

---

# Journal of Clinical Oncology

*The Official Journal of the American Society of Clinical Oncology*

Vol 6, No 2

February 1988

---

## CONTENTS

- EDITORIAL: The Status of Plasma Therapy as Cancer Treatment** ..... *David R. Parkinson* 189
- EDITORIAL: The Epipodophyllotoxin Teniposide in Therapy for Childhood Acute Lymphocytic Leukemia** ..... *Gaston K. Rivera* 191
- KARNOFSKY MEMORIAL LECTURE: Chromosome Abnormalities in Leukemia** ..... *Janet D. Rowley* 194
- Protein A Immunoabsorption in the Treatment of Malignant Disease** ..... *Gerald L. Messerschmidt, David H. Henry, Harry W. Snyder, Jr, Juergen Bertram, Abraham Mittelman, Sterling Ainsworth, John Fiore, Michael V. Viola, James Louie, Edward Ambinder, F. Roy MacKintosh, Donald J. Higby, Paul O'Brien, Dobri Kiprof, Max Hamburger, Joseph P. Balint, Jr, Lloyd D. Fisher, William Perkins, Carl M. Pinsky, and Frank R. Jones* 203
- Combination of Mitoxantrone and Etoposide in Refractory Acute Myelogenous Leukemia—An Active and Well-Tolerated Regimen** ..... *Anthony D. Ho, Thomas Lipp, Gerhard Ehninger, Hans-Joachim Illiger, Peter Meyer, Mathias Freund, and Werner Hunstein* 213
- Short-Term Therapy for Acute Myelogenous Leukemia** ..... *Ama Z.S. Rohatiner, W.M. Gregory, R. Bassan, M.J. Barnett, J. Waxman, M.A. Richards, T.S. Ganesan, J. Tucker, S.T.A. Malik, R. Biruls, J. Amess, S. Berney, J.S. Malpas, and T.A. Lister* 218
- Allogeneic Bone Marrow Transplantation in Adults With Acute Lymphoblastic Leukemia in First Complete Remission** ..... *J.P. Vernant, G. Marit, D. Maraninchi, D. Guyotat, M. Kuentz, C. Cordonnier, and J. Reiffers* 227
- The Characteristics and Outcome of Patients With Late Relapse Acute Myelogenous Leukemia** ..... *Hagop M. Kantarjian, Michael J. Keating, Ronald S. Walters, Kenneth B. McCredie, and Emil J. Freireich* 232

---

*Journal of Clinical Oncology* (ISSN 0732-183X) is published monthly at 210 West Washington Square, Philadelphia, PA 19106. Second class postage paid at Duluth, MN, and at additional mailing offices.

**POSTMASTER:** Send change of address to *Journal of Clinical Oncology*, c/o Grune & Stratton, Inc., PO Box 6280, Duluth, MN 55806.

Subscription rates: Individual: \$142.00 per year within the United States and Canada; \$209.00 elsewhere. Institutions and libraries: \$185.00 within the United States and Canada; \$209.00 elsewhere. Students, fellows, interns, and residents within the United States and Canada may receive a reduced subscription rate (\$85.00); a letter giving qualifying data must accompany such orders. Single copies: United States and Canada, \$23.00; elsewhere, \$26.00. Current prices are in effect for back volumes and back issues. Subscriptions are accepted on a calendar year basis. Journal orders are payable in advance. Prices are subject to change. Single issues, both current and back, exist in limited quantities and are offered for sale subject to availability.

<b>Clinical Stages I and II Hodgkin's Disease: A Specifically Tailored Therapy According to Prognostic Factors</b> .....	<i>P. Carde, J.M.V. Burgers, M. Henry-Amar, M. Hayat, W. Sizoo, E. Van der Schueren, M. Monconduit, E.M. Noordijk, J. Lustman-Marechal, A. Tanguy, B. de Pauw, J.M. Cosset, A. Cattan, M. Schneider, J. Thomas, J.H. Meerwaldt, R. Somers, and M. Tubiana on behalf of the EORTC Lymphoma Cooperative Group</i>	239
<b>Chemotherapy Following Surgery for Stages IE and IIE Non-Hodgkin's Lymphoma of the Gastrointestinal Tract</b> .....	<i>Frances A. Shepherd, William K. Evans, George Kutas, Jonathan C. Yau, Paul Dang, J. Gerald Scott, Helen A. Farquharson, William H. Francombe, Dennis Bailey, and Michael A. Baker</i>	253
<b>Combination Chemotherapy With Mastectomy or Radiotherapy for Stage III Breast Carcinoma: A Cancer and Leukemia Group B Study</b> .....	<i>M. Perloff, G.J. Lesnick, A. Korzun, F. Chu, J.F. Holland, M.P. Thirlwell, R.R. Ellison, R.W. Carey, L. Leone, V. Weinberg, M.A. Rice, and W.C. Wood</i>	261
<b>Menstrual and Reproductive Function After Treatment With Combination Chemotherapy for Malignant Ovarian Germ Cell Tumors</b> .....	<i>David M. Gershenson</i>	270
<b>Chemotherapy for Breast Cancer Decreases Plasma Protein C and Protein S</b> .....	<i>John S. Rogers II, Anthony J. Murgo, Joseph A. Fontana, and Peter C. Raich</i>	276
<b>Prediction of Long-Term Survival by Flow Cytometric Analysis of Cellular DNA Content in Patients With Advanced Ovarian Cancer</b> .....	<i>M.L. Friedlander, D.W. Hedley, C. Swanson, and P. Russell for the Gynecologic Oncology Group of the Clinical Oncology Society of Australia</i>	282
<b>Emergency Laparotomy for Spontaneous Intestinal and Colonic Perforations in Cancer Patients Receiving Corticosteroids and Chemotherapy</b>	<i>Michael H. Torosian and Alan D.M. Turnbull</i>	291
<b>Patterns of Failure in Primary Testicular Non-Hodgkin's Lymphoma</b> .....	<i>James A. Martenson, Jr, Steven J. Buskirk, Duane M. Ilstrup, Peter M. Banks, Richard G. Evans, Joseph P. Colgan, and John D. Earle</i>	297
<b>Successful Treatment of Pure Endodermal Sinus Tumors in Adult Men</b> .....	<i>Clayton D.K. Chong, Christopher J. Logothetis, Andrew C. von Eschenbach, Alberto G. Ayala, and Melvin L. Samuels</i>	303
<b>Phase II Testing of Melphalan in Children With Newly Diagnosed Rhabdomyosarcoma: A Model for Anticancer Drug Development</b> .....	<i>Marc E. Horowitz, Erlinda Etcubanas, Michael L. Christensen, Janet A. Houghton, Stephen L. George, Alexander A. Green, and Peter J. Houghton</i>	308

<b>Memory Function in Disease-Free Survivors of Childhood Acute Lymphocytic Leukemia Given CNS Prophylaxis With or Without 1,800 cGy Cranial Irradiation</b> .....	<i>Raymond K. Mulhern, Abby L. Wasserman, Diane Fairclough, and Judith Ochs</i>	315
<b>Factors Affecting the Prognosis of Primary Liver Carcinoma</b> .....	<i>Fred M. Sutton, Nancy C. Russell, Vincent F. Guinee, and Elliot Alpert</i>	321
<b>Neoadjuvant Chemotherapy of Osteosarcoma: Results of a Randomized Cooperative Trial (COSS-82) With Salvage Chemotherapy Based on Histological Tumor Response</b> .....	<i>K. Winkler, G. Beron, G. Delling, U. Heise, H. Kabisch, C. Purfürst, J. Berger, J. Ritter, H. Jürgens, V. Gerein, N. Graf, W. Russe, E.R. Gruemayer, W. Ertelt, R. Kotz, P. Preusser, G. Prindull, W. Brandeis, and G. Landbeck</i>	329
<b>The Prognostic Importance of Tumor Size in Malignant Gliomas: A Computed Tomographic Scan Study by the Brain Tumor Cooperative Group</b> .....	<i>Jonathan R. Wood, Sylvan B. Green, and William R. Shapiro</i>	338
<b>Recombinant Human Tumor Necrosis Factor Administered as a Five-Day Continuous Infusion in Cancer Patients: Phase I Toxicity and Effects on Lipid Metabolism</b> .....	<i>Matthew L. Sherman, David R. Spriggs, Kristina A. Arthur, Kyoko Imamura, Emil Frei III, and Donald W. Kufe</i>	344
<b>REVIEW ARTICLES</b>		
<b>Teniposide in the Treatment of Leukemia: A Case Study of Conflicting Priorities in the Development of Drugs for Fatal Diseases</b> .....	<i>Jean L. Grem, Daniel F. Hoth, Brian Leyland-Jones, Susan A. King, Richard S. Ungerleider, and Robert E. Wittes</i>	351
<b>Photodynamic Therapy</b> .....	<i>Michael J. Manyak, Angelo Russo, Paul D. Smith, and Eli Glatstein</i>	380
<b>SPECIAL DEPARTMENTS</b>		
<b>Correspondence</b> .....		392
<b>Announcements</b> .....		399
<b>ASCO News</b> .....		401
<b>Information for Contributors</b> .....		lv