

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Science serves its readers as a forum for the presentation and discussion of important issues related to the advancement of science, including the presentation of minority or conflicting points of view, rather than by publishing only material on which a consensus has been reached. Accordingly, all articles published in *Science*—including editorials, news and comment, and book reviews—are signed and reflect the individual views of the authors and not official points of view adopted by the AAAS or the institutions with which the authors are affiliated.

Editorial Board

1971

THOMAS EISNER	NEAL MILLER
AMITAI ETZIONI	BRUCE MURRAY
EMIL HAURY	JOHN R. PIERCE
DANIEL KOSHLAND, JR.	MAXINE SINGER

1972

ALFRED BROWN	FRANK PRESS
JAMES F. CROW	FRANK W. PUTNAM
THOMAS KUHN	WALTER O. ROBERTS
ELLIOTT W. MONTROLL	

Editorial Staff

Editor

PHILIP H. ABELSON

Publisher

WILLIAM BEVAN

Business Manager

HANS NUSSBAUM

Managing Editor: ROBERT V. ORMES

Assistant Editors: ELLEN E. MURPHY, JOHN E. RINGLE

Assistant to the Editor: NANCY TEIMOURIAN

News and Comment: JOHN WALSH, ROBERT J. BAZELL, DEBORAH SHAPLEY, ROBERT GILLETTE, D. PARK TETER, NICHOLAS WADE, EDWARD P. JONES, JOE PICHIRALLO, CONSTANCE HOLDEN, SCHERRAINE MACK

Research Topics: ALLEN L. HAMMOND

Book Reviews: SYLVIA EBERHART, KATHERINE LIVINGSTON, KATHRYN MOUTON

Cover Editor: GRAYCE FINGER

Editorial Assistants: MARGARET ALLEN, ISABELLA BOULDIN, BLAIR BURNS, ELEANORE BUTZ, RONNA CLINE, JUDITH GIVELBER, MARLENE GLASER, CORRINE HARRIS, OLIVER HEATWOLE, CHRISTINE KARLIK, MARSHALL KATHAN, MARGARET LLOYD, JANE MINOR, DANIEL RABOVSKY, PATRICIA ROWE, LEAH RYAN, LOIS SCHMITT, BARBARA SHEFFER, RICHARD SOMMER, YA LI SWIGART, ALICE THEILE

Membership Recruitment: LEONARD WRAY; *Subscriptions:* BETT SEEMUND; *Addressing:* THOMAS BAZAN

Advertising Staff

Director

EARL J. SCHERAGO

Production Manager

BONNIE SEMEL

Advertising Sales Manager: RICHARD L. CHARLES

Sales: NEW YORK, N.Y. 10036: Herbert L. Burklund, 11 W. 42 St. (212-PE-6-1858); SCOTCH PLAINS, N.J. 07076: C. Richard Callis, 12 Unami Lane (201-889-4873); MEDFIELD, MASS. 02052: Richard M. Ezequelle, 4 Rolling Lane (617-444-1439); CHICAGO, ILL. 60611: John P. Cahill, Room 2107, 919 N. Michigan Ave. (312-DE-7-4973); BEVERLY HILLS, CALIF. 90211: Winn Nance, 111 N. La Cienega Blvd. (213-657-2772)

EDITORIAL CORRESPONDENCE: 1515 Massachusetts Ave., NW, Washington, D.C. 20005. Phones: (Area code 202) Central office: 467-4350; Book Reviews: 467-4367; Business Office: 467-4411; Circulation: 467-4417; Guide to Scientific Instruments: 467-4480; News and Comment: 467-4430; Reprints and Permissions: 467-4483; Research Topics: 467-4455; Reviewing: 467-4440. Cable: Advancesci, Washington. Copies of "Instructions for Contributors" can be obtained from the editorial office. See also page xv, *Science*, 25 June 1971. ADVERTISING CORRESPONDENCE: Room 1740, 11 W. 42 St., New York, N.Y. 10036. Phone: 212-PE-6-1858.

The Topsy-turvy World of Health-Care Delivery

In a recent speech Senator J. Glenn Beall, Jr. (R-Md.), called for the establishment of a National Institute of Health-Care Delivery.* In so doing, he has focused attention on a national problem of broad scale and transcendent urgency.

Over the years the American people have prided themselves on being the best clothed, best fed, best housed, best educated, and healthiest people in the world. But recent health statistics give cause for concern. Across the board, we are not the healthiest people in the world, in spite of a number of impressive facts. The nation has spent some \$20 billion on biomedical research since the late 1940's. We now have more physicians and hospitals than ever before. And currently we spend for health services more—and the rate of expenditure is escalating more rapidly—than we have ever done before. In the last decade alone, physicians' fees have risen twice as rapidly and hospital charges four times as fast as other items in the Consumer Price Index.

The situation is a complex one. Certainly, the balance among the diseases has shifted toward the degenerative disorders. But, in addition, there are striking geographic variations in the availability of health resources. There are marked differences in availability for urban and rural populations and for the poor and the more affluent. Most insurance coverage is inadequate in that it excludes outpatient and preventive services and only partially accommodates catastrophic incidents. And, generally, resources, particularly those for unusual treatment, are poorly utilized everywhere. (If, for example, the utilization of health-care resources were improved by only 10 percent, the saving would be \$5 billion. But, with a high proportion of third-party payments, there is little incentive for efficiency. Instead, the trend is to use the higher-cost facilities and services and to make as many of these available as possible.)

The essential ingredients of the Beall proposal merit serious examination. By 1970, health-care delivery had become the nation's second largest industry. But last year only \$18 million was spent on research in this area. No other industry can make such a claim. The National Institutes of Health are charged with the technical aspects of prevention and treatment. The Health Services and Mental Health Administration is concerned with health-care delivery, but it has other responsibilities as well. A major tour de force is needed now—an administrative mandate backed by appropriate funding—to dramatize the importance of rational organization and planning of services, even though such action would add yet another agency to the welter already existing in the health field. Future legislation would do well to direct its sole attention to the social sciences, both basic and applied, which underlie effective organization and management. Furthermore, the importance of testing and evaluation should receive significant consideration. Already, a number of alternative systems—for instance, group practice, private prepaid care, a variety of community health-care schemes, and health maintenance organizations—are in various stages of design and development, and a nation with an established scientific tradition must certainly recognize the importance of pilot projects.

If the magnificent benefits of American medical research are meant for all of our people, then an effective science of health-care delivery is as important as the medical research itself.—WILLIAM BEVAN

* J. Glenn Beall, Jr., "A proposed institute of health-care delivery," *Congr. Rec.*, 15 June 1971, p. S 9086.