diagnosis is a process that evolves over time and can include periods of uncertainty. One potential use of AI is to identify rare diagnoses or unusual presentations in particular patients' presentation. For example, dyspnea on exertion, anemia, and hypotatremia are classic general medicine problems, but clinicians often rely on their memory when performing their diagnostic evaluation, a fallible approach. Additionally, laboratory or radiographic findings might not be interpreted correctly by clinicians. AI chat platforms can be consulted, potentially in real time, to ensure that obvious diagnostic possibilities have not been overlooked. Ideally, the platform would be embedded into the electronic health record (EHR) to make the consultation highly efficient.

At also has the advantage of being able to scan a patient's medical record faster than a person can. Clinicians often spend long periods trying to decipher a patient's story and longitudinal journey by clicking through scores of notes, laboratory trends, radiology and pathology reports, and additional diagnostic data. With associated visualization platforms, AI could display these data in a more intuitive way and potentially assist with nuanced interpretation of such cumulative historical data.

Despite these potential benefits of AI, fundamental limitations and challenges require careful consideration as AI is further integrated into medical care. Of paramount importance is that the accuracy of data about the clinical case entered into the chatbot will determine the differential diagnosis output. However, research has demonstrated that many diagnostic errors are related to core clinical skills, including history taking, physical examination, and other data gathering activities.⁹ Information gathered from these actions serves as the basis of what an AI chatbot would use to assist with diagnosis, and this information might be incomplete or incorrect.

Additionally, patient histories are, by nature, subjective. A patient who describes their pain as "stabbing" or as "out of 10 on a pain scale" might give subtle cues that provide important context but which only a person can detect. Subjective and varying reports from patients are more difficult for AI to consistently use in an algorithmic way. Many patients also describe a myriad of symptoms. Sorting through the relative importance of each of these is often less than a 5-minute

Clinical Review & Education

JAMA Clinical Challenge

Heart Failure, Neuropathy, and Spinal Stenosis

Orin A. Wellman, MD, Yoonsoo S. Chirana, MD, PhD; Heek-Jan Bollen, MD, PhD



FIGURE. Anterior (left) and posterior (right) brain magnetic resonance imaging scan of the patient.

A 60-year-old Black patient presented to the emergency department with a 2-month history of chest pain and shortness of breath with exertion, 3 months of leg numbness, and unintended weight loss of 8 kg over 6 months. The patient also had a history of lumbar spinal stenosis. On presentation, blood pressure was 104/73 mm Hg, heart rate, 91/min; respiratory rate, 16/min; and oxygen saturation, 95% on room air. Physical examination revealed edema to the mid-calf bilaterally, hypoaesthesia below the knees, and ankle plantar flexion strength of 3 of 5 based on the Medical Research Council Scale for muscle strength. Laboratory testing revealed a high-sensitivity troponin level of 52 ng/L (reference, <34 ng/L), brain-type natriuretic peptide, 112 pmol/L (reference, <30 pmol/L), aspartate aminotransferase, 51 U/L (0.85 [plat/L] reference, 0-35 U/L) (0-0.58 [plat/L]), and alanine aminotransferase, 76 U/L (1.27 [plat/L] reference, 0-45 U/L) (0-0.75 [plat/L]). A chest radiograph showed cardiomegaly without pulmonary vascular redistribution or pulmonary edema. An electrocardiogram revealed normal sinus rhythm, left anterior fascicular block, and down-sloping anterior ST segments. The patient was admitted to the hospital, where electromyography results included reduced amplitude of peroneal nerve action potentials, consistent with axonal sensorimotor polyneuropathy of the bilateral lower extremities. Coronary angiography showed no coronary atherosclerosis, and cardiac magnetic resonance imaging demonstrated asymmetric left ventricular hypertrophy. Results of serum

WHAT WOULD YOU DO NEXT?

- Perform bone marrow biopsy
- Order genetic testing
- Perform random skin biopsies
- Order 24-hour urine testing for monoclonal proteins

QMI Quiz at jamanetwork.com

Clinical Content from the JAMA Network

The JAMA Network journals help clinicians keep their practice on the cutting edge with articles designed to meet the needs of their busy lives.

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JAMA Clinical Challenge

A 62-Year-Old Woman With a Large Abdominal Mass

Luigi Marano, MD, PhD; Ludovico Carbone, MD; Franco Roviello, MD

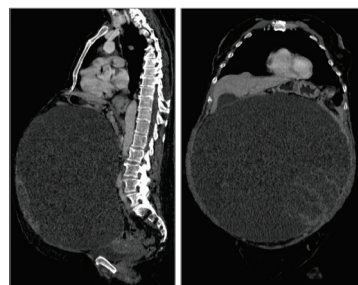


Figure 1. Sagittal (left) and coronal (right) contrast-enhanced abdominal computed tomography images showing a large abdominal mass.

A 62-year-old nulligravida woman presented with a 10-month history of progressive abdominal distension and diffuse abdominal pain associated with a 25-kg weight gain. Results of upper endoscopy and colonoscopy performed 1 week prior to presentation were normal. She reported dyspnea on exertion but had no fevers or chills, nausea or vomiting, hematochezia, or change in the caliber or consistency of her stools. On physical examination, she had normal vital signs, no abnormalities on pelvic and rectal examination, and a firm mass extending from the epigastrium to the pelvis. Laboratory testing revealed normal complete blood count, erythrocyte sedimentation rate, and comprehensive panel and normal levels of serum carcinoembryonic antigen (CEA), cancer antigen 125 (CA-125), and cancer antigen 19-9 (CA19-9). Computed tomography (CT) of abdomen, and pelvis revealed a large mass occupying the entire abdominal cavity

WHAT WOULD YOU DO NEXT?

- A. Obtain a needle biopsy
- B. Order percutaneous drainage
- C. Perform a diagnostic laparoscopy
- D. Laparotomy with removal of mass

Quiz at jamacmelookup.com

Mucinous ovarian carcinoma

Next
Laparotomy with removal of mass

cause spillage of malignant cells into the abdomen. Diagnostic laparoscopy (choice C) would not remove the abdominal mass.

Mucinous ovarian tumors are categorized as benign, borderline, or malignant (mucinous ovarian carcinoma).¹ Mucinous ovarian tumors are typically unilateral, multicystic, and large, with a mean size of 10 cm if benign; 16 cm if borderline, and 20 cm if malignant.²

The correct diagnosis is recognizing that a unilateral mass larger than 10 cm is characteristic of a primary ovarian, for which complete surgical resection is the recommendation. A needle biopsy (choice A) may not provide tissue to make an accurate diagnosis. Percutaneous drainage (B) is not recommended because this procedure may

cause spillage of malignant cells into the abdomen. Diagnostic laparoscopy (choice C) would not remove the abdominal mass. Mucinous ovarian carcinoma accounts for 2% to 3% of epithelial ovarian cancers.^{2,3} Compared with more common types of ovarian cancer, mucinous ovarian carcinoma presents at a younger age (median, 49 vs 62 years) and earlier stage.^{3,4} At diagnosis, 74% to 85% of patients with mucinous ovarian carcinoma have stage I disease.^{3,5} In addition, typical ovarian cancer risk factors, such as nulliparity, early menarche, increased body mass index, estrogen use,

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www.jamanetwork.com/ American Medical Association by Sherry Flores on 08/09/2023

JAMA Ophthalmology Clinical Challenge

A Man With Kaleidoscope Vision

Anuoluwapo Sopeyin, MD; Carl Wilkins, MD; Meghan Berkenstock, MD

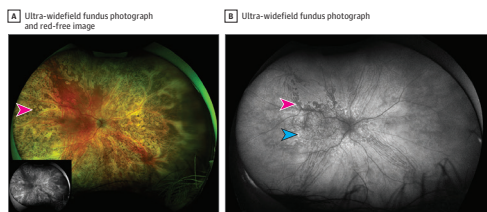


Figure 1. A, Ultra-widefield fundus photograph of the right eye showing pigmentary abnormalities (arrowhead) within and peripheral to the macula. This finding was similar in both eyes. A red-free image is depicted in the bottom left corner of the panel. B, Ultra-widefield fundus autofluorescence image of the right eye showing hypofluorescent (pink arrowhead) and hyperautofluorescent patches (blue arrowhead) within and peripheral to the macula. This finding was similar in both eyes.

A 63-year-old man with no ocular history and a history of stage 3 cutaneous melanoma of the scalp and chronic lymphocytic leukemia was referred for kaleidoscope vision. He received nivolumab (anti-programmed cell death 1 checkpoint inhibitor) 9 months prior, obinutuzumab (B-cell lymphoma 2 inhibitor) 3 months later, and 5-mg oral prednisone daily. On presentation, nivolumab and obinutuzumab treatment was complete.

His visual acuity was 20/125 OD and 20/50 OS. Ophthalmoscopy revealed bilateral panuveitis with diffuse pigmentary abnormalities. Fluorescein angiography showed diffuse retinal pigment epithelium loss and late staining of the retinal lesions. He received 60 mg of oral prednisone daily for 2 weeks with a planned 10-week taper. However, prednisone was discontinued due to positive Lyme disease exposure 6 weeks later. At this time, the active anterior and vitreous cells had resolved.

However, 2 weeks later, visual acuity decreased to count fingers in his right eye and hand motions in the left eye. The anterior and vitreous chambers had grade +0.5 pigmented cells. The ophthalmoscopic examination showed a leopard-spot pattern (Figure 1), and optical coherence tomography showed substantial retinal pigment epithelium and outer retinal layer loss. Repeat testing for *Treponema pallidum*, Lyme disease, and HIV was negative. Results of magnetic resonance imaging of the brain and orbit were negative for leukemic infiltration.

WHAT WOULD YOU DO NEXT?

- A. Immunomodulatory therapy with another course of oral steroids
- B. Pars plana vitrectomy for vitreous biopsy with or without chorioretinal biopsy for flow cytometry to assess for leukemic cells
- C. Intravitreal steroid injection
- D. Observation

Quiz at jamacmelookup.com

Challenges in Clinical Electrocardiography

Ventricular Arrest With a Duration of 23.8 Seconds

Zhongzheng Zhou, MD; Yi Long, MD; Yong Li, MD

Case Presentation

A patient in their late 40s was admitted to the hospital to receive a uterine myomectomy procedure. The patient had no history of structural heart disease, hypertension, myocarditis, or sleep apnea syndrome, and denied a family history of cardiovascular disease and sudden death. The patient had not received any pharmacologic agents that would affect cardiac rhythm. Biochemical evaluation showed normal levels of whole blood cells count, electrolytes, myocardial enzymes, and brain natriuretic peptide. A 12-lead electrocardiogram (ECG), chest radiographic imaging, and echocardiographic findings showed no abnormalities. To assess the risk of general anesthesia, the patient underwent evaluation with a Holter monitor, which recorded the patient's cardiac activity during the

stable activation through the atrioventricular node; the 2:1 to 3:1 atrioventricular block was visible. Later, atrioventricular conduction recovered with sinus acceleration and PR-interval shortening.

From the perspective of histologic evaluation and anatomy, cholinergic fiber terminals richly innervated the sinus and atrioventricular nodes but were rarely distributed in the region of intrahisian and infrahisian. Thus, the combination of sinus slowing and PR prolongation before paroxysmal atrioventricular block (P-AVB) suggested hypervagotonia. Therefore, the ECG clues providing a presumptive block level were atrioventricular nodes.

Clinical Course

Subsequently, to further de- Purkinje disease (IHPD), e- formed, but showed no ab-

CME at jamacmelookup.com

JAMA Clinical Challenge

Skin Lesions, Foot Drop, and Hand Contractures

Aidan R. Filley, BS; Saadeddine Saad, MD; Kirstin Altman, MD



Figure. Trunk cutaneous lesions (left) and bilateral hand contractures (right) at initial presentation.

HIGHLIGHTS OF CLINICAL FEATURES ACROSS THE JAMA NETWORK:

USPSTF Recommendation Statement

Clinical recommendations and evidence reports from the USPSTF on screening for and prevention of disease.

USPSTF Editorials

Commentary from leading experts on USPSTF Recommendations.

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Key facts presented in patient-friendly terms with links to resources on a wide variety of health topics.

Review

Up-to-date clinical review on a topic of general common interest from the perspective of internationally recognized experts, focusing on current understanding of the physiology of the disease or condition, diagnostic consideration, and treatment.

Clinical Challenge

Presents an actual patient case with a specific disease or condition with an accompanying clinical image.

Diagnostic Test Interpretation

Presentation of the results of a diagnostic test from a single patient with exploration of the clinical application of the test result; intended to help clinicians understand the underlying rationale in ordering tests, interpreting test results, and acting on the diagnostic test findings.

Clinical Guideline Synopsis

These brief articles concisely summarize guideline recommendations in a format designed for busy physicians.

Challenges in Clinical Electrocardiography

A report of an actual patient case demonstrating challenges and pitfalls in electrocardiographic interpretation for practitioners in the office, hospital, and prehospital setting.

Teachable Moment

Brings attention to the harms that can result from medical overuse and from underuse of needed medical interventions to promote appropriate medical care.

Surgical Innovation

Succinct review of topics in surgery, including innovations in the delivery of clinical care, but can also include cutting-edge developments in education, quality, safety, policy, or other nonclinical areas relevant to practicing surgeons.

Guide to Statistics and Methods

Explains statistical analytic approaches and methods used in research articles, in language practicing clinicians can understand.

The Rational Clinical Examination

A series on evidence-based use of the medical history, physical examination, and testing to diagnosis disease.

Users' Guide to the Medical Literature

Provides clinicians with strategies and tools to interpret and integrate evidence from published research in their care of patients.

JAMA Clinical Insights: Women's Health

Brief educational articles that highlight clinically relevant issues in women's health.

Aortic dissection is a separation of the inner and outer wall of the aorta (a large vessel that carries blood from the heart to the body) creating a bulge that impairs blood flow. Major risk factors include male sex, high blood pressure, and plaque buildup inside the aorta (atherosclerosis).

Ascending aortic dissection | **Surgical repair**

Ascending aorta | Dissection of inner wall | Pooled blood causing bulge in wall | Constricted blood flow | Dissection occurs more often in the ascending aorta.

The damaged section is removed and replaced with a synthetic graft.

Endovascular repair

A stent graft is placed to reinforce the damaged section of aorta.

Measures that can help prevent aortic dissection include

- Controlling blood pressure with medication and by limiting salt intake
- Maintaining a healthy weight through diet and exercise
- Not smoking cigarettes or using cocaine

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Email alerts on key topics such as oncology, cardiology, COVID-19, and more, featuring articles from across the JAMA Network.

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Innovative, semantic technology recognizes concepts instead of search terms and produces more targeted, meaningful search results.

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The Resources for Librarians page offers easy access to helpful tools for current site license customers and anyone looking for more information about JAMA Network products. You will find administrative tools for managing your account, downloadable marketing materials, the latest news, and much more.

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JN Learning allows your users to track completed activities, view their full transcript, and download certificates, all from within the site. JN Learning automatically transfers MOC to the ABIM, ABP, ABOHNS, and ABPath MOC programs and others.

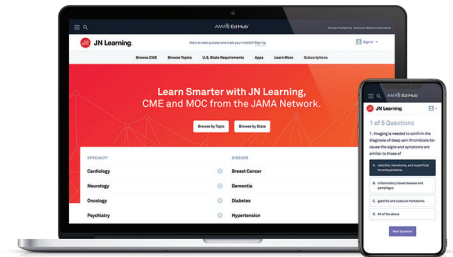
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Available as a one-time, perpetual-access purchase, **JAMA Network Backfiles** includes:

- *JAMA* (1883-1997)
- *Archives of Dermatology* (1920-1997)
- *Archives of General Psychiatry* (1959-1997)
- *Archives of Internal Medicine* (1908-1997)
- *Archives of Neurology* (1959-1997)
- *Archives of Neurology & Psychiatry* (1919-1958)
- *Archives of Pediatrics & Adolescent Medicine* (formerly *American Journal of Diseases of Children*) (1911-1997)
- *Archives of Ophthalmology* (1929-1997)
- *Archives of Otolaryngology–Head & Neck Surgery* (1925-1997)
- *Archives of Surgery* (1920-1997)

The AMA, in keeping with its policy regarding continued access to scholarly work, has arranged for *Archives of Family Medicine* to be freely available as “triggered content” with the CLOCKSS Archive.

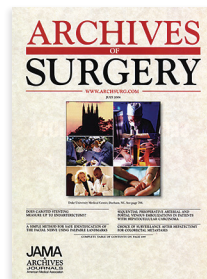
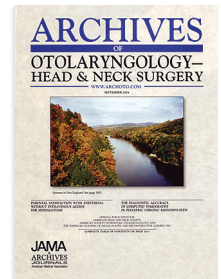
Archives of Family Medicine was offered free of charge to family physicians, general practitioners, and primary care doctors of osteopathic medicine from the beginning of 1992 until October 2000, when it ceased publication. It can now be accessed at the URL below:

[clockss.org/clockss/Archives of Family Medicine](https://clockss.org/clockss/Archives_of_Family_Medicine)

For pricing, see page 17.

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- JAMA Pediatrics
- JAMA Psychiatry
- JAMA Surgery

* JAMA Oncology and JAMA Cardiology sold separately.

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	JAMA	JAMA+3	JAMA+6	JAMA+8	JAMA Oncology*	JAMA Cardiology*
Tier D3	\$15,892	\$24,984	\$29,396	\$30,967	\$5,701	\$5,701
Tier D2	\$12,418	\$19,500	\$22,952	\$24,195	\$4,497	\$4,497
Tier D1	\$10,468	\$16,432	\$19,350	\$20,394	\$3,790	\$3,790
Tier C	\$4,519	\$7,125	\$8,391	\$8,838	\$1,682	\$1,682
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Tier A2	\$1,380	\$2,166	\$2,576	\$2,705	\$524	\$524
Tier A1	\$976	\$1,527	\$1,804	\$1,908	\$372	\$372

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- Nonprofit research laboratories with 101-300 research staff
- Postbaccalaureate premed programs

Tier B

- Masters colleges without practical/applied health-related programs (nutrition, biology)
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- Nonprofit research laboratories with up to 100 research staff

Tier A2

- Multicampus associate and community colleges with fewer than 5 campuses
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Tier HD	\$5,160	\$8,138	\$9,553	\$10,083	\$1,921	\$1,921
Tier HC	\$3,445	\$5,436	\$6,395	\$6,742	\$1,285	\$1,285
Tier HB	\$2,707	\$4,281	\$5,019	\$5,295	\$1,030	\$1,030
Tier HA2	\$1,759	\$2,765	\$3,267	\$3,443	\$670	\$670
Tier HA1	\$1,325	\$2,083	\$2,463	\$2,592	\$504	\$504

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- Hospital systems with 8-11 hospitals

Tier HE1

- Hospital systems with 4-7 hospitals
- Single hospital with 11-20 affiliated clinics

Tier HD

- Hospital systems with 2-3 hospitals
- Single-site hospitals with 801-1100 staffed beds

Tier HC

- Single hospitals with 501-800 staffed beds

Tier HB

- Single hospitals with 251-500 staffed beds

Tier HA2

- Single hospitals with 121-250 staffed beds

Tier HA1

- Single hospitals with 120 or fewer beds

Nontiered

- Hospital systems with more than 12 hospitals
- Large physician practices

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- Nonprofit research facilities with 801-1200 research staff

Tier D1

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- Alternative health-related professional schools (Eastern medicine, massage therapy, nutrition, chiropractic colleges)

- Private foundations and charitable organizations (excludes hospitals, hospital systems, and patient care facilities)
- Nonprofit research laboratories with up to 100 research staff

Tier A2

- Multicampus associate and community colleges with fewer than 5 campuses
- Single-site community colleges with more than 5000 students and specialty health programs
- Baccalaureate colleges with no practical/applied health science programs (health care administration, biology)
- Multinational law, brokerage, and media companies

Tier A1

- Law schools
- High schools
- Public libraries with one location
- Single-campus associate and community colleges with fewer than 5000 full-time students

Please Note

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Tier HC	\$15,158	\$12,884	\$3,789
Tier HB	\$12,632	\$10,737	\$3,158
Tier HA2	\$8,211	\$6,979	\$2,053
Tier HA1	\$6,000	\$5,100	\$1,500

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TIER DESCRIPTIONS

Tier HE2

- Hospital systems with 8-11 hospitals

Tier HE1

- Hospital systems with 4-7 hospitals
- Single hospital with 11-20 affiliated clinics

Tier HD

- Hospital systems with 2-3 hospitals
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Tier HC

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Tier HA2

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Tier HA1

- Single hospitals with 120 or fewer beds

Nontiered

- Hospital systems with more than 12 hospitals
- Large physician practices

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- 12 issues of *JAMA Oncology*
- 12 issues of *JAMA Ophthalmology*
- 12 issues of *JAMA Otolaryngology – Head & Neck Surgery*
- 12 issues of *JAMA Pediatrics*
- 12 issues of *JAMA Surgery*

	US/CAN	AMS	EURO	GBP
JAMA	\$1,757	\$2,109	€ 1,939	£1,693
JAMA Cardiology	\$1,768	\$2,122	€ 1,950	£1,704
JAMA Dermatology	\$1,743	\$2,091	€ 1,922	£1,679
JAMA Psychiatry	\$1,861	\$2,232	€ 2,052	£1,792
JAMA Internal Medicine	\$1,480	\$1,775	€ 1,631	£1,425
JAMA Neurology	\$1,959	\$2,351	€ 2,161	£1,888
JAMA Oncology	\$1,414	\$1,698	€ 1,561	£1,364
JAMA Ophthalmology	\$1,719	\$2,064	€ 1,897	£1,657
JAMA Otolaryngology – Head & Neck Surgery	\$1,670	\$2,004	€ 1,842	£1,609
JAMA Pediatrics	\$1,512	\$1,816	€ 1,669	£1,458
JAMA Surgery	\$1,480	\$1,775	€ 1,632	£1,425

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Important Sales Tax Information

AMA is required by law to collect sales tax on orders shipped to states where AMA has economic nexus. If you are shipping to any of these states, the appropriate charges will be added to your total order and displayed on your final order confirmation.

For states imposing sales or use taxes, your purchase is subject to use tax unless it is specifically exempt from taxation. Your purchase is not exempt merely because it is made over the Internet or by other remote means. Some states require each purchaser to report any taxable purchase that was not taxed and to pay use tax on the purchase. The tax may be reported and paid on the state's individual income tax return or consumer use tax return. Details of how to file these returns may be found at the websites of your respective taxing authorities.

Subscription Account Numbers

Subscription account numbers can be found on the mailing label:

ACCOUNT NUMBER

#[**08003430926**]5#JAMUAIMS
 042612270CB B

John Doe, MD
 123 Main Street
 Anycity, Province/State, Postal Code
 Country

AMA PLAZA

330 North Wabash Ave
Ste 39300
Chicago, Illinois 60611 USA

CUSTOMER SERVICE

USA & Canada: 1 800.262.2350
Rest of World: +1 312.464.5878

SALES

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