

MAYO CLINIC PROCEEDINGS

www.mayoclinicproceedings.org







Table of Contents

July 2020

Volume 95

Number 7

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

In The Limelight

1301 In the Limelight: July 2020

Karl A. Nath

Editorials

1304 The 301 Classification: Old School Meets New School Gabor Bagameri and John M. Stulak

"Correlation Does Not Imply Causation": Bradford Hill, Causative Inference, and Obesity-Related Neuropathy

A. Gordon Smith

1310 Introduction to Thematic Reviews on Neurovascular Diseases
Robert D. Brown Jr., Giuseppe Lanzino, and David F. Kallmes

Medical Image

1313 Purple Fingers and Toes
Hadir Shakshouk and Julia S. Lehman

Commentaries

1315 The Odyssey of Risk Framing in Cardiovascular Medicine: A Patient-Centered Perspective Mohamad Alkhouli and Charanjit S. Rihal

1318 Leaks of Clinical Trial Data and Research Integrity
S. Vincent Rajkumar and Priya Sampathkumar

Perspectives and Controversies

1320 Contact Tracing to Manage COVID-19 Spread—Balancing Personal Privacy and Public Health Suraj Kapa, John Halamka, and Ramesh Raskar

1323 Time to Expand Access and Utilization of Home Dialysis: Lessons From the COVID-19 Pandemic Lauren D. Stem and Sushrut Waikar



Preventing HIV Outbreaks in Local Communities Among People Who Inject Drugs and lead 1325 Philip J. Peters

Original Articles

ted

h

mic

nued

The 301 Classification: A Proposed Modification to the Stanford Type B Aortic Dissection Classification for Thoracic Endovascular Aortic Repair Prognostication

Yang Y. Ge, Dan Rong, Xiao H. Ge, Jian H. Miao, Wei D. Fan, Xiao P. Liu, and Wei Guo

The 301 classification, a modified Stanford classification system in the era of endovascular repair, appears to improve the risk stratification of patients with type B aortic dissection undergoing thoracic endovascular aortic repair.

Central Obesity is Associated With Neuropathy in the Severely Obese 1342

Brian C. Callaghan, Evan Reynolds, Mousumi Banerjee, Ericka Chant, Emily Villegas-Umana, DECOLOGICAL and Eva L. Feldman 🚳

Waist circumference, but not general obesity, is significantly associated with neuropathy.

Marked Up-Regulation of ACE2 in Hearts of Patients With Obstructive Hypertrophic 1354 Cardiomyopathy: Implications for SARS-CoV-2-Mediated COVID-19

J. Martijn Bos, Virginia B. Hebl, Ann L. Oberg, Zhifu Sun, Daniel S. Herman, Polakit Teekakirikul, Jonathan G. Seidman, Christine E. Seidman, Cristobal G. dos Remedios, Joseph J. Maleszewski, Hartzell V. Schaff, Joseph A. Dearani, Peter A. Noseworthy, Paul A. Friedman, Steve R. Ommen, Frank V. Brozovich, and Michael J. Ackerman

The 5-fold increase in ACE2 protein may confer increased risk for COVID-19 manifestations and outcomes in patients with increased ACE2 transcript expression and protein levels in the heart.

1369 Cardiovascular Risk Factors and Atherosclerotic Cardiovascular Events Among Incident Cases of Systemic Sclerosis: Results From a Population-Based Cohort (1980-2016)

Reto D. Kurmann, Avneek S. Sandhu, Cynthia S. Crowson, Eric L. Matteson, Thomas G. Osborn, Kenneth J. Warrington, Rekha Mankad, and Ashima Makol 🌎

The increased rate of cardiovascular events in patients with systemic sclerosis despite the absence of traditional cardiovascular risk factors warrants higher vigilance for cardiovascular disease in patients with systemic sclerosis.

1379 Cardiorespiratory Fitness and Incident Stroke Types: The FIT (Henry Ford Exercise Testing)

Mahmoud Al Rifai, Michael J. Blaha, Amjad Ahmed, Fatimah Almasoudi, Michelle C. Johansen, Waqas Qureshi, Sherif Sakr, Salim S. Virani, Clinton A. Brawner, Jonathan K. Ehrman, Steven J. Keteyian, and Mouaz H. Al-Mallah 😝

In a large ethnically diverse cohort of patients referred for treadmill stress testing, cardiorespiratory fitness is inversely associated with risk for ischemic and hemorrhagic stroke.

Prevalence, Awareness, Treatment, and Poor Control of Hypertension Among Young American 1390 Adults: Race-Stratified Analysis of the National Health and Nutrition Examination Survey

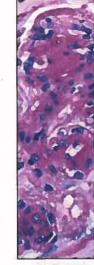
Vibhu Parcha, Nirav Patel, Rajat Kalra, Garima Arora, and Pankaj Arora

Nearly one in every three non-Hispanic young black and one in every five young Mexican American and non-Hispanic white adults have hypertension.

Efficacy and Safety of Tofacitinib, Baricitinib, and Upadacitinib for Rheumatoid Arthritis: A 1404 Systematic Review and Meta-Analysis

Faping Wang, Ling Sun, Shaohua Wang, John M. Davis, III, Eric L. Matteson, M. Hassan Murad, Fengming Luo, and Robert Vassallo

Tofacitinib, baricitinib, and upadacitinib significantly improve rheumatoid arthritis control.







Brief Reports Tooland W. algorithman and the algorithm and the alg

Drive-Through Testing: A Unique, Efficient Method of Collecting Large Volume of Specimens
During the SARS-CoV-2 (COVID-19) Pandemic

Aditya Shah, Douglas Challener, Aaron J. Tande, Maryam Mahmood, John C. O'Horo, Elie Berbari,
and Sarah J. Crane

A Framework for Evidence Synthesis Programs to Respond to a Pandemic
M. Hassan Murad, Tarek Nayfeh, Meritxell Urtecho Suarez, Mohamed O. Seisa, Rami Abd-Rabu,
Magdoleen Hassan Eltayeb Farah, Mohammed Firwana, Bashar Hasan, Tabinda Jawaid, Sahrish Shah,
Victor Torres Roldan, Larry Prokop, Zhen Wang, and Samer Mohir Saadi

Medical Image

1430 Small Bowel Pseudomelanosis
Hyun Ji, Zongming E. Chen, and Sunanda V. Kane

Special Articles

A Framework for Sustainable Contact Tracing and Exposure Investigation for Large Health Systems

Laura Breeher, Ashton Boon, Caitlin Hainy, M. Hassan Murad, Christopher Wittich, and Melanie Swift

Cardiomyopathy, Implications for SARS-CoV-2-Mediated COVID-IO

1445 Obesity and Outcomes in COVID-19: When an Epidemic and Pandemic Collide
Fabian Sanchis-Gomar, Carl J. Lavie, Mandeep R. Mehra, Brandon Michael Henry, and Giuseppe Lippi

Reviews

1454 Treatment Considerations for COVID-19: A Critical Review of the Evidence (or Lack Thereof)
Prakhar Vijayvargiya, Zerelda Esquer Garrigos, Natalia E. Castillo Almeida, Pooja R. Gurram, Ryan W. Stevens,
and Raymund R. Razonable

A Collaborative Multidisciplinary Approach to the Management of Coronavirus Disease 2019 in the Hospital Setting

Raymund R. Razonable, Kelly M. Pennington, Anne M. Meehan, John W. Wilson, Adam T. Froemming, Courtney E. Bennett, Ariela L. Marshall, Abinash Virk, and Eva M. Carmona

1482 Hereditary Predisposition to Hematopoietic Neoplasms: When Bloodline Matters for Blood Cancers

Abhishek A. Mangaonkar and Mrinal M. Patnaik

Concise Review for Clinicians-CME Credit Offered

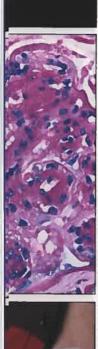
Lactose Intolerance: A Concise Review to Skim the Surface

Claire L. Jansson-Knodell, Edward J. Krajicek, Dennis A. Savaiano, and Andrea S. Shin

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

1506 63-Year-Old Woman With Fever, Generalized Weakness, and Syncope
Sarvenaz (Sarvie) Esmaeilzadeh, Fadi W. Adel, and John G. Park







r 7

de

) in

nued

52-Year-Old Woman With Fever, Diaphoresis, and Abdominal Pain Thomas J. Breen, Brenden S. Ingraham, and Jacob C. Jentzer

Thematic Review on Neurovascular Diseases

Contemporary Management of Acute Ischemic Stroke Across the Continuum: From TeleStroke to Intra-Arterial Management

Bart M. Demaerschalk, Eugene L. Scharf, Harry Cloft, Kevin M. Barrett, Kara A. Sands, David A. Miller, M. Demaerschalk, Eugene L. Scharf, Harry Cloft, Kevin M. Barrett, Kara A. Sands, David A. Miller, M. Demaerschalk, Eugene L. Scharf, Harry Cloft, Kevin M. Barrett, Kara A. Sands, David A. Miller, M. Demaerschalk, Eugene L. Scharf, Harry Cloft, Kevin M. Barrett, Kara A. Sands, David A. Miller, M. Demaerschalk, Eugene L. Scharf, Harry Cloft, Kevin M. Barrett, Kara A. Sands, David A. Miller, M. Demaerschalk, Eugene L. Scharf, Harry Cloft, Kevin M. Barrett, Kara A. Sands, David A. Miller, M. Demaerschalk, Eugene L. Scharf, Harry Cloft, Kevin M. Barrett, Kara A. Sands, David A. Miller, M. Demaerschalk, Eugene L. Scharf, Harry Cloft, Kevin M. Barrett, Kara A. Sands, David A. Miller, M. Demaerschalk, Eugene L. Scharf, M. Barrett, Kara A. Sands, David A. Miller, M. Demaerschalk, M. De and James F. Meschia Disorders of Consciousness and Disability 1 see

anovation Lessons From the COVID-19 Pandemic Pregnancy

Thematic Review on Vaccines

1530 Immunization Strategies to Span the Spectrum of Immunocompromised Adults Jennifer A. Whitaker

Medical Image

Nodular Growths on the Lingual Surface of the Mandibular Jaw Indoor Environment and Viral Infections Victoria C. Collier and Christopher D. Jackson

Letters to the Editor

- Rationing of Medical Supplies, Including Ventilators, for Patients With Kidney Disease 1550 Gaurav Jain
- Comparison of Outcomes With Metformin and Sulfonylureas in Chronic Kidney Disease 1551 Larry A. Weinrauch and John A. D'Elia
- In Reply Comparison of Outcomes With Metformin and Sulfonylureas in Chronic Kidney 1552 verse Events Reported to the Passage Navdeep Tangri and Reid Whitlock
- Angiotensin-Converting Enzyme 2 and the Resolution of Inflammation: In Support of 1552 Continuation of Prescribed Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor **Blockers**

Felice L. Gersh

In reply—Angiotensin-Converting Enzyme 2 and the Resolution of Inflammation: In Support of 1553 Continuation of Prescribed Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor

Fabian Sanchis-Gomar, Carl J. Lavie, Carme Perez-Quilis, Brandon M. Henry, and Giuseppe Lippi

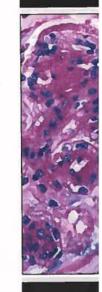
manages that the continue of the acciliance of of the

Path to Patient Image Quiz

1557 Hepatic Focal Nodular Hyperplasia Lori A. Erickson and Michael S. Torbenson stained frigulogic image of dispetit nephrope

Stamp Vignette on Medical Science

e75 James Allison and Cancer Immunotherapy David P. Steensma and Robert A. Kyle 🚳







Devel (11d Woman With Fever, Diaphorates, and Abdominal Pain

Contemporary Management of Acute Ischemic Stroke Across the Continuum from EdeStroke to



Chandelier by Dale Chihuly Margaret R. Wentz



Acute QT Interval Modifications During Hydroxychloroquine-Azithromycin Treatment in **COVID-19 Infection**

Clinical Trial Endpoints in Severe COVID-19

Innovation Lessons From the COVID-19 Pandemic

Nodular Glowths on the Lingual Surface of the Mandibular law Indoor Environment and Viral Infections

Cardiovascular Health in the COVID-19 Era

Sex Differences in COVID-19 Case Fatality Rate

Smell and Taste Dysfunction in Patients With and Sulfonylureas in Chronic Kidney Discot-CIVOO

Sex Hormones and COVID-19

The Telemedicine Musculoskeletal Examination

Disorders of Consciousness and Disability Law

Medical ImagestubA besimoromonomial to must Rational Statin Allocation for Primary Prevention

Thematic Review on Vacenes

SARS-CoV-2 Infection and COVID-19 During Pregnancy

Disability Evaluation and Treatment for Patients With Psychiatric Disorders

Acupuncture in Patients with Irritable Bowel **Syndrome**

A Three-Stage Protocol for Serious Illness Conversations

1552 Rigidensin-Curvering Cazyane I and the Resolution of Inflammation in Sapple

Adverse Events Reported to the FDA Related to

Cover Image

