OCTOBER 1999

VOLUME 66 • NUMBER 9 • ISSN 0891-1150

TABLE OF CONTENTS

IN THIS ISSUE

Update on acute coronary syndromes: A collaboration with readers 519

IM BOARD REVIEW

A 64-year-old woman with fever and acute polyarthritis 520

What is the likely cause of this patient's symptoms? A self-test on a clinical case.

O. WAZNI, H. GURM, AND C. NIELSEN

MEDICAL GRAND ROUNDS

Minimizing the risk of NSAID-induced GI bleeding 524

As many people die of NSAID-induced bleeding as die of AIDS. Physicians should prescribe these drugs more selectively, and advise patients to limit their use of over-the-counter products.

B.I. HIRSCHOWITZ

1-MINUTE CONSULT

In diagnosing hepatitis C, which patient needs which test? 529

A diagnostic algorithm that takes into account the patient's baseline risk.

C.A. MATTEONI AND Z.M. YOUNOSSI

CANCER DIAGNOSIS AND MANAGEMENT

Human papillomavirus typing and the reduction of cervical cancer risk 533

For women with low-grade abnormalities on their Pap smear, testing for human papillomavirus can give useful information, but also has limitations.

X.W. JIN, J. CASH, AND A.W. KENNEDY

CONTINUED ON PAGE 516

DEDICATED TO LIFELONG LEARNING

CLEVELAND CLINIC JOURNAL OF MEDICINE

JOHN D. CLOUGH, MD *Editor-in-Chief*
LINDA K. HENGSTLER *Editor and Publisher*
PHILLIP E. CANUTO *Executive Editor*
RAY BORAZANIAN *Managing Editor*
DAVID A. HUDDLESTON *Manuscript Editor*
LOUISA R. PASKERT *Editorial Assistant*
AUDRA BUTDORF *Editorial Assistant/Reprints*
JESSICA ANCKER *Editorial Services*
BRUCE M. MARICH *Production Manager*
JOHN E. PRESSELLO *Art Director*
ROBERT J. DEMAREST *Medical Art Director*
NANCY HEIM, CMI *Medical Illustrator*

EDITORIAL ADVISORY BOARD

MUZAFFAR AHMAD, MD
WILMA FOWLER BERGFELD, MD
EMMANUEL L. BRAVO, MD
RAY W. GIFFORD, JR, MD
WILLIAM R. HART, MD
ERIC A. KLEIN, MD
FLOYD D. LOOP, MD
DOUGLAS S. MOODIE, MD
RICHARD H. NODAR, PHD
WILLIAM L. PROUDFIT, MD
WILLIAM C. SHELDON, MD
ERIC J. TOPOL, MD
HERBERT P. WIEDEMANN, MD

ASSOCIATE EDITORS

ALEJANDRO C. ARROLIGA, MD
DAVID BRONSON, MD
BEN H. BROUHARD, MD
MARIE BUDEV, DO
WILLIAM D. CAREY, MD
WILLIAM A. CHILCOTE, MD
BRIAN G. DONLEY, MD
GARY FRANCIS, MD
STEVEN M. GORDON, MD
HITINDER GURM, MD
GARY HOFFMAN, MD
BYRON J. HOOGWERF, MD
MANI S. KAVURU, MD
MANDY C. LEONARD, PHARMD
ANGELO A. LICATA, MD, PHD
DAVID L. LONGWORTH, MD
STEPHEN MAHONEY, MD
MAURIE MARKMAN, MD
ATUL C. MEHTA, MD
NEIL B. MEHTA, MD
FRANKLIN A. MICHOTA, MD
STEVEN NISSEN, MD
ROBERT M. PALMER, MD
NORMAN B. RATLIFF, MD
S. SETHU K. REDDY, MD
MARK ROTH, MD
DOUGLAS SEIDNER, MD
CATHY A. SILA, MD
FRANCK SKOBIERANDA, MD
HOLLY L. THACKER, MD
JAMES THOMAS, MD
DONALD G. VIDT, MD
WILLIAM S. WILKE, MD
MARC WILLIAMS, MD
JAMES B. YOUNG, MD
ZOBAIR YOUNOSSI, MD

CLEVELAND CLINIC FOUNDATION DIVISION OF EDUCATION

ANDREW J. FISHLEDER, MD *Chairman*
PHILLIP R. GARD *Administrator*

The *Cleveland Clinic Journal of Medicine* (ISSN 0891-1150) is published 10 times yearly by The Cleveland Clinic Foundation.

STATEMENTS AND OPINIONS expressed in the *Cleveland Clinic Journal of Medicine* are those of the authors and not necessarily of The Cleveland Clinic Foundation or its Board of Trustees.

CONFLICTS OF INTEREST: Current guidelines state that participants in CME activities should be made aware of any affiliation or financial interest that may affect an author's article. Each author has been requested to complete a disclosure form. The names of any authors declaring a potential conflict of interest are indicated with an asterisk.

SUBSCRIPTION RATES: U.S. and possessions: personal $70; institutional $90; single copy/back issue $10. Foreign: $90; single copy/back issue $12. Institutional (multiple-reader rate) applies to libraries, schools, hospitals, and federal, commercial, and private institutions and organizations. Individual subscriptions must be in the names of, billed to, and paid by individuals.

POSTMASTER ADDRESS CHANGES: *Cleveland Clinic Journal of Medicine*, NA32, 9500 Euclid Avenue, Cleveland, OH 44195

SUBSCRIPTIONS, EDITORIAL, REPRINTS, AND PRODUCTION: (same address as above)
Phone (216) 444-2661 • **Fax** (216) 444-9385 • **E-mail** ccjm@ccf.org
http://www.ccjm.org

ADVERTISING: Joseph Dennehy, Director, Sales and Marketing, 120 Castle Ridge Rd, Manhasset, NY 11030 • Phone (516) 365-8640 • Fax (516) 365-0587

COPYRIGHT© 1999 THE CLEVELAND CLINIC FOUNDATION
PRINTED IN U.S.A.

CONTINUED FROM PAGE 514

REVIEW

Searching the Internet for medical information: Practical tips 543

Finding a specific piece of information on the Internet can be difficult, but a few simple search techniques can make the task easier.

N. MEHTA

ISSUES IN MEDICINE

Keeping our patients' secrets 554

Controversy over a proposed "unique health identifier" has focused attention on how to resolve the inherent conflict between the individual's right to privacy and the need for access to patient health information.

J.D. CLOUGH, D.W. ROWAN, AND D.E. NICKELSON

UPDATE ON ACUTE CORONARY SYNDROMES

Drug therapy, medical management, and interventional strategies 560

In this issue, we begin a series designed to guide the clinician through the bewildering array of treatment options.

G.S. FRANCIS

The pathogenesis and spectrum of acute coronary syndromes: From plaque formation to thrombosis 561

Acute coronary syndromes occur when vulnerable plaque ruptures, leading to acute thrombosis. With an illustration explaining this chain of events.

V.B. PATEL AND E.J. TOPOL

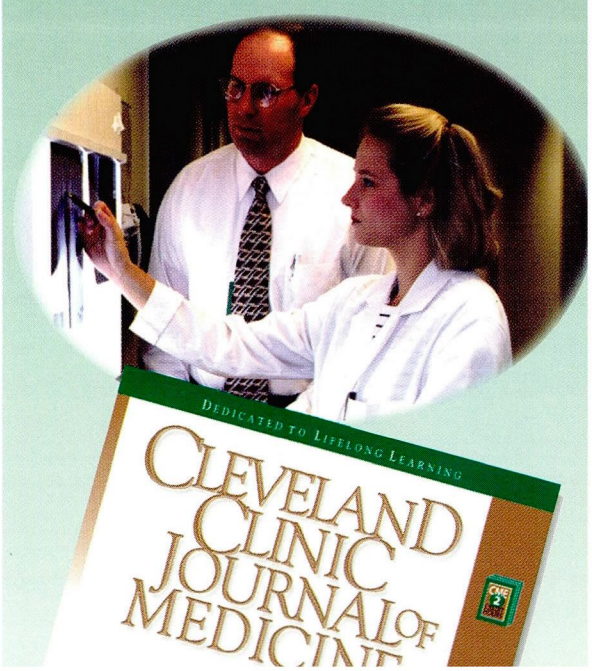
DEPARTMENTS

CME Calendar 532

CME Credit Test 575

VISIT OUR WEB SITE AT HTTP://WWW.CCJM.ORG

The *Cleveland Clinic Journal of Medicine* is peer-reviewed and indexed in *Index Medicus*.

UPCOMING FEATURES

- **Update on acute coronary syndromes: Oral antiplatelet drugs**
  In the next installment of our series on acute coronary syndromes, Cleveland Clinic cardiologists discuss how timely use of aspirin or other oral antiplatelet drugs could save thousands of lives per year.
- **The dilemma of nosocomial pneumonia**
  To treat empirically, or to wait for often-unreliable signs, symptoms, and diagnostic tests?
- **Breast cancer screening**
  How new technology is changing breast cancer management.
- **Gulf War syndrome**
  What is known? What is not?
- **The threat of bioterrorism**
  Would we recognize an attack, should one occur?
- **Lipid-lowering therapy**
  How low should the LDL go?