

# Neurology

---

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF NEUROLOGY

JUNE 1996  
VOLUME 46  
NUMBER 6  
SUPPLEMENT I  
TO NEUROLOGY  
VOLUME 46

## THE USE OF PARENTERAL ANTIPILEPTIC DRUGS & THE ROLE FOR FOSPHENYTOIN

---

B. J. Wilder, MD

*Supplement Editor*



Little, Brown and Company

This supplement to *Neurology* was produced by Little, Brown and Company, Boston, Massachusetts. Its publication was supported by an educational grant from Parke-Davis, Morris Plains, New Jersey, to the Epilepsy Research Foundation, Gainesville, Florida. The supplement was prepared for publication by Current Therapeutics Inc., Beachwood, Ohio. The views and opinions expressed in this supplement are those of the participants and authors and do not necessarily reflect the views of the American Academy of Neurology; Little, Brown and Company; Parke-Davis; the Epilepsy Research Foundation; or Current Therapeutics Inc.

---



Little, Brown and Company

Nancy Megley	<i>Associate Publisher</i>
Sarah Merrigan	<i>Managing Editor</i>
Maureen A. Hurley	<i>Assistant Managing Editor</i>
Janet E. Timmerman	<i>Assistant Managing Editor</i>
Fredda Purgalin	<i>Production Manager</i>
Anne Orens	<i>Manager, Sales, Marketing and Circulation</i>

Publishing Offices: 34 Beacon St., Boston, MA 02108. Telephone:  
(617) 859-5637; Fax: (617) 267-3507.

# Neurology

Official Journal of the American Academy of Neurology

June 1996 Volume 46 Suppl 1

## Introduction

- 1 Use of parenteral antiepileptic drugs and the role for fosphenytoin  
*B.J. Wilder*

## Articles

- 3 Pharmacology and pharmacokinetics of fosphenytoin  
*T.R. Browne, A.R. Kugler, and M.A. Eldon*
- 8 Parenteral antiepileptic/anticonvulsant drugs  
*R.H. Mattson*

- 14 Fosphenytoin use in children  
*J.M. Pellock*
- 17 Intravenous administration of fosphenytoin: Options for the management of seizures  
*R. E. Ramsay and J. DeToledo*
- 20 Emergency treatment of status epilepticus  
*J.W. Runge and F.H. Allen*
- 24 Intramuscular use of fosphenytoin: An overview  
*B.M. Uthman, B.J. Wilder, and R. E. Ramsay*

The Editor-in-Chief, with advice from members of the Editorial Board, reviews requests for publication of symposia on topics of interest to readers of *Neurology*. The decision to publish a symposium as a supplement to *Neurology* is based on the topic, the supplement editors, and the contributors. Once a decision is made to publish a symposium as a supplement, it is not peer reviewed by the Editorial Board of *Neurology*. The individual authors are responsible for their own contributions, and the supplement editors are responsible for the overall quality of the supplement.

Supplement to NEUROLOGY (ISSN 0028-3878). Published monthly by Little, Brown and Company, 34 Beacon Street, Boston, MA 02108-1493. Academy members should send address changes and subsequent inquiries to the American Academy of Neurology, 2221 University Ave. S.E., Suite 335, Minneapolis, MN 55414 (or call 612-623-8115). Non-Academy members should send address changes and subscription inquiries to Little, Brown and Company, Medical Journal Subscription Department, 34 Beacon St, Boston, MA 02108-1493 (or call 1-800-628-4221, fax 617-859-0629).

Subscription rates (sold on volume year or calendar year basis only): Personal subscription, U.S. and possessions, \$180.00; Canada, \$210.00; rest of world (includes Mexico, excludes Japan), \$285.00; Institutional, U.S., \$235.00; Canada, \$265.00; rest of world, \$348.00. Special rates for students, interns, and residents per year: U.S., \$119.00; Canada, \$139.00; rest of world, \$206.00. (PLEASE ADD 7% CANADIAN GST FOR ALL CANADIAN SUBSCRIPTIONS. GST NUMBER: R128537917). Single copies \$20.00 prepaid. Overseas subscription rates include expedited delivery charge. In Japan please contact

our exclusive agent for prices and subscription information: Igaku-Shoin Ltd., Foreign Publications Dept., Tokyo International, P.O. Box 5063, 1-28-36 Hongo, Bunkyo-Ku, Tokyo 113, Japan.

*Neurology* is indexed in Index Medicus, Excerpta Medica, Biological Abstracts, Psychological Abstracts, and Current Contents (Life Sciences and Clinical Medicine).

Second-class postage paid at Boston, MA and additional mailing offices. POSTMASTER: Send address changes to NEUROLOGY, 34 Beacon St., Boston, MA 02108-1493.

All rights reserved. Copyright © 1996 by the American Academy of Neurology. Except as authorized in the accompanying statement, no part of *Neurology* may be reproduced in any form or by any electronic or mechanical means, including information storage and retrieval systems, without the publisher's written permission. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by the American Academy of Neurology for libraries and other users registered with the Copyright Clearance Center Transactional Reporting Service, provided that the per-copy fee of \$3.00 is paid directly to the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. Call (508) 750-8400 or fax (508) 750-4744 for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This authorization does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale.

# The use of parenteral antiepileptic drugs and the role for fosphenytoin

This symposium was held during the Southern Clinical Neurological Society Meeting on January 21, 1996, in Huatulco, Mexico. The following participated:

**Fred H. Allen, MD**  
Carolina Neurological Clinic  
Charlotte, North Carolina

**Thomas R. Browne, MD**  
Departments of Neurology and  
Pharmacology  
Boston University School of Medicine  
Neurology Service  
Department of Veterans Affairs  
Medical Center  
Boston, Massachusetts

**John DeToledo, MD**  
Department of Neurology  
International Center for Epilepsy  
University of Miami  
Miami, Florida

**Richard H. Mattson, MD**  
Department of Neurology  
Yale University School of Medicine  
VA Connecticut  
New Haven, Connecticut

**John M. Pellock, MD**  
Division of Child Neurology  
Medical College of Virginia/  
Virginia Commonwealth University  
Richmond, Virginia

**R. Eugene Ramsay, MD**  
Departments of Neurology and  
Psychiatry  
International Center for Epilepsy  
University of Miami  
Miami, Florida

**Jeffrey W. Runge, MD**  
Department of Emergency Medicine  
Carolinas Medical Center  
Charlotte, North Carolina

**Basim M. Uthman, MD**  
Neurology Service  
Department of Veterans Affairs  
Medical Center  
Department of Neurology  
University of Florida  
College of Medicine  
Gainesville, Florida

**B.J. Wilder, MD**  
Department of Neurology  
University of Florida  
College of Medicine  
Gainesville, Florida

# Neurology<sup>®</sup>

**46 (6 Suppl 1)**

*Neurology* 1996;46;20S-7S

**This information is current as of June 1, 1996**

<b>Updated Information &amp; Services</b>	including high resolution figures, can be found at: <a href="http://n.neurology.org/content/46/6_Suppl_1.citation.full">http://n.neurology.org/content/46/6_Suppl_1.citation.full</a>
<b>Permissions &amp; Licensing</b>	Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at: <a href="http://www.neurology.org/about/about_the_journal#permissions">http://www.neurology.org/about/about_the_journal#permissions</a>
<b>Reprints</b>	Information about ordering reprints can be found online: <a href="http://n.neurology.org/subscribers/advertise">http://n.neurology.org/subscribers/advertise</a>

*Neurology*® is the official journal of the American Academy of Neurology. Published continuously since 1951, it is now a weekly with 48 issues per year. Copyright . All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

