

**DEPARTMENTS OF LABOR, HEALTH AND HUMAN
SERVICES, EDUCATION AND RELATED AGENCIES
APPROPRIATIONS FOR FISCAL YEAR 1991**

HEARINGS

BEFORE A

**SUBCOMMITTEE OF THE
COMMITTEE ON APPROPRIATIONS
UNITED STATES SENATE
ONE HUNDRED FIRST CONGRESS**

SECOND SESSION

Part 2 (Pages 1-1209)

Department of Health and Human Services

Printed for the use of the Committee on Appropriations



U.S. GOVERNMENT PRINTING OFFICE

26-182

WASHINGTON : 1990

5181-32

For sale by the Superintendent of Documents, Congressional Sales Office
U.S. Government Printing Office, Washington, DC 20402

COMMITTEE ON APPROPRIATIONS

ROBERT C. BYRD, West Virginia, *Chairman*

DANIEL K. INOUE, Hawaii	MARK O. HATFIELD, Oregon
ERNEST F. HOLLINGS, South Carolina	TED STEVENS, Alaska
J. BENNETT JOHNSTON, Louisiana	JAMES A. McCLURE, Idaho
QUENTIN N. BURDICK, North Dakota	JAKE GARN, Utah
PATRICK J. LEAHY, Vermont	THAD COCHRAN, Mississippi
JIM SASSER, Tennessee	ROBERT W. KASTEN, Jr., Wisconsin
DENNIS DeCONCINI, Arizona	ALFONSE M. D'AMATO, New York
DALE BUMPERS, Arkansas	WARREN RUDMAN, New Hampshire
FRANK R. LAUTENBERG, New Jersey	ARLEN SPECTER, Pennsylvania
TOM HARKIN, Iowa	PETE V. DOMENICI, New Mexico
BARBARA A. MIKULSKI, Maryland	CHARLES E. GRASSLEY, Iowa
HARRY REID, Nevada	DON NICKLES, Oklahoma
BROCK ADAMS, Washington	PHIL GRAMM, Texas
WYCHE FOWLER, Jr., Georgia	
J. ROBERT KERREY, Nebraska	

JAMES H. ENGLISH, *Staff Director*

MARY S. DEWALD, *Chief Clerk*

J. KEITH KENNEDY, *Minority Staff Director*

SUBCOMMITTEE ON DEPARTMENTS OF LABOR, HEALTH AND HUMAN SERVICES, EDUCATION, AND RELATED AGENCIES

TOM HARKIN, Iowa, *Chairman*

ROBERT C. BYRD, West Virginia	ARLEN SPECTER, Pennsylvania
ERNEST F. HOLLINGS, South Carolina	MARK O. HATFIELD, Oregon
QUENTIN N. BURDICK, North Dakota	TED STEVENS, Alaska
DANIEL K. INOUE, Hawaii	WARREN RUDMAN, New Hampshire
DALE BUMPERS, Arkansas	JAMES A. McCLURE, Idaho
HARRY REID, Nevada	THAD COCHRAN, Mississippi
BROCK ADAMS, Washington	PHIL GRAMM, Texas

Majority Professional Staff

J. MICHAEL HALL, JAMES J. SOURWINE, CAROL C. MITCHELL, AMY J. SCHULTZ, and TERRY
MUILENBURG

Minority Professional Staff

BETILOU TAYLOR and CRAIG A. HIGGINS

Administrative Support

NANCY C. ANDERSON and SANDRA J. KRUEH

CONTENTS

WEDNESDAY, FEBRUARY 7, 1990

Department of Health and Human Services:		Page
Office of the Secretary.....		1
Family Support Administration.....		85
Office of Human Development Services.....		85
Office of Inspector General.....		207
Health Care Financing Administration.....		235
Social Security Administration.....		339

FRIDAY, FEBRUARY 9, 1990

Department of Health and Human Services:		
Office of the Assistant Secretary for Health.....		383
Alcohol, Drug Abuse, and Mental Health Administration.....		406
Centers for Disease Control.....		400
Health Resources and Services Administration.....		415

TUESDAY, FEBRUARY 20, 1990

Department of Health and Human Services:		
National Institutes of Health.....		673
National Cancer Institute.....		713
National Heart, Lung, and Blood Institute.....		771
National Institute of Dental Research.....		799
National Institute of Allergy and Infectious Diseases.....		815
National Institute of Diabetes and Digestive and Kidney Diseases.....		875
National Institute of Child Health and Human Development.....		897
National Institute of Environmental Health Sciences.....		911
John E. Fogarty International Center for Advanced Study in the Health Sciences.....		923
National Institute of Neurological and Communicative Disorders and Stroke.....		955
National Institute on Deafness and Other Communication Disorders..		977
National Institute of General Medical Sciences.....		995
National Eye Institute.....		1019
National Institute on Aging.....		1039
National Institute of Arthritis and Musculoskeletal and Skin Diseases.....		1083
National Center for Research Resources.....		1115
National Center for Nursing Research.....		1133
National Center for Human Genome Research.....		1159
National Library of Medicine.....		1171

**NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMMUNICATION
DISORDERS**

STATEMENT OF DR. JAMES B. SNOW, JR., DIRECTOR

ACCOMPANIED BY DR. JAY MOSKOWITZ, ASSOCIATE DIRECTOR FOR SCIENCE POLICY AND LEGISLATION, NATIONAL INSTITUTES OF HEALTH

SUMMARY STATEMENT

Senator HARKIN. Dr. Snow, Institute of Deafness and Other Communication Disorders, we are delighted to have you with us as the first permanent Director of the National Institute on Deafness and Other Communication Disorders.

You set another precedent in being the first senior scientist recruited to serve at NIH from the private sector in many years, and we are delighted that you have agreed to lead this very important endeavor.

As you know, I have a strong interest in your Institute and want to follow what you are doing very carefully and want to be as supportive as possible.

I also want to give my public thanks again to Dr. Moskowitz next to you for helping to establish the Deafness Institute and to get it going for the last year, and I know you are delighted to be back in your other position again and have Dr. Snow on board, but you have done a great job in getting it going and I really appreciate it very much.

Dr. Snow, your request for next year is \$122.85 million or a 4.48-percent increase. Again, welcome and please proceed.

Dr. SNOW. Thank you very much, Mr. Chairman. In the 1½ years since the Institute was created by the Congress great strides have been made. We are particularly indebted to Dr. Jay Moskowitz for his very able stewardship that he provided the new institute during its initial development. Our goal is to maximize the gains that can be realized from research on human communication.

The NIDCD is pleased to join with other institutes at the NIH in celebrating the "Decade of the Brain." Neurobiology is an important component of our research portfolio, both extramurally and intramurally. An example of the focus of the NIDCD on neurobiology is neural regeneration. Regeneration of nervous tissue after injury and illness occurs in very few places in the human body. Interestingly, nasal neuroepithelium is one tissue that does have the ability to regenerate. Research in this area has profound implications for the repair and regeneration of the nervous system.

Scientists supported by the NIDCD have utilized the tools of molecular biology and molecular genetics to uncover important information on how human communication systems work at a funda-

mental level. I am very pleased to report that the gene for Usher's syndrome has been found on chromosome 1 by NIDCD-supported scientists. As you may know, Usher's syndrome causes deafness and blindness. These are areas that I intend to encourage for development and expansion.

Noise exposure represents the most common preventable cause of hearing loss today. The NIDCD sponsored a consensus development conference on noise and hearing loss at the NIH from January 22d to the 24th of this year. The statement drafted by the conference panel provided recommendations and avenues for future research related to noise and hearing loss.

One-half of our children have ear infections before they reach their first birthday, and 9 out of 10 children have ear infections by the time they are 6 years old. Otitis media is the leading cause of acquired hearing loss before age 10. The NIDCD, in collaboration with the NIAID, and the NICHD, is issuing a solicitation for research on a vaccine against otitis media.

Institute supported scientists have made great advances in therapeutic approaches to speech, voice and language disorders. This year investigators in the NIDCD intramural program were the first to demonstrate a successful treatment for voice tremor. I intend for our intramural program to provide a model to the scientific community in molecular biology and molecular genetics, to conduct clinical trials of promising new therapies and to serve as a national training resource.

Last year we reported to you on our research plan, the national strategic research plan. We now have a training plan. We are establishing a Physician-Scientist Award. Special emphasis will be placed on research training of underrepresented minorities and communicatively impaired individuals.

PREPARED STATEMENT

We plan to award several national multipurpose research and training centers this year. In addition, the Institute has undertaken a number of activities toward the development of an information clearinghouse.

Mr. Chairman, the fiscal year 1991 budget request favors basic research and totals \$122,847,000. I will be pleased to answer any questions you might have.

[The statement follows:]

STATEMENT OF DR. JAMES B. SNOW, JR.

I am honored to appear before this Committee as the first permanent Director of the National Institute on Deafness and Other Communication Disorders (NIDCD). In the year and a half since the Institute was created by the Congress great strides have been made. We are particularly indebted to Dr. Jay Moskowitz for the very able stewardship he provided for the new Institute. Under his superb leadership, a fully functioning administrative staff was assembled and all of the legislative mandates for the NIDCD have been initiated or planned. Excellent extramural and intramural scientific programs were transferred to the new Institute and we intend to build on that strong foundation. Our goal is to maximize the gains that can be realized from research on human communication. We are supporting research across the entire biomedical spectrum, from basic research to clinical studies to technology transfer and to prevention and rehabilitation. The basic research is building a foundation for the next generation, while many of the clinical and rehabilitation programs are aimed at helping those with disabilities today, improving their lives. I am very pleased to be able to share with you selections from exciting scientific advances from our areas of science as well as highlights of research plans of the Institute.

The NIDCD is pleased to join with several other Institutes at the NIH in celebrating the Decade of the Brain. Neurobiology is an important component of our research portfolio, both extramurally and intramurally. The NIDCD observed its first anniversary this October and elected to celebrate with a scientific lecture on the cutting edge of neurobiology and auditory research. An example of the focus of NIDCD on neurobiology is in neural regeneration. Regeneration of neural tissue after injury and illness occurs in very few places in the human body. Interestingly, nasal neuroepithelium is one tissue that does have the ability to regenerate. As scientists supported by the NIDCD seek to unlock the clues to why olfactory tissue has this ability, the information they learn can be applied to other nonregenerative tissues. Other NIDCD-supported researchers have determined that olfactory neuroepithelium is a source of renewal of olfactory receptor neurons, which have a powerful nourishing effect on the brain, and can be a direct source of additional cells for the brain. Scientists are now identifying the