



MAYO CLINIC PROCEEDINGS

Innovations, Quality & Outcomes

www.mcpiqojournal.org

Mission

Building upon *innovations* in research, advancing the *quality* of medical and surgical care,
and promoting optimal patient *outcomes*.

Editor-in-Chief

Thomas C. Gerber, MD, PhD
Mayo Clinic, Rochester, MN

Editor-in-Chief, Mayo Clinic Proceedings

Karl A. Nath, MBChB
Mayo Clinic, Rochester, MN

Deputy Editor

Lori A. Erickson, MD
Mayo Clinic, Rochester, MN

Associate Editor

David J. Ballard, MD,
MSPH, PhD
Healthcare Policy
University of North Carolina
at Chapel Hill

Editorial Board

Samuel J. Asirvatham, MD
Cardiovascular Diseases
Mayo Clinic, Rochester, MN

Thomas J. Beckman, MD
Medical Education
Mayo Clinic, Rochester, MN

Keith H. Berge, MD
Medical Ethics
Mayo Clinic, Rochester, MN

J. Michael Bostwick, MD
Psychiatry
Mayo Clinic, Rochester, MN

Petra M. Casey, MD
Obstetrics and Gynecology
Mayo Clinic, Rochester, MN

Douglas B. Coursin, MD
Anesthesiology, Critical Care Medicine
University of Wisconsin-Madison

Mark Denis P. Davis, MD
Dermatology
Mayo Clinic, Rochester, MN

Jennifer (Jen) DeVoe, MD, DPhil
Family Medicine
Oregon Health & Science University
Portland, OR

Matthew T. Drake, MD, PhD
Endocrinology
Mayo Clinic, Rochester, MN

Philip R. Fischer, MD
Pediatrics and Adolescent Medicine
Mayo Clinic, Rochester, MN

Matthew T. Gettman, MD
Urology, Men's Health
Mayo Clinic, Rochester, MN

William J. Hogan, MB, BCh
Hematology
Mayo Clinic, Rochester, MN

W. Michael Hooten, MD
Pain (Neurology)
Mayo Clinic, Rochester, MN

Cassie Kennedy, MD
Pulmonary Medicine, Critical Care Medicine
Mayo Clinic, Rochester, MN

Paul B. Klaas, JD
Legal
North Coast Arbitration Chambers
Minneapolis, MN

Manish Kohli, MD
Medical Oncology
Mayo Clinic, Rochester, MN

Alexander H. Krist, MD, MPH
Family Medicine
Virginia Commonwealth University
Richmond, VA

Carl (Chip) J. Lavie, MD
Cardiovascular Diseases
John Ochsner Heart and Vascular Institute
New Orleans, LA

David L. Levin, MD, PhD
Radiology
Mayo Clinic, Rochester, MN

Jay Mandrekar, PhD
Biomedical Statistics and Informatics
Mayo Clinic, Rochester, MN

John G. Mastrorarde, MD
Pulmonary Medicine, Critical Care Medicine
Ohio State University, Columbus, OH

Michelle L. Mauermann, MD
Neurology
Mayo Clinic, Rochester, MN

James F. Meschia, MD
Neurologic Diseases, Stroke
Mayo Clinic, Jacksonville, FL

Joseph A. Murray, MD
Gastroenterology and Hepatology
Mayo Clinic, Rochester, MN

S. Vincent Rajkumar, MD
Hematology
Mayo Clinic, Rochester, MN

Kannan Ramar, MBBS, MD
Pulmonary Medicine
Mayo Clinic, Rochester, MN

Andrew D. Rule, MD
Nephrology and Hypertension
Mayo Clinic, Rochester, MN

Priya Sampathkumar, MD
Infection Control
Mayo Clinic, Rochester, MN

Dawn C. Scantlebury, MBBS
Cardiovascular Diseases
University of the West Indies, St. Michael,
Barbados

Joseph I. Sirven, MD
Neurologic Diseases, Epilepsy
Mayo Clinic, Phoenix, AZ

Robert J. Spinner, MD
Neurologic Surgery, Orthopedics
Mayo Clinic, Rochester, MN

Erik St. Louis, MD
Neurology
Mayo Clinic, Rochester, MN

Thomas D. Thacher, MD
Family Medicine
Mayo Clinic, Rochester, MN

Adrian Vella, MD
Endocrinology
Mayo Clinic, Rochester, MN

Christopher M. Wittich, MD
*General Internal Medicine, Medical
Education*
Mayo Clinic, Rochester, MN

Mayo Clinic Proceedings: Innovations, Quality & Outcomes Staff

Managing Editor — Latoya Fladger, BS
Business Manager — Debra Eagle, MBA

Editorial Offices

Mayo Clinic Proceedings: Innovations, Quality & Outcomes
201 Shannon Oaks Circle Suite 124
Cary, NC 27511

Telephone: (919) 650-1459 ext 217

Fax: (919) 287-2768

E-mail: mcpiqo@gmail.com

Direct editorial information and inquiries to the above offices.