

TABLE OF CONTENTS

FROM THE EDITOR

Modifying genetic diseases— Promises to be realized? 7

Genetic engineering offers hope to patients and families who previously had little.

Brian F. Mandell, MD, PhD

THE CLINICAL PICTURE

Giant uric acid stone in the bladder 14

The patient said he had to urinate 30 to 40 times a day, but only in small amounts.

Alexander E. Sullivan, MD; Suchita Shah Sata, MD

COMMENTARY

Are we all clear? Unintended shocks to caregivers during cardiopulmonary resuscitation 16

Defibrillators are designed to affect electrical activity in the patient's heart. Caregivers, be careful!

David R. Lowery, MD, FASA, Maj, MC, USA;
Daniel Cantillon, MD, FACC, FHRS; Donn Marciniak, MD

REVIEW

Sickle cell disease: A primary care update 19

Survival has improved, but patients still face multiorgan damage, chronic anemia, and debilitating pain crises.

Grace Onimoe, MD; Seth Rotz, MD

EDITORIAL

Gene therapy in sickle cell disease: Possible utility and impact 28

CRISPR-Cas9 makes it possible to edit the patient's own genes, but questions remain.

Susanna A. Curtis, MD, MS; Niketa C. Shah, MD

CONTINUED ON PAGE 6

CLEVELAND
CLINIC
JOURNAL OF
MEDICINE

Online Features

Access

Cleveland Clinic Journal of Medicine content is readily available to all and is free of charge at www.ccjm.org.

Services

- Navigate quickly to articles in current and past issues via links and pull-down menus at the top of the home page. Use the search function to find a specific article, or browse by topic or article type.
- Continuing medical education and maintenance of certification activities are accessible from article links and from a CME/MOC pull-down menu on the home page. Participation is free.
- Follow links on the home page to a calendar of upcoming CME events.
- Click on the PDF symbol at the top of any online article to read, download, or print the article in PDF format.

Social Networking

To post a CCJM article to Facebook or Twitter, just click on the icon at the top of any online article.

www.ccjm.org

CONTINUED FROM PAGE 4

SYMPTOMS TO DIAGNOSIS



Fever in a traveler returning from Ethiopia 31

His symptoms began about 10 days after returning and had been going on for 11 days. What was the cause?

Ken Koon Wong, MD

REVIEW

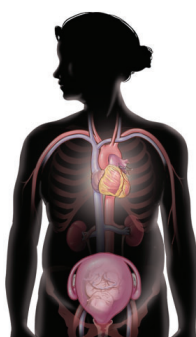


Cardio-obstetrics: 43

Recognizing and managing cardiovascular complications of pregnancy

Pregnancy can exacerbate known cardiovascular disorders and unmask previously unrecognized problems.

Kayle S. Shapero, MD, PhD; Nihar R. Desai, MD, MPH;
Robert W. Elder, MD; Heather S. Lipkind, MD;
Josephine C. Chou, MD, MS; Erica S. Spatz, MD, MHS



REVIEW



Sepsis and septic shock: 53

Guideline-based management

Sepsis requires prompt recognition, appropriate antibiotics, careful hemodynamic support, and control of the source of infection.

Siddharth Dugar, MD; Chirag Choudhary, MD, MBA;
Abhijit Duggal, MD, MPH, MSc, FACP

LETTERS

Is diabetes still a compelling indication 9

for renin-angiotensin-aldosterone system inhibitors?

Robert Fakheri, MD; Sripal Bangalore, MD; Franz Messerli, MD;
Sunil Bhandari, MBChB, FRCP, PhD, M Clin Edu, FHEA;
Tasnim Momoni, MBChB, MRCP (UK); Duha Ilyas, MBBS, MRCP (UK)

LETTERS

How should diabetic dyslipidemia be treated? 11

Taher Modarressi, MD; Ting-I Lee, MD, PhD

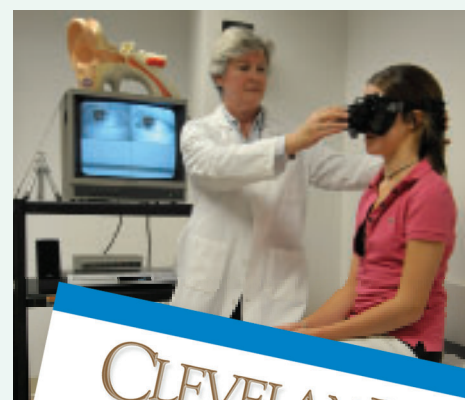
DEPARTMENTS

CME Calendar 30

CME/MOC Instructions Inside back cover

Upcoming Features

- **Familial hypercholesterolemia:**
Detect, treat, ask about family
- **Diabetes:**
Does type matter?
- **Overweight and anorexic**
- **Pharmacogenomics:**
An evolving clinical tool
- **DXA after menopause:**
To scan or not to scan?
- **A cough that won't go away**
- **Severe megaloblastic anemia**
- **Community-acquired pneumonia**
- **Endoscopic ultrasonography**
- **Drugs for migraine**



CLEVELAND CLINIC JOURNAL OF MEDICINE