

OCEEDINGS

www.mayoclinicproceedings.org







Table of Contents

May 2019 Volume 94 Number 5

The June online issue of Proceedings will be available by Monday, June 3. Sign up for an alert to the online Table of Contents at www.mayoclinicproceedings.org

In The Limelight

In the Limelight: May 2019 Karl A. Nath

Editorials

- 742 Herpes Zoster, a Rash of Cerebrovascular Events Maria A. Nagel and Andrew N. Bubak
- 745 New Guidelines, Increasing Hypertension Numbers, Resistance and Resistance to Change? Hector O. Ventura, Merrill H. Stewart, and Carl J. Lavie
- 748 Beyond Biomarkers: Machine Learning in Diagnosing Acute Kidney Injury Bruce A. Molitoris
- An Unexpected FLNC Phenotype: Expanding the Clinical Spectrum or a Second-Hit Disease 751 Mechanism? Jodie Ingles and Christopher Semsarian
- 754 The Compass: A New Mayo Clinic Proceedings Feature Dedicated to Topics in Bioethics and Health Humanities 41 North Committee September 1988 And the Residence of the Committee of t Daniel K. Hall-Flavin and Richard R. Sharp

Commentary

Low Vitamin B12 and Parkinson Disease: Potential Link to Reduced Cholinergic Transmission 757 and Severity of Disease Stuart J. McCarter, Levi M. Teigen, Allison R. McCarter, Eduardo E. Benarroch, Erik K. St. Louis, 100 and Rodolfo Savica (Company of the second o

Original Articles

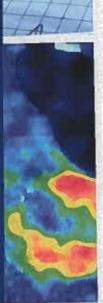
763 Analysis of Vascular Event Risk After Herpes Zoster From 2007 to 2014 US Insurance

Brandon J. Patterson, Debora A. Rausch, Debra E. Irwin, Michael Liang, Songkai Yan, and Barbara P. Yawn 😘 🦚 🛟

Herpes zoster was associated with an increased risk of composite events, transient ischemic attack, and stroke in adults in the period around diagnosis.











776 Prevalence of Apparent Treatment-Resistant Hypertension in the United States According to the 2017 High Blood Pressure Guideline

Kershaw V. Patel, Xilong Li, Nitin Kondamudi, Muthiah Vaduganathan, Beverley Adams-Huet, Gregg C. Fonarow, Wanpen Vongpatanasin, and Ambarish Pandey

Patients often require multiple medications for blood pressure management but are frequently prescribed only 1 or 2 antihypertensive drug classes while still above their target blood pressure.

783 Automated Continuous Acute Kidney Injury Prediction and Surveillance: A Random Forest Model

Caitlyn Chiofolo, Nicolas Chbat, Erina Ghosh, Larry Eshelman, and Kianoush Kashani The detection of acute kidney injury is often delayed. Using this prediction model, dinicians may gain more than 6 golden hours to prevent acute kidney injury.

793 Optimization Sprints: Improving Clinician Satisfaction and Teamwork by Rapidly Reducing Electronic Health Record Burden

Amber Sieja, Katie Markley, Jonathan Pell, Christine Gonzalez, Brian Redig, Patrick Kneeland, and Chen-Tan Lin

Teamwork and satisfaction improved after a short-term, intensive, multidisciplinary intervention designed to improve the experience using the electronic health record.

Inflammation Is Strongly Associated With Cardiorespiratory Fitness, Sex, BMI, and the Metabolic Syndrome in a Self-reported Healthy Population: HUNT3 Fitness Study

Erik Madssen, Eli-Anne Skaug, Ulrik Wisløff, Øyvind Ellingsen, and Vibeke Videm

Low cardiorespiratory fitness should be considered a factor contributing to systemic inflammation. Reducing body weight and improving cardiorespiratory fitness may positively affect C-reactive protein levels.

Hypertensive Diseases of Pregnancy Increase Risk of Readmission With Heart Failure: A National Readmissions Database Study

Junaid Nizamuddin, Atul Gupta, Vijal Patel, Mohammed Minhaj, Sarah L Nizamuddin, Ariel L Mueller, Heba Naseem, Avery Tung, Sarosh Rana, and Sajid Shahul 🕕

In women with hypertensive disease of pregnancy, most readmissions with a diagnosis of heart failure after delivery occurred within 2 weeks of initial discharge.

Treatment of Temporomandibular Dysfunction With Hypertonic Dextrose Injection (Prolotherapy): A Randomized Controlled Trial With Long-term Partial Crossover Wynand Francois Louw, K. Dean Reeves, Stanley K.H. Lam, An-Lin Cheng, and David Rabago In study participants with temporomandibular dysfunction, intra-articular dextrose prolotherapy was superior to

Brief Report

lidocaine injections.

833 Cardiorespiratory Fitness and the Risk of Serious Ventricular Arrhythmias: A Prospective Cohort Study

Jan A. Laukkanen, Carl J. Lavie, Hassan Khan, Sudhir Kurl, and Setor K. Kunutsor

Clinical Practice Guidelines

The International Society for the Study of Women's Sexual Health Process of Care for the Identification of Sexual Concerns and Problems in Women

Sharon J. Parish, Steven R. Hahn, Sue W. Goldstein, Annamaria Giraldi, Sheryl A. Kingsberg, Lisa Larkin, Mary Jane Minkin, Vivien Brown, Kristin Christiansen, Rose Hartzell-Cushanick, Alyse Kelly-Jones, Jordan Rullo, Richard Sadovsky, and Stephanie S. Faubion

Special Article

857 Communication Challenges: A Spotlight on New-Onset Refractory Status Epilepticus
Teneille E. Gofton, Nora Wong Lawrence J. Hirsch, and Sara E. Hocker

Review

ow.

ove

die

nal

864 Left Atrial Appendage Occlusion for The Unmet Clinical Needs of Stroke Prevention in Nonvalvular Atrial Fibrillation
David R. Holmes Jr., Mohamad Alkhouli, and Vivek Reddy

Concise Review for Clinicians-CME Credit Offered

Acute Flaccid Myelitis: A Clinical Overview for 2019

Yasaman Fatemi and Rana Chakraborty

Please note that articles with an "e" page designation are available only in the online version of the Journal at www.mayoclinicproceedings.org

Residents' Clinic

63-Year-Old Man With Fever, Chills, and Myalgias Alexander J. Ryu and Jeffrey B. Geske

71-Year-Old Man Presenting With Postoperative Chest Tightness
Robert C. Ward, Megha Prasad, and Robert L. Frye

69-Year-Old Woman With Fevers, Diarrhea, and Abdominal Pain
Courtney E. Harris, Claire L. Jansson-Knodell, and Abinash Virk

Thematic Review Series on Neurosciences-CME Credit Offered

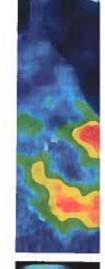
Mesenchymal Stromal Cell Therapies for Neurodegenerative Diseases

Nathan P. Staff, David T. Jones, and Wolfgang Singer

Case Report

A Novel Truncating Variant in FLNC-Encoded Filamin C May Serve as a Proarrhythmic Genetic Substrate for Arrhythmogenic Bileaflet Mitral Valve Prolapse Syndrome
Sahej Bains, David J. Tester, Samuel J. Asirvatham, Peter A. Noseworthy, Michael J. Ackerman, and John R. Giudicessi

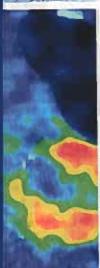
















Letters to the Editor

- 914 Factitial Panniculitis Associated With Cosmetic Filler

 Zerelda Esquer Garrigos, Audrey N. Schuetz, and Margot S. Peters
- 915 Probable Invasive Pulmonary Cryptococcosis and Possible Cryptococcal Empyema in CLL Treated With Frontline Ibrutinib

 Amber B. Koehler, Prakhar Vijayvargiya, and Wei Ding
- 917 Chronic and Complex Myofascial Pain Syndromes in Chronic Abdominal Wall Pain

 George Comerci Jr., Brian M. Shelley, and Benson R. Daitz
- 917 In Reply: Chronic and Complex Myofascial Pain Syndromes in Chronic Abdominal Wall Pain
 Amrit K. Kamboj, Patrick Hoversten, and Amy S. Oxentenko
- 918 Acute Myocardial Infarction During Pregnancy and the Puerperium: Experiences and Challenges From Southern India
 Subramanian Senthilkumaran, Ramachandran Meenakshisundaram, Wedatallah Osman, and Ponniah Thirumalaikolundusubramanian
- 919 In Reply—Acute Myocardial Infarction During Pregnancy and the Puerperium: Experiences and Challenges From Southern India

 Nathaniel R. Smilowitz and Harmony R. Reynolds
- The Importance of Educational Interventions and Regional Analgesia in Tackling the Opioid
 Crisis in the United States
 Hytham K.S. Hamid
- 921 In Reply—The Importance of Educational Interventions and Regional Analgesia in Tackling the Opioid Crisis in the United States

 Matthew J. Ziegelmann, Elizabeth B. Habermann, and Matthew T. Gettman

Francisco del craci Programmo Verna Decembra del Carro Decembra Palamento

AND THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PART

Medical Images

- 923 Foreign Body Impaction in the Esophagus

 Masayuki Shibata and Tateaki Naito
- 924 Erdheim-Chester Disease
 Alexander Poellinger and Joris Hrycyk

Path to Patient Image Quiz

926 Splenic Hemangioma
Lori A, Erickson

Stamp Vignette on Medical Science

Andreas Vesalius and De Fabrica
Ahmadreza Afshar, David P. Steensma, and Robert A. Kyle

Art at Mayo Clinic

Nuestro Senor de los Temblores by Anonymous Margaret R. Wentz

Other Features

33A

Professional Opportunities

Coming Soon...

Effectiveness of Cancer Screening

Diagnostic Accuracy in Primary Care E-Visits

Antimicrobial Resistance: Practical Interventions

Relevance of Physical Fitness and Adiposity on Life Expectancy

What to Offer Patients With Severe Obesity Who Do Not Undergo Bariatric Surgery?

Hospital Charges for Urologic Surgery

Renal Infarction and Renal Function in Patients With Cardiac Amyloidosis

Functional Disability in Rheumatoid Arthritis

Thyrotoxicosis: Diagnosis and Management

Brain MRI Findings in Infective Endocarditis

Wernicke Encephalopathy

Hereditary Breast-Ovarian Cancer Syndromes

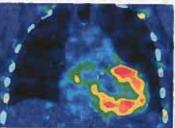
Hereditary Gastrointestinal Cancer Syndromes

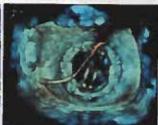
Oral Anticoagulation for Stroke Prevention in Patients With Atrial Fibrillation

Renal Replacement Therapy After Left Ventricular Assist Device Implantation

Cover Image



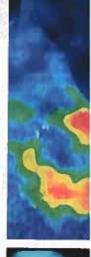


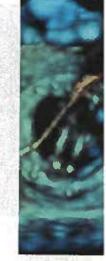




The cover image features a cardiovascular theme. The outer left panel displays the stethoscope, the time-honored instrument for listening; this symbolizes individualized care that listens and responds to the patient. Cardiac evaluation may involve a noninvasive office test, the ECG, and, where indicated, noninvasive imaging, in this case, a SPECT CT of the heart (left-of-center) showing increased uptake of technetium pyrophosphate in diagnosing wild-type transthyretin cardiac amyloidosis. The right-of-center panel is from a 3D echocardiogram, left atrium-view of a mechanical mitral bileaflet prosthesis sewing ring and prosthesis leaflets during percutaneous transcatheter closure of a perivalvular leak. A guide wire hovers over the prosthesis, and the imager is guiding the interventional cardiologist to position the tip of the guide wire through one of the perivalvular leak sites. The outer right panel depicts a surgical team involved in cardiac surgery and underscores the importance of teamwork.









und

the