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Original Research

Deep Learning to Estimate Cardiovascular Risk From Chest Radiographs. A Risk Prediction Study 409

J. Weiss, V.K. Raghu, K. Paruchuri, A. Zinzuwadia, P. Natarajan, H.J.W.L. Aerts, and M.T. Lu

Current guidelines recommend estimating the 10-year risk for major adverse cardiovascular events before deciding whether to initiate statin therapy for the primary prevention of atherosclerotic cardiovascular disease. In the United States, clinicians often estimate the risk using a mathematical model that requires 9 inputs. This article examines whether a single routine chest radiograph can provide comparable information.

Disparities in Tuberculosis Incidence by Race and Ethnicity Among the U.S.-Born Population in the United States, 2011 to 2021. An Analysis of National Disease Registry Data 418

Y. Li, M. Regan, N.A. Swartwood, T. Barham, G.R. Beeler Asay, T. Cohen, A.N. Hill, C.R. Horsburgh Jr, A. Khan, S.M. Marks, R.L. Myles, J.A. Salomon, J.L. Self, and N.A. Menzies

Elevated tuberculosis (TB) incidence rates have recently been reported for racial and ethnic minority populations in the United States. Tracking such disparities is important for assessing progress toward national health equity goals and implementing change. This time-series analysis of national registry data for 2011 to 2021 aimed to quantify trends in racial and ethnic disparities in TB incidence among U.S.-born persons.

Long-Term Effect of Randomization to Calcium and Vitamin D Supplementation on Health in Older Women. Postintervention Follow-up of a Randomized Clinical Trial 428

C.A. Thomson, A.K. Aragaki, R.L. Prentice, M.L. Stefanick, J.E. Manson, J. Wactawski-Wende, N.B. Watts, L. Van Horn, J.M. Shikany, T.E. Rohan, D.S. Lane, R.A. Wild, R. Robles-Morales, A.H. Shadyab, N. Saquib, and J. Cauley

Although calcium and vitamin D supplementation may affect chronic disease in older women, evidence of long-term effects on health outcomes is limited. This post hoc analysis examines long-term postintervention outcomes with more than 20 years of follow-up of a 7-year randomized intervention trial of calcium and vitamin D.

Association of State Insulin Out-of-Pocket Caps With Insulin Cost-Sharing and Use Among Commercially Insured Patients With Diabetes. A Pre-Post Study With a Control Group 439

L.F. Garabedian, F. Zhang, R. Costa, S. Argetsinger, D. Ross-Degnan, and J.F. Wharam

Several states have implemented limits or caps on out-of-pocket (OOP) costs for insulin, but the effectiveness of these caps is uncertain. This observational study examines the potential effect of the caps on the OOP cost and use of insulin among a sample of commercially insured persons with diabetes.

Development of a Multivariable Model to Predict the Need for Bone Marrow Sampling in Persons With Monoclonal Gammopathy of Undetermined Significance. A Cohort Study Nested in a Clinical Trial 449

E. Eythorsson, S. Rognvaldsson, S. Thorsteinsdottir, T.E. Long, E.R. Reed, G.A. Sigurdardottir, B. Vidarsson, P.T. Onundarson, B.A. Agnarsson, M. Sigurdardottir, I. Olafsson, I. Thorsteinsdottir, S.V. Sveinsdottir, F. Sigurdsson, A.R. Thordardottir, R. Palsson, O.S. Indridason, A. Jonsson, G.K. Gislason, A. Olafsson, J. Sigurdsson, H. Steingrimsdottir, M. Hultcrantz, B.G.M. Durie, S. Harding, O. Landgren, T. Aspelund, T.J. Love, and S.Y. Kristinsson

Smoldering multiple myeloma is an asymptomatic precursor to multiple myeloma that has a higher risk of progression than monoclonal gammopathy of undetermined significance and may warrant closer monitoring. This study develops a new prediction model to predict the likelihood of smoldering multiple myeloma in persons with monoclonal gammopathy of undetermined significance to inform the decision to obtain a bone marrow sample and compares its performance to the Mayo Clinic risk stratification model.

Trends in U.S. Medical Cannabis Registrations, Authorizing Clinicians, and Reasons for Use From 2020 to 2022 458

K.F. Boehnke, R. Sinclair, F. Gordon, A. Hosanagar, D.R. Roehler, T. Smith, and B. Hoots

The authors discuss key data regarding licensed medical cannabis use in the United States, including changes in estimates of patients using medical cannabis overall, conditions for which patients obtain medical cannabis licenses, passage of new state-level medical cannabis laws,

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the number and type of clinicians authorizing medical cannabis use, and shifts in the number of patients based on the presence of nonmedical adult use laws.

Association of Albuminuria With Chronic Kidney Disease Progression in Persons With Chronic Kidney Disease and Normoalbuminuria. A Cohort Study 467

A. Verma, I.M. Schmidt, S. Claudel, R. Palsson, S.S. Waikar, and A. Srivastava

Albuminuria above the normal range is a major risk factor for disease progression among those with chronic kidney disease (CKD). This study examines the prognostic value of albuminuria within the normoalbuminuric range in persons with CKD.

Clinical Outcomes With Electronic Nudges to Increase Influenza Vaccination. A Prespecified Analysis of a Nationwide, Pragmatic, Registry-Based, Randomized Implementation Trial 476

N.D. Johansen, M. Vaduganathan, A.S. Bhatt, S.G. Lee, D. Modin, B.L. Claggett, E.L. Dueger, S. Samson, M.M. Loiacono, R.C. Harris, L. Køber, S.D. Solomon, P. Sivapalan, J.U.S. Jensen, C.J.-M. Martel, T.G. Krause, and T. Biering-Sørensen

A large Danish clinical trial found that invitation letters designed using behavioral science principles increased influenza vaccination rates among older adults in Denmark. Here, in a preplanned secondary analysis, the investigators report the effects of the electronically delivered "behavioral nudging" letters on clinical outcomes.

 **Reviews**

The Impact of Health Care Algorithms on Racial and Ethnic Disparities. A Systematic Review 484

S.M. Siddique, K. Tipton, B. Leas, C. Jepson, J. Aysola, J.B. Cohen, E. Flores, M.O. Harhay, H. Schmidt, G.E. Weissman, J. Fricke, J.R. Treadwell, and N.K. Mull

Algorithms are used in health care to calculate organ function and predict patient risk or future outcomes, and, subsequently, for treatment decisions, further diagnostic procedures, or referral for further care. Inputs to algorithms and how they are calculated may result in racial or ethnic disparities in access to care, quality of care, and disparities in health outcomes. This paper systematically reviews studies that have evaluated the impact of algorithms on racial or ethnic disparities and what strategies have been used to mitigate such disparities.

Management of Inpatient Elevated Blood Pressures. A Systematic Review of Clinical Practice Guidelines 497

L.M. Wilson, S.J. Herzig, M.A. Steinman, M.A. Schonberg, J.L. Cluett, E.R. Marcantonio, and T.S. Anderson

Management of elevated blood pressure during hospitalization varies widely. This systematic review summarizes clinical practice guideline recommendations on management of elevated blood pressure in the hospital. It

encompasses guidelines on hypertension management in any setting and summarizes guideline recommendations for thresholds for treatment, circumstances for different recommendations, and preparation for safe transition to a posthospitalization setting.

 **Position Papers**

Quality Indicators for Major Depressive Disorder in Adults: A Review of Performance Measures by the American College of Physicians 507

A. Qaseem, R.A. Andrews, K. Campos, C.L. Goldzweig, S. MacDonald, R.M. McLean, R.E. Powell, and N. Fitterman

This position paper from the American College of Physicians (ACP) presents a review of current performance measures for major depressive disorder (MDD) to inform physicians, payers, and policymakers about their quality and appropriateness for use in various measurement programs. The paper also highlights challenges related to developing performance measures that address MDD management.

Meeting the Health and Social Needs of America's Unhoused and Housing-Unstable Populations: A Position Paper From the American College of Physicians 514

J. Serchen, D.R. Hilden, and M.W. Beachy

Access to safe and stable housing has both a direct and indirect effect on health. Homeless persons experience unique health challenges and require a health care system and professionals designed to meet their distinct needs. In this position paper, the American College of Physicians (ACP) recognizes the need to address universal access to housing to fulfill one's right to health. ACP offers several recommendations to prevent homelessness and promote the necessary health care and social needs of homeless populations.

 **Beyond the Guidelines**

How Would You Manage HIV Pre-exposure Prophylaxis in This Patient With Medical Comorbidities? Grand Rounds Discussion From Beth Israel Deaconess Medical Center 518

H. Libman, D. Krakower, J.L. Taylor, and R.B. Burns

Antiretroviral pre-exposure prophylaxis (PrEP) to prevent transmission of HIV infection has been shown to be highly effective in persons at risk. However, despite recommendations from the Centers for Disease Control and Prevention and the U.S. Preventive Services Task Force, fewer than one third of persons eligible for PrEP currently receive it. In this article, 2 experts discuss how to identify eligible patients, which treatment regimen to choose, and how to effectively implement the treatment, especially in typically underserved and marginalized populations.

CME/MOC activity available at Annals.org

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Special Article

Putting Adult Vaccine Recommendations Into Action 527

C. Laine, A. Qaseem, and D.V. Moyer

This article summarizes the ACP/*Annals* Forum held on 7 February 2024.

CME/MOC activity available at [Annals.org](https://www.annals.org)



Ideas and Opinions

Strengthening the Integrity of the Match: A Novel, Comprehensive, Standardized, and Transparent Postinterview Communication Policy 529

C.C. Smith, T. Barton, R. Berman, N. Chida, K.P. Steinberg, M. Yialamas, A. Zaas, N. DeMelo, and J.T. Katz

The authors of this commentary propose changes in post-interview communication between individual programs and applicants in the National Resident Matching Program.

U.S. Food and Drug Administration Updates in Nutrition Labeling: What Clinicians Need to Know 532

H.J. Warraich, L. Carroll, R.A. McKinnon, C. Kavanaugh, and R.M. Califf

Food labeling can be a highly effective public health tool to promote consumption of healthier foods and to effect positive reformulation by manufacturers. This article summarizes recent efforts by the U.S. Food and Drug Administration to update information found on food labels, including making the information more simple, visible, and reflective of current nutritional science.



Editorials

Beyond the Bacillus: Closing Gaps in Tuberculosis Health Disparities Requires Targeting Social Determinants 535

K.G. Castro and N.S. Shah

In their article, Li and colleagues present a robust analysis of national tuberculosis (TB) surveillance data from 2011 to 2021 that reinforces how TB persistently preys on racial and ethnic minorities despite TB incidence decreasing in the United States. The editorialists discuss the findings and emphasize the urgent need to consider factors beyond the tubercle bacillus that contribute to the persistent disparities in TB disease.

Race, Health Care Algorithms, and Precision Health Equity 537

N.R. Powe

In their article, Siddique and colleagues report a systematic review of literature relevant to the question of the benefits and risks of incorporating race into clinical algorithms. The editorialist discusses the findings and the gaps in knowledge to guide decisions about factors that improve clinical algorithms and do not foster health disparities.



On Being a Doctor

Little Miracles 539

M. Bhatta

Perhaps none of us is a hero, or perhaps all of us are.



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J. Coulehan

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J. Zarconi



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Screening for Colorectal Cancer

CME/MOC activity available at [Annals.org](https://www.annals.org)



ACP Journal Club

JC37

The Best New Evidence for Patient Care

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