

Page 1

**Medtronic Exhibit 1462** 





Roger Barkin, MD

Denver, CO Clinical Communications/Adult

Michael Tomlanovich, MD Detroit, MI

Clinical Communications/OB/GYN Gail V. Anderson, Jr. MD Atlanta, GA

Selected Topics:

Toxicology Kenneth Kulig, MD Denver, CO

Prehospital Care Peter T. Pons, MD Denver, CO

ECG Commentary Ron Walls, MD Vancouver, Canada Denver, CO

Computers in the Emergency Department Stephen V. Cantrill, MD Denver, CO

Techniques and Procedures

George Sternbach, MD Stanford, CA Emergency Medicine in Review Ann Harwood-Nuss, MD

Jacksonville, FL **Emergency Case Records** Michael Brunko, MD Denver, CO

Medical Classics George Sternbach, MD Stanford, CA

Emergency Forum G. Richard Braen Boston, MA

Emergency Medicine and the Law

Education

Mary Ann Cooper Chicago, IL New Technologies

Alexander Trott, MD Cincinnati, OH Humanities and Medicine

Richard M. Ratzan, MD Book Reviews Edward J. Otten, MD

Cincinnati, OH

Abstracts Suchinta Hakim, MD Chicago, IL

Special Consultant Ernest E. Moore, MD Denver, CO

#### ☐ EDITORIAL BOARD

Tim Allen, MD Quebec, Canada

Howard Bessen, MD Torrance, CA Joseph Clinton, MD

Minneapolis, MN Robert Dailey, MD Oakland, CA

Daniel Danzl, MD Louisville, KY

Jan de Boer, MD, PhD Warnsveld, The Netherlands

Peter Doris, MD Chicago, Heights, IL Peter Fass, MD

Valhalla, NY Richard Feldman, MD Chicago, IL

John Gallagher, MD Bronx, NY

Jerris Hedges, MD Cincinnati, OH Kenneth Iserson, MD

Tucson, AZ Robert C. Jorden, MD Jackson, MS Gene Kallsen, MD

Fresno, CA Alois F. Karlbauer, MD Austria

Martin S. Kohn, MD Far Rockaway, NY John Lyman, MD Panama City, FL

Vincent Markovchick, MD Denver, CO James Matthews, MD Chicago, IL

Doug Mayeda, MD Colorado Springs, CO John W. McGill, MD Denver, CO

Kendall McNabney, MD Kansas City, MO John Moorhead, MD Portland, OR Jack Peacock, MD

El Paso, TX Bruce T. Rowat, MD Toronto, Ontario, Canada Ernie Ruiz, MD

Minneapolis, MN Robert Margulies, MD Jacksonville, NC Arthur Sanders, MD Tucson, AZ

Daniel T. Schelble, MD

Akron, OH John Schriver, MD Portland, OR Jeffrey Schwartz, MD, Capt, MC Greenley, CO

Steven Silverstein, MD Newton Lower Falls, MA

Robert D. Slay, MD, Col, MC San Antonio, TX
T. D. Sosnowski, MD

Edmonton, Alberta, Canada David Wagner, MD Philadelphia, PA Gerry Whelan, MD Los Angeles, CA Daniel D. Whitcraft, III, MD

Long Beach, CA Albert Yee, MD Milwaukee, WI

Editorial Office: Peter Rosen, MD, Editor-in-Chief: The Journal of Emergency Medicine, Denver General Hospital, 777 Bannock Street, Denver, CO 80204-4507.

Publishing, Subscription, and Advertising Offices: Pergamon Journals, Inc, Fairview Park, Elmsford, NY 10523, USA; or Pergamon Journals, Ltd, Headington Hill Hall, Oxford OX3 0BW, England.

Published Bimonthly. Annual institutional subscription rate (1987): US \$110.00; Two-year institutional subscription rate (1987/88): US \$209.00; Professional subscription rate (1987): US \$45.00; Student/Resident/Intern Rate: US \$25.00. Prices are subject to change without notice. Notify eight weeks in advance of address change with a copy of the subscription mailing label. Microform subscriptions: Information available upon request.

Copyright © 1987 Pergamon Journals Ltd

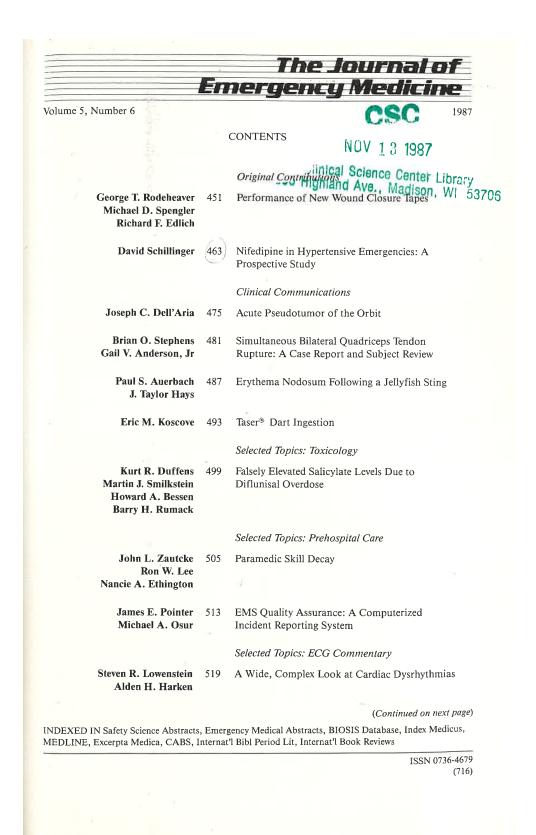
Copyright © 1987 Pergamon Journals Ltd

Printed in the USA.
Copyright Notice: It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher, of and when the article is accepted for publication. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform, or any other reproductions of similar nature and dranslations. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording, or otherwise, without permission in writing from the copyright, holds:
"Emergency Medicine" has been registered as a trademark by another party and is used by agreement with such other party, the details of which are available by writing to Pergamon Journals, Inc., Fairivew Park, Emford, NY 10523.

Photocopying information for users in the U.S.A.: The Item-Fee Code for this publication indicates that authorization to photocopy items for internal or personal use is granted by the copyright tolder for libraries or other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the standard fee for copyring beyond that permitted by Section 107 or 108 of the United States Copyright Law is paid. The appropriate emittance of \$3.00 per copy is paid directly the Copyright to other users the copyright copyright copyright of the copyright copyring to other users the copyright copyring to other

Permission for other use: The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for realist Specific written permission must be obtained from the publisher for such copying. Please contact the Subsidiary Rights Manager, Publishing Services Dept at either Pergamon Journals Ltd or Pergamon Journals Inc.

The Item-Fee Code for this publication is: 0736-4679/87 \$3.00 + .00



Page 3

**Medtronic Exhibit 1462** 





Timothy C. Evans	549	Airplane Propellers and Cynicism
		Editorials
George Sternbach	551	"Tasering" the Literature
D. Demetrios Zukin	553	New Wound Closure Tapes
Mary Ann Cooper	555	Cost Ignorance: Not Cost Containment
	557	Letters to the Editor
	561	Letters of Reply
		Education
Raymond P. Ten Eyck Joshua S. Vayer	563	Airway Management: A New Look at Old Models
		Administration of Emergency Medicine
John L. Lyman John B. McCabe	567	Emergency Department Care: Cost Awareness by Health Care Providers
	573	Abstracts
		Book Review
Patrick Fennell Susan Wason	581	Handbook of Common Poisonings in Children, 2nd Ed by American Academy of Pediatrics
	583	Calendar of Events
	585	Classifieds
	587	List of Reviewers
	589	Volume 5 Index
	607	Instructions for Contributors
This issue of <i>JEM</i> was	edited	by Dr George Sternbach, Associate Editor.

	Medical
	Classics
J F B. CHARRIÈRE: THE MAN	DELIND THE "EDENCH" CALLO
J F B. CHARRIERE. THE MAN	SEMIND THE TRENCH GAOG
Kenneth V. Iser	son, MD, FACEP
Section of Emergency Medicine, University of A Reprint address: Kenneth V. Iserson, MD, University of Arizona College of	FACEP, Section of Emergency Medicine,
☐ Abstract – Joseph-Frédéric-Benoît Char-	facture of metal wires. Meanwhile, ti
rière, a 19th century Parisian maker of surgical	French had developed a uniform, sta
instruments, has by virtue of his ingenuity and	dard gauge based on the metric system
advanced thinking, continued to have his pres-	This gauge was specifically designed f
ence felt in medicine throughout the 20th cen-	use in medical equipment, such as cath
tury. His most significant accomplishment was	ters and probes. The famous Parisi-
the development of a uniform, standard gauge specifically designed for use in medical equip-	maker of surgical instruments, Josep
ment such as catheters and probes. Unlike the	Frédéric-Benoît Charrière (Figure 1), d
gauge system adopted by the British for mea-	veloped this measurement system. Toda
surement of needles and intravenous catheters,	in the United States, this system is con
Charrière's system has uniform increments be-	monly referred to as French (Fr) sizing.
tween gauge sizes (1/3 of a millimeter), is easily	Charrière was born in 1803 in Cerni
calculated in terms of its metric equivalent,	in Gruyere, Fribourg Canton, Switze
and has no arbitrary upper end point. Today,	land. At the age of 13, he was sent to Pa
in the United States, this system is commonly	and apprenticed as a cutler (a maker
referred to as French (Fr) sizing. In addition to	cutting instruments, such as knives). Fo
the development of the French gauge, Char- rière made significant advances in ether admin-	years later he became both a master cut
istration, urologic, and other surgical instru-	and the owner of his own business aft
ments, and the development of the modern	the untimely and mysterious drowning
syringe.	his former teacher, whose business he a
36	quired. Charrière quickly developed a re
☐ Keywords – Charrière; French gauge;	utation among Paris surgeons as a skill
medical equipment; surgical equipment; ether	and innovative maker of surgical instr
anesthesia; urology	ments. Part of this reputation stemm
In the first half of the 19th century, the	from an incident that occurred shortly a
British, in the throes of the industrial rev-	ter he opened his business.
olution, were still trying to adapt an arbi-	Charity and harmonic the metal and sho
trary sizing system (the Stub's Gauge	Charrière was hammering the metal and sharening the lancets and knives, when into
which was adapted to the manufacture of	boutique flew a young man. By his wh
needles and catheters only in the 20th cen-	apron, his fine featured and intelligent fa
tury) in order to standardize their manu-	and by his distinguished build he could reco

, «c

RECEIVED: 23 March 1987; ACCEPTED: 16 April 1987

0736-4679/87 \$3.00 + .00

545



**Medtronic Exhibit 1462** 



# DOCKET

# Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

# **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

### API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

### **LAW FIRMS**

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

### **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

## **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

