

Volume 156

Official Journal of the American Roentgen Ray Society



American Journal of Roentgenology
Diagnostic Imaging and Related Sciences

- Editor-In-Chief** Robert N. Berk, *La Jolla, California*
University of California, San Diego
School of Medicine and Medical Center
- Editor Emeritus** Melvin M. Figley, *Seattle, Washington*
- Associate Editor** Saskia von Waldenburg Hilton, *San Diego, California*
- Consulting Editor** Michael S. Huckman, *Chicago, Illinois*
- Statistician** Charles C. Berry, *San Diego, California*

Editorial Board

- | | | |
|---------------------|--------------------------|--------------------|
| John R. Amberg | John R. Hesselink | Peter M. Ronai |
| Ithamar Aviad | Charles B. Higgins | Sjef H. J. Ruijs |
| Mark E. Baker | Melvyn T. Korobkin | Stuart S. Sagel |
| Lawrence W. Bassett | Faye C. Laing | David J. Sartoris |
| Michael A. Bettman | Thomas L. Lawson | Stefan C. Schatzki |
| Felix S. Chew | Robert G. Levitt | William P. Shuman |
| N. Reed Dunnick | Bruce L. McClennan | Edward A. Sickles |
| David K. Edwards | Richard P. Moser | Barry A. Siegel |
| Ronald G. Evens | Albert A. Moss | David D. Stark |
| David S. Feigin | Jeffrey H. Newhouse | Edward T. Stewart |
| Sandra K. Fernbach | Donald L. Resnick | Murali Sundaram |
| Richard H. Gold | Stewart R. Reuter | Eric vanSonnenberg |
| William R. Hendee | Charles A. Rohrmann, Jr. | Robert K. Zeman |

Editorial Staff: Margaret Levene, *managing editor*; Katie L. Spiller, Barbara Rose, Barbara L. Halliburton, and Janine Anderson, *manuscript editors*; Nancy Rydbeck, *office manager*; Sheri Smith, *administrative assistant*; Linda J. Waggoner, *administrative secretary*

AJR, AMERICAN JOURNAL OF ROENTGENOLOGY (ISSN 0361 803X) is the official journal of the American Roentgen Ray Society and is published monthly by Williams & Wilkins, 428 E. Preston St., Baltimore, MD 21202. Annual dues include \$50 for journal subscription. Second-class postage paid at Baltimore, MD, and at additional mailing offices. Postmaster, send address changes (Form 3579) to AJR, 428 E. Preston St., Baltimore, MD 21202. Subscription rates \$125 (\$180 foreign); institutions \$135 (\$190 foreign); in training \$25 (\$80 foreign); single copy \$18 (\$22 foreign). The GST number for Canadian subscribers is 123394371. Airmail rates furnished on request. Indexed by *Current Contents* and *Index Medicus*. Copyright © 1991 by American Roentgen Ray Society. 0361-803X/90\$3.00