



SEARCH

VA Research:
A Foundation of Veterans' Health Care
Annual Report 2001

Department of Veterans Affairs

Veterans Health Administration • Office of Research and Development



Department of Veterans Affairs
Veterans Health Administration
Washington DC 20420

JAN 30 2002

Dear Colleagues,

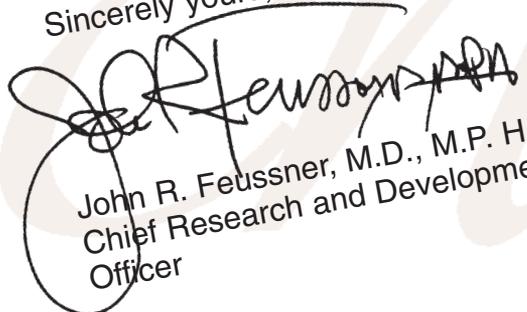
I am delighted to provide you with this VA Office of Research and Development Annual Report that highlights research milestones for the year 2001.

Through its four divisions of Medical Research, Cooperative Studies, Rehabilitation Research and Health Services Research, the Office of Research and Development oversees a strong and comprehensive program at more than 100 VA medical centers across the country. By focusing on the medical problems prevalent among veterans, the research program is an essential element in the nation's largest integrated health care system. In addressing the health care challenges that face our veterans, we advance medical science and quality of care for the entire nation.

The 2001 Annual Report serves as an overview of VA Research and Development activities and some of the recent valuable contributions of the program. VHA takes great pride in these achievements, and we are happy to share them with you. The VA Office of Research and Development continuously strives to advance health care for the nation's veterans.

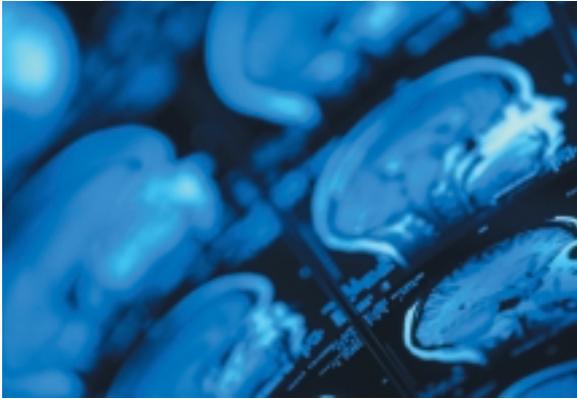
I hope that you will find this document to be useful and informative. If you would like additional copies they will soon be available electronically on the VA Research and Development World Wide Web home page at www.va.gov/resdev or by calling the VA R&D Communications Office in Baltimore at (410) 962-1800, ext. 223. If you have any questions please contact my office at (202) 565-8440.

Sincerely yours,



John R. Feussner, M.D., M.P. H.
Chief Research and Development
Officer

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Overview

What drives VA Research?



John Feussner, M.D., M.P.H.

Certainly we know that without research we will find no new treatments for diseases and disabilities. Research is a never-ending quest for new knowledge, with each answer revealing a new set of questions. In the Office of Research and Development (ORD), we pursue that quest by supporting one of VA's central missions — providing our veteran patients with the most effective and efficient health care possible.

ORD oversees VA's research in biomedicine, rehabilitation, health services and clinical trials. More specifically, we steadfastly pursue our program's goals, including 1) supporting the highest quality research, education and patient care, 2) translating research results into improved patient care, and 3) capitalizing on the value of the nation's largest health care system with more than 1,200 sites as a resource for research. We organize our program around nine areas of high priority for veterans, including: acute and traumatic injury, military and environmental exposures, special populations (high-risk or underserved), sensory disorders and loss, aging, mental illness, substance abuse, chronic diseases, and health services/outcomes research.

Although we must understand how the human body works before we find cures, our research is not limited to the laboratory. You will also find VA researchers caring for patients in our medical centers and clinics. Our scientists link VHA and the larger scientific and medical communities through VA's relationships with the nation's medical schools and other government agencies, such as the National Institutes of Health. We collaborate with organizations that share our interests, including the Juvenile Diabetes Foundation, the American Diabetes Association, the National Parkinson Foundation, and the National Stroke Association.

VA research is embarking on many exciting new endeavors, as you will see in this annual report. More than ever, research is the connection between patient care and improved outcomes. We take great pride in the research that keeps VA at the forefront of modern medicine and health care.

John R. Feussner, M.D., M.P.H.

Chief Research and Development Officer

“VA RESEARCH IS THE MOST FOCUSED AND CLINICALLY PRODUCTIVE RESEARCH PROGRAM IN THE FEDERAL RESEARCH PORTFOLIO.”

INDEPENDENT BUDGET OF VETERANS SERVICE ORGANIZATIONS



Mindy Aisen, M.D.

Director, Rehabilitation Research and Development Service (RR&D)

RR&D seeks to minimize disability and restore function in veterans affected by trauma or disease.



John Feussner, M.D., M.P.H.

Director, Cooperative Studies Program (CSP)

CSP determines the effectiveness of novel or unproved therapies using multi-center clinical intervention trials.



James F. Burriss, M.D.

Deputy Chief Research and Development Officer

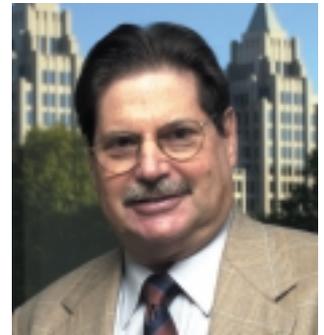
Dr. Burriss serves as liaison with associate chiefs of staff for research and development, individual investigators, Congress, other divisions of VA, federal agencies, veterans service organizations, and medical and scientific societies.



John Demakis, M.D.

Director, Health Services Research and Development Service (HSR&D)

HSR&D improves the quality, effectiveness, efficiency, and accessibility of health care services for veterans.



Paul Hoffman, M.D.

Director, Medical Research Service (MRS)

MRS increases our knowledge of the fundamental biological processes and our understanding of disease pathology, diagnosis, and treatment.

VA Research

Milestones

The value of research has rarely been more evident than it is today. The technological revolution that began in the late 1950s continues to produce increasingly sophisticated tools for research. Investigators have built a knowledge base unimaginable during the previous century. Our annual report for 2001 highlights selected VA research findings that are a significant part of this tremendous progress. Additional VA research highlights can be viewed on the ORD website at www.va.gov/resdev.



■ A study led by investigators from the Minneapolis VA Medical Center (VAMC), and conducted at 20 VA medical centers, found that raising levels of high-density lipoproteins (HDL), so-called “good” cholesterol, substantially reduces the incidence of **stroke** for some patients. Gemfibrozil, a lipid-regulating agent used to lower cholesterol and triglyceride levels in your blood, may also reduce costs of care because it is available in generic form and has not shown any major side effects.

Circulation, June 12, 2001

■ Investigators and a surgical team at the West Haven VAMC performed the first transplant of nerve cells in a patient with **multiple sclerosis**. This study may show whether cells from the body’s peripheral nerves can safely repair the damaged cells in the brain and spinal cord.

Myelin Project #0004, August 2001

■ Scientists at the San Francisco VAMC found that **equal access to VA care** may lead to improved survival rates for African American patients. This contrasts with numerous studies of other health systems that show there is a higher death rate among African Americans than among whites for many diseases.

Journal of the American Medical Association, January 17, 2001

■ Fecal blood tests for **colon cancer** detect less than 25 percent of precancerous colon growths in people with no symptoms. Results of a VA clinical trial, led by investigators at the Portland VAMC, show that effective screening programs for colon cancer require repeat testing.

New England Journal of Medicine, August 23, 2001

■ A form of a **hepatitis** virus may prolong the life of patients with HIV. In a study conducted at the Iowa City VA Medical Center, researchers found that this ‘friendly’ virus slows the rate at which the AIDS virus multiplies.

New England Journal of Medicine, September 6, 2001

in VA Research...

■ A multi-site VA study, led by scientists at the Dallas VAMC, found that many patients must continue using antisecretory medicines or antacids for **gastroesophageal reflux disease** (GERD) even after surgery to correct the condition. The patients were also as likely to have complications as those who did not have surgery.

Journal of the American Medical Association, May 9, 2001

■ Scientists from the Durham VAMC found that cognitive behavioral therapy is an effective treatment of **insomnia** without the use of drugs. This treatment could benefit the health and well-being of more than 14 million Americans, who frequently have trouble sleeping.

Journal of the American Medical Association, April 11, 2001

■ Using a simple, inexpensive blood test, a VA cardiologist in San Diego developed a faster protocol for diagnosing **heart attacks** in the emergency room. The test may save millions of dollars in unnecessary critical-care hospital admissions.

American Journal of Cardiology, September 15, 2001

■ Scientists at the VA in San Diego found a new way to treat the **AIDS** virus by using up to four or five drugs in combination, resulting in a significant decline in hospital use and a lower overall health care cost among HIV patients in the U.S. These treatments are widely recognized as a life-extending measure for AIDS patients, although they are somewhat controversial due to serious side effects.

New England Journal of Medicine, March 15, 2001

■ VA investigators at the Minneapolis VAMC have found that vaccinating healthy adults against influenza could save the nation as much as \$1.3 billion annually. Study results indicated that annual health costs would be reduced an average of \$13.66 per person vaccinated among the nation's 94 million full-time workers between the ages of 18 to 64.

The Archives of Internal Medicine, March 12, 2001

■ Scientists from the Seattle VAMC have designed an experimental model to determine the effects of rigid and flexible **orthoses** on the movement of the foot. Computerized scans create three-dimensional images for design of customized orthoses. Early results show the rigid orthoses can correct outward turning of three foot bones.

RR&D Center for Amputation, Prosthetics, Limb Loss Prevention, 2000

■ Investigators at the Palo Alto VA Medical Center developed a technique for using electro-signals to study the way particular muscles produce force. This type of analysis promises to be useful for studying **muscle changes** in aging and disease.

Clinical Neurology, January 2001



Challenges

Research is a critical component of VA's effort to serve the health care needs of America's veterans. We continuously review our research priorities and seek new opportunities to keep VA at the cutting edge of science and medicine. Following are some of our new initiatives during 2001:

“VA RESEARCH IS A NATIONAL ASSET THAT IS A MAGNET FOR ATTRACTING HIGH-CALIBER CLINICIANS TO PRACTICE MEDICINE AND CONDUCT RESEARCH IN VA. THE RESULTING ATMOSPHERE OF MEDICAL EXCELLENCE AND INGENUITY, DEVELOPED IN CONJUNCTION WITH COLLABORATING MEDICAL SCHOOLS AND UNIVERSITIES, BENEFITS EVERY VETERAN.”

INDEPENDENT BUDGET OF VETERANS
SERVICE ORGANIZATIONS



■ A new Rehabilitation Outcomes Research Center for veterans with central nervous system damage has been established at the North Florida/South Georgia VA Medical Center in Gainesville. This is the first center to address rehabilitation outcomes research as well as the first jointly funded center by our Rehabilitation Research and Development and the Health Services Research and Development Services.

■ The Pittsburgh and Philadelphia VA medical centers are partners in the Center for Health Equity Research and Promotion. Scientists will develop and support research, education, policy making, and dissemination that focus on disparities related to race/ethnicity, socioeconomic status, and comorbid illnesses.

■ Three new Rehabilitation R&D Centers of Excellence have been established for the following areas: Center for Innovative Visual Research (Boston), Center for Treating Secondary Disabilities with SCI (Bronx), and the Center for Restoration of Function in Patients with SCI (Miami).

■ VA has established six new centers to improve treatments and pursue a cure for Parkinson's disease (PD). The Parkinson's Disease Research, Education, and Clinical Centers are located in Houston, Philadelphia, Portland, Richmond, San Francisco, and West Los Angeles. They will participate in a VA Cooperative Study to assess the effectiveness of surgical implantation of deep brain stimulators in reducing the symptoms of PD, a landmark clinical trial involving VA, The National Parkinson Foundation, Inc., and the National Institute of Neurological Disorders and Stroke.

and opportunities...

■ The Medical Research Service's Research Enhancement Award Program (REAP) supports integration of basic science and clinical research into medical problems of importance to the veteran population. Rehabilitation Research and Development and Health Services Research and Development Services are also using REAPs to support studies in their research programs.

■ Health Services Research and Development has established a new Quality Enhancement Research Initiative (QUERI) center that will focus on colorectal cancer. The new center, a collaboration with the National Cancer Institute's Quality of Cancer Care program, has a mission of translating findings and evidence-based best practices of colorectal cancer prevention, diagnosis, and treatment into patient outcome and system improvements.

■ Investigators from VAMCs around the country have submitted scientific proposals designed to advance rehabilitative health care for veterans with disabilities. In accordance with President Bush's New Freedom initiative, the proposals focus on emerging technologies to assist persons with disabilities and/or "orphan" areas with high relevance to veterans.

■ A new infrastructure program will assist VA facilities in making necessary improvements for the research program's physical facilities. It will assess the status of the research infrastructure through nationwide surveys of VA medical centers.

■ A Cooperative Studies project will examine the feasibility and cost-effectiveness of creating a central VA-wide facility for gene banking. Scientific, ethical, and veterans' groups will provide input into the project.

■ VA has established the government's first independent, external accreditation program for human research. This program will ensure that human study participants will continue to receive the best possible protection during research at VA.

challenges



Partnerships

VA is proud to collaborate with diverse institutions that share its research interests. The impact of taxpayer investments in research increases through an array of synergistic partnerships with other federal agencies, non-profit organizations, private industry, and academic affiliates. These efforts demonstrate the great value of public and private collaborations that bring new expertise, energy, and insight to the complex issues affecting medical research and patient care.



Tri-National Collaborations: United States, Canada, and the United Kingdom

Researchers from VA and the medical research councils of Canada and the United Kingdom are evaluating the best treatment strategies for HIV-infected patients for whom highly active antiretroviral therapy has failed. This study, Options in Management with Anti-retrovirals (OPTIMA), will involve approximately 1,700 patients at more than 70 sites, including 30 VA Medical Centers.

National Cancer Institute (NCI)

The VA Cooperative Studies Program is participating in an NCI-sponsored study that is the first clinical trial designed to determine if dietary supplements (Vitamin E and selenium) prevent prostate cancer. VA will provide nearly 40 sites and 6,000 patients for the 12-year trial. Prostate cancer is the most common cancer in the VA healthcare system, and measures to prevent it would be of great importance to the VA and the nations' veterans. VA research QUERI is also collaborating with NCI on the establishment of a new Cancer QUERI Center at the Minneapolis VAMC that will focus on colorectal cancer

National Institute of Neurological Disorders and Stroke (NINDS)

VA and NINDS have signed an agreement that provides for joint funding for the newly established specialized centers to improve care and pursue a cure for Parkinson's disease. In addition, VA-affiliated university sites will collaborate with the centers, including the University of Pennsylvania, Medical College of Virginia/Virginia Commonwealth University, Baylor University, University of California at Los Angeles, University of California at San Francisco, and Oregon Health Sciences University.

National Institute on Aging (NIA)

In collaboration with NIA, VA is planning a study to determine whether a decrease in bone mineral density and muscle

strength in elderly men may be linked with lower levels of testosterone. New evidence already indicates that testosterone treatment will increase bone mineral density and lean body mass.

National Institute On Drug Abuse (NIDA)

VA is committed to providing an integrated, comprehensive and cost effective continuum of care for substance abuse and dependency disorders that are significant and costly problems among veterans. A VA/NIDA collaboration focuses on research to develop new pharmacotherapeutic approaches for treatment of drug addiction and other psychiatric disorders.

Centers for Medicare and Medicaid Services (CMS)

VA research, with support of the VA Office of Policy and Planning, is attempting to merge VA and CMS health utilization data. This collaboration will allow the two agencies to examine and predict the amount and patterns of health services used by veterans, especially by VA enrollees within and outside VA. It will also develop estimates of the total cost of health care services for VA users. One such study (published in American Journal of Medicine, February 2002) indicates that millions of dollars may be saved by administering erythropoietin, used to improve anemia, subcutaneously instead of intravenously, to patients undergoing hemodialysis.

National Parkinson Foundation (NPF)

VA and NPF have a partnership that strengthens both organizations' efforts to improve treatments and find cures for Parkinson's disease. This collaboration

publicizes information and develops research, treatment symposiums, and continuing education for VA clinicians who treat Parkinson's disease.

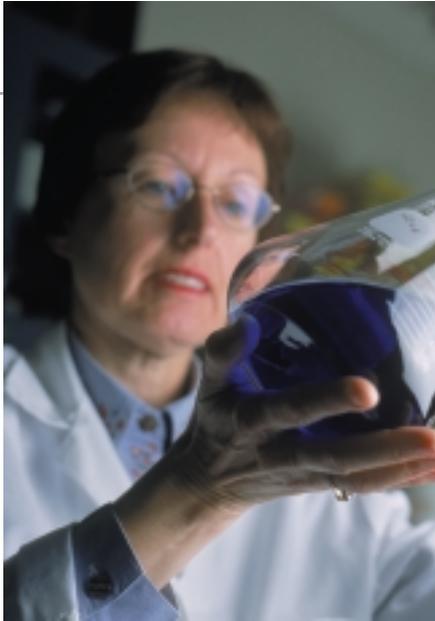
National Stroke Association (NSA)

VA and NSA are working to create a greater awareness of stroke prevention through education of health care providers and patients. Over 15,000 veterans are hospitalized annually for this disease. Research findings indicate a variety of preventive measures can be taken to reduce the risk of stroke and heart disease.

Department of Defense (DoD)

VA and DoD have established mutual interest research areas and together fund projects that include such topics as mechanisms of emerging pathogens, combat casualty and wound repair, traumatic brain injury, and physiological foundations of physical performance and combat readiness. In addition, VA, DoD, and the Department of Health and Human Services continue to seek answers for the ailments experienced by some Gulf War veterans.





Partnerships (continued)

Eastern Paralyzed Veterans Association (EPVA)

VA research and EPVA have partnered to encourage VA spinal cord clinicians to take a more active role in conducting research to examine the clinical consequences and potential solutions to living with spinal cord injury.

Paralyzed Veterans of America (PVA)

VA and PVA have a mutual interest in promoting research aimed at multiple sclerosis. PVA facilitates and shares funding to support VA investigator involvement in the National MS Consortium, a strategic-planning and information-sharing event.

Private Industry

VA research has collaborations with a number of leading biotechnology and pharmaceutical companies. The companies provide study medications, devices, or other support to ongoing clinical trials:

Abbott Laboratories
Abbott MediSense
Amide
Astra Merck
Astra Zeneca
Astra Zeneca-Canada
Aventis
Aviron
Berlex Laboratories
Bristol-Myers-Squibb
Datascope
Du Pont Pharmaceuticals
Eli Lilly and Company
Fujisawa Healthcare
General Nutricia, Inc.
Hoechst-Marion-Roussell
Hybritech, Inc.
Ibah Pharmaceuticals
Integrated Therapeutics Group
Interpore Corporation

Key Pharmaceuticals
King Monarch
KOS Pharmaceuticals
Merck
Merck-Lipha
Novartis
Novo Nordisk
Nycomed Amersham
Ortho-Dermatologies
Pan American Laboratories
Parke-Davis
Pfizer Pharmaceuticals
Reckitt & Colman
Roche Pharmaceuticals
Sabinsa
Sanofi Pharmaceuticals
Schering-Plough
SmithKline Beecham Pharmaceuticals
Somerset Pharmaceuticals, Inc.
Wyeth-Ayerst

Research funding...

As a taxpayer-funded program, VA Research must continue to demonstrate its value to the nation. Many of the VA's research achievements benefit the general population as well as veterans. During Fiscal Year 2001, VA research funds supported studies by more than 3,800 scientists at over 115 VA facilities across the country.

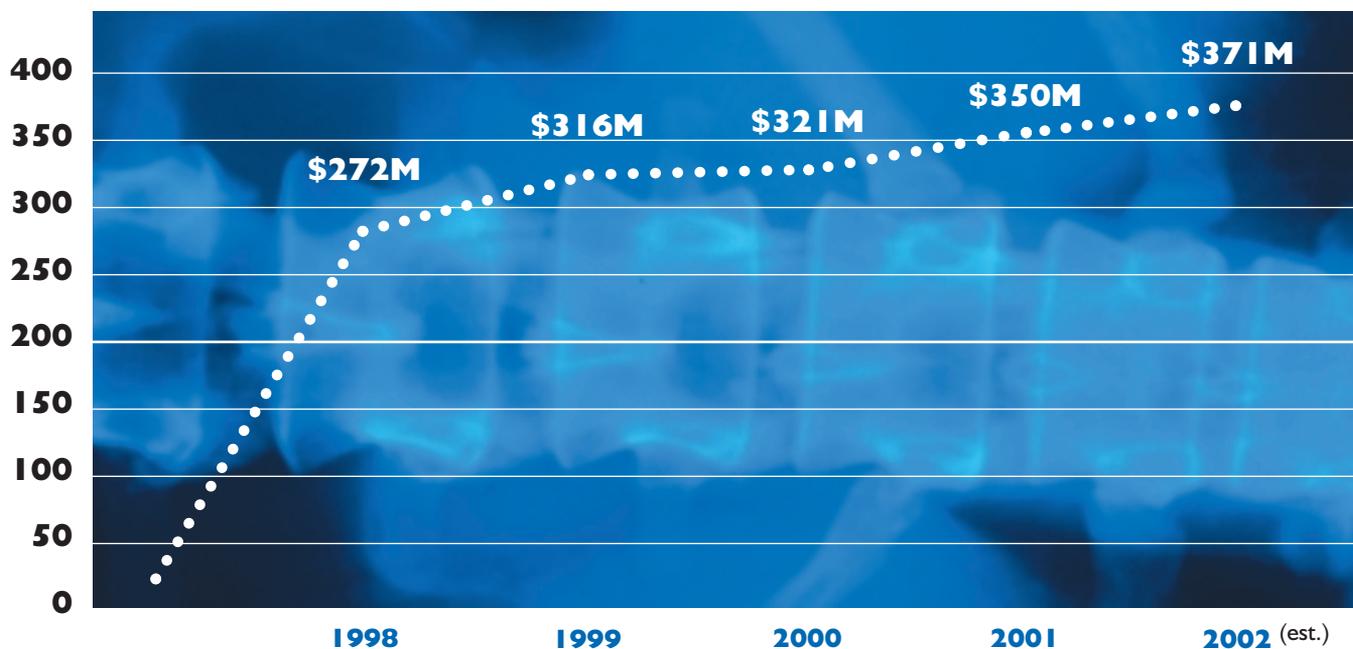


Figure 1 shows the recent growth in the VA research budget appropriation to support the direct costs of this work

The Veterans Health Administration provides Medical Care funds for research infrastructure and indirect costs, such as clinician salaries, laboratory facilities, and support services. VA investigators expand their research support with grants from other federal and private agencies.

YEAR	1998	1999	2000	2001	2002 (est.)
Appropriation	\$272.0	315.7	321.0	350.0	371.0
Medical Care	\$310.7	325.9	344.8	356.0	377.0
Non-VA Sources	\$430.0	480.6	504.6	595.0	624.0
.....					
TOTAL	\$1,012.7	1,122.2	1,170.4	1,301.0	1,372.0

Figure 2 shows va research financial resources for the past several years and a projection for fiscal year 2002 (in millions)

The Office of Research and Development allocates funds in support of research projects, with the largest portion devoted to investigator-initiated studies.

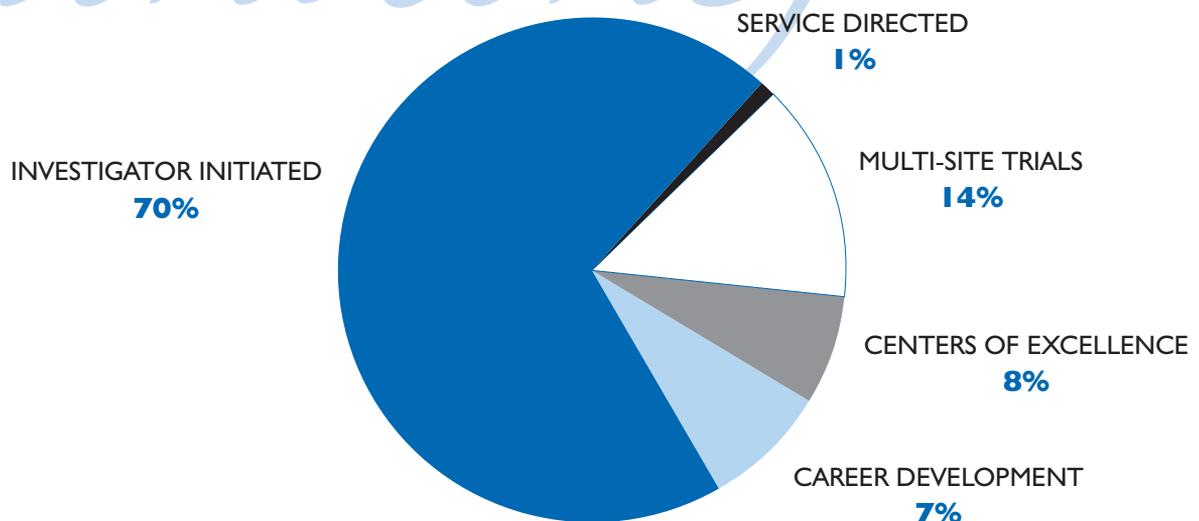


Figure 3 illustrates how va research funds were expended in 2001

Looking Forward

Future Outlook

The outlook is bright for VA research as the discovery of knowledge advances the health care for veterans and the nation. We are seeing substantial progress in such areas as recombinant DNA, genetic engineering, organ transplants, cellular chemistry, and pharmacology. This knowledge may prove vital to unlocking the mysteries of cancer, schizophrenia, the aging process, and other health concerns.

IMPORTANT FUTURE RESEARCH INITIATIVES WILL FOCUS ON CANCER, MENTAL HEALTH, STROKE, DEMENTIA, AIDS, HEPATITIS, QUALITY OF CARE, PATIENT OUTCOMES IN REHABILITATIVE CARE, AND MICRO-TECHNOLOGY.

VA has an historic opportunity to provide the best care for veterans. For example, VA has established the federal government's first independent, external accreditation program to ensure the safety of volunteers in clinical trials. We also have initiated a major national trial to assess the effectiveness of deep brain stimulation to diminish symptoms of Parkinson's disease. New single-site clinical trials may lead the way to larger studies. In addition, we have reviewed proposals for our new research priority areas of low vision/blind rehabilitation and neurorehabilitation/neurologic repair research. New research is also emphasizing pain management in conditions prevalent among veterans.

We will continue our focus on illnesses prevalent among veterans and translate our research discoveries into superior patient care, improved outcomes, and enhanced health system efficiency. Important future research initiatives will focus on cancer, mental health, stroke, dementia, AIDS, hepatitis, quality of care, patient outcomes in rehabilitative care, and micro-technology. We will also strive to meet our most important challenges, such as recruiting top scientists, improving the research infrastructure, information technology and database management, human and animal protections, risk management, academic affiliations and budgetary resources.

We expect to see further remarkable changes in the coming decades. Our scientists will continue to discover and create new knowledge and innovations as VA continues its support for the training of future scientists, especially clinical investigators. Their work is an integral part of our continual effort to serve the health care needs of America's veterans as effectively and efficiently as possible.





Centers of *Excellence*

MEDICAL RESEARCH SERVICE

Diabetes Research Centers

Iowa City, IA
Nashville, TN
San Diego, CA

Environmental Hazards Research Centers

Boston, MA
San Antonio, TX

AIDS Research Centers

Atlanta, GA
Durham, NC
New York, NY
San Diego, CA

Alcoholism Research Centers

Omaha, NE
West Haven, CT

Schizophrenia Research Centers

Denver, CO
West Haven, CT

RESEARCH ENHANCEMENT AWARD PROGRAMS

Bone Diseases

Atlanta, GA
Little Rock, AR

Cancer

Northport, NY
West Los Angeles, CA

Prostate Cancer

Iowa City, IA
San Francisco, CA

Cardiovascular Disease

Charleston, SC
Brooklyn, NY

Alzheimer's Disease and Dementia

San Diego, CA
Seattle, WA

Diabetes

Detroit, MI

Gastrointestinal Diseases

Chicago, IL

Hepatitis

Palo Alto, CA
Portland, OR

Mental Health

West Haven, CT

Multiple Sclerosis

Portland, OR

Stroke

San Francisco, CA

Parkinson's Disease

Bedford, MA
Baltimore, MD
Denver, CO

Pulmonary Disease

Ann Arbor, MI
Boston, MA
Cincinnati, OH

Renal Disease

Charleston, SC
San Antonio, TX

Wound Healing

Long Beach, CA

COOPERATIVE STUDIES PROGRAM

Coordinating Centers

Hines, IL
Palo Alto, CA
Perry Point, MD
West Haven, CT

Clinical Research Pharmacy Coordinating Center

Albuquerque, NM

Epidemiological Research and Information Centers (ERIC)

Boston, MA
Seattle, WA
Durham, NC

REHABILITATION RESEARCH & DEVELOPMENT SERVICE

Center for Geriatric Rehabilitation

Atlanta, GA

Center for Innovative Visual Research

Boston, MA

Center for Treating Secondary Disabilities of SCI

Bronx, NY

Center for Functional Electrical Stimulation

Cleveland, OH

Center for Healthy Aging with Disabilities

Houston, TX

Center for Mobility

Palo Alto, CA

Center for Rehabilitative Auditory Research

Portland, OR VAMC

Center for Limb Loss Prevention and Prosthetics Engineering

Seattle, WA

Brain Rehabilitation Center

Gainesville, FL

Center for Wheelchair and Related Technology

Pittsburgh, PA

Center for Restoration of Function in Patients with SCI

Miami, FL

Center for Restoration of Function in SCI and Multiple Sclerosis

West Haven, CT

HEALTH SERVICES RESEARCH & DEVELOPMENT SERVICE

Center for Practice Management and Outcomes Research

Ann Arbor, MI

Center for Health Quality, Outcomes, and Economic Research

Bedford, MA

Center for Health Services Research in Primary Care

Durham, NC

Midwest Center for Health Services and Policy Research

Hines, IL

Rehabilitation Outcomes Research Center for Veterans with Central Nervous System Damage (in collaboration with Rehabilitation

Research & Development Service)

Gainesville, FL

Center for Quality of Care and Utilization Studies

Houston, TX

Center for Mental Healthcare and Outcomes Research

Little Rock, AR

Center for Health Care Evaluation

Palo Alto, CA

Center for Health Equity Research and Promotion

Pittsburgh, PA

Veterans Evidence-Based Research, Dissemination, and Implementation Center

San Antonio, TX

Northwest Center for Outcomes Research in Older Adults

Seattle, WA

Center for the Study of Healthcare Provider Behavior

Sepulveda, CA

Center for Chronic Disease Outcomes Research

Minneapolis, MN

HSR&D Resource Centers

Management Decision and Research Center,

Boston, MA

VA Information Resource Center,

Chicago, IL

Health Economics Resource Center,

Palo Alto, CA

Career Development *Awardees 2001*

The Office of Research and Development recognizes that to retain its strength over the long term it must support the development of investigators at all stages of their careers. A key part of this commitment is the Career Development Program that provides salary and research support for investigators to conduct studies or receive specific training to enhance their skills and to work with experienced mentors. Each area of the research enterprise offers Career Development awards that help attract highly talented researchers who are essential to maintaining and building the vitality of the program. Following is a list of Career Development award recipients for 2001 from the Medical Research Service, Rehabilitation Research and Development.

Medical Research Service

Seema S. Ahuja, M.D., *San Antonio, TX*
Maria Alejandra Alfonso-Jaume, M.D., *San Francisco, CA*
Bradley L. Allen, M.D., Ph.D., *Iowa City, IA*
Gregory M. Anstead, M.D., Ph.D., *San Antonio, TX*
Donald, D. Anthony, M.D., Ph.D., *Cleveland, OH*
Richard Aranda, M.D., *West Los Angeles, CA*
David Arciniegas, M.D., *Denver, CO*
Daniel F. Balkovetz, M.D., Ph.D., *Birmingham, AL*
Raj K. Batra, M.D., *West Los Angeles, CA*
Mark I. Block, M.D., *San Francisco, CA*
Hilary Blumberg, M.D., *West Haven, CT*
Carol Bogdan, M.D., *New York, NY*
James D. Bremner, M.D., *Decatur, GA*
James D. Bremner, M.D., *West Haven, CT*
Arthur L. Brody, M.D., *West Los Angeles, CA*
Michael R. Bubb, M.D., *Gainesville, FL*
James C. Chappell, M.D., *Denver, CO*
Mary E. Choi, M.D., *Pittsburgh, PA*
Mary E. Choi, M.D., *West Haven, CT*
Paul J. Christensen, M.D., *Ann Arbor, MI*
Melissa P. Clark, M.D., *Nashville, TN*
Andrea J. Cohen, M.D., *Denver, CO*
Errol D. Crook, M.D., *Jackson, MS*
Kenneth Cusi, M.D., *San Antonio, TX*
David I. Daikh, M.D., Ph.D., *San Francisco, CA*
Robert S. Danziger, M.D., *Chicago, IL*
Chandlee Dickey, M.D., *Brockton, MA*
Curtis J. Donskey, M.D., *Cleveland, OH*
Donald M. Eicher, M.D., *Cleveland, OH*
Nacide G. Ercan-Fang, M.D., *Minneapolis, MN*
Ngozi E. Erondy, M.B.B.S., Ph.D., *Iowa City, IA*
Bahaa M. Fadel, M.D., *Palo Alto, CA*
Robert C. Frederich, M.D., Ph.D., *Lexington, KY*
Sarah L. George, M.D., *Iowa City, IA*

Martin R. Gluck, M.D., Ph.D., *Bronx, NY*
Francisco J. Gomez, M.D., *Cincinnati, OH*
Daniel J. Gottlieb, M.D., M.P.H., *Boston, MA*
Mary O. Gray, M.D., *San Francisco, CA*
Edward A. Hirschowitz, M.D., *Lexington, KY*
Jeffrey W. Hott, M.D., *Indianapolis, IN*
Eric J. Huang, M.D., Ph.D., *San Francisco, CA*
Min Huang, M.D., *West Los Angeles, CA*
Gwendolyn L. Kartje, M.D., Ph.D., *Hines, IL*
Robert L. Keith, M.D., *Denver, CO*
Carolyn J. Kelly, M.D., *San Diego, CA*
Dennis F. Kucik, M.D., Ph.D., *Birmingham, AL*
Thomas J. Lang, M.D., Ph.D., *Baltimore, MD*
Thu H. Le, M.D., *Durham, NC*
Samuel A. Lee, M.D., *West Haven, CT*
Michael C. Levin, M.D., *Memphis, TN*
Israel Liberzon, M.D., *Ann Arbor, MI*
Richard Z. Lin, M.D., *San Antonio, TX*
Richard Macko, M.D., *Baltimore, MD*
Joseph F. Maher, M.D., *Jackson, MS*
Mark G. Mainwaring, M.D., Ph.D., *Gainesville, FL*
Hiroshi, Mashimo, M.D., Ph.D., *Brockton, MA*
Alan E. Mast, M.D., Ph.D., *Memphis, TN*
Cynthia Mendez, M.D., *Tampa, FL*
Barbara Menzies, M.D., *Seattle, WA*
Patrice Miller, M.D., *West Los Angeles, CA*
Joseph M. Moates, M.D., *Houston, TX*
David B. Mount, M.D., *Nashville, TN*
Matthew A. Movsesian, M.D., *Salt Lake City, UT*
John P. Mulhall, M.D., *Hines, IL*
Mary C. Nakamura, M.D., *San Francisco, CA*
David E. Naylor, M.D., Ph.D., *Sepulveda, CA*
Antonia S. New, M.D., *Bronx, NY*
M. H. Nguyen, M.D., *Gainesville, FL*

Ann Olincy, M.D., *Denver, CO*
M. Bishr Omary, M.D., Ph.D., *Palo Alto, CA*
Dan A. Oren, M.D., *West Haven, CT*
Don J. Park, M.D., Ph.D., *Nashville, TN*
John H. Peters, M.D., *Martinez, CA*
Joseph R. Pisegna, M.D., *West Los Angeles, CA*
Madhu Prasad, M.D., *Portland, OR*
Joseph F. Quinn, M.D., *Portland, OR*
Javier Quintana, M.D., Ph.D., *West Los Angeles, CA*
Matthew B. Rettig, M.D., *West Los Angeles, CA*
Daniel J. Riley, M.D., *San Antonio, TX*
Mary-Claire Roghmann, M.D., *Baltimore, MD*
Randal G. Ross, M.D., *Denver, CO*
David M. Roth, M.D., Ph.D., *San Diego, CA*
George H. Rudkin, M.D., *West Los Angeles, CA*
Karl A. Sanders, M.D., *Salt Lake City, UT*
Jay W. Schneider, M.D., Ph.D., *Brockton, MA*
Alistair J. Scriven, M.D., *Salt Lake City, UT*
Joseph B. Shrager, M.D., *Philadelphia, PA*
Richard V. Sims, M.D., *Birmingham, AL*
Jeffrey R. Smith, M.D., Ph. D., *Nashville, TN*
Catherine Stehman-Breen, M.D., M.S., *Seattle, WA*
Martin J. Stevens, M.D., *Ann Arbor, MI*
Chris C. Streeter, M.D., *Boston, MA*
Jeffrey J. Sussman, M.D., *Cincinnati, OH*
John R. Teerlink, M.D., *San Francisco, CA*
Hoang Minh Thai, M.D., *Tucson, AZ*
G. Nicholas Verne, M.D., *Gainesville, FL*
Anna V. Vinnikova, M.D., *Richmond, VA*
Maria L. Wei, M.D., Ph.D., *San Francisco, CA*
Karen Welty-Wolf, M.D., *Durham, NC*
John Wemmie, M.D., Ph.D., *Iowa City, IA*
Jeffrey A. Wesson, M.D., Ph.D., *Milwaukee, WI*
William G. Wierda, M.D., Ph.D., *San Diego, CA*
Cheryl M. Wong, M.D., *Bronx, NY*
Joseph Wong, M.D., *San Diego, CA*

Cooperative Studies Program

Elain Tsai, MD - *Seattle VAMC*
Erin Warshaw, MD - *Minneapolis VAMC*
Anita Deswal, MD - *Houston VAMC*

Rehabilitation Research and Development Service

John Baker, Ph.D., *Buffalo, NY*
Kevin McQuade, Ph.D., *Baltimore, MD*
Anna Moore, Ph.D., *Gainesville, FL*
Theresa Pape, Dr. P.H., *Hines, Chicago IL*
Katherine Ross, Ph.D., *Phoenix, AZ*

Health Services Research and Development Service

Ashan Arozullah, M.D., M.P.H., *Chicago, IL*
Steven Asch, M.D., M.P.H., *West Los Angeles, CA*

David Au, M.D., *Seattle, WA*
Lori Bastian, M.D., M.P.H., *Durham, NC*
John Birkmeyer, M.D., *White River Junction, VT*
Steven Borowsky, M.D., M.P.H., *Minneapolis, MN*
Dawn Bravata, M.D., *West Haven, CT*
Marcia Burman, M.D., *Seattle, WA*
Marian Butterfield, M.D., M.P.H., *Durham, NC*
David Casarett, M.D., *Philadelphia, PA*
John Concato, M.D., *West Haven, CT*
Joseph Conigliaro, M.D., M.P.H., *Pittsburgh, PA*
David Edelman, M.D., *Durham, NC*
Hashem El-Serag, M.D., *Houston, TX*
Samuel Finlayson, M.D., M.P.H., *White River Junction, VT*
Liana Fraenkel, M.D., *West Haven, CT*
Susan Frayne, M.D., *Boston, MA*
Vincent Freeman, M.D., *Hines, IL*
Terri Fried, M.D., *West Haven, CT*
Mary Goldstein, M.D., *Palo Alto, CA*
Howard Gordon, M.D., *Houston, TX*
Michael Gould, M.D., *Palo Alto, CA*
Ian Gralnek, M.D., M.S., *West Los Angeles, CA*
Paul Haidet, M.D., M.P.H., *Houston, TX*
Paul Heidenreich, M.D., *Palo Alto, CA*
Timothy Hofer, M.D., M.Sc., *Ann Arbor, MI*
Said Ibrahim, M.D., *Pittsburgh, PA*
Judith Jones, D.D.S., M.P.H., *Bedford, MA*
Helen Kales, M.D., *Ann Arbor, MI*
Eve Kerr, M.D., M.P.H., *Ann Arbor, MI*
Joann Kirchner, M.D., *Little Rock, AR*
Sara Knight, Ph.D., *San Francisco, CA*
Mark Kunik, M.D., *Houston, TX*
Joshua Metlay, M.D., Ph.D., *Philadelphia, PA*
Sundar Natarajan, M.D., *Charleston, SC*
John Peabody, M.D., Ph.D., *San Francisco, CA*
David Penson, M.D., *Seattle, WA*
Laura Petersen, M.D., M.P.H., *Houston, TX*
Leonard Pogach, M.D., M.B.A., *East Orange, NJ*
Jeffrey Pyne, M.D., *Little Rock, AR*
M. Carrington Reid, Ph.D., M.D., *West Haven, CT*
Kathleen Richards, Ph.D., R.N., *Little Rock, AR*
Kenneth Rosenfeld, M.D., *West Los Angeles, CA*
John Rumsfeld, M.D., Ph.D., *Denver, CO*
Sanjay Saint, M.D., M.P.H., *Ann Arbor, MI*
Lisa Schwartz, M.D., M.S., *White River Junction, VT*
Alfredo Selim, M.D., *Boston, MA*
Paul Shekelle, M.D., Ph.D., *West Los Angeles, CA*
Michael Shlipak, M.D., M.P.H., *San Francisco, CA*
James Tulskey, M.D., *Durham, NC*
Peter Ubel, M.D., *Ann Arbor, MI*
Constance Uphold, Ph.D., *Gainesville, FL*
Marcia Valenstein, M.D., *Ann Arbor, MI*
Sandeep Vijan, M.D., *Ann Arbor, MI*
Bonnie Wakefield, Ph.D., R.N., *Iowa City, IA*
John Whited, M.D., *Durham, NC*
Mary Whooley, M.D., *San Francisco, CA*
Linda Williams, M.D., *Indianapolis, IN*
Steven Woloshin, M.D., M.S., *White River Junction, VT*
Alexander Young, M.D., *West Los Angeles, CA*
Bevan Yueh, M.D., *Seattle, WA*

Special *Awards*

Our people are the greatest resource of our research program. We are proud to have some of our nation's greatest scientific minds working with us in service to our veterans. Each year we honor those researchers who truly exemplify excellence. The awards and most recent recipients are listed below.

Paul B. Magnuson Award

This award is presented annually to a VA RR&D investigator who exemplifies the entrepreneurship, humanitarianism, and dedication to veterans. It recognizes the importance of rehabilitation research within the VA health care system and is the highest honor for VA rehabilitation researchers.

P. Hunter Peckham, Ph.D.

Cleveland VAMC

Dr. Peckham's research team has developed a procedure to provide control of grasp-release in tetraplegic/quadriplegic subjects thereby enabling individuals with CNS disabilities to regain the ability to perform essential activities of daily living, such as eating and grooming.

William S. Middleton Award

Representing outstanding achievement in biomedical or behavioral research, this highest honor for VA's medical research program is based on the nominee's contributions in biomedical or behavioral science pertinent to the advancement of medical knowledge and medical care within VA.

Eugene Butcher, M.D.

Palo Alto VAMC

Dr. Butcher's research has paved the way to understanding the molecular basis of lymphocyte homing, a fundamental process of the immune response and inflammation methods of numerous diseases that affect veterans.

Under Secretary's Award for Outstanding Achievement

The Under Secretary's Award is the highest honor for a VA health services researcher. It recognizes the maturation and importance of VA's health services research program and its vital link to the health care of veterans and the public.

Lisa Rubenstein, M.D.

VA Greater Los Angeles Healthcare System

Dr. Rubenstein has earned national recognition as a leader in the design and evaluation of systems to improve the quality of health care with particular attention to helping doctors and nurses work with patients on improving patient quality of life.

Presidential Early Career Award

This award recognizes young scientists and engineers who show 'exceptional potential for leadership at the frontiers of scientific knowledge'. Recipients for 2001 are:

Jeffrey Smith, M.D., Ph.D.

Nashville VAMC

Dr. Smith will receive his award for his outstanding contributions to understanding the molecular genetics of prostate cancer.

James A. Tulsky, M.D.

Durham VAMC

Dr. Tulsky will receive his award for his exceptional contributions to the practical applications of medical ethics, including physician-patient communication and the quality of care for dying patients.

special awards

Summary of 2001 *Research & Development Projects*



Following is a summary of all VA Research and Development funded studies during Fiscal Year 2001. Studies are organized by research service — Rehabilitation Research and Development, Cooperative Studies Program, Medical Research Service, and Health Services Research and Development, and include the study investigator and the funded amount of the project for 2001.

MEDICAL RESEARCH SERVICE

- Synaptotagmin as a Calcium Sensor in Mast Cell Exocytosis,*
Roberto Adachi, M.D., \$50,000
- Mechanism of Colon Cancer Prevention by NSAIDs and SAANDs,*
Dennis J. Ahnen, M.D., \$130,944
- Chemokine System in T cell and Dendritic Cell Function,*
Sunil Ahuja, M.D., \$62,496
- The Application of Anti-Fibrotics to the Prevention of Epidural Fibrosis,*
Wayne H. Akesson, M.D., \$128,736
- Striatal and Subthalamic mGluRs,*
Roger L. Albin, M.D., \$41,616
- Mechanisms of Cholangiocyte Proliferative and Secretory Heterogeneity,*
Gianfranco D. Alpini, Ph.D., \$70,668
- Cutaneous Neuroangiogenesis in Normal, Neuroimpaired, and Aged Animals,*
John C. Ansel, M.D., \$65,808
- Exploiting Folate Receptors in a Novel Approach to Colon Cancer Therapy,*
Asok C. Antony, M.D., \$70,368
- Breathing Instability and Upper Airway Obstruction During Sleep,*
M. Safwan Badr, M.D., \$91,677
- Molecular Probes to Image DNA Damage in Live and Fixed Brain Cells,*
David S. Baskin, M.D., \$79,728
- Effect of Strain on Intestinal Epithelial Phenotype,*
Marc D. Basson, M.D., Ph.D., \$112,344
- Cytotoxicity of Myeloma Light Chains,*
Vecihi Batuman, M.D., \$74,112
- Tobacco Use in Veterans: Effect of Trauma Exposure & PTSD,*
Jean C. Beckham, Ph.D., \$98,400
- Immunobiology of Amyloid Protein SAA,*
Merrill D. Benson, M.D., \$104,832
- GRP Receptor Expression in Human and Mouse Colon Cancer,*
Richard V. Benya, M.D., \$72,480
- Regulation of Osteoclasts in Hyperparathyroid Bone,*
Harry C. Blair, M.D., \$103,296
- Angiotensin-Adrenergic Interactions in the Kidney,*
Roland C. Blantz, M.D., \$134,400
- Calpain and Cytoskeletal Regulation of eNOS Activity in Lung Endothelium,*
Edward R. Block, M.D., \$58,896
- Structure/Function Analysis of Estrogen Receptor-Mediated Anticaptosis,*
Donald Bodenner, M.D., \$68,544
- Chronic Inflammation and Gastrointestinal Cancer,*
C. Richard Boland, M.D., \$134,400
- Alpha Lipoic Acid Therapy for Experimental Autoimmune Encephalomyelitis,*
Dennis N. Bourdette, M.D., \$64,800
- Neurochemical Studies of C2 Congeners of Cocaine,*
Charles W. Bradberry, Ph.D., \$163,820
- Cognitive Status in People at Risk for Cerebrovascular Disease,*
Christopher B. Brady, Ph.D., \$68,550
- Neurochemistry of Oral Sensory Receptors,*
Joseph Brand, Ph.D., \$143,440
- Vascular Smooth Muscle Glucose Transporters in Hypertension,*
Frank C. Brosius, M.D., \$21,600
- Olfactory Ensheathing Cell Transplantation in Spinal Cord Injury,*
Todd J. Brown, Ph.D., \$37,100
- Redox Regulation of Hepatic Stellate Cell Activation,*
Kyle E. Brown, M.D., \$3,026
- Thalamocentric Approach to the Neuroanatomy of Schizophrenia,*
William M. Byne, M.D., Ph.D., \$67,296
- Psychopharmacologic Aspects of Motor Slowing in Schizophrenia,*
Michael P. Caligiuri, Ph.D., \$80,448
- The Behavioral Pharmacology of Conditioned Responses Induced by Drugs of Abuse,*
Robert J. Carey, Ph.D., \$34,944
- Molecular Regulation of B Lymphocyte Activation by CD19,*
Robert H. Carter, M.D., \$148,800
- Atypical Antipsychotic Drugs and Weight Gain,*
Daniel E. Casey, M.D., \$77,568
- Mechanistic Basis for Improving Fracture Healing in Alcoholics,*
Dennis A. Chakkalakal, Ph.D., \$177,404
- Chemokine Determinants of Th1 and Th1 Immune Responses,*
Stephen W. Chensue, Ph.D., M.D., \$139,488

- Molecular Interaction Between Phosphocitrate and Calcium Crystals,*
Herman S. Cheung, Ph.D., \$135,264
- Functional Organization of the Auditory Forebrain,*
Steven W. Cheung, M.D., \$132,192
- The Role of Enkephalin Peptides in Cardiac Adaptation to Stress,*
Grace L. Chien, M.D., \$100,320
- Hepatic Stellate Cell Activation,*
Mario Chojkier, M.D., \$134,400
- Aminoglycoside Resistance in Enterococci,*
Joseph W. Chow, M.D., \$143,520
- Cancer, Epidural Anesthesia, and Survival,*
Rose Christopherson, M.D., Ph.D., \$19,392
- Heme Oxygenase in Pain and Opioid Tolerance,*
David J. Clark, M.D., Ph.D., \$49,536
- Oxidative Stress and Urea Signaling,*
David M. Cohen, M.D., \$108,000
- Effects of Aging on the Upper Aerodigestive Tract and Speech Mechanism,*
Nadine P. Connor, Ph.D., \$65,000
- Growth Regulation of Adult Cardiac Muscle Cells,*
George Cooper, IV, M.D., \$145,056
- Regulation of Gene Expression in Helicobacter Pylori,*
Timothy Cover, M.D., \$144,960
- Mechanisms of CpG DNA Mediated Macrophage Activation,*
John S. Cowdery, M.D., \$51,600
- A New Protective Antigen of Group A Streptococci,*
James B. Dale, M.D., \$130,656
- Effects of Altered Superoxide Dismutase Activity on Diabetic Nephropathy,*
Frederick R. De Rubertis, M.D., \$54,192
- Molecular and Cellular Determinants of Immunity of Histoplasmosis,*
George Deepe, M.D., \$64,800
- Altered FFA Metabolism/Fat Topography and Pathogenesis of Type 2 Diabetes,*
Ralph A. DeFronzo, M.D., \$134,400
- Neuroendocrine Prostate Cancer,*
Leonard J. Deftos, M.D., \$134,400
- Cognitive Discrepancies and Genotype as Predictors of Alzheimer Disease,*
Dean C. Delis, Ph.D., \$53,568
- Angiotensin II Neuronal Interactions in Heart Failure,*
Louis J. Dell'italia, M.D., \$64,800
- Regulation of Mast Cell Secretion by Sec1 Proteins,*
Burton F. Dickey, M.D., \$64,800
- Lipoprotein Metabolism: Lipase Processing and Regulation,*
Mark H. Doolittle, Ph.D., \$202,544
- A Gene Therapy Model for Head and Neck Cancer,*
Kenneth J. Dornfeld, M.D., Ph.D., \$25,000
- Immunoregulation in IL-12-based Genetic Immunotherapy,*
Steven M. Dubinett, M.D., \$134,400
- Hormone Independent Signaling of the Vasopressin Receptor in Dehydration,*
Jacques A. Durr, M.D., \$50,736
- Stable Isotope Labeled Levodopa to Examine the Role of Noradrenergic Function in Complications of Levodopa Treated Parkinson Disease,*
Raymon Durso, M.D., \$64,944
- Mechanisms of Interleukin-2 Microvascular and Systemic Effects,*
Michael J. Edwards, M.D., \$121,440
- Transcriptional Regulation of Angiogenesis,*
Bahaa M. Fadel, M.D., \$65,000
- The Role of Phospholipids in the Mechanism of Action of Insulin,*
Robert V. Farese, M.D., \$233,800
- Comparison of Objective Measures for Early Detection of Ototoxicity,*
Stephen A. Fausti, Ph.D., \$44,980
- Regulation of Intestinal SREBPs by Sterols/Fatty Acids,*
F. Jeffrey Field, M.D., \$64,800
- Taxonomy as a Tool for Study of Anaerobic Infections,*
Sydney M. Finegold, M.D., \$142,080
- The Role of Somatostatin Receptors in Pancreatic Cancer Growth,*
William E. Fisher, M.D., \$64,600
- Structure-function Relationships in Glutamate Dehydrogenases,*
Harvey F. Fisher, Ph.D., \$109,824
- Retinoid-Induced S Cell cycle Arrest and Apoptosis in Prostate Cancer,*
Joseph A. Fontana, M.D., \$92,966
- Role of a Medullary and a Cerebellar Nucleus in Control of Breathing,*
Hubert V. Forster, Ph.D., \$125,856
- Mechanisms and Control of Action Potential Instability and Alternans,*
Lawrence H. Frame, M.D., \$47,040
- Chitin and the Cell Wall of Coccidioides immitis as a Therapeutic Target,*
John N. Galgiani, M.D., \$64,800
- Skin Defense by Antimicrobial Peptides,*
Richard L. Gallo, M.D., Ph.D., \$128,448
- Prevalence of Mental Disorders in Community Hospice Patients,*
Linda K. Ganzini, M.D., \$118,944
- Redox Processes in Colonic Cell Differentiation,*
Harinder Garewal, M.D., Ph.D., \$134,400
- Microcirculation During Systemic Sepsis,*
Richard N. Garrison, M.D., \$84,000
- Muscle Metabolism, Low Birth Weight, and the Insulin Resistance Syndrome,*
W. Timothy Garvey, M.D., \$158,400
- Myocardial Protection During Ventricular Fibrillation,*
Raul J. Gazmuri, M.D., Ph.D., \$90,720
- Oxidation of Actin: Effects on Cytoskeletal Organization,*
Lewis C. Gershman, M.D., Ph.D., \$132,384
- Molecular and Structural Characteristics of Glomerulotrophic Antibodies,*
Gary S. Gilkeson, M.D., \$120,000
- Effects of Lung Volume Reduction Surgery in the Treatment of Severe Emphysema,*
Sheila Goodnight-White, M.D., \$104,736
- Cyclooxygenase-2 Activity and the Pathogenesis of Traumatic Brain Injury,*
Steven H. Graham, M.D., Ph.D., \$138,048
- The Cognitive Effects Risperidone and Olanzapine,*
Michael F. Green, Ph.D., \$72,096
- Polyomavirus Infection and Persistence in Normals, AIDS, and PML,*
John Greenlee, M.D., \$192,060
- Cell Specific Mitogens for Engineered Re-Endothelialization,*
Howard P. Greisler, M.D., \$84,000

- Mechanisms Regulating Expression of the Testis Histone H1t Gene*,
Sidney R. Grimes, Jr., Ph.D., \$135,072
- Regulation of Iron Export from Cells*,
David J. Haile, M.D., \$42,912
- Cardiac Adenylate Cyclase Content and Heart Function*,
H. Kirk Hammond, M.D., \$64,800
- Novel Therapies for Essential Tremor*,
C. Adrian Handforth, M.D., \$113,472
- Immunosuppressive Agents for Preventing Hearing Loss in Labyrinthitis*,
Jeffrey P. Harris, M.D., Ph.D., \$112,512
- Interactions of Enteropathogenic E-coli with Intestinal Epithelial Cells*,
Gail A. Hecht, M.D., \$87,072
- Stress-Activated Protein Kinases and the Control of Neuronal Apoptosis*,
Kim A. Heidenreich, Ph.D., \$66,960
- Nerve Growth Factor Gene Expression*,
Gerhard Heinrich, M.D., \$128,160
- Blocking Inflammation in Acute Stroke by Targeting NF- κ B*,
David C. Hess, M.D., \$50,640
- TGF- β 1 in Vein Graft Intimal Hyperplasia*,
John R. Hoch, M.D., \$79,200
- Role of Insulin-Like Growth Factors in Neoplasia*,
Andrew R. Hoffman, M.D., \$67,200
- Retrieval and Analysis of Orthopedic Implants/Skeletal Fixation of Porous Devices*,
Aaron A. Hofmann, M.D., \$85,728
- Thalamic Vulnerability in Schizophrenia*,
Leigh A. Holcomb, Ph.D., \$49,700
- Organization of Mitochondrial Fatty Acid Oxidation*,
Charles L. Hoppel, M.D., \$136,800
- Targeting HIV to Myeloid Cells: A Novel Approach to Vaccine Development*,
Alexandra L. Howell, Ph.D., \$184,500
- Transcriptional Control of Neuronal Survival and Differentiation*,
Eric J. Huang, M.D., Ph.D., \$65,000
- Cox-2, Fatty Acids and Prostate Cancer*,
Millie Hughes-Fulford, Ph.D., \$120,640
- Calcium Pumps and Calcium Homeostasis in Prostate Cancer*,
Arif Hussain, M.D., \$129,984
- Glucose-Dependent Insulinotropic Peptide is an Osteoblast Regulating Hormone*,
Carlos M. Isales, M.D., \$107,424
- Platelet Stimulus Response Coupling*,
Gerhard J. Johnson, M.D., \$67,200
- Reservoirs of Pathogenic E. coli*,
James R. Johnson, M.D., \$64,800
- Efflux-related Multidrug Resistance in Staphylococcus aureus*,
Glenn W. Kaatz, M.D., \$44,880
- Effects of Midbrain Neurotransmitter Systems on Opiate Actions*,
Gary B. Kaplan, M.D., \$136,320
- Mechanism of Action of Niacin on Atherogenic Lipoproteins*,
Moti L. Kashyap, M.D., \$61,248
- Genetics, Weight Loss and Glucose Metabolism in Older Obese Men*,
Leslie I. Katznel, M.D., Ph.D., \$65,280
- Oregon Brain Aging Study*,
Jeffrey Kaye, M.D., \$70,080
- Regulation of Autoimmune Renal Disease by Nitric Oxide*,
Carolyn J. Kelly, M.D., \$66,720
- Therapeutic Cutaneous Gene Delivery*,
Paul A. Khavari, M.D., Ph.D., \$63,744
- Keratinocyte Activation During Surgical Wound Healing*,
Lawrence T. Kim, M.D., \$64,500
- Chondrocyte Apoptosis in Post-Traumatic Arthritis*,
Hubert T. Kim, M.D., Ph.D., \$60,100
- Role of RNA Stabilization in Angiogenesis and Cell Proliferation*,
Peter H. King, M.D., \$83,808
- Actions of Growth Hormone and Prolactin in Mammary Development*,
David L. Kleinberg, M.D., \$157,920
- Prevention of Breast Cancer: Role of Dietary Glutamine*,
V. Suzanne Klimberg, M.D., \$64,800
- Soluble Adhesion Molecules as Inflammatory Angiogenic Mediators*,
Alisa E. Koch, M.D., \$148,800
- Treatment Effects on Platelet Calcium in Hypertensive and Depressed Patients*,
Lukasz M. Konopka, Ph.D., \$134,400
- Afferent Renal Nerves: Role of Neurotransmitters*,
Ulla Kopp, Ph.D., \$175,812
- Analysis of NKLAM: A Novel Gene Associated with Cellular Cytotoxicity*,
Jacki Kornbluth, Ph.D., \$72,676
- Role of Immunogenetic Factors in Invasive Streptococcal Infections*,
Malak Kotb, Ph.D., \$84,000
- Septal Modulation of Hypothalamic Feeding Pathways*,
Catherine M. Kotz, Ph.D., \$98,728
- Apoptosis and Leukemogenesis Associated with Megaloblastic Anemia*,
Mark Koury, M.D., \$93,792
- Signal Transduction Pathways as Novel Therapeutic Targets in SCLC*,
Geoffrey W. Krystal, M.D., Ph.D., \$79,008
- Immunological Studies with Novel M. Tuberculosis Antigens*,
Suman Laal, Ph.D., \$107,334
- The Role of Central Mechanisms in Respiratory Muscle Fatigue*,
Franco Laghi, M.D., \$60,000
- CD34+ Cells in Head and Neck Cancer*,
Deanne, M.R. Lathers, Ph.D., \$76,850
- Ion Homeostasis and Antimony Toxicity in Leishmania*,
Edoris A. Le Furgey, Ph.D., \$121,206
- KATP Channel Regulation by Cytochrome P450 Arachidonic Acid Metabolites*,
Hon-Chi Lee, M.D., Ph.D., \$74,496
- Regulation of Renal Phosphate Transport*,
Moshe Levi, M.D., \$134,400
- Biomarkers Predicting the Severity of Obstruction-Induced Bladder Dysfunction*,
Robert M. Levin, Ph.D., \$51,504
- Isolation and Vascular Function of the Membrane Estrogen Receptor*,
Ellis R. Levin, M.D., \$148,800
- Pathogenesis of B Cell Superantigen Mediated Tissue Injury*,
Arnold I. Levinson, M.D., \$75,264

- Lipopolysaccharide Depression in Cardiac Myocytes,*
Wilbur Y.W. Lew, M.D., \$134,400
- Regulation of Leydig Cell Function by Insulin-like Growth Factor-I,*
Tu Lin, M.D., \$56,160
- Regulation of Growth Factor Activities in Bone,*
Thomas A. Linkhart, Ph.D., \$86,498
- Molecular Basis of Endotoxin-Induced Disease,*
Eva Lorenz, Ph.D., \$129,500
- Psychophysiological Precursors of Alcoholism,*
William R. Lovallo, Ph.D., \$77,856
- The Effects of an Alpha-Actinin Fragment on Monocyte Maturation,*
Sharon D. Luikart, M.D., \$83,136
- Nerve Guides and Growth Factors Increase PNS Regeneration Accuracy,*
Roger D. Madison, Ph.D., \$171,264
- Mechanisms of Chemoprevention of Mammary Carcinogenesis,*
D. Malejka-Giganti, Ph.D., \$64,800
- The Epidemiology of Urinary Tract Stone Disease in U.S. Veterans,*
Neil S. Mandel, Ph.D., \$92,290
- Molecular Mechanisms Directing Artery Remodeling,*
Keith L. March, M.D., Ph.D., \$134,400
- Regulation of Calcium Channel Expression,*
James D. Marsh, M.D., \$148,800
- Functional Localization in the Human Brain,*
Gregory McCarthy, Ph.D., \$144,960
- Contractile Regulation of Cardiocyte Protein Synthesis,*
Paul J. McDermott, Ph.D., \$76,040
- Calmodulin Signaling in the Pathogenesis of HIV-1 Infection,*
Jay M. McDonald, M.D., \$72,480
- Molecular Regulation of Normal and Osteoarthritic Chondrocyte Function,*
Skye McDougall, Ph.D., \$124,320
- Therapeutic Potential of Neural Stem Cell Transplants in Brain Injury,*
Tracy K. McIntosh, Ph.D., \$125,088
- Mechanisms of Delayed CNS Damage after Traumatic Brain Injury,*
Tracy K. McIntosh, Ph.D., \$214,600
- Prevalence of Iron Overload and Frequency of the Hemochromatosis Gene,*
Gordon D. McLaren, M.D., \$146,784
- Catecholaminergic Contributions to Cognitive and Affective Dysfunction in Parkinson's Disease,*
Patrick McNamara, Ph.D., \$143,056
- Role of the MAP Kinases in Regulation of Gene Expression in Cardiac Hypertrophy,*
Donald R. Menick, Ph.D., \$103,670
- Dopamine/Glutamate Interactions in the Basal Ganglia,*
Charles K. Meshul, Ph.D., \$115,500
- Gene Expression and Growth Control in Melanocytic Cells,*
Laurence J. Meyer, M.D., Ph.D., \$134,016
- TGF Beta Signaling and Cytoskeleton in Cirrhosis,*
Lopa Mishra, M.D., \$130,752
- Regulation of Glucokinase Gene Expression,*
Joseph M. Moates, M.D., \$46,484
- Hemostatic Defect in Uremia: Role of Fibrinogen Fragments,*
Syed F. Mohammad, Ph.D., \$66,286
- Mechanisms of Vascular Remodeling,*
Joseph S. Mondy, III, M.D., \$2,000
- Telomerase for the Generation of Cell Lines From Barrett's Esophagus,*
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- Evaluation of the Retina with a Subretinal Microphotodiode Array,*
Machelle Pardue, Ph.D., \$25,000
- Effect of Spinal Implants on the Response of the Lumbar Spine Under In Vivo Compressive Loads,*
Avinash Patwardhan, Ph.D., \$138,300
- Microphotodiode Tiles as Prosthesis for the Restoration of Visual Function,*
Neal Peachey, Ph.D., \$253,825
- FES Control of the Upper Extremity in SCI,*
P. Hunter Peckham, Ph.D., \$123,000
- Prostate Compliance of Patients with Spinal Cord Injuries,*
Inder Perakash, M.D., \$59,000
- Stroke Rehabilitation Outcomes with Supported Treadmill Ambulation,*
Elizabeth Protas, Ph.D., \$86,300
- Clinical Trial of Footwear in Patients with Diabetes,*
Gayle Reiber, Ph.D., \$63,715
- VA Stroke Rehabilitation Outcomes: Barriers to Efficient Performance,*
Dean Reker, Ph.D., \$14,700
- Preparatory Study for a Stress Management Program for Veterans with SCI,*
Rintala Diana, Ph.D., \$39,550
- Telerehabilitation for Veterans with a Lower-Limb Amputation or Ulcer,*
Rintala Diana, Ph.D., \$65,750
- Treatment of Chronic Neuropathic Pain in Veterans with Spinal Cord Injury,*
Rintala Diana, Ph.D., \$126,725
- Restricted Useful Field of View as a Risk Factor for Falls in Older Adults,*
Lisa Riolo, Ph.D., \$41,850

- Role of Cognitive Status on Fall Risk in Older Adults,*
Lisa Riolo, Ph.D., \$75,236
- Role of Attention Status in Fall Risk in Older Adults,*
Lisa Riola, Ph.D., \$80,470
- Motion and Velocity Encoder for Monitoring Essential or Neurological Tremor (Movement),*
Charles Robinson, D.Sc., \$100,000
- Threshold Detection of Postural Control in Diabetic Neuropathy and Aging,*
Charles Robinson, D.Sc., \$8,600
- Physical Performance Measures for Young, Middle-Aged and Elderly Manual Wheelchair Users,*
Mary Rodgers, Ph.D., \$52,503
- Development and Evaluation of an Activity Monitor for People with Dementia,*
David Ross, M.S.E.E., \$154,538
- Functional Neuromuscular Stimulation (FNS) for Chronic Stroke Patients,*
Robert Ruff, M.D., \$37,500
- Pressure/Motion Feedback to Protect Skin of Sensorimotor Impaired Elders,*
Eric Sabelman, Ph.D., \$138,555
- Effect of Motor Imbalance on Bony Deformity and Plantar Pressure in the Foot,*
Bruce Sangeorzan, M.D., \$94,208
- Evaluation of Eye Movement Tracking Systems for Visual Rehabilitation,*
Ronald Schuchard, Ph.D., \$187,395
- Development of a Self-Report Measure of Impact of Spasticity After SCI,*
Arthur Sherwood, Ph.D., \$91,364
- Effects of Aerobic Exercise on Gait and Functional Performance in Hemiparetic Stroke,*
Kenneth Silver, M.D., \$82,650
- Mechanical Loading Effects on Human Osteoarthritic Cartilage,*
Robert Lane Smith, Ph.D., \$99,500
- Abnormal Cough after Stroke: Predictor of Aspiration?*
Carol Smith Hammond, Ph.D., \$44,280
- Home-Based Pulmonary Rehabilitation via a Telecommunications System,*
David Sparrow, D.Sc., \$119,085
- A Cell-Seeded Implant for Articular Cartilage Regeneration,*
Myron Spector, Ph.D., \$78,650
- Effectiveness of a Home-Based Pulmonary Rehabilitation Program,*
John Spurzem, M.D., \$139,360
- Therapies for Abnormal Eye Movements that Degrade Vision,*
John Stahl, M.D., \$33,525
- Methods and Tools to Evaluate Eccentric Viewing Training,*
Joan Stelmack, O.D., \$175,001
- Cortical Contributions to the Recovery of Motor Function,*
Peter Strick, Ph.D., \$232,525
- Assessment of Reading Capabilities of the Parafoveal Retina and Evaluation of Techniques to,*
Janet Szlyk, Ph.D., \$267,825
- Predictors of Driving Performance & Successful Mobility Rehab in Patients with Medical Eye Conditions,*
Janet Szlyk, Ph.D., \$192,000
- Assessing Outcomes of Low Vision Rehabilitation Using the NEI VFQ-25,*
Janet Szlyk, Ph.D., \$156,900
- Outcome of Lower Extremity Constraint-Induced Therapy after Stroke,*
Edward Taub, Ph.D., \$172,200
- Pressure Sore Prevention Using Neuromuscular Electrical Stimulation,*
Ronald Triolo, Ph.D., \$56,200
- Collaborative Evaluation of an Implanted Neuroprosthesis for Standing,*
Ronald Triolo, Ph.D., \$27,250
- Exercise, Standing and Ambulation with Implanted FES Systems,*
Ronald Triolo, Ph.D., \$373,100
- Video-Based Functional Assessment and Training Following Stroke,*
Hendrik Van Der Loos, Ph.D., \$85,975
- Event-Related Potentials as Objective Measures of Cognitive Process Speed in Speech Understanding,*
Nancy Vaughan, Ph.D., \$25,001
- Development of an Improved Artificial Electro-Larynx Communication System,*
Michael Walsh, M.Ed., \$165,600
- Evaluation of Deficit-Oriented Treatments for Aphasic Naming Disorders,*
Julie Wambaugh, Ph.D., \$170,000
- A Four Degree-of-Freedom Hand for Control by Direct Muscle Attachment,*
Richard Weir, Ph.D., \$67,746
- Development of an Externally Powered Prosthetic Hand for Persons w/ Partial Hand Amputations,*
Richard Weir, Ph.D., \$33,556
- Nerve Conduction Topography in Geriatric Hand Assessment: A Pilot,*
Jacqueline Wertsch, M.D., \$25,000
- Oropharyngeal Swallowing Function in Normal Adults,*
Robert Wertz, Ph.D., \$10,999
- Evaluation of Word-Recognition Performance with Sentence Materials,*
Richard Wilson, Ph.D., \$259,700
- Biological Responses in the Pathogenesis of Aseptic Loosening,*
Paul Wooley, Ph.D., \$71,025
- Nutrition & Clinical Status of Disabled Older Veterans in Long Term Care,*
Jonelle Wright, Ph.D., \$186,950
- Changing Speech Perception and Binaural Hearing in New Hearing Aid Users,*
E. William Yund, Ph.D., \$117,350

HEALTH SERVICES RESEARCH AND DEVELOPMENT

- Impact of Outsourcing VA Cardiac Surgery on the Cost and Quality of Care,*
Gary E. Rosenthal, M.D., \$46,550
- Improving Service Delivery thru Access Points,*
John C. Fortney, Ph.D., \$71,975
- Capacity to Execute a Health Care Proxy: Guideline Evaluation,*
Ellen Olson, \$50,000
- Chronically Ill at the VA: Who Are They and What Do They Need?*
Robert E. Siegel, \$50,000

- Innovative Strategies for Implementing New CHF Guideline Recommendations,*
Barry M. Massie, M.D., \$241,394
- The Effectiveness of the FairCare System for Patients with Advanced Illness,*
Joseph B. Engelhardt, Ph.D., \$222,700
- Randomized Trial of a Telephone Intervention in Heart Failure Patients,*
Mark E. Dunlap, \$176,000
- Evaluation of a Nurse Case Management Model for Chronic Heart Failure,*
Mark R. Starling, \$25,865
- Computer Guidelines Enhanced by Symptoms and History: Clinical Effects,*
William M. Tierney, M.D., \$212,508
- Implementing Smoking Cessation Guidelines: A Randomized Trial of Evidence-Based Quality Improvement,*
Scott E. Sherman, \$242,130
- A Randomized Trial to Implement the AHCPR Smoking Cessation Guideline,*
Anne Joseph, M.D., M.P.H., \$115,475
- Trial of a Tailored Message Program to Implement CHF Guidelines,*
Terrence Shaneyfelt, M.D., M.P.H., \$159,100
- Determination of Clinical Implementation Effectiveness,*
Bradley N. Doebbeling, M.D., M.Sc., \$126,750
- Knowledge Management and Clinical Practice Guideline Implementation,*
Jacqueline Pugh, M.D., \$240,894
- Benchmarking Patterns in the Pharmacologic Treatment of MDD,*
Dan R. Berlowitz, M.D., M.P.H., \$163,300
- Guidelines for Drug Therapy of Hypertension: Multi-site Implementation,*
Mary K. Goldstein, M.D., \$286,700
- Evaluating a Collaborative Care Model for the Treatment of Schizophrenia,*
Alexander S. Young, M.D., M.S.H.S., \$170,175
- Improving Health Outcomes of Diabetic Veterans: A Diabetic Self Management Program,*
Virginia Nodhturft, Ed.D., R.N., \$191,847
- Improving Diabetes Care Via Telephone Assessment and Patient Education,*
John D. Piette, Ph.D., \$224,250
- Disease Management and Educational Intervention Outcomes in High-Risk Diabetics,*
Bruce P. Hamilton, M.D., \$251,117
- Developing and Implementing a Quality Measure for Glycemic Control,*
Dan R. Berlowitz, M.D., M.P.H., \$205,400
- Periodontal Care and Glycemic Control in Diabetes,*
Judith A. Jones, D.D.S., M.P.H., \$215,850
- Impact of a Quality Management Intervention Upon Foot Care Outcomes,*
Leonard M. Pogach, M.D., \$310,605
- Evaluation of VISTA Performance Profiles and Non-VISTA Measures,*
Eve A. Kerr, M.D., M.P.H., \$79,853
- Cost and Effectiveness of End Stage Renal Disease Care,*
Denise M. Hynes, B.S.N., M.P.H., Ph.D., \$270,643
- VA Enrolees' Demand for VA and Non-VA Care,*
Ann Hendricks, Ph.D., \$145,200
- Determinants of VA Ambulatory Care Use Among Native American Veterans,*
Valentine Villa, \$54,412
- Ethnic/Cultural Variations in the Care of Veterans with Osteoarthritis,*
Kenneth Covinsky, \$93,500
- Racial Variations in Cardiac Procedures: Do Health Beliefs Matter,*
Nancy R. Kressin, Ph.D., \$119,956
- Ethnicity and Veteran Identity as Determinants of VA Ambulatory Care Use,*
Nancy Harada, Ph.D., \$121,575
- Ethnic Differences - Management of Patients with Ischemic Heart Disease,*
C. Kent Kwok, M.D., \$243,300
- Health Seeking and Treatment Selection in Patients with Coronary Disease,*
Howard S. Gordon, M.D., S.B., \$154,800
- Risk of Mortality in Prostate Cancer,*
John P. Concato, M.D., M.S., M.P.H., \$76,852
- Veterans Women's Alcohol Problems: Prevalence, Screening and Self-Help,*
Katharine A. Bradley, M.D., M.P.H., \$108,922
- Decision Making for Depression in Women Veterans, Patient and Physician-Factors,*
Katherine M. Skinner, R.N., Ph.D., \$52,200
- Medicare HMO Enrollment and VA Use by Minority and Low Income Veterans,*
Nora Osemene, Ph.D., Robert O. Morgan, Ph.D., \$17,300
- Knowledge Management and Clinical Practice Guideline Implementation,*
Jodi Gonzalez, Ph.D., Jacqueline Pugh, M.D., B.A., \$6,800
- Identification of HIV Infection Among Veterans,*
Douglas K. Owens, M.D., M.S., \$384,000
- Determinants of Adherence to Antiretroviral Therapy and Impact on Outcomes,*
Terri J. Menke, Ph.D., \$126,300
- A Medication Adherence Intervention for HIV Infected Veterans,*
Allen L. Gifford, \$272,165
- Improving the HIV/AIDS Immunology Case Registry,*
Samuel A. Bozzette, M.D., Ph.D., \$172,300
- Measuring HIV Quality of Care,*
Steven M. Asch, M.D., M.B.A., \$178,675
- Data Collection for Veterans with HIV/AIDS: Survey and Chart Review,*
Barbara R. Phillips, \$522,334
- QUERI - Proposal to Expand Data Collection and Reports to Evaluate VA Cardiac Surgery Program Performance,*
Annie L. Shroyer, Ph.D., \$31,550
- Stakeholder Perspectives on Sustaining Involvement in Schizophrenia Care,*
Ellen P. Fischer, Ph.D., \$7,200
- Medications in Chronic Heart Failure and Relationship to Quality of Life,*
Lewis E. Kazis, Sc.D., \$46,460
- Development and Application of Psychiatric Risk Adjustment Methods in the VA,*
Amy Rosen, Ph.D., \$101,050
- Quality of Medical Care for Diabetics with Mental Illness,*
Susan Frayne, M.D., M.P.H., \$43,938
- Quality of Mental Health Care and Suicide Rise in Psychiatric Patients,*
Rani A. Desai, Ph.D., \$103,250
- Medicare HMO Enrollment and VA Use by Minority and Low Income Veterans,*
Robert O. Morgan, Ph.D., \$186,851

- Unexpected Clinical Events: Impact on Patient Safety,*
Matthew B. Weinger, \$74,688
- Matching, Outcomes and Costs in Substance Abuse/Psychiatric Treatment,*
Christine Timko, Ph.D., \$102,225
- A Casefinding and Referral System for Older Veterans within Primary Care,*
Laurence Z. Rubenstein, M.D., M.P.H., \$179,100
- Treatment of Depression in Patients with PTSD,*
Nancy Jo Dunn, Ph.D., \$210,511
- Effectiveness of a Health Education Program in a Primary Care Setting,*
Joseph B. Engelhardt, Ph.D., \$219,827
- Antecedents and Consequences of Sexual Harassment in the Military,*
Maureen Murdoch-Nelson, M.D., M.P.H., \$174,400
- Randomized Controlled Trial of Exercise Training in Patients with COPD,*
David Sparrow, D.Sc., \$25,825
- Validation of Spanish Translation of Folstein Mini Mental State Exam,*
Carolee A. Devito, Ph.D., M.P.H., \$30,000
- Comprehensive Outcomes of Nonmelanoma Skin Cancer,*
Mary-Margaret Chren, M.D., \$124,900
- Developing Risk Adjustment Models in Veterans' Health Status,*
Lewis E. Kazis, Sc.D., \$85,250
- Effectiveness and Cost Impact of a Telecommunications System in COPD,*
David Sparrow, D.Sc., \$65,808
- Proactive Diabetes Case Management,*
Sarah L. Krein, Ph.D., R.N., \$227,464
- Patient Preferences and the Care of diabetes,*
Sandeep Vijan, M.D., M.S., \$56,753
- Perceptions of the Compensation & Pension Process for PTSD: Symptoms and Service Utilization,*
Nina A. Sayer, Ph.D., \$112,306
- Development of a Flexilevel Scale of Shoulder Functioning,*
Karon F. Cook, M.D., F.R.C.P.C., M.Sc., \$36,100
- Patterns of health Services Use Associated with Substance Abuse Treatment,*
Brenda M. Booth, Ph.D., \$152,661
- Validity of New and Original ASI Summary Indices,*
John S. Cacciola, Ph.D., \$112,397
- Mental Health Providers' Perceptions of Quality Indicators,*
Marcia T. Valenstein, M.D., \$37,831
- Evaluating the Performance of Explicit Quality Monitoring Systems in the VHA,*
Eve A. Kerr, M.D., M.P.H., \$420,579
- Cost Effectiveness of Guidelines-Concordant Care for Schizophrenia,*
Richard R. Owen, M.D., \$94,888
- Measuring Primary Care Competency-Linking Knowledge to Clinical Behavior,*
John W. Peabody, M.D., Ph.D., D.T.M.&H., \$274,235
- Health Outcomes from Opioid Therapy for Chronic Pain,*
Bruce Naliboff, \$138,900
- Homeless Prevention: Psychiatric Care With Representative Payeeship,*
Kendon J. Conrad, M.A., Ph.D., M.S.P.H., \$247,460
- Health Services Implications of a Teledermatology Consult System,*
John D. Whited, M.D., M.H.S., \$99,100
- Variation in VA Dental Procedures,*
Judith A. Jones, D.D.S., M.P.H., \$151,200
- Measuring the Quality of Dying,*
James A. Tulsky, M.D., \$117,700
- Application of Clinical Decision Aids for Acute Upper GI Hemorrhage,*
Thomas F. Imperiale, M.D., \$149,253
- A Smoking, Alcohol, and Depression Intervention for Head and Neck Cancer,*
Sonia A. Duffy, Ph.D., M.S., R.N., \$182,752
- The Chronic Disease Score in a VA Population,*
Anne E. Sales, Ph.D., M.S.N., R.N.C., \$48,890
- Economic Impact of Guidelines for Gastroesophageal Reflux Disease,*
John M. Inadomi, M.D., \$34,575
- Efficacy and Cost Effectiveness of Relaxation and Response to CHF,*
Ann Hendricks, Ph.D., \$195,100
- Automated ICU Risk Adjustment,*
Marta L. Render, M.D., \$232,000
- Development and Validation of a Trauma History/PTSD Screen,*
Edward S. Kubany, Ph.D., \$105,500
- Evaluating Health Outcomes of Veterans in VA and Contract Nursing Homes,*
Dan R. Berlowitz, M.D., M.P.H., \$49,700
- Facilitating Shared Decision-making About Prostate Cancer Screening,*
Melissa R. Partin, Ph.D., M.S., \$263,993
- Improving Substance Abuse Treatment Aftercare Adherence and Outcome,*
Steven J. Lash, \$25,938
- Population Based Assessments of Health and Satisfaction Using ACQUIP,*
Stephan D. Fihn, M.D., M.P.H., \$196,448
- Online Family Education to Promote Treatment Compliance in Schizophrenia,*
Shirley Glynn, \$232,100
- The Effect of Managed Care on VA Hospitals,*
Kathleen Carey, Ph.D., \$53,200
- Negotiating patient expectations and requests in a managed care/ environment,*
James A. Tulsky, M.D., \$64,404
- 2000 Survey of VA Researchers,*
Martin P. Charns, D.B.A., \$74,318
- The Cost of Operating Institutional Review Boards in the VA,*
Todd H. Wagner, Ph.D., \$98,414
- Development of Measures of Organizational Characteristics and Processes,*
Martin P. Charns, D.B.A., \$0
- Affiliated Integration,*
Martin P. Charns, D.B.A., \$60,817
- The Diagnostic Validity of Three Quantitative Swab Techniques,*
Sue Gardner, \$22,975
- Using Pain Resource Nurses to Improve Cancer Patient Pain Outcomes,*
Susan J. Hagan, M.S.N., \$38,700
- Nurse Managed Clinic for Dementia Patients and Family Caregivers,*
Melitta K. Maddox, M.S.N., \$69,075
- Informal Caregivers of Veterans with Dementia: Cost, QOL and Service Use,*
Elizabeth C. Clipp, R.N., Ph.D., \$156,731
- Effect of Behavioral Management on Quality of Life in Heart Failure,*
Martha Shively, Ph.D., M.A., B.S.N., \$104,200
- A Brief Motivational Intervention with Cocaine Patients,*
Nina M. Chychula, \$69,880
- Outcomes Assessment for Dementia Care: Development of a Module,*
Marisue Cody, Ph.D., R.N., \$195,285

- Improving Cancer Pain Management Using AHCPR Cancer Pain Guidelines,*
Marilyn K. Douglas, D.N.Sc., R.N., \$125,605
- Safety Enhancement to Prevent Home Injury to Veterans with Alzheimer's Disease,*
Ann C. Hurley, R.N., D.Sc., \$140,650
- Predictors of Outcomes of HIV-Infected Males,*
Constance Uphold, \$142,492
- Culturally Sensitive Models of Stroke Recovery and Caregiving After Discharge Home,*
Maude Rittman, \$188,780
- Promoting Activity and Exercise in Chronic Pulmonary Disease: An Intervention Study,*
Bonnie Steele, Ph.D., R.N., \$138,575
- Effect of Activity on Sleep of Cognitively-Impaired Veterans,*
Kathleen C. Richards, Ph.D., R.N., \$42,900
- Documenting Barriers to Patient-Centered Care in an Academic Clinic,*
Curtis S. Smith, M.D., \$72,700
- Can Interactive Voice Response Improve Patient-Centered Outcomes,*
James A. Tulsky, M.D., \$170,325
- The Patient Centered Treatment of Dually Diagnosed Veterans,*
Raymond C. Bingham, Ph.D., M.S., \$212,528
- Development and Evaluation of a Hormone Replacement Therapy Decision-Aid,*
Marilyn M. Schapira, M.D., M.P.H., \$155,400
- Patient-Centered Alternative to Psychiatric Hospitalization for Veterans,*
James B. Lohr, M.D., \$241,800
- Development of A Cancer Pain Prognostic Scale,*
Shirley S. Hwang, R.N., M.S., \$62,925
- Communication, Alternatives, and Preferences in End of Life Care,*
Terri R. Fried, M.D., \$140,700
- An Illustrated Patient Satisfaction Evaluation Tool for Ambulatory Populations,*
Caroline C. Johnson, \$200,900
- Low Literacy Intervention for Colorectal Cancer Screening,*
Charles L. Bennett, M.D., M.P.H., \$239,188
- Treatment Decision Intervention for Veterans with Prostate Cancer,*
Charles L. Bennett, M.D., M.P.H., \$136,626
- Assessing the needs of VA Patients with Advanced Cancer,*
H. Schiller, M.D., \$112,050
- Program for Interdisciplinary Research in Health Care Organization,*
Gary E. Rosenthal, M.D., \$188,380
- Patient Safety: Safe Mobility for Frail Elderly and Persons with Disabilities,*
Audrey L. Nelson, R.N., Ph.D., \$182,900
- Information Management for Patient-Centered Treatment,*
William M. Tierney, M.D., \$195,108
- Enhancing VA Health Services Research in Patient-Centered Care,*
Samuel A. Bozzette, M.D., Ph.D., \$160,275
- Center for Quality Improvement Research,*
David C. Aron, M.D., M.S., \$91,000
- Creating Safety and Reducing Medical Error with Bar Coding,*
Marta L. Render, M.D., \$55,550
- Automated Adverse Drug Event Monitoring in the VHA,*
John F. Hurdle, M.D., Ph.D., \$141,464
- Randomized Controlled Trial Structured Pharmacy Care in Older Veterans,*
Gary E. Rosenthal, M.D., \$158,200
- Patient Profiling and provider Feedback to Reduce Adverse Drug Events,*
Peter A. Glassman, M.B.B.S., M.Sc., \$161,735
- Race in VA Cooperative Studies Projects,*
Eugene Z. Oddone, M.D., M.H.Sc., \$38,050
- Translation Research Into Action for Diabetes in the VA (TRIAD-VA),*
Rodney A. Hayward, M.D., \$227,214
- The Expedient Psychometric Education Research Team (EXPERT),*
Kimberly Wristers, Ph.D., \$69,525
- Creating A VA Health Care Atlas,*
Maude Rittman, \$40,235
- Evaluating Cost for Veterans Health Care,*
Gary N. Nugent, M.H.C.A., \$102,533
- VA Information Resource Center (VIREC),*
Denise M. Hynes, B.S.N, M.P.H., Ph.D., \$345,230
- Validating a Measure of Hypertension Care Using Administrative Database,*
Dan R. Berlowitz, M.D., M.P.H., \$149,850
- Measuring Health Related Quality of Life in Veterans with Stroke,*
Pamela W. Duncan, Ph.D., P.T., \$152,250
- Centralized Telephone Outreach to Assist Smoking Cessation Among Veterans,*
Anne Joseph, M.D., M.P.H., \$196,400
- Onsite versus Referral Models of Primary Care for Substance Abusing Patients,*
Andrew J. Saxon, M.D., \$225,860
- Implementation of a Screening and Brief Alcohol Intervention Program,*
Kristen L. Barry, Ph.D., M.S., \$91,336
- System for Monitoring Abuse Patients' Outcomes and Care,*
John W. Finney, Ph.D., \$278,400
- Clinical Practice and Outcomes in VA Methadone Maintenance Programs,*
Keith N. Humphreys, Ph.D., \$202,400
- Continuity in Substance Abuse Care: Best Practices, Outcomes, and Costs,*
Jeanne A. Schaefer, R.N., Ph.D., \$157,000
- An Evaluation of Home-Based Telemedicine Services,*
Faith Hopp, Ph.D., M.A., M.S.W., \$28,118
- Assessment of Sight-Threatening Diabetic Retinopathy Status via Telemedicine,*
Julie C. Lowery, Ph.D., M.H.S.A., \$90,564
- Determinants of Treatment Retention for Veterans with Psychoses,*
Frederic C. Blow, Ph.D., M.A., \$68,618
- Predicting Glycemic Control and Hypoglycemia in Type 2 Diabetic Veterans,*
Glen H. Murata, M.D., \$100,000
- Computer-Assisted Access to Specialist Expertise,*
David C. Aron, M.D., M.S., \$95,150
- Evaluating Non-Mandatory Workload and Optimizing Staffing,*
Joseph B. Engelhardt, Ph.D., \$52,115
- Prevalence and Recognition of PTSD in VA Primary Care,*
Kathryn M. Magruder, Ph.D., M.P.H., B.A., \$100,000
- Improving Health Services for Veterans with Schizophrenia,*
Alan S. Bellack, Ph.D., \$100,000
- Outsourcing VA Inpatient Care: Impact on Utilization, Quality, and Policy,*
Gary E. Rosenthal, M.D., \$98,000
- Implementation of Ischemic Heart Disease Clinical Practice Guidelines,*
Audrey L. Nelson, R.N., Ph.D., \$115,850



High quality health care research in VA is possible because of the cooperation of thousands of veteran patients. Their partnership with VA investigators allows us to conduct research that contributes to the health of veterans and the community at large. We are deeply grateful to all veterans who participate in our studies.

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For additional information on VA Research and Development activities, contact:

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