

2000

a n n u a l r e p o r t

SERVING VETERANS:

Better Health Care Through Research

Office of Research & Development • Veterans Health Administration

Department of Veterans Affairs

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The Veterans Health Administration has a worthy mission of serving the health care needs of America's veterans. To accomplish that objective in its most meaningful sense, we must constantly strive to provide that service more effectively and more efficiently. That is why we recognize research within our mission statement as an essential part of our integrated health care system.

Our Office of Research and Development, led by John R. Feussner, M.D., M.P.H., conducts studies spanning a spectrum that includes basic biomedicine, clinical trials, health services and rehabilitation. Every aspect of the research program focuses on health issues that affect veterans, and each may proudly point to major advances that lead to better care for veterans and the nation.

The VA's network of medical centers and clinics provides an ideal environment in which to search for new knowledge regarding the development, diagnosis and treatment of disease and physical impairment. Just as importantly, the VA system offers a superior setting for seeking better approaches to organizing and delivering health care and to promptly making research results a part of enhanced patient care.

This annual report is an opportunity to reflect on our progress in the continual effort to discover new knowledge that redefines excellence in health care. In just a few examples of advances in the last year, VA research has increased our knowledge of chronic pain, liver disease, heart attack, cancer, and many other diseases.

VA understandably takes tremendous pride in the research enterprise that has made notable contributions to medical science and health care for decades. In doing so, however, we must always keep in mind that the true importance of our research achievements lies in successfully applying results to the clinical benefit our veteran patients. Only then will we fulfill our mission of serving those who have served our nation.



Thomas L. Garthwaite, M.D.
Under Secretary for Health

Thomas L. Garthwaite, M.D.
Under Secretary for Health



Serving Veterans: Better Health Care Through Research

“The whole VA system today is a model for what research can and must be.”
– Christopher Reeve, actor and director

The high praise VA research received from Christopher Reeve is at once gratifying and humbling. Mr. Reeve honored our organization as the keynote speaker at the 2000 national meeting of our Rehabilitation Research and Development Service. His determination in facing his personal challenges and his tireless support for research should be powerful motivating forces for all associated with VA research and health care. We in the Office of Research and Development do well to keep his example in mind as we conduct our vital mission of discovering new knowledge and creating innovations that advance the health and care of veterans and the nation.

We have the tremendous privilege and responsibility of conducting a research program focused on serving those who have served us. All elements of our research enterprise concentrate on health care concerns that are prevalent among veterans, and nearly 80 percent of our research investigators are also



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

**Medical Research Service
 (MRS) conducts
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clinicians. VA research projects focus directly on diseases or conditions affecting many of the approximately 3.5 million veteran patients VA serves each year. With a system of more than 1,100 medical centers and clinics, VA provides an unparalleled setting for our researchers to see their results rapidly and directly applied to better patient care.

The four main divisions of our research program concentrate on distinct disciplines, but together they form a cohesive whole that combines their unique strengths.

**M E D I C A L
 RESEARCH SERVICE**
 (MRS) conducts biomedical studies on the causes, development, diagnosis and treatment of diseases prevalent among veterans. Its

linchpin is the Merit Review Program, which supports clinicians and non-clinician researchers studying heart disease, cancer, neurological disorders, osteoporosis, diabetes, liver disease, and other ailments.

Among recent MRS advances are the identification of potential new treatments for chronic pain and liver disease, development of a new test for hepatitis C, and new understanding of how the brain controls muscle movements.

MRS further enhances the impact of its research through a number of carefully targeted initiatives. Designated research centers for basic and clinical studies support concentrated efforts by groups of scientists studying AIDS, alcoholism, diabetes, environmental hazards, and schizophrenia. The Research Enhancement Award Program (REAP) fosters multidisciplinary research, pilot studies and research training for teams of investigators unraveling questions concerning cancer, multiple sclerosis, hepatitis C, kidney disease, depression, stroke, Alzheimer's disease, heart attack, lung disease, bone disease, Parkinson's disease, diabetes, gastrointestinal disorders, and wound healing.

COOPERATIVE STUDIES PROGRAM (CSP), one of the most recognized large-scale clinical trial programs in the world, determines the effectiveness of new therapies through multicenter studies. CSP investigators collaborate with colleagues across the nation and around the world to test new treatments that benefit veterans and the general population.

Two recent CSP trials demonstrated that colonoscopy may be the best method of screening for colon cancer for people without symptoms and showed that using medication to raise high-density lipoprotein ("good"

cholesterol) levels significantly reduces the risk of major cardiovascular events. Ongoing efforts are testing the effectiveness of a vaccine against shingles in the elderly, assessing the occurrence of amyotrophic lateral sclerosis (Lou Gehrig's disease) among Gulf War veterans, determining whether intensified blood-sugar control can prevent major vascular complications in type 2 diabetes, and examining strategies for improving the quality of informed consent by patients participating in clinical trials. CSP is also

working with the national Medical Research Council of the United Kingdom and the Canadian Institutes for Health Research on a study to determine optimal antiretroviral treatment strategy for AIDS and HIV infection. CSP administers its trials through four management and biostatistical coordinating centers, a clinical research pharmacy, and three epidemiologic research and information centers. Its results frequently change clinical practice within and outside VA.

The Cooperative Studies Program (CSP) is one of the most recognized large-scale clinical trial programs in the world.

The Health Services Research and Development Service (HSR&D) concentrates on identifying effective and efficient ways to organize and deliver health care at the patient and system levels.

HEALTH SERVICES RESEARCH AND DEVELOPMENT SERVICE (HSR&D) concentrates on identifying effective and efficient ways to organize and deliver health care at the patient and system levels. Eleven HSR&D centers of excellence have teams of investigators focusing on areas such as practice management, economics, policy, care utilization, evaluation, provider behavior, linking research to clinical practice,

and health services issues of primary care, mental health, chronic diseases and older adults. Three resource centers—the Management Decision and Research Center, the VA

Information Resource Center, and the Health Economics Resource Center—also are important parts of the HSR&D program. A peer-reviewed research portfolio further strengthens HSR&D’s efforts to evaluate the cost-effectiveness of therapies and services and to improve quality and accessibility of health care for veterans.

Among HSR&D’s key contributions is leadership of the Quality Enhancement Research Initiative (QUERI). QUERI is designed to translate research results into improved patient care. It targets eight conditions common among veterans—chronic heart failure, diabetes, HIV/AIDS, ischemic heart disease, mental illness, spinal cord injury, stroke and substance abuse. It is designed to implement research results, assess physician practice behavior, reduce unnecessary practice variations, and measure improvements in patient outcomes and health care systems. This important effort is already producing valuable results as QUERI pursues its goal of having measurable impacts in each disease area.

REHABILITATION RESEARCH AND DEVELOPMENT SERVICE promotes research designed to maximize independence for patients by restoring lost function or decreasing the impact of disability. Nine centers of excellence conduct studies emphasizing wheelchair design and technology, brain rehabilitation, spinal cord injury and multiple sclerosis, early detection of

hearing loss, orientation techniques for blind persons, and amputation prevention and joint replacement.

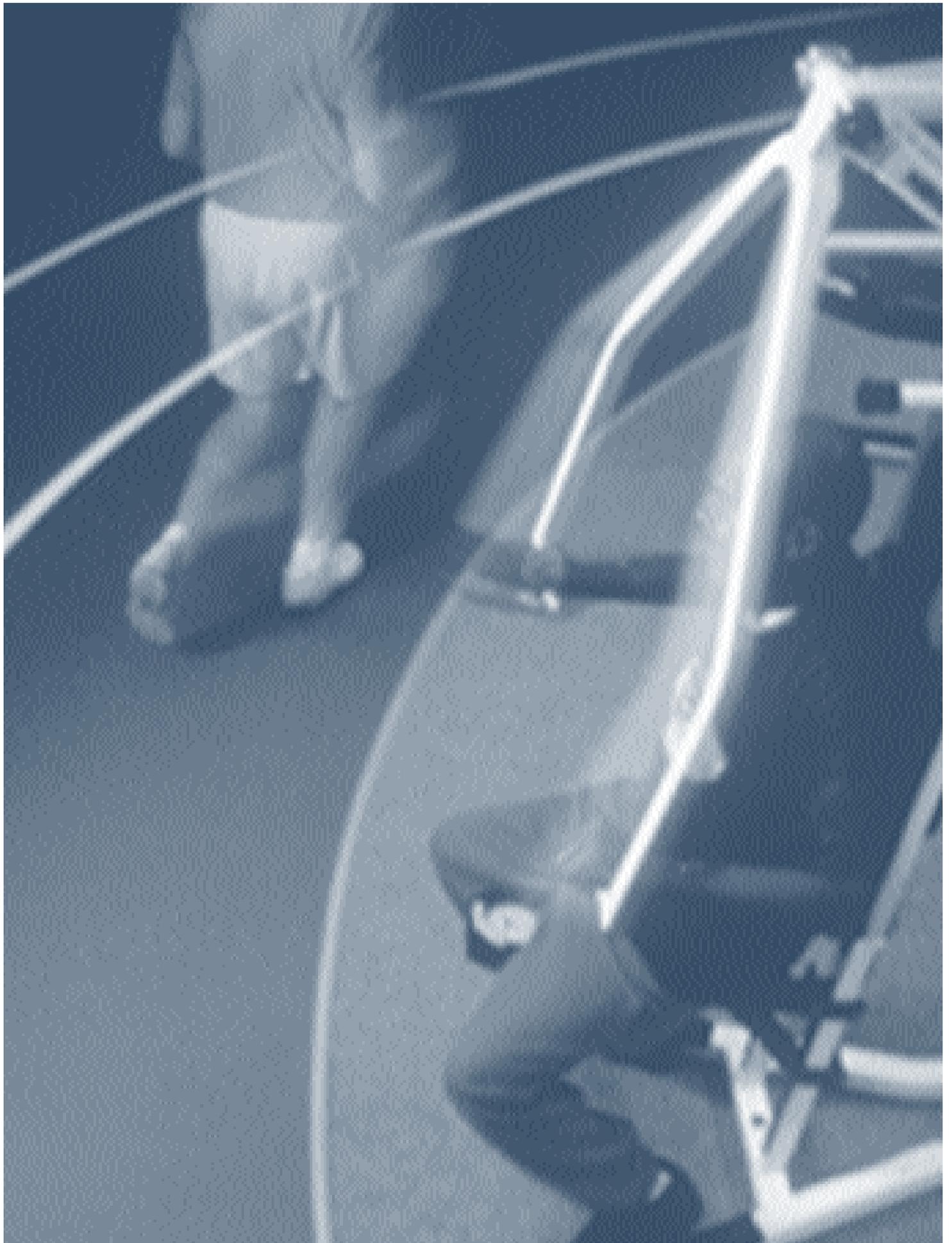
The rehabilitation research conducted at the centers and elsewhere in the VA system is

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helping veterans to lead healthier, fuller, and more independent lives. Recent important findings by rehabilitation investigators include prevention of clinical infection through use of an antimicrobial coating for medical devices and development of a programmable tinnitus mask to provide relief from insomnia. Another advance was enhancement of stroke therapy, including the first

demonstration that robot-assisted neurorehabilitation is even more effective than conventional treatment.

This brief overview of VA research presents a portrait of our program’s value and contributions. In other sections of this report, you will find additional information on accomplishments from the last year; descriptions of our efforts to address new challenges, recognition of our partners in our research enterprise, and a look toward the future. Together, these parts present an account of our progress and a statement of our commitment. Our pledge to remain diligent in pursuit of new knowledge is driven by a worthy purpose: ensuring that our veteran patients receive the high-quality health care that they have earned and that they deserve.



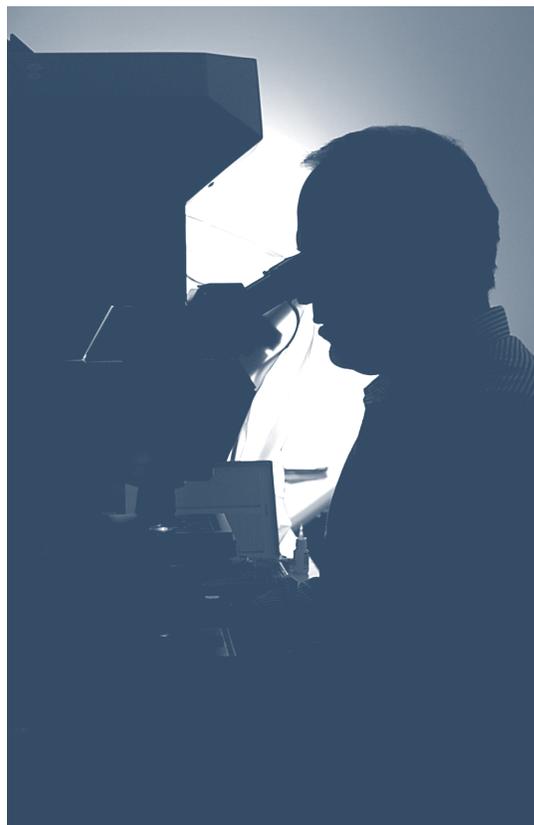
Marking Our Research Achievements

Research is the pursuit of new knowledge about diseases, conditions and health care issues to help us ensure that VHA provides the best possible service and care to all veteran patients. Each new discovery, however, brings a new set of questions for us to pursue.

Although research by its definition is never complete, we may view our achievements as marks of progress. Last year alone, VA researchers made numerous major contributions to medical science. A more detailed listing of research milestones is available on the VA Research and Development website at www.va.gov/resdev. Several highlights of our notable advances in 2000 follow.

■ Researchers at 13 VA medical centers found that colonoscopy is superior to the more widely used sigmoidoscopy in screening for colon cancer. Findings showed that 10 percent of apparently healthy men who underwent colonoscopy had **colon cancer** or serious precancerous growths and that one-third of the lesions would have been missed by sigmoidoscopy. The study has significantly advanced consideration of colonoscopy as a primary screening mechanism for colon cancer. *New England Journal of Medicine*; 343(3):162-8, July 20, 2000.

■ Another recent VA study concluded that **computerized reminders** could help doctors provide higher standards of care. The study found that computer prompts produced significantly higher compliance among physicians to 13 standards of care. Although the benefit of the reminders declined over time, the study suggests that computer technology



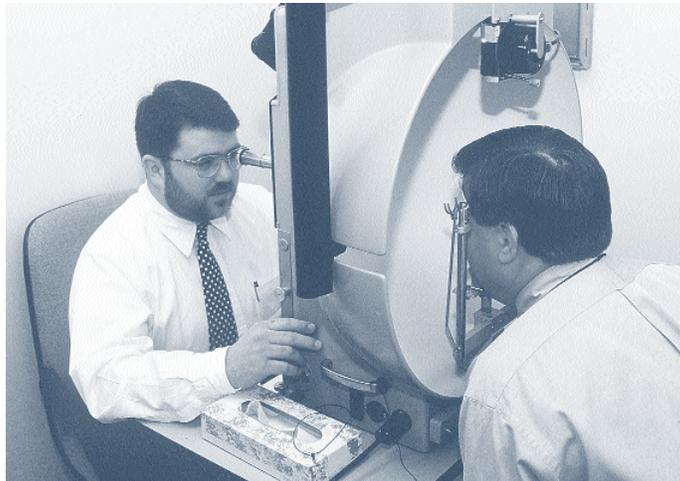
can aid busy medical care professionals in ensuring that patients receive a specified standard of care. *Journal of the American Medical Association*; 284(11):1411-6, September 20, 2000.

■ In November 2000, results of a landmark VA study were incorporated into VA and Department of Defense clinical practice guidelines for cholesterol management. The study was the first large-scale clinical trial to show that raising levels of high-density lipoprotein (HDL), the so-called “good cholesterol,” prevents **heart disease** and **stroke**. It found that the drug gemfibrozil caused a six percent increase in HDL, reducing coronary heart disease by 22 percent, nonfatal heart attack by 23 percent, and stroke by 29 percent. Gemfibrozil

is available as a generic drug, so its use is likely to reduce costs as well. *New England Journal of Medicine*; 341(6):410-8, August 5, 1999.

■ VA research also gained valuable insight into treating **chronic pain** associated with cancer and other diseases. VA scientists in Minneapolis discovered that a natural chemical messenger and a neurotoxin could shut down neurons associated with chronic pain while leaving intact those needed for a normal pain response. Their research has progressed to development of a model for treating the intense pain experienced by bone cancer patients and may lead to new, more effective therapies. *Nature Medicine*; 6(5):521-8, May, 2000.

■ VA investigators in Palo Alto utilized an automated telephone disease management (ATDM) system that allows patients with **diabetes** to report information about their health status and health behaviors between clinic visits, and receive individualized self-care education messages and follow-up by a nurse educator. Patients who participated reported fewer symptoms of depression, increased self-care, fewer days in bed due to illness, and greater satisfaction with their health care overall. This study shows that ATDM may be an effective strategy for improving self-care behavior and patient-centered outcomes.



Medical Care; 38(2):218-230, February, 2000.

■ In San Diego, VA scientists were part of a team that uncovered new information about the body's molecular response to hypoxia, decreased oxygen levels in blood or tissue that result from **heart attack** or closing of cardiac blood vessels. The researchers identified a molecular marker that may help predict heart attack or ischemia. Now they are build-

ing upon that research by studying whether such attacks can be prevented by increasing levels of a protein that stimulates blood vessel growth and helps repair damaged tissue.

New England Journal of Medicine; 343(2):626-33, March 2, 2000.

Last year alone, VA researchers made numerous major contributions to medical science.

■ VA's expertise in audiology played a critical role in the first major clinical trial of **hearing aids**. A study, conducted at eight

VA medical centers in collaboration with the National Institute on Deafness and Other Communication Disorders, showed that hearing aids are beneficial in both quiet and noisy environments. The results may enable primary care doctors to provide better advice and assistance to the estimated 28 million Americans—including about a third of those age 65 or older—suffering from hearing loss. *Journal of the American Medical Association*; 284(14), 1806-13, October 11, 2000.

■ Another VA research achievement may lead to the development of improved artificial livers and may lead to better treatments for liver disease. San Diego-based researchers discovered they could stimulate or inhibit growth in mouse liver cells by altering a specific gene. They believe the gene may work as a “switch” to increase cell growth in damaged livers or stop the growth of tumors. Their discovery presents a new target for therapies aimed at the liver and may offer insights for treating disorders in other organs. *Molecular Cell; 4(6):1087-92, December, 1999.*

■ Researchers at the VA Medical Center in West Haven, CT, identified a previously unknown dysfunction in neurons involved in multiple sclerosis (MS). They found that a specific sodium channel, the molecular “battery” that produces electrical impulses in nerve cells, occurs in cells of brains affected by MS but not in those without neurological disease. Their work could revolutionize the treatment of MS. *Proceedings of the National Academy of Science, USA; 97(21):11598-602, October 10, 2000.*

■ A group of VA scientists in Palo Alto is the first to show that robot-assisted therapy is more effective than conventional treatment for restoring upper-limb movement following stroke. The therapy produced significant improvements in strength and motor function, demonstrating that robots may help provide intensive, interactive training for patients recovering from stroke. *Journal of Rehabilitation Research and Development; 37(6), November-December, 2000.*

■ VA scientists in Little Rock were part of an international team that discovered inheriting certain genetic variants from both parents significantly increases a person’s risk of developing Alzheimer’s disease. Their work may lead to earlier detection of the disease and development of new therapeutic interventions. *Annals of Neurology; 47(3):365-8, March, 2000.*



■ VA research suggests that physicians believe in the value of home care for patients. Scientists in Illinois found that most physicians providing home care believed strongly in its importance and were willing to make home visits if the home care is of value to the patient, and if their time commitment is supported financially. This finding may help managed care plans further develop home care programs. *Journal of the American Geriatrics Society; 48(6):677-681, June, 2000.*

These examples represent only a few of the many achievements of VA researchers last year. They reflect the diversity, depth and quality of our program and serve as measures of our success. They also help us to chart our future direction by presenting new knowledge and new questions for us to address. Most importantly, each new insight fortifies our effort to find new and better ways to care for our veteran patients.



Embracing a Dynamic Research Environment

A dynamic research enterprise must be engaged with its constituents and its environment both externally and within its own organization. The Office of Research and Development is committed to retaining its leadership by effectively addressing its challenges and actively pursuing new and higher standards.

PROTECTING RESEARCH PARTICIPANTS

As a guiding principle, nothing is more important than guaranteeing the safety and rights of veteran patients who are serving the nation once again by volunteering to participate in our research. Last year, the Office of Research and Development conducted a nationwide satellite broadcast to explore strategies to help clinicians, researchers, research administrators and policy-makers assure that research participants receive the greatest possible protection. VA is furthering its leadership in this area by establishing the government's first external accreditation process for human research. Under a contract with VA, the Washington-based National Committee for Quality Assurance will implement an accreditation program for biomedical research programs at 120 VA medical centers. Within the next three years, each VA medical center that conducts human research will undergo visits by independent expert teams who will certify facilities are effectively managing research risk and determine whether any improvements are needed. In a related effort, all VA investigators conducting research on human volunteers must complete a training program that will ensure they understand procedures for fully informing and protecting patients.

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The Office of Research and Development will sustain its commitment to providing the highest level of protection for research participants. A State of the Art Conference on Making Informed Consent Meaningful is planned for March 2001. The conference will be a major part of the effort to make certain investigators, managers, and clinicians have up-to-date knowledge about informed-consent issues that are critical to the health and well-being of veterans. Meanwhile, the Cooperative Studies Program is leading a study designed to identify the most effective ways of ensuring patients are fully informed about study objectives and procedures before they agree to participate.

The project, Enhancing the Quality of Informed Consent (EQUIC), addresses the cornerstone of the protection of human rights in medical research and includes a careful review of proposed projects. The EQUIC initiative strives to systematically improve the quality of informed consent and measure the impact of innovative approaches to informing

potential study participants.

APPLYING RESEARCH ADVANCES

Another major VA research emphasis is ensuring our research advances are appropriately applied to benefit veterans and other Americans. VA's Quality Enhancement Research Initiative (QUERI), led by the Health Services Research and Development Service, is translating research advances into better patient care and systems improvements. QUERI focuses on eight high-risk and/or highly prevalent diseases or conditions among veterans: chronic heart fail-

ure, diabetes, HIV/AIDS, ischemic heart disease, mental health, spinal cord injury, stroke and substance abuse.

Another way the Office of Research and Development is working to optimize the impact and benefit of medical innovations is by leading VA's increased emphasis on technology transfer, enhancing and expediting the transition from the laboratory to bedside care. A related part of this initiative is the development of agreements with VA's university affiliates to join forces in developing and moving technological advances to the commercial market. These partnerships will ensure that new technologies are made available as soon as possible to those who can benefit from them.

RESEARCH AT THE FOREFRONT

VA researchers are among the nation's leaders in pioneering groundbreaking approaches to medical science. The Office of Research and Development supports efforts to test novel strategies that offer the prospect of new treatments and procedures for many diseases and conditions.

In New Orleans, VA medical researchers are working with NASA to study the effects of space flight on gene expression in human kidney cells. In a series of experiments conducted during space shuttle missions, the scientists have found that microgravity may be an ideal environment for developing kidney tissue that may be used to test drugs. Ongoing studies may some day make it possible to grow entire organs in space and end the critical shortage of kidneys needed for transplantation.

The San Francisco VA Medical Center will be home to one of five core medical research programs in the new Alliance for Cellular Signaling. The project, supported by the National Institute for General Medical Sciences and private industry, marks the first coordinated effort to describe the hundreds of pathways used by cells in response to outside stimuli. One

of the project's major goals is to accelerate development of new drug treatments.

The Medical Research Service's Research Enhancement Award Program (REAP) is uniting teams of scientists to employ novel strategies in diagnosing and treating diseases common among veterans. REAP teams at VA medical centers across the country are applying innovative approaches to conditions such as Parkinson's disease, hepatitis C, cancer, bone disease, and depression.

VA research is addressing many of the issues confronting the U.S. health care system as a whole.

Another major Rehabilitation Research and Development effort, at the Gainesville and Lake City VA medical centers in Florida, is exploring better strategies for treating stroke patients. Approximately 15,000 veterans are hospitalized annually for stroke, the third leading cause of death in the U.S. Stroke is

also a major cause of morbidity and functional impairment, with more than three million stroke survivors living with various degrees of neurological impairment. This study will examine stroke-related impairments, speech problems, and other chronic deficiencies resulting from strokes.

VA research is addressing many of the issues confronting the U.S. health care system as a whole. We must ensure high-quality care while improving patient access to care. We must be creative and innovative in maximizing our resources to find cures or treatments for existing and newly emerging diseases. Also, we must make certain patients and health care professionals are informed of important research advances.

In pursuing these objectives, the Office of Research and Development will draw on experts in dozens of disciplines and collaborate with organizations and investigators within and outside VA. VA research will work to increase its visibility and identify new opportunities among our own research programs. These efforts are all part of the challenge of providing the best possible health care to the nation's veterans.

Collaborations Increasing The Impact of Research

As one of the nation's leading research enterprises, the Office of Research and Development amplifies its impact by forming partnerships with other government and non-government organizations. These alliances bring together the experience, expertise, and ingenuity of the participants. The result is a stronger research endeavor that ultimately produces better medical care. Examples of these important collaborations follow.

TRI-NATIONAL CLINICAL TRIALS – The Cooperative Studies Program is working with the Medical Research Council of the United Kingdom and the Canadian Institutes for Health Research in planning a study designed to determine the optimal antiretroviral therapy for AIDS and HIV infection. The study will be the first under a tri-national initiative that fosters research in areas that are especially appropriate for large, international multi-center clinical trials. This effort will maximize patient recruitment, minimize research duplication, and conserve research resources. The collaboration will enhance private industry's support for clinical trials and increase the applicability of study findings globally.

AMERICAN DIABETES ASSOCIATION (ADA) – The Cooperative Studies Program will address another major health issue through a large-scale clinical trial that will determine whether intensified blood-sugar control can prevent the major vascular complications that lead to most of the deaths, illness and treatment costs for patients with type 2 diabetes. The VA Diabetes Trial, conducted in collaboration with the ADA and several pharmaceutical companies, will examine whether stricter control of blood-sugar levels will reduce the risks of heart attacks and strokes.



JUVENILE DIABETES FOUNDATION (JDF) – The Medical Research Service and JDF have established a partnership against diabetes. Special centers in Iowa City, Nashville, and San Diego are devoted to research in diabetes, one of the leading causes of illness and death among veterans.

NATIONAL PARKINSON FOUNDATION (NPF) – VA and the NPF have joined forces to seek a cure and improve treatments for Parkinson's disease. The Alliance to Cure Parkinson's Disease has initiated a variety of activities designed to enhance both organizations' work. Parkinson's disease, a progressive neurological condition, is a major health problem among veterans and the general population.

GULF WAR ILLNESSES – In conjunction with the Department of Defense (DoD) and the Department of Health and Human Services (HHS), VA research continues to seek answers for the ailments experienced by some Gulf War veterans. Two large-scale treatment studies are underway to ameliorate symptoms and illnesses such as chronic fatigue syndrome, neurological abnormalities, and muscle and joint pain. In addition, a nationwide study is assessing the rate of amyotrophic lateral sclerosis (ALS), or Lou Gehrig’s disease, among veterans who were on active duty during the Gulf War. Directed by the VA Epidemiologic Research and Information Center in Durham, NC, the study is a collaboration involving VA, DoD, HHS, the Centers for Disease Control and Prevention, and the ALS Association.

NATIONAL INSTITUTE ON DRUG ABUSE (NIDA) – VA and NIDA are working together to evaluate new pharmacological treatments for substance abuse. This partnership conducts clinical trials of possible treatments for abuse of alcohol and other drugs.

NATIONAL CANCER INSTITUTE (NCI) – The VA has entered collaborations with the NCI and the Southwest Oncology Group to study whether selenium and Vitamin E, alone or in combination, prevent prostate cancer. The VA also collaborates with the Agency for

Healthcare Research and Quality in a 15-year study of the long-term treatment outcomes for prostate cancer.

NATIONAL INSTITUTE ON AGING (NIA) – VA and NIA have established a joint program to promote major clinical trials on diseases and conditions associated with aging. A VA Cooperative Study, currently in planning, may examine whether testosterone therapy will help prevent bone fractures among the elderly.

NATIONAL INSTITUTE ON ALLERGY AND INFECTIOUS DISEASES (NIAID) – VA is collaborating with NIAID to study a vaccine to prevent shingles. Approximately 37,000 volunteers will help determine whether the vaccine offers protection against the painful skin and nerve infection that is common among the elderly.

PARALYZED VETERANS OF AMERICA (PVA) AND EASTERN PARALYZED VETERANS OF AMERICA (EPVA) – VA, PVA and EPVA are working together to support research on spinal cord injury, spinal cord disease, neural regeneration and rehabilitation.

PHARMACEUTICAL COMPANIES – VA has collaborated with the following pharmaceutical companies that provide study medications, devices, or other support to ongoing clinical trials:

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> Astra Merck Astra Zeneca Astra Zeneca-Canada Aventis Aviron Berlex Laboratories Bristol-Myers-Squibb Datascope Du Pont Pharmaceuticals Eli Lilly and Company Fujisawa Healthcare Hoechst-Marion-Roussell Hybritech, Inc. Ibah Pharmaceuticals Integrated Therapeutics Group Interpore Corporation Key Pharmaceuticals | <ul style="list-style-type: none"> KOS Pharmaceuticals Merck Novartis Novo Nordisk Nycomed Amersham Ortho-Dermatologies Pan American Laboratories Parke-Davis Pfizer Pharmaceuticals Reckitt & Colman Roche Pharmaceuticals Sanofi Pharmaceuticals Schering-Plough SmithKline Beecham Pharmaceuticals Somerset Pharmaceuticals, Inc. Wyeth-Ayerst |
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Supporting Our Search For New Knowledge

To sustain and strengthen its program, the Office of Research and Development must demonstrate the value of research to VA. In fiscal year 2000, VA research supported studies by more than 3,800 scientists at 115 VA facilities across the country.

The ability to fund research depends largely on congressionally appropriated resources. Figure 1 shows the recent history of the VA research budget appropriation.

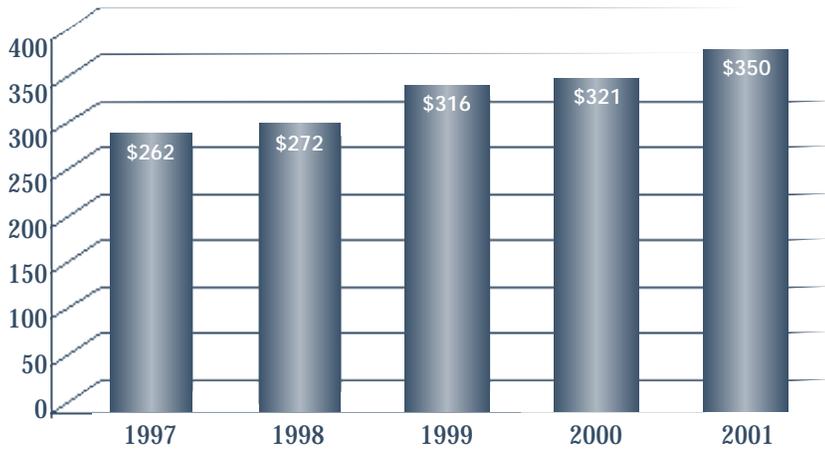


FIGURE 1. VA RESEARCH BUDGET APPROPRIATION (IN MILLIONS)

In addition to the budget appropriation, the Veterans Health Administration provides Medical Care funds for research infrastructure and indirect costs, such as clinician salaries, laboratory facilities, and support services. Distinguished achievements and continued excellence enable VA investigators to expand their research with support from other federal agencies and the private sector. Figure 2 shows VA research financial resources for 1997-2000 and an estimate for fiscal 2001.

	1997	1998	1999	2000	(est.) 2001
Appropriation	\$262.0	\$272.0	\$315.7	\$321.0	\$350.0
Medical Care	\$319.8	\$310.7	\$325.9	\$344.8	\$360.0
Non-VA Sources	\$396.8	\$430.0	\$480.6	\$504.6	\$530.0
Total	\$978.6	\$1,012.7	\$1,122.2	\$1,170.4	\$1,240.0

FIGURE 2. VA RESEARCH FUNDING HISTORY (IN MILLIONS)

The Office of Research and Development allocates all funds in support of research projects, with the largest portion devoted to investigator-initiated studies. Other programs that ensure VA research addresses all relevant areas of inquiry include service-directed research, special centers, career development and clinical trials. Figure 3 illustrates how VA research funds were expended in fiscal 2000.

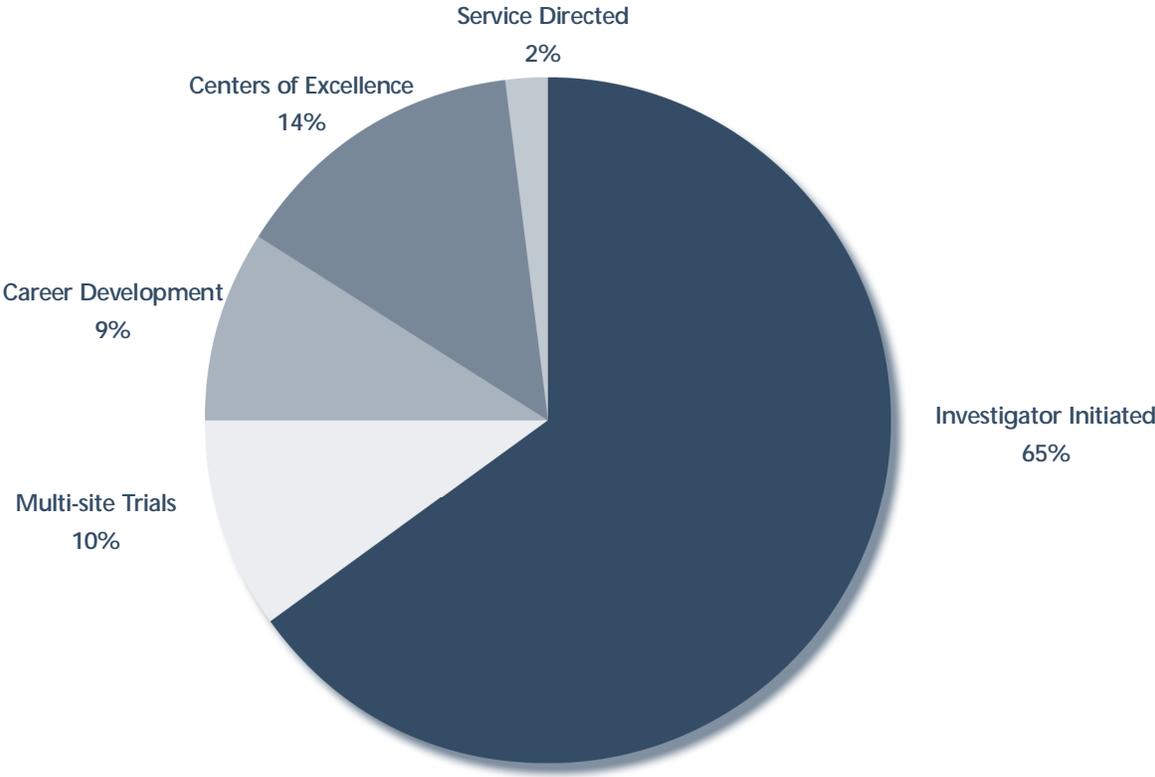


FIGURE 3. FUNCTIONAL RESEARCH PORTFOLIO

Anticipating the Future of Research

The Office of Research and Development looks toward its future with optimism and confidence that VA will build upon its leadership. We recognize, however, that such success will occur only if we are prepared to face new challenges.

As always, a critical requirement will be adequate resources to support our mission. The VA research office will continue to present the strongest possible case for substantial federal investment in VA research. At the same time, we will seek appropriate collaborations and new sources of revenue. Our expanding technology transfer program, for example, will rapidly move VA advances into commercial markets in exchange for support of further VA research.

The ideal mechanism for demonstrating the value of our program will be our high-impact research findings. Throughout its history, VA research has had many highly talented and innovative investigators whose groundbreaking achievements have significantly advanced medical science in the United States and beyond. We will ensure that remains true in the future by devoting substantial resources to training promising young scientists.

The four main components of



our research office have established Career Development programs that provide salary for clinician investigators, allowing them the time and support to pursue research and education with mentorship from experienced researchers. These promising young researchers also benefit by working closely with more experienced colleagues at the Centers of Excellence supported by Medical Research, Health Services Research and Development, and Rehabilitation Research and Development services. The three services also have Associate Investigator programs that provide research training for investigators with limited research experience. In addition, Medical Research Service increases opportunities for young investigators through the training element of the Research

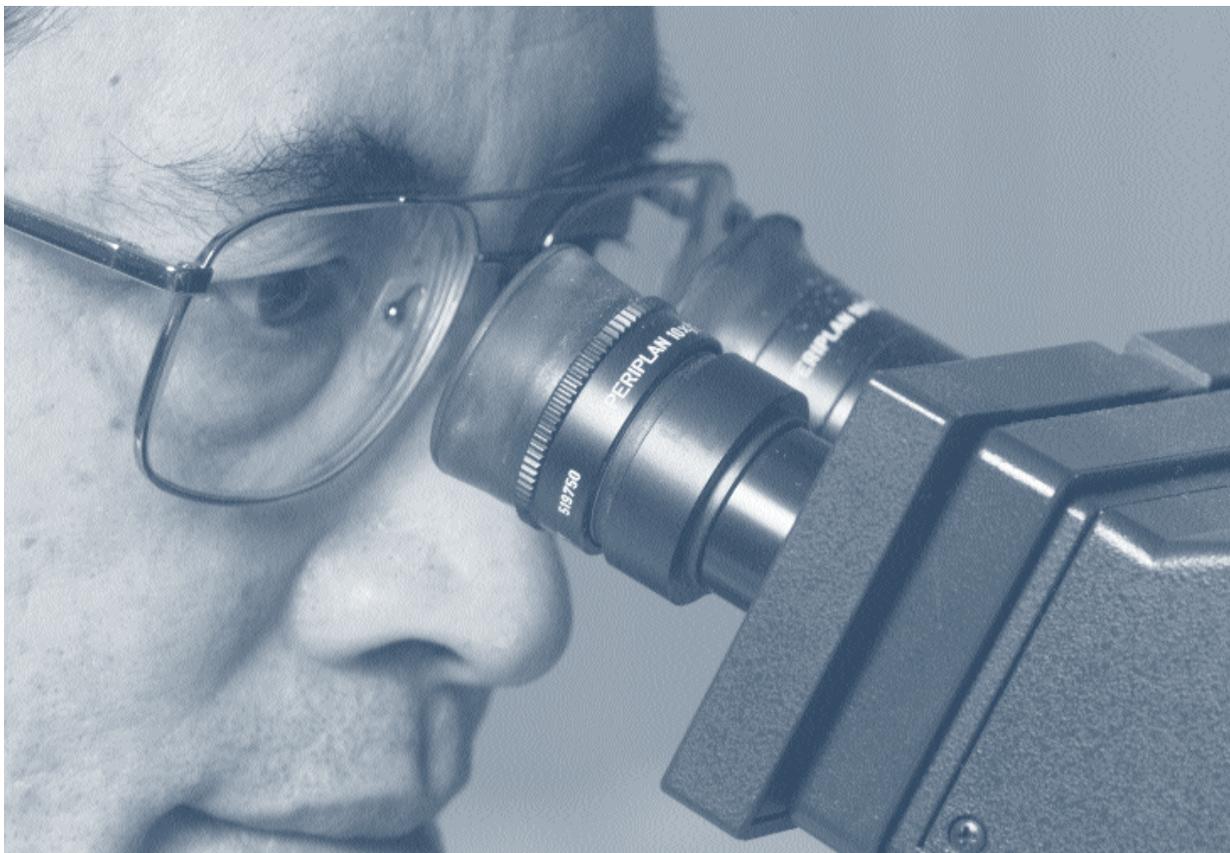
The Office of Research and Development looks toward its future with optimism and confidence.

Enhancement Award Program and the Merit Review Entry Program, which supports mentoring for clinician and non-clinician scientists. These efforts will allow us to sustain our suc-

cess by ensuring that we can recruit, educate, and train the research leaders of tomorrow.

Recent decades have seen numerous inspired advances in medical science and health care. The

future undoubtedly will offer further progress. This prospect is tremendously exciting for the Office of Research and Development in its role within the Veterans Health Administration and the wider health care and medical science communities. We will eagerly seek and seize opportunities to study critical questions and to find new and better ways to serve our veterans and the nation.



VA Research 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 Program

Bone Disease

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

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 CENTERS OF EXCELLENCE

Center for Geriatric Rehabilitation

Atlanta, GA

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

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 SCI and Multiple Sclerosis

West Haven, CT

HEALTH SERVICES R&D CENTERS OF EXCELLENCE

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

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

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

Center, Boston, MA

VA Information Resource Center

Chicago, IL

Health Economics Resource Center

Palo Alto, CA

Special Projects Office

Perry Point, MD

Career Development Awardees 2000

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 experience mentors. Each area of the research enterprise offers Career Development awards that help attract the bright, 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 2000 from the Medical Research Service, Cooperative Studies Program, Health Services Research and Development and Rehabilitation Research and Development.

Medical Research Service

Sherry L. Abboud, M.D., San Antonio, TX
Sema S. Ahuja, M.D., San Antonio, TX
Maria Alfonso-Jaume, M.D., San Francisco, CA
Bradley L. Allen, M.D., Ph.D., Iowa City, IA
Richard Aranda, M.D., West Los Angeles, CA
David Arciniegas, M.D., Denver, CO
Carlos Arteaga, M.D., Nashville, TN
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
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
Helen K. Chew, M.D., San Antonio, TX
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
Curtis J. Donskey, M.D., Cleveland, OH
Donald M. Eicher, M.D., Cleveland, OH
Nacide G. Ercan-Fang, M.D., Minneapolis, MN
Ngozi E. Erondu, M.B.B.S., Ph.D., Iowa City, IA
Bahass 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
Carla Greenbaum, M.D., Seattle, WA
Edward A. Hirschowitz, M.D., Lexington, KY
Jeffrey W. Hott, M.D., Indianapolis, IN
Eric J. Huang, M.D., Ph.D., San Francisco, 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
William Kovacs, M.D., Nashville, TN
Arthur M. Krieg, M.D., Birmingham, AL
Dennis F. Kucik, M.D., Ph.D., Birmingham, AL
Thomas J. Lang, M.D., Ph.D., Baltimore, MD
Samuel A Lee, M.D., West Haven, CT
Michael C. Levin, M.D., Memphis, TN
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 E. Menzies, M.D., Nashville, TN
Patrice Miller, M.D., West Los Angeles, CA
Mike Moates, M.D., Houston, TX
Wendy C. Moore, M.D., Baltimore, MD
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
James C. Oates, M.D., Charleston, SC
Ann Olincy, M.D., Denver, CO
Bishr M. Omary, M.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., West Los Angeles, 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
Barbara A. Ramlo-Halsted, M.D., Cincinnati, OH
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
 Richard V. Sims, M.D., Birmingham, AL
 Catherine Stehman-Breen, M.D., M.S., Seattle, WA
 Martin J. Stevens, M.D., Ann Arbor, MI
 Chris C. Streeter, M.D., Boston, MA
 John R. Teerlink, M.D., San Francisco, CA
 Hoang Minh Thai, M.D., Tucson, AZ
 Nicholas G. Verne, M.D., Gainesville, FL
 Anna V. Vinnikova, M.D., Richmond, VA
 Maria L. Wei, M.D., Ph.D., San Francisco, CA
 Karen E. Welty-Wolf, M.D., Durham, NC
 Jeffrey A. Wesson, M.D., Ph.D., Milwaukee, WI
 Cheryl M. Wong, M.D., Bronx, NY
 Joseph Wong, M.D., San Diego, CA

Cooperative Studies Program

Elaine C. Tsai, M.D., M.P.H., Seattle, WA

Health Services Research and Development Service

Steven M. Asch, M.D., M.P.H., West Los Angeles, CA
 Lori A. Bastian, M.D., M.P.H., Durham, NC
 John Birkmeyer, M.D., White River Junction, VT
 Steven J. Borowsky, M.D., M.P.H., Minneapolis, MN
 Samuel A. Bozzette, M.D., Ph.D., San Diego, CA
 Marcia L. Burman, M.D., Seattle, WA
 John P. Concato, M.D., West Haven, CT
 Joseph Conigliaro, M.D., M.P.H., Pittsburgh, PA
 David Edelman, M.D., Durham, NC
 Nathan R. Every, M.D., M.P.H., Seattle, WA
 Samuel R. Finlayson, M.D., M.P.H., White River Junction, VT
 Liana Fraenkel, M.D., West Haven, CT
 Susan M. Frayne, M.D., M.P.H., Boston, MA
 Vincent L. Freeman, M.D., Hines, IL
 Terri R. Fried, M.D., West Haven, CT
 Raul I. Garcia, D.M.D., Boston, MA
 Mary K. Goldstein, M.D., Palo Alto, CA
 Howard S. Gordon, M.D., Houston, TX
 Michael K. Gould, M.D., Palo Alto, CA
 Ian M. Gralnek, M.D., M.S., West Los Angeles, CA
 Paul A. Heidenreich, M.D., Palo Alto, CA
 Timothy P. Hofer, M.D., M.Sc., Ann Arbor, MI
 Said A. Ibrahim, M.D., Cleveland, OH
 Judith A. Jones, D.D.S., M.P.H., Boston, MA
 Eve A. Kerr, M.D., M.P.H., Ann Arbor, MI

Joann E. Kirchner, M.D., Little Rock, AR
 Sara J. Knight, Ph.D., Chicago, IL
 Mark E. Kunik, M.D., Houston, TX
 Richard A. Marottoli, M.D., West Haven, CT
 Joshua P. Metlay, M.D., Ph.D., Philadelphia, PA
 John W. Peabody, M.D., Ph.D., San Francisco, CA
 Laura A. Petersen, M.D., M.P.H., Houston, TX
 Leonard M. Pogach, M.D., East Orange, NJ
 Dawn Provenzale, M.D., M.S., Durham, NC
 Jeffrey M. Pyne, M.D., Little Rock, AR
 Linda Rabeneck, M.D., M.P.H., Houston, TX
 Jaya K. Rao, M.D., Durham, NC
 Carrington Reid, Ph.D., M.D., West Haven, CT
 Kathleen C. Richards, Ph.D., R.N., Little Rock, AR
 Kenneth E. Rosenfeld, M.D., West Los Angeles, CA
 John S. Rumsfeld, M.D., Ph.D., Denver, CO
 Lisa Schwartz, M.D., M.S., White River Junction, VT
 Alfredo J. Selim, M.D., Boston, MA
 Paul G. Shekelle, M.D., Ph.D., West Los Angeles, CA
 Michael G. Shlipak, M.D., M.P.H., San Francisco, CA
 James A. Tulsky, M.D., Durham, NC
 Peter A. Ubel, M.D., Philadelphia, PA
 Marcia T. Valenstein, M.D., Ann Arbor, MI
 Bonnie Wakefield, Ph.D., R.N., Iowa City, IA
 John D. Whited, M.D., Durham, NC
 Mary A. Whooley, M.D., San Francisco, CA
 John W. Williams, M.D., San Antonio, TX
 Linda S. Williams, M.D., Indianapolis, IN
 Steven Woloshin, M.D., M.S., White River Junction, VT
 Bevan Yueh, M.D., Seattle, WA

Rehabilitation Research and Development Service

Faith W. Akin, Ph.D., Mountain Home, TN
 Linda L. Auther, Ph.D., Nashville, TN
 Anne Strouse Carter, Ph.D., Mountain Home, TN
 Eileen G. Collins, Ph.D., R.N., Hines, IL
 Graham H. Creasey, M.D., Cleveland, OH
 Margot S. Damaser, Ph.D., Hines, IL
 Patrick J. Doyle, Ph.D., Pittsburgh, PA
 Alice V. Fann, M.D., Little Rock, AR
 Steven A. Gard, Ph.D., Chicago, IL
 David R. Gater, M.D., Ph.D., Lexington, KY
 Peter H. Gorman, M.D., Baltimore, MD
 Margaret A. Nield, Ph.D., West Los Angeles, CA
 Carolynn Patten, Ph.D., P.T., Palo Alto, CA
 Karen L. Perell, Ph.D., West Los Angeles, CA
 Lisa Riolo, Ph.D., Decatur, GA
 Richard F. Weir, Ph.D., Chicago, IL

Summary of 2000 Research and Development Projects

Following is a summary of all VA Research and Development funded studies during Fiscal Year 2000. Studies are organized by research service (Cooperative Studies Program, Health Services Research and Development, Medical Research Service, and Rehabilitation Research and Development Service), and then alphabetically by investigator.

COOPERATIVE STUDIES PROGRAM

Glycemic Control and Complications in Diabetes Mellitus Type 2, Carlos Abaira, M.D., \$450,000

Reducing the Efficacy-Effectiveness Gap In Bipolar Disorder, Mark S. Bauer, M.D., \$1,028,648

CSP HQ, Steven M. Berkowitz, Ph.D., \$895,188

VA Non-Q-Wave Infarction Strategies In-Hospital (VANQWISH), William Boden, M.D., \$0

Clinical Outcomes Utilizing Revascularization and Aggressive Drug Evaluation (COURAGE), William E. Boden, M.D., \$1,073,833

CSP Epidemiology Research and Information Center (ERIC), Edward J. Boyko, M.D., M.P.H., \$666,542

Evaluation of GEM Units and Geriatric Follow-Up, Harvey J. Cohen, M.D., \$368,932

Perry Point CSPCC - Core, Joseph Collins, Ph.D., \$2,780,292

Epidemiologic Multi-Site Hep C Virus (HCV) Study, Jason Dominitz, M.D., \$56,418

A Randomized, Multi-center, Controlled Trial of Multi-Modal Therapy in Veterans with Gulf War Illnesses, Sam T. Donta, M.D., \$5,756,826

Antibiotic Treatment of Gulf War Veterans' Illnesses, Sam T. Donta, M.D., \$2,535,002

Beta-Blocker Evaluation of Survival Trial (BEST), Eric J. Eichhorn, M.D., \$237,832

National Health Survey of Persian Gulf Veterans and Their Families, Seth A. Eisen, M.D., \$3,357,636

CSP CARDIAC CONSORTIUM, Michael D. Ezekowitz, M.D., Ph.D., \$139,650

18-F-Fluorodeoxyglucose (FDG) Positron Emission Tomography (PET) Imaging in the Management of Solitary Pulmonary Nodules, James W. Fletcher, M.D., \$538,118

PTSD: Treatment Outcomes, Matthew J. Friedman, M.D., Ph.D., \$601,925

Selenium and Vitamin E Cancer Prevention Trial, Michael J. Gaziano, M.D., M.P.H., \$18,937

CSP Epidemiology Research and Information Center (ERIC), Michael J. Gaziano, M.D., M.P.H., \$1,871,209

Prospective Cohort Study of Early Stage Prostate Cancer, Michael J. Gaziano, M.D., M.P.H., \$51,500

A Randomized, Controlled, Blinded, Multicenter Trial to Assess the Efficacy of Protection from Natural Influenza Virus Infection of Influenza, Geoffrey J. Gorse, M.D., \$160,650

VA Clinical Care AIDS Research Endeavor (VA CARE), John D. Hamilton, M.D., \$90,163

Hines CSPCC - Core, William Henderson, Ph.D., \$2,464,832

Comparison of Health-Related Quality of Life Instruments for Use in Cost-Effectiveness Analysis, William G. Henderson, Ph.D., \$22,203

Comparison of Health-Related Quality of Life Instruments for Use in Cost-Effectiveness Analysis, William G. Henderson, Ph.D., \$1,500

CSP Epidemiology Research and Information Center (ERIC), Ronnie D. Horner, Ph.D., \$872,500

Olfactory Functioning in Gulf War Veterans, Ronnie D. Horner, Ph.D., \$15,000

Anti-thrombotic agents in the prevention of hemodialysis access thrombosis, James S. Kaufman, M.D., \$429,196

Naltrexone in the Treatment of Alcoholism, John Harrison Krystal, M.D., \$912,366

Palo Alto CSPCC - Core, Philip Lavori, Ph.D., \$2,344,400

Genetic Tissue Banking in VA Clinical Research: A Cooperative Studies Program Demonstration Project, Philip Lavori, Ph.D., \$277,591

The Aneurysm Detection and Management (ADAM) Trial, Frank Lederle, M.D., \$692,071

Natural History of Large Abdominal Aortic Aneurysms, Frank Lederle, M.D., \$55,247

Prophylaxis of Medical Patients for Thromboembolism (PROMPT) Study, Frank Lederle, M.D., \$117,934

Effect of Polyunsaturated Lecithin on Liver Fibrosis, Charles S. Lieber, M.D., \$948,596

Prospective Evaluation of Risk Factors for Large Colonic Adenomas in Asymptomatic Subjects, David A. Lieberman, M.D., \$277,662

Warfarin and Antiplatelet Therapy Study in Patients with Congestive Heart Failure (WATCH), Barry M. Massie, M.D., \$2,076,933

Coronary Artery Revascularization Prophylaxis (CARP) Trial, Edward O. McFalls, M.D., Ph.D., \$1,028,967

Prevalence and Determinants of Osteoporosis in Male Veterans, Donald R. Miller, Sc.D., \$30,617

Colchicine in the Treatment of Alcoholic Cirrhosis of the Liver, Timothy R. Morgan, M.D., \$926,937

Urgent Revascularization in Unstable Angina, Douglass A. Morrison, M.D., \$487,241

Treatment of Seizures in the Elderly Population, Maria Muxfeldt, M.D., \$1,294,832

Tension Free Groin Hernia Repair: Comparison of Open and Laparoscopic Surgical Techniques, Leigh A. Neumayer, M.D., \$941,001

Trial of Varicella Vaccine for the Prevention of Herpes Zoster and Its Complications, Michael N. Oxman, M.D., \$1,527,364

West Haven CSPCC - Core, Peter Peduzzi, Ph.D., \$2,418,320

Randomized Multi-Center Controlled Trial of Multi-Modal Therapy in Gulf War Illnesses-Informed Consent Sub Study (Internal R&D Project), Peter Peduzzi, Ph.D., \$30,022

Myocardial Infarction and CABG Long Term Follow-Up Study, Laura A. Petersen, M.D., M.P.H., \$13,000

The Clinical and Economic Impact of Olanzapine Treatment on Refractory Schizophrenia, Robert Rosenheck, M.D., \$915,429

Vitamin E Treatment of Tardive Dyskinesia, John Rotrosen, M.D., \$0

Albuquerque CSPCRPCC - Core, Michael Sather, M.S., \$2,943,973

The Effects of Antiarrhythmic Therapy in Maintaining Stability of Sinus Rhythm in Atrial Fibrillation, Bramah N. Singh, M.D., Ph.D., \$1,149,534

CSP Oncology Consortium, Monica Spaulding, M.D., \$91,871

Enhancing Quality of Informed Consent (EQUIC), Jeremy Sugarman, M.D., \$120,195

A Genetic Linkage Study of Schizophrenia, Ming T. Tsuang, M.D., Ph.D., \$66,060

CSP Alzheimer consortium, Ladislav Volicer, M.D., Ph.D., \$100,744

VA Topical Tretinoin Chemoprevention Trial, Martin A. Weinstock, M.D., Ph.D., \$395,715

Evaluation of a Computer-Assisted Neuropsychological Screening Battery, Roberta F. White, Ph.D., \$0

Prostate Cancer Intervention versus Observation Trial (PIVOT), Timothy J. Wilt, M.D., M.P.H., \$700,041

The Iron (Fe) and Atherosclerosis Study (FeAST), Leo R. Zacharski, M.D., \$1,035,457

MEDICAL RESEARCH SERVICE

Bone Loss Prevention in Acutely Hypogonadal Older Men, Robert A Adler, M.D., \$27,047

New Anti-infective Strategies based on Dendritic Cells and Chemokines/Cytokines, Seema S. Ahuja, M.D., \$46,700

Oxygen Kinetics, Mobility Task Performance, and Task Training in Older Adults, Neil B. Alexander, M.D., \$110,212

Oxytocin and Oxytocin Receptor in Human Breast Cancer, Janet A. Amico, M.D., \$90,411

Cytokine Response in Human Coccidioidomycosis, Neil Martin Ampel, M.D., \$89,477

Vascular Density & Skeletal Muscle Abnormalities in CHF, Brian H. Annex, M.D., \$39,158

Psychological Assessment and Treatment of Chronic Benign Headache, John G. Arena, Ph.D., \$95,641

The CTG Repeat Instability of Myotonic Dystrophy in Cell Culture, Tetsuo Ashizawa, M.D., \$91,439

Role of Lipoprotein Cholesterol in Age-Related Decline in Steroidogenesis, Salman Azhar, Ph.D., \$141,781
Regenerative Granulopoietic Failure in AIDS: The Role of HIV-1 vpr, Grover C. Bagby, M.D., \$132,348

Physiopathology of GHRH Secretion in Humans, Ariel L. Barkan, M.D., \$58,258

Fibronectin and Mesangial Cell Function, Jeffrey L. Barnes, Ph.D., \$143,577

Immune Response Elicited by Gene Vaccination, Ronald A. Barry, Ph.D., \$127,362

Insulin and Leptin Adiposity Signaling in the Brain, Denis G. Baskin, Ph.D., \$95,440

Enhancing Gut Regeneration: Enterocytes and the Basement Membrane, Barbara L. Bass, M.D., \$98,351

Na⁺/H⁺ Antiporter and Cell Cycle in Diabetic Cells, Daniel C. Battle, M.D., Ph.D., \$50,822

Growth Hormone Receptor Gene Therapy for Catabolic States, Gerhard P. Baumann, M.D., \$86,302

Impact of Age on Immune Reconstitution Following HAART, Bradley S. Bender, M.D., \$59,589

Aging, Oxidative Stress and Microglia, Paula C. Bickford, Ph.D., \$210,415

Regulation of Expression of the 5-Lipoxygenase Pathway, Timothy D. Bigby, M.D., \$87,142

Endogenous Retrovirus in Genetic Hypertension, Oscar H.L. Bing, M.D., \$42,450

Hemodynamics and Encephalopathy in Acute Liver Failure, Andres T. Blei, M.D., \$128,985

Role of cPLA2 in MS Plaque Formation, Benjamin M. Blumberg, Ph.D., \$56,233

Mechanisms Regulating BMP-2 Action in Osteoblast Differentiation, Scott D. Boden, M.D., \$121,794

Acetylcholinesterase and Glucose PET Imaging in Parkinsonism and Dementia, Nicolaas Bohnen, M.D., Ph.D., \$33,063

Hepatic Lipase and Chylomicron Metabolism, Jayme Borensztajn, M.D., Ph.D., \$141,968

Stimulation/Augmentation of Tumor Immunity with a Recombinant Vaccine, H G, Archie Bouwer, Ph.D., \$126,870

Clinical Research Biomarkers for Estimating Early Stress, H. Stefan Bracha, M.D., \$50,751

Regulation of Blood Pressure by Vasodilator Renal PGE2 Receptors, Matthew D. Breyer, M.D., \$141,781

Neuropeptide Y: Role in Stress and Anxiety, Karen T. Britton, M.D., Ph.D., \$97,229

Interaction of Aging and Hypertrophy in Cardiovascular Dysfunction, Wesley W. Brooks, D.Sc., \$246,739

Characterizing the Verbal Memory Deficits of Schizophrenia, Gregory Brown, Ph.D., \$21,170

Integrated Intervention for Substance Abusers with Depressive Disorders, Sandra A. Brown, Ph.D., \$136,831

Role of pp125FAK and PTP-LAR in TNF-alpha-Mediated Hepatic Insulin Resistance, Michael Bryer-Ash, M.D., \$119,832

Effects of Matrix Degradation on IGF-I Sensitivity in Articular Cartilage, Joseph A. Buckwalter, M.D., \$81,071

Alternaria Asthma: A Model of Airway Inflammation and Hyperreactivity, Robert K. Bush, M.D., \$87,831

Lymphocyte Trafficking and the Bronchopulmonary Immune Response, Eugene C. Butcher, M.D., \$97,463

Regulation of Expression of the Human Coagulation Factor VII Gene, Josephine A. Carew, Ph.D., \$135,800

- Protein Kinase 'A' Regulation of TNF-alpha Production*, Daniel W. Carr, Ph.D., \$184,621
- Oxidoreductases: Structure/Function and Radical Production*, Gary Cecchini, Ph.D., \$43,011
- Baroreflex and Autonomic Dysfunction in Atherosclerosis and Hypertension*, Mark Whapleau, Ph.D., \$137,560
- Mechanisms of Transepithelial Electrolyte Transport*, Alan N. Charney, M.D., \$119,645
- Alcohol Associated Liver Disease and Methyl Deficiency*, Rajender K. Chawla, Ph.D., \$143,222
- Role of Bone-Derived TGF-beta in Skeletal Metastases*, John M. Chirgwin, Ph.D., \$152,765
- Post-translational Inactivation of p53 by Nitric Oxide and Peroxynitrite*, Charles Cobbs, M.D., \$38,283
- Mechanisms of Induction of Mucosal Immunity: Rotavirus Model*, Margaret E. Conner, Ph.D., \$145,917
- The Role of Serum Opacity Factor in Virulence of Group A Streptococci*, Harry S. Courtney, Ph.D., \$143,874
- Genetic Models of Alcoholism*, John C. Crabbe, Ph.D., \$164,887
- In vitro and In Vivo Modulation of Beta-Amyloid Transduction Pathways*, Fiona Crawford, Ph.D., \$38,072
- Cartilage-Collagen Autoimmunity and the Pathogenesis of Polyarthritis*, Michael A. Cremer, M.D., \$117,684
- Molecular Markers of Respiratory Carcinogenesis in Sputum*, Richard E. Crowell, M.D., \$195,953
- Effects of Androgens on Models of Prostate Cancer*, Glenn R. Cunningham, M.D., \$38,255
- Role of the Na/H Antiport in Pulmonary Endothelial Cell Injury*, Michael Cutaia, M.D., \$115,536
- Molecular Epidemiology of Type 2 Diabetes Mellitus in Mexican Americans*, Ralph A. DeFronzo, M.D., \$322,230
- Mechanisms of Coronary Microvascular Regulation*, Kevin C. Dellsperger, M.D., Ph.D., \$52,538
- Neuroendocrine Basis of Stress Effects on Memory and Brain Plasticity*, David M. Diamond, Ph.D., \$117,356
- Mucin (Tumor) - Specific NK-T Cells & CTL*, Kenneth E. Dombrowski, Ph.D., \$201,404
- Insulin and Glucagon Degradation and Role in Hormonal Action*, William C. Duckworth, M.D., \$121,980
- Effects of H. pylori in Gastric Mucosal Tight Junctions*, Bruce E. Dunn, M.D., \$30,998
- Regulation of the Ethanol Sensitivity of Brain GABA-A and NMDA Receptors*, Thomas Dunwiddie, Ph.D., \$77,561
- Lipid Metabolic Basis for the Barrier Abnormality in Aged Skin*, Peter M. Elias, M.D., \$45,533
- Cholesterol Metabolism and Hepatic Growth and Differentiation*, Sandra K. Erickson, Ph.D., \$181,220
- Resistance Training and Diet in Patients with Chronic Renal Failure*, William J. Evans, Ph.D., \$58,142
- The Role of the Lymphotoxin Beta Receptor Pathway in Arthritis*, Roy A. Fava, Ph.D., \$179,235
- Inclusion Body Formation in Parkinson's and Related Diseases*, Barry W. Festoff, M.D., \$148,180
- Natural Resistance to Coccidioides immitis*, Joshua Fierer, M.D., \$127,024
- A Novel Hepatocyte Membrane Protein Induced by Viral Hepatitis*, Claus J. Fimmel, M.D., \$116,377
- Regulation of Hematopoiesis by Isolated Bone Marrow Stromal Cells*, Roger A. Fleischman, M.D., Ph.D., \$57,815
- Uroguanylin: A Novel Peptide Hormone with Natriuretic Activity*, L.R. Forte, Ph.D., \$139,820
- Biological Aspects of Depression and Antidepressant Drugs*, Alan Frazer, Ph.D., \$84,202
- Cytokine Networks in the Young and Aged Central Nervous System*, Lorise C. Gahring, Ph.D., \$110,586
- Augmenter of Liver Regeneration (ALR)*, Chandrashekhar R. Gandhi, Ph.D., \$39,221
- Oral Health Outcomes in Older Veterans*, Raul I. Garcia, D.M.D., \$52,538
- Biological Specifications for Denture Designs*, Neal R. Garrett, Ph.D., \$143,454
- Helicobacter pylori, Intestinal Metaplasia and Gastric Cancer*, Robert M. Genta, M.D., \$51,207
- Oxyntic Atrophy and Novel Gastric Lineages*, James R. Goldenring, M.D., Ph.D., \$90,505
- Molecular Mechanisms of Lung Inflammation*, Richard B. Goodman, M.D., \$46,778
- Role of ANP and its Receptors in Stomach Function and Disease*, William R. Gower, Ph.D., \$38,738
- Effect of Lipids on Endothelial Cell Migration on Vascular Grafts*, Linda M. Graham, M.D., \$110,866
- Rehabilitation of Older Patients with Schizophrenia*, Eric L. Granholm, Ph.D., \$127,397
- Treatments to Attenuate Persistent Opiate Effects on the Dopamine System*, Kenneth Grasing, M.D., \$20,158
- Mechanisms of Genetic Susceptibility to Nephropathy*, Karen A. Griffin, M.D., \$156,725
- Immunochemistry of Gram-negative Infections*, J. McLeod Griffiss, M.D., \$90,692
- Genetic Analysis of Collagen Induced Arthritis in Rats*, Marie M. Griffiths, Ph.D., \$238,506
- Pathophysiology and Pharmacology of Portal Hypertension*, Roberto Groszmann, M.D., \$139,913
- Mast Cells Induce Myofibroblast Formation: Mechanistic Studies*, Barry L. Gruber, M.D., \$91,010
- Extracellular Matrix and Apoptosis in Normal and Cancer Pancreatic Cells*, Anna S. Gukovskaya, Ph.D., \$114,690
- Macrophage Urokinase and Urokinase Receptor in Pulmonary Host Defense*, Margaret R. Gyetko, M.D., \$38,917
- Muscle Glycolytic Enzyme Deficiency - Metabolic and Physiologic Effects*, Ronald G. Haller, M.D., \$231,292
- Cellular Function and Regulation of 5-HT7 Serotonin Receptor Isoforms*, Mark W. Hamblin, M.D., Ph.D., \$125,249

- Determinants of Cytomegalovirus Latency in Cells of Myeloid Lineage*, John D. Hamilton, M.D., \$156,818
- Optical Spectroscopy to Diagnose Alzheimer and Lewy Body Dementia*, Eugene B. Hanlon, Ph.D., \$73,549
- Anti-Ro Autoantibodies*, John B. Harley, M.D., Ph.D., \$136,364
- Macromolecular Movement into and out of the Airspace in Pulmonary Edema*, Bruce A. Harms, M.D., \$116,190
- Adrenergic Therapy: Effects on Cholinergic Muscarinic Receptors*, Lindy E. Harrell, M.D., Ph.D., \$99,051
- Regulation of Renal Epithelial Cell Growth*, Raymond C. Harris, M.D., \$134,776
- Peptidergic Sensory Neurons and Gastric Function*, Richard F. Harty, M.D., \$90,411
- Regulation of Temperature Dependent TNF α Expression*, Jeffrey D. Hasday, M.D., \$50,203
- NF- κ B Activation in the Enterocyte and Intestinal Mucosa during Sepsis and Endotoxemia*, Per-Olof Hasselgren, M.D., Ph.D., \$99,004
- Endothelial Dysfunction in Pathogenesis of Intestinal Radiation Toxicity*, Martin Hauer-Jensen, M.D., Ph.D., \$124,033
- Mechanism of Cellular Action of Aldosterone*, John P. Hayslett, M.D., \$48,647
- Inhibition of Hematopoiesis by Transforming Growth Factor-Beta 1*, Michael C. Heinrich, M.D., \$140,100
- Vaccine-Mediated Immunity against Leishmania*, Frederick P. Heinzl, M.D., \$41,540
- SOD Gene Transfer and Vascular Function*, Donald D. Heistad, M.D., \$42,416
- Regulation of Sodium/Iodide Symporter Gene Expression in Thyroid Cancer*, Jerome M. Hershman, M.D., \$104,888
- TLS Fusion Proteins in Leukemia*, Dennis D. Hickstein, M.D., \$46,233
- Smoking Cessation and Erectile Dysfunction*, Max Hirshkowitz, Ph.D., \$63,045
- Genetics and Neuroleptic Response*, Robert J. Hitzemann, Ph.D., \$107,844
- Structure, Function and Regulation of the Muc3 Intestinal Mucin*, Samuel B. Ho, M.D., \$100,592
- Osteoporosis in Men*, Marc C. Hochberg, M.D., M.P.H., \$57,987
- Nephrin Biology*, Lawrence B. Holzman, M.D., \$134,122
- Effect of a Bioartificial Renal Tubule Device in Acute Renal Failure*, H. David Humes, M.D., \$173,911
- Role of N-Sulfotransferases in Heparin/Heparan Sulfate Biosynthesis*, Donald E. Humphries, Ph.D., \$199,525
- Role of Free Radicals Produced by Enterococcus faecalis in Colon Carcinogenesis*, Mark M. Huycke, M.D., \$84,582
- Neuroimaging of Dopamine Transporters in Parkinson's Disease*, Robert B. Innis, M.D., Ph.D., \$175,499
- Heterogeneity of Tartrate-Resistant Acid Phosphatase*, Anthony J. Janckila, Ph.D., \$35,970
- Antipsychotic Drug Effects on Glutamate Receptors*, Aaron J. Janowsky, Ph.D., \$133,282
- Cigarette Smoking by Schizophrenic Patients (V)*, Murray E. Jarvik, M.D., Ph.D., \$32,748
- Brain Imaging Correlates of Cognitive Decline in Aging and Dementia*, Terry L. Jernigan, Ph.D., \$166,447
- Drug Resistance in Genital Tract Viruses Derived from HIV-Infected Women*, Victoria A. Johnson, M.D., \$38,318
- Hematopoietic and Immune Determinants of CNS Inflammation*, Richard E. Jones, Ph.D., \$149,089
- Selective Modulation of A-Type Potassium Channels*, Susan I.V. Judge, Ph.D., \$121,536
- Antigen-Specific Inhibition of Collagen-Induced Arthritis*, Andrew H. Kang, M.D., \$111,706
- Role of Retroviral Integrase Protein in Reverse Transcription in vivo*, John C. Kappes, Ph.D., \$127,705
- Using the Pupillary Light Reflex to Measure Visual Dysfunction*, Randy H. Kardon, M.D., Ph.D., \$239,758
- Transport of Endomorphins into the CNS after Injury*, Abba J. Kastin, M.D., \$161,675
- APF Regulation of Bladder Epithelial Cell Proliferation*, Susan K. Keay, M.D., Ph.D., \$86,528
- Glut-1 and the Pathogenesis of Diabetic Retinopathy*, Timothy S. Kern, Ph.D., \$97,230
- Molecular Biology of Intestinal Mucins in Normal Colon and Colon Cancer*, Young S. Kim, M.D., \$99,098
- Neuroprotection in Intracerebral Hemorrhage*, Arnulf H. Koeppen, M.D., \$86,045
- Clopidogrel for Cocaine Abusers with Brain Perfusion Abnormalities*, Thomas R. Kosten, M.D., \$111,333
- Proopiomelanocortin Gene Dysregulation in Cushing's Syndrome*, William J. Kovacs, M.D., \$148,319
- GTP-Binding Proteins in Islet Signal Transduction*, Anjan Kowluru, Ph.D., \$130,296
- Lipolysis*, Fredric B. Kraemer, M.D., \$139,446
- Effects of Ingestion of Palatable Foods on Alcohol Cravings and Relapse*, Dean D. Krahn, M.D., \$84,621
- Study of Polycythemia Vera*, Sanford B. Krantz, M.D., \$52,503
- RB and CDK Inhibitors in Thoracic Neoplasms*, Robert A. Kratzke, M.D., \$126,277
- Functional Analyses of GpIb/VI/IX Signaling*, Michael H. Kroll, M.D., \$44,132
- Regulation of Neuron Survival by Neurotrophins*, Jan Kucera, M.D., \$93,026
- The Role of c-Raf in Load-induced Activation of p70s6k*, Dhandapani Kuppaswamy, Ph.D., \$110,486
- Force Deficit in Reinnervated Skeletal Muscle*, William M. Kuzon, M.D., Ph.D., \$114,135
- Excitatory Synaptic Function After Neocortical Injury*, Nevin A. Lambert, Ph.D., \$49,355
- Signaling Pathways in Consolidation of Long-term Potentiation*, Emmanuel M. Landau, M.D., Ph.D., \$138,886
- Structure/Function HOXB Proteins*, Corey Largman, Ph.D., \$98,736
- CNS Mechanisms of Acute Hypoglycemia-Associated Autonomic Failure*, Dianne Figlewicz Lattemann, Ph.D., \$70,120

Pharmacologic Activation of CDK Inhibitors for Multiple Myeloma, Donald E. Lavelle, Ph.D., \$130,803

Mechanism of Protection by Adenosine in Cardioplegia, William R. Law, Ph.D., \$130,760

Early Viral-Host Predictors of HCV Treatment Response, Thomas J. Layden, M.D., \$55,183

Pdx-1-Expressing Stem Cells in Pancreatic Ductal Cancer, Steven D. Leach, M.D., \$45,672

The Epithelial Tight Junction: Molecular Basis for the Barrier Function, David B.N. Lee, M.D., \$44,202

Nicotinic Receptor Expression and Mutation in Schizophrenia, Sherry Leonard, Ph.D., \$100,653

Glia Maturation Factor as a Signaling Molecule, Ramon Lim, M.D., Ph.D., \$97,312

Age and Alcohol Effects on Brain Monoaminergic Neurons in Humans, Karley Y. Little, M.D., \$154,203

Mechanisms of Impaired Excitation-Contraction Coupling in the Infarcted Heart, Sheldon E. Litwin, M.D., \$69,925

Regulation and Function of a Novel Phospholipase C, Jon W. Lomasney, M.D., \$90,948

Pathogenesis of Large Granular Lymphocyte Leukemia, Thomas P. Loughran, M.D., \$50,612

Biomaterials to Restore Function in People with Physical Disabilities, Daniel E. MacDonald, D.M.D., Sc.D., \$39,267

The Role of NAC-1, a Cocaine-Regulated mRNA, in Addictive Behaviors, Scott A. Mackler, M.D., Ph.D., \$100,965

DLK in Neuronal Injury, Marina Mata, M.D., \$46,186

Genetic Loci for Circadian Rhythms, Aimee R. Mayeda, M.D., \$139,446

Thermoregulatory Control of NREM Sleep, Dennis McGinty, Ph.D., \$91,287

Analysis of Semantic Memory Deficits in Alzheimer's Disease, Regina McGlinchey-Berroth, Ph.D., \$114,322

Mechanisms of Neutrophil Activation, Kenneth R. McLeish, M.D., \$139,353

Novel Approaches to Chemotherapy of Cryptosporidiosis, Jan R. Mead, Ph.D., \$165,824

Platelets and Reperfusion Injury, Jawahar L. Mehta, M.D., Ph.D., \$209,963

Malignant Progression in Barrett's Esophagus, Stephen J. Meltzer, M.D., \$134,963

Thiol-Disulfide Oxidoreductases and Cellular Sulfhydryl Homeostasis, John J. Mieyal, Ph.D., \$155,689

Triglyceride Studies and Coronary Artery Disease, Michael Miller, M.D., \$109,092

Mechanism and Modulation of Respiratory Syncytial Virus Infection, Shyam S. Mohapatra, Ph.D., \$54,406

Mutant EGFR: Effects on Lipid and Protein Signaling, Robert B. Montgomery, M.D., \$104,421

Regulation of Fas Apoptosis in T Cells, John D. Mountz, M.D., Ph.D., \$140,100

Nitric Oxide in Glomerular Immune Injury, Karen A. Munger, Ph.D., \$65,715

Bacterial Infection in COPD, Timothy F. Murphy, M.D., \$149,440

PTH Signal Transduction Mechanisms and the Ubiquitin-Proteasome Pathway, Elsa J. Murray, Ph.D., \$28,545

Pathogenesis and Treatment of Low Back Pain, Robert R. Myers, Ph.D., \$140,100

Neural Networks and Language Recovery in Aphasia From Stroke: fMRI Studies, Margaret A. Naeser, Ph.D., \$121,943

Enhanced Gene Delivery in a Neurodegenerative Model, Edward A. Newelt, M.D., \$144,595

Identification of Tumor Angiogenesis-related Genes, Mai H. Nguyen, M.D., \$46,700

Role of Matrix Metalloproteinases in Vascular Regression, Roberto F. Nicosia, M.D., Ph.D., \$52,888

Regeneration of the CNS In-Vitro, Robert N. Nishimura, M.D., \$45,859

Pathogenic Role of the Eosinophil in Atheroembolic Renal Disease, Charles R. Nolan, M.D., \$62,578

Characterization of Glycogen Phosphorylase Inhibitor Factor, Frank Q. Nuttall, M.D., Ph.D., \$41,563

GTP Cyclohydrolase I Dysfunction in Dopa-responsive Dystonia, Torbjørn G. Nygaard, M.D., \$137,205

Semantic Memory Organization in Alzheimer's Disease and Normal Aging, Beth A. Ober, Ph.D., \$45,908

Oxidative Stress, Cell Cycle, and Chromosomal Ploidy, Terry D. Oberly, M.D., Ph.D., \$76,214

Genetic Factors Regulating Cardiac Hypertrophy, Terrence X. O'Brien, M.D., \$79,297

Cytokine Regulation of Stem Cell Phenotypes and Kinetics, Makio Ogawa, M.D., Ph.D., \$89,454

Pathogenic Mechanism for Lung Infection in Mucoid Pseudomonas, Dennis E. Ohman, Ph.D., \$148,454

Tumor TCR Idiotypic Vaccines for Active Immunotherapy of T Cell Cancers, Craig Y. Okada, M.D., Ph.D., \$49,892

Fibrin(ogen) Regulation of Atherogenesis, Mitchell A. Olman, M.A., M.D., \$57,955

Ligand/Receptor Binding and Receptor Processing in Neutrophil Activation, Geneva M. Omann, Ph.D., \$74,840

Genetic Immunization Against HIV Infection, Frank M. Orson, M.D., \$40,123

Bone Mass: Genetics and Gender, Eric S. Orwoll, M.D., \$166,252

Cellular Signaling in Alcohol Dependence, Subhash C. Pandey, Ph.D., \$108,998

Role of Receptor Trafficking in the Regulation of Angiotensin II Action, Richard V. Paul, M.D., \$38,493

Nitric Oxide and Modulation of Pulmonary Microvessel Formation, Patricia G. Phillips, Ph.D., \$124,026

Mechanisms of Action of Retinoic Acid in APL Cells, Leonidas C. Platanias, M.D., Ph.D., \$128,892

Mechanisms of Bradykinin Mediated Inhibition of Absorption in the Kidney, David W. Ploth, M.D., \$84,994

Predictors of Diabetes Related Morbidity and Mortality in the VHA, Leonard M. Pogach, M.D., \$55,514

Biology of Lymphokines, Arnold E. Postlethwaite, M.D., \$116,750

- Health-Related Risk of Alcohol Use in Elderly Veterans*, M. Carrington Reid, Ph.D., M.D., \$140,100
- Role of Oxidative Stress in Parkinson's Disease*, Arlan G. Richardson, Ph.D., \$242,081
- Attentional Disorders in Patients with Brain Injury*, Lynn C. Robertson, Ph.D., \$89,570
- Pulmonary Uptake of Amine Drugs*, David L. Roerig, Ph.D., \$163,792
- Mechanisms of Drug Resistance in Human Cancer*, Douglas D. Ross, M.D., Ph.D., \$102,375
- The Association of Neurotoxin Exposure with Parkinson's Disease and Parkinsonism in World War II Veterans and Other Men*, George Webster Ross, M.D., \$94,241
- Monocytes in HIV-1 Infection*, Roger D. Rossen, M.D., \$139,353
- Identification and Vaccine Potential of E. Coli Genes Induced in Blood*, Thomas A. Russo, M.D., \$73,506
- Metabotropic Glutamate Receptors and Hippocampal Epileptiform Activity*, Paul, A. Rutecki, M.D., \$97,883
- Biologic Significance of Cholesterol in Man*, Gerald Salen, M.D., \$164,010
- Allosteric Effects in BAND 3 Protein Structure and Function*, Jimmy M. Salhany, Ph.D., \$88,076
- Leptin, TNF-alpha and IL-6: Role in the Increase in Body Weight with Age*, Philip J. Scarpace, Ph.D., \$46,233
- An Investigation of PTSD Chronicity in Vietnam Veterans*, Paula P. Schnurr, Ph.D., \$66,501
- Control Factors in Lymphocyte Development*, William H. Schubach, Ph.D., M.D., \$100,872
- Pulmonary Response to Prolonged Exposure to S. Rectivigula*, Mark R. Schuyler, M.D., \$115,909
- A Novel Cytotoxic T Cell Response in Ankylosing Spondylitis*, Robert H. Scofield, M.D., \$51,603
- Fibrogenesis and Collagen Alterations in Experimental Liver Disease*, Jerome M. Seyer, Ph.D., \$48,522
- MR Brain Diffusion Tensor Imaging in Schizophrenia*, Martha E. Shenton, Ph.D., \$58,103
- Determinants of Ca²⁺ Homeostasis in Cardiac Hypertrophy and Failure*, Stephen R. Shorofsky, M.D., \$136,738
- Risk & Protective Factors in Schizophrenia Spectrum*, Larry J. Siever, M.D., \$139,913
- Dermatan/Chondroitin Sulfate Biosynthesis Relative to Function*, Jeremiah E. Silbert, M.D., \$160,181
- Regulation and Metabolic Role of Uncoupling Proteins*, William I. Sivitz, M.D., \$41,435
- Long-term Effect of Kindled Epilepsy on the Neurosecretory Apparatus*, John T. Slevin, M.D., \$104,328
- Collagen Structure and Biosynthesis*, Barbara D. Smith, Ph.D., \$98,679
- Gastrointestinal Cytomegalovirus Disease: Host and Viral Determinants*, Phillip D. Smith, M.D., \$127,677
- Mechanical Loading Effects on Cartilage Repair and Regeneration*, Robert, Lane Smith, Ph.D., \$14,050
- Guanfacine for the Treatment of PTSD*, Steven M. Southwick, M.D., \$39,578
- Vascular Action of Insulin and IGF-1: PI3-Kinase Related Resistance*, James R. Sowers, M.D., \$131,694
- Cognitive Deficits as Indicators of Genetic Liability in Schizophrenia*, Scott R. Sponheim, Ph.D., \$148,786
- Regulation of Eosinophil Leukotriene Synthesis in Asthma*, Peter H.S. Sporn, M.D., \$143,089
- Cocaine and Sensory Inhibition: Nicotinic Modulation*, Karen E. Stevens, Ph.D., \$103,210
- Central Control of Movement*, Peter L. Strick, Ph.D., \$112,360
- Control of Adrenergic Gene Expression by PACAP*, Randy Strong, Ph.D., \$146,194
- Humoral Mechanisms of MGUS Neuropathy in Veterans*, Evan B. Stubbs, Ph.D., \$43,548
- Nitric Oxide Inhibition of Chondrocyte Response to IGF-I in Arthritis*, Rebecca K. Studer, Ph.D., \$142,093
- Molecular Mechanisms of Kupffer Cell: Lipopolysaccharide Interactions*, Grace L. Su, M.D., \$31,600
- Inflammation, Serum Amyloid a and Proteoglycans*, Geetha Sugumaran, Ph.D., M.S., \$66,262
- Hippocampal Function After Ethanol: Age-Dependent Effects*, Harry Scott Swartzwelder, Ph.D., \$25,499
- Peripheral Mechanisms of Post-operative Gastric Ileus(V)*, Yvette F. Tache, Ph.D., \$35,025
- Mechanisms of Osteoinduction by a Truncated LIM Mineralization Protein*, Frances Louisa Titus, Ph.D., \$60,560
- Non-Invasive Prediction of Colorectal Neoplasia*, Martin Tobi, M.B.,Ch.B., \$125,343
- The Pattern of Breathing*, Martin J. Tobin, M.D., \$68,369
- Differential Induction of TNF and MnSOD by Endotoxin*, Min-Fu Tsan, M.D., Ph.D., \$115,162
- Ceramides in Ischemia-Reperfusion Injury of Aging Heart*, Kou-Yi Tserng, Ph.D., \$36,602
- Effector Mechanism of IL-12-Mediated Tumor Regression*, Kangla Tsung, Ph.D., \$216,918
- Catecholamine Biosynthesis Pathways with Age*, Nihal Turner, M.S., Ph.D., \$102,927
- POU Transcription Factors in Brain Development and Psychiatric Disease*, Eric E. Turner, M.D., Ph.D., \$114,041
- CD22 Signal Transduction: Anti CD22 Monoclonal Antibodies to Treat Lymphoma*, Joseph Tuscano, M.D., \$43,292
- Mechanisms of Leptin Resistance and Beta-Cell Apoptosis in Obesity*, Roger H. Unger, M.D., \$140,100
- Influence of Age on Skin Cancer*, Koichi Uyemura, Ph.D., \$143,290
- Potassium Channels Regulation of Skeletal Muscle Contraction*, Erik Van Lunteren, M.D., \$123,848
- Mechanism of Dopamine-Mediated Central Bladder Hyperreflexia*, Pedro L. Vera, Ph.D., \$149,178
- Genetic Markers for Bone Mineral Density in Men*, Pantel S. Vokonas, M.D., \$52,152
- Glycine N-methyltransferase, Homocysteine and Vascular Disease*, Conrad Wagner, Ph.D., \$46,700

Major Surface Glycoprotein of Pneumocystis: Role in Protective Immunity, Peter D. Walzer, M.D., \$144,583

Effects of Shear and Oxidative Stress on Human Saphenous Veins, Michael T. Watkins, M.D., \$44,132

Neurogenesis Following Focal Cerebral Ischemia, Philip R. Weinstein, M.D., \$116,750

Antibody-Based Delivery Systems for Intracellular p53 Restoration, Richard Weisbart, M.D., \$120,206

Mechanisms of Cutaneous Photodamage and Photoaging, Victoria P. Wertha, M.D., \$93,867

Oral Sensory Replacement for Smoking Cessation, Eric Charles Westman, M.D., M.Sc., \$58,282

Mechanisms of Aging-Related Changes in HPA Function, Charles W. Wilkinson, Ph.D., \$47,595

Inhibition of H. Pylori Gastritis by Cyclooxygenase-2, Keith T. Wilson, M.D., \$120,206

Heme Oxygenase and Hemorrhagic Shock, Mark A. Wilson, M.D., Ph.D., \$105,542

Structure-Function Relationships of Hepatic Lipase (V), Howard Wong, Ph.D., \$174,843

Event-Related Difference Spectra in the EEG: Basic Mechanisms and Properties, David L. Woods, Ph.D., \$165,225

Viral-Associated Liver Disease, Teresa L. Wright, M.D., \$279,360

The Role of hSNF5 and GADD34 in Tumor Suppression, Daniel Y. Wu, M.D., Ph.D., \$35,375

Brain Oxidative Stress and Membrane Dysfunction in Schizophrenia, Jeffrey K. Yao, Ph.D., \$126,313

Cancer Metastasis and Angiogenesis: Mechanism of MT-MMP Activation of Progelatinase a, Stanley Zucker, M.D., \$95,128

Health Services Research & Development

Atlanta HSR&D Developmental Program, Samuel M. Aguayo, M.D., \$47,472

Adherence of HIV+ Patients to Highly Active Anti-retroviral Treatment, Neil Martin Ampel, M.D., \$40,280

Computer-Assisted Access to Specialist Expertise, David C. Aron, M.D., M.S., \$77,000

Measuring HIV Quality of Care, Stephen Asch, M.D., \$47,200

An Illustrated Patient Satisfaction Evaluation Tool for Ambulatory Populations, David A. Asch, M.D., \$198,900

West Los Angeles Career Development Award, Steven M. Asch, M.D., M.P.H., \$159,654

Medical Informatics Post-Doc Program, David A., Asch, M.D., \$13,300

Training Program for Fellows (Post Ph.D.s) at VAMC Philadelphia, David A. Asch, M.D., \$13,300

QUERI on Congestive (Chronic) Heart Failure, Carol M. Ashton, M.D., M.P.H., \$237,500

Houston Center for Quality of Care and Utilization Studies, Carol M. Ashton, M.D., M.P.H., \$571,551

Changes in Mortality, Utilization and Quality of Care FY95-FY99, Carol M. Ashton, M.D., M.P.H., \$51,907

Training Program for Fellows (Post Ph.D.s) at Center of Excellence - Houston, Carol M. Ashton, M.D., M.P.H., \$13,300

HERC Center (Supplemental Account), Paul G. Barnett, Ph.D., \$15,400

Health Economics Resource Center, Paul G. Barnett, Ph.D., \$350,393

Implementation of a Screening and Brief Alcohol Intervention Program, Kristen L. Barry, Ph.D., \$42,808

Advanced Career Development Award, Lori A. Bastian, M.D., M.P.H., \$134,516

Providence HSR&D Developmental Program, Mark S. Bauer, M.D., \$47,500

Complimentary Medical Treatment Among Veterans Receiving VA Primary Care, Iris R. Bell, M.D., Ph.D., \$153,425

Improving Health Services for Veterans with Schizophrenia, Alan S. Bellack, Ph.D., \$49,981

Treatment Decision Intervention for Veterans with Prostate Cancer, Charles L. Bennett, M.D., Ph.D., \$239,003

Pressure Ulcer Care in Nursing Homes: Effect of Clinical Guidelines, Dan R. Berlowitz, M.D., M.P.H., \$59,825

Developing and Implementing a Quality Measure for Glycemic Control, Dan R. Berlowitz, M.D., M.P.H., \$178,686

Validating a Measure of Hypertension Care Using Administrative Database, Dan R. Berlowitz, M.D., M.P.H., \$86,550

The Patient Centered Treatment of Dually Diagnosed Veterans, C. Raymond Bingham, Ph.D., \$64,327

Delivery of Major Surgery in the United States: Alternative Futures, John Birkmeyer, M.D., \$198,886

Patterns of health Services Use Associated with Substance Abuse Treatment, Brenda M. Booth, Ph.D., \$42,126

Research Career Development Award, Steven J. Borowsky, M.D., M.P.H., \$151,179

Sepulveda Center of Excellence (San Diego Affiliate), Samuel Bozzette, M.D., \$28,088

Improving the HIV/AIDS Activeness Registry, Samuel A. Bozzette, M.D., Ph.D., \$172,300

QUERI on HIV/Aids, Samuel A. Bozzette, M.D., Ph.D., \$239,149

Career Development Award, Samuel A. Bozzette, M.D., Ph.D., \$141,855

Veterans Women's Alcohol Problems: Prevalence, Screening and Self-Help, Katharine A. Bradley, M.D., M.P.H., \$193,147

Pain Management and Behavioral Outcomes in Patients with Dementia, Martha Buffum, DNSc., \$87,448

HSR&D Research Development Award, Marcia L. Burman, M.D., \$32,522

Validity of New and Original ASI Summary Activendices, John S. Cacciola, Ph.D., \$100,387

The Effect of Managed Care on VA Hospitals, Kathleen Carey, Ph.D., \$80,174

Management Decision and Research Center/Boston, Martin P. Charns, D.B.A., \$1,609,375

Integration of Affiliated VA Medical Centers, Martin P. Charns, D.B.A., \$49,852

Boston Resource Center, Martin P. Charns, D.B.A., \$245,959

Comprehensive Outcomes of nonmelanoma Skin Cancer, Mary-Margaret Chren, M.D., \$148,470

Prostate Cancer Outcome Measures: Age and Race Effects, Jack A. Clark, Ph.D., \$122,907

Informal Caregivers of Veterans with Dementia: Cost, QOL and Service Use, Elizabeth C. Clipp, Ph.D., \$146,237

Durham Resources Center for HSR&D, Ed Cockrell, M.S.P.H., \$1,003,388

Durham Resource Center for RDO, Ed Cockrell, M.S.P.H., \$1,142,490

Translation Expert Contractual Costs, Ed Cockrell, M.S.P.H., \$27,600

Outcomes Assessment for Dementia Care: Development of a Module, Marisue Cody, Ph.D., \$174,872

Exercise Effect on Aerobic Capacity and QOL in Heart Failure, Eileen G. Collins, Ph.D., R.N., \$22,990

Preventive medicine and health Promotion for Persons with SCI Project, Eileen G. Collins, Ph.D., \$70,609

Risk of Mortality in Prostate Cancer, John P. Concato, M.D., \$97,347

Effectiveness of Screening for Prostate Cancer: A Cohort Study, John P. Concato, M.D., \$87,780

Career Development Award-Level Active I, John P. Concato, M.D., \$148,337

Comparison of Effectiveness of Different Intervention strategies in the primary care setting, Joseph Conigliaro, M.D., M.P.H., \$152,204

Development of a Flexilevel Scale of Shoulder Functioning, Karon F. Cook, Ph.D., \$45,315

Home Walking Exercise Training in Advanced Heart Failure, Teresita E. Corvera, M.N., \$115,140

Safe-Grip Fall/Injuries Intervention: A Randomized Trial, Carolee A. Devito, Ph.D., M.P.H., \$7,600

Safe-Grip Fall/Injuries Intervention: A Randomized Trial, Carolee A. Devito, Ph.D., M.P.H., \$52,400

Validation of Spanish Translation of Folstein Mini Mental State Exam, Carolee A. Devito, Ph.D., M.P.H., \$63,840

Determination of Clinical Implementation Effectiveness, Bradley N. Doebbeling, M.D., M.S., \$232,025

Improving Cancer Pain Management Using AHCPR Cancer Pain Guidelines, Marilyn K. Douglas, R.N., \$115,358

Nurse Counseling for Physical Activity in Primary Care Patients, Patricia Dubbert, Ph.D., \$86,038

Processes, Structures and Outcomes of Post-Stroke Rehabilitation, Pamela W. Duncan, Ph.D., \$107,065

Treatment of Depression in Patients with PTSD, Nancy Jo Dunn, Ph.D., \$177,735

Career Development Awardee - Durham, David Edelman, M.D., \$133,380

Effectiveness of a Health Education Program in a Primary Care Setting, Joseph B. Engelhardt, Ph.D., \$193,230

Evaluation of Subacute Rehabilitative Care, Ron L. Evans, M.S.W., \$38,409

Access to Cardiology: Influence of Organizational Model on Patient Outcomes, Nathan R. Every, M.D., M.P.H., \$135,395

QUERI on Ischemic Heart Disease, Nathan R. Every, M.D., M.P.H., \$237,500

Career Development Award, Nathan R. Every, M.D., M.P.H., \$133,301

(HSR&D Field Program) Northwest Center for Outcomes Research in Older Adults, Stephan D. Fihn, M.D., M.P.H., \$560,000

Seattle Center of Excellence (Supplemental), Stephan D. Fihn, M.D., \$30,000

Seattle COE - Perrin, Stephan D. Fihn, M.D., \$47,500

Seattle COE - ART Project, Stephan D. Fihn, M.D., \$85,617

Ambulatory Care Quality Improvement (ACQUIP), Stephan D. Fihn, M.D., M.P.H., \$350,455

Training Program for Fellows (Post MDs) at Center of Excellence - Durham, Stephan D. Fihn, M.D., M.P.H., \$26,600

Training Program for Fellows (Post Ph.D.s) at Center of Excellence - Seattle, Stephan D. Fihn, M.D., M.P.H., \$13,300

Medical Informatics Post-Doc program, Benjamin Fincke, M.D., \$13,300

Career Development Award, Samuel Finlayson, M.D., \$47,123

System for Monitoring Substance Abuse Patients' Outcomes and Care, John W. Finney, Jr., Ph.D., \$90,162

Shared Goals and the Process of Care in Schizophrenia - A Pilot Study, Ellen P. Fischer, Ph.D., \$42,503

Improving Service Delivery thru Access Points, John C. Fortney, Ph.D., \$97,190

Measurement of Patient Preferences for Alternative Treatments in Chronic Disease, Liana Fraenkel, M.D., \$122,954

Decision Making for Depression in Women Veterans, Patient and Physician-Factors, Susan M. Frayne, M.D., M.P.H., \$105,640

Career Development Award, Susan Frayne, M.D., \$139,741

Career Development Awardee, Vincent L. Freeman, M.D., \$154,103

Communication, Alternatives, and Preferences in End of Life Care, Terri R. Fried, M.D., \$145,920

Research Career Development, Terri R. Fried, M.D., \$141,095

Gait and Balance Training in Reducing Occurrence and Fear of Falls in the Elderly, Daisy Galindo-Ciocon, Ph.D., R.N., \$20,330

Career Development Award, Raul I. Garcia, D.M.D., \$90,077

A Medication Adherence Intervention for HIV Infected Veterans, Allen L. Gifford, M.D., \$103,016

Patient Profiling and provider Feedback to Reduce Adverse Drug Events, Peter A. Glassman, M.D., \$105,628

Guidelines for Drug Therapy of Hypertension: Closing the Loop, Mary K. Goldstein, M.D., \$194,275

Career Development Award, Mary K. Goldstein, M.D., \$170,353

Health Seeking and Treatment Selection in Patients with Coronary Disease, Howard S. Gordon, M.D., \$214,391

Career Development Award, Howard S. Gordon, M.D., \$147,989

Cost-Effectiveness of Tests for Lung Cancer Diagnosis and Staging, Michael K. Gould, M.D., \$172,448

Measuring Processes and Outcomes of Care in VA Patients with Chronic Liver Disease, Ian M. Gralnek, M.D., M.S., \$155,437

- Costs and Quality of Life and Functional Outcomes in Veterans Treated for Multiple Sclerosis with Beta-Interferon I-B (Betaseron)*, Joseph Guarnaccia, M.D., \$60,705
- Examination of the Variability in Cost of healthcare for Spinal Cord Injury in VA SCI Centers*, Marylou Guihan, Ph.D., \$106,792
- Using Pain Resource Nurses to Improve Cancer Patient Pain Outcomes*, Susan J. Hagan, M.S.N., \$69,160
- Disease Management and Educational Intervention Outcomes in High-Risk Diabetics*, Bruce P. Hamilton, M.D., \$179,081
- Medical Informatics Post-Doc Program*, Kenric W. Hammond, M.D., \$13,300
- Benchmarking Patterns in the Pharmacologic Treatment of MDD*, Cheryl S. Hankin, Ph.D., \$86,550
- Ethnicity and Veteran Identity as Determinants of VA Ambulatory Care Use*, Nancy Harada, Ph.D., \$268,066
- QUERI on Diabetes*, Rodney A. Hayward, M.D., \$237,500
- Great Lakes HSR&D Field Program*, Rodney A. Hayward, M.D., \$570,000
- 2000 Survey of VA Researchers*, Rodney A. Hayward, M.D., \$64,191
- Training Program for Fellows - Ann Arbor*, Rodney A. Hayward, M.D., \$13,300
- Effectiveness of Team Treatment of Depression in Primary Care*, Susan C. Hedrick, Ph.D., \$143,799
- RCS Hedrick*, Susan C. Hedrick, Ph.D., \$119,038
- Career Development Award-Palo Alto, Ca.*, Paul A. Heidenreich, M.D., \$147,260
- Twin Registry*, William G. Henderson, Ph.D., \$76,000
- Efficacy and Cost Effectiveness of Relaxation and Response to CHF*, Ann Hendricks, Ph.D., \$95,140
- Efficacy and Cost Effectiveness of Relaxation and Response to CHF*, Ann Hendricks, Ph.D., \$9,410
- VERA Assessment*, Ann Hendricks, Ph.D., \$333,985
- Medical Informatics Post-Doc Program*, David H. Hickam, M.D., \$13,300
- Career Development Award-Level II*, Timothy P. Hofer, M.D., M.Sc., \$151,971
- Special Projects Office*, Rainelle E. Holcomb, \$691,145
- Clinical Practices and Outcomes in VA Methadone Programs*, Keith N. Humphreys, Ph.D., \$64,450
- Automated Adverse Drug Event Monitoring in the VHA*, John F. Hurdle, M.D., Ph.D., \$140,253
- Safety Enhancement to Prevent Home Injury to Veterans with Alzheimer's Disease*, Ann C. Hurley, DNSc., \$79,250
- Development of a Cancer Pain Prognostic Scale*, Shirley Hwang, M.S., RN, \$60,135
- VA Activenformation Resource Center (VIREC)*, Denise M. Hynes, Ph.D., \$342,027
- Career Development Award*, Said Ibrahim, M.D., \$35,000
- Application of Clinical Decision Aids for Acute Upper GI Hemorrhage*, Thomas F. Imperial, M.D., \$129,480
- Application of Clinical Decision Aids for Acute Upper GI Hemorrhage*, Thomas F. Imperiale, M.D., \$37,390
- Periodontal Care and Glycemic Control in Diabetes*, Judith A. Jones, D.D.S., M.P.H., \$170,550
- Variation in VA Dental Procedures*, Judith A. Jones, D.D.S., M.P.H., \$155,200
- Career Development Award*, Judith A. Jones, D.M.D., \$124,218
- A Randomized Trial to Implement the AHCPR Smoking Cessation Guideline*, Anne Joseph, M.D., M.P.H., \$190,826
- Research Career Scientist Award*, Michael Kashner, Ph.D., \$93,030
- Developing Risk Adjustment Models in Veterans' Health Status*, Lewis E. Kazis, Sc.D., \$161,975
- Evaluation of VISTA Performance Profiles and Non-VISTA Measures*, Eve A. Kerr, M.D., M.P.H., \$187,793
- Evaluating the Performance of Explicit Quality Monitoring Systems in the VHA*, Eve A. Kerr, M.D., M.P.H., \$101,876
- The Activeness of Managed Care Strategies on Quality of Care*, Eve A. Kerr, M.D., M.P.H., \$139,112
- Toward Gender-Aware VA Health Care: Staff Ideology, Sensitivity, and Knowledge*, Lynda A. King, Ph.D., \$80,845
- HSR&D Career Development Awardee*, Joann E. Kirchner, M.D., \$165,704
- Career Development Award*, Sara Knight, Ph.D., \$92,836
- Proactive Diabetes Case Management*, Sarah L. Krein, Ph.D., \$194,120
- Racial Variations in Cardiac Procedures: Do Health Beliefs Matter?* Nancy R. Kressin, Ph.D., \$304,448
- Development and Validation of a Trauma History/PTSD Screen*, Edward Kubany, Ph.D., \$148,900
- Career Development Award*, Mark Kunik, M.D., \$194,125
- Ethnic/Cultural Variations in the Care of Veterans with Osteoarthritis*, C. Kent Kwok, M.D., \$221,400
- Ethnic Differences - Management of Patients with Ischemic Heart Disease*, C. Kent Kwok, M.D., \$173,500
- Medical Informatics Post-Doc Program*, Mike Lincoln, M.D., \$13,300
- Patient-Centered Alternative to Psychiatric Hospitalization for Veterans*, James B. Lohr, M.D., \$235,040
- Pressure Ulcer Assessment via Telemedicine*, Julie C. Lowery, M.H.S.A., Ph.D., \$68,662
- Assessment of Sight-Threatening Diabetic Retinopathy Status via Telemedicine*, Julie C. Lowery, M.H.S.A., Ph.D., \$88,464
- Nurse Managed Clinic for Dementia Patients and Family Caregivers*, Melitta K. Maddox, M.S.N., \$87,495
- Prevalence and Recognition of PTSD in VA Primary Care*, Kathryn M. Magruder, M.P.H., Ph.D., \$75,000
- Career Development Award-Level II*, Richard A. Marottoli, M.D., \$37,606
- Innovative Strategies for Implementing New CHF Guideline Recommendations*, Barry Massie, M.D., \$133,600
- Impact of Provider Substance Abuse Education on Guideline Implementation*, Richard A. McCormick, Ph.D., \$206,815
- Development of Individual-Patient Physical Health Profiles with IRT*, Colleen A. McHorney, Ph.D., \$28,500
- Determinants of Adherence to Antiretroviral Therapy and Impact on Outcomes*, Terri J. Menke, Ph.D., \$179,000

- Research Career Development Award*, Joshua P. Metlay, M.D., Ph.D., \$132,542
- Center for Health Care Evaluation*, Rudolf Moos, Ph.D., \$576,000
- Research Career Scientist - Moos*, Rudolf Moos, Ph.D., \$120,718
- QUERI on Substance Abuse*, Rudolf Moos, Ph.D., \$47,500
- Training Program for Fellows (Post Ph.D.s) at Center of Excellence - Palo Alto*, Rudolf Moos, Ph.D., \$13,300
- Undersecretary's Award*, Rudolf Moos, Ph.D., \$50,000
- Determinants of VA and Non-VA Health Care Use among Elderly Veterans*, Robert O. Morgan, Ph.D., \$67,579
- Predicting Glycemic Control and Hypoglycemic in Type 2 Diabetic Veterans*, Glen H. Murata, M.D., \$99,794
- Gender Differences in Compensation and Pension Claims Approval for PTSD*, Maureen Murdoch-Nelson, M.D., M.P.H., \$91,935
- Antecedents and Consequences of Sexual Harassment in the Military*, Maureen Murdoch-Nelson, M.D., M.P.H., \$88,065
- Tampa HSR&D Developmental Program*, Audrey L. Nelson, Ph.D., \$33,678
- Redesigning Patient Handling Tasks to Prevent Nursing Back Injuries*, Audrey L. Nelson, Ph.D., \$24,700
- Implementation of Ischemic Heart Disease Clinical Practice Guidelines*, Audrey L. Nelson, Ph.D., \$12,367
- Improving Health Outcomes of Diabetic Veterans: a Diabetic Self-Management Program*, Virginia Nodhturft, Ed.D., R.N., \$132,299
- Evaluating Cost for Veterans Health Care*, Gary N. Nugent, M.H.A., \$651,823
- Race, Patient Preference, and Stroke Risk Reduction*, Eugene Z. Oddone, M.D., \$258,549
- Center for Health Services Research in Primary Care*, Eugene Z. Oddone, M.D., \$576,000
- Durham Center of Excellence (Supplemental)*, Eugene Z. Oddone, M.D., \$156,678
- Quality Enhancement Research Initiative on Stroke Coordinating Center*, Eugene Z. Oddone, M.D., \$237,500
- Training Program for Fellows (Post MDs) at Center of Excellence - Durham*, Eugene Z. Oddone, M.D., \$26,600
- Training Programs for Fellows (Post Ph.D.s) at Center of Excellence - Durham*, Eugene Z. Oddone, M.D., \$13,300
- A Multi-Site Study of Strategies for Implementing Schizophrenia Guidelines*, Richard R. Owen, M.D., \$201,024
- HSR&D Center for Mental Health and Outcomes Research*, Richard R. Owen, M.D., \$576,000
- Cost Effectiveness of Guidelines-Concordant Care for Schizophrenia*, Richard R. Owen, M.D., \$56,050
- QUERI on Mental Health (Psychiatric Disorders)*, Richard R. Owen, M.D., \$237,500
- Documentation of Major Depressive Disorders and Schizophrenia-Related Performance*, Richard R. Owen, M.D., \$79,861
- Training Program for Fellows - Little Rock*, Richard R. Owen, M.D., \$13,300
- Identification of HIV Infection Among Veterans*, Douglas K. Owens, M.D., \$43,900
- Medical Informatics Post-Doc Program*, Douglas K. Owens, M.D., \$13,300
- Facilitating Shared Decision Making about Prostate Cancer Screening*, Melissa R. Partin, Ph.D., \$71,188
- Measuring Primary Care Competency-Linking Knowledge to Clinical Behavior*, John W. Peabody, M.D., Ph.D., \$259,022
- Career Development Awardee*, John W. Peabody, M.D., \$177,398
- Risk Factors for Femoral Bypass Surgery and Amputation*, William H. Pearce, M.D., \$24,415
- Career Development Award*, Laura A. Petersen, M.D., M.P.H., \$162,788
- Data Collection for Veterans with HIV/AIDS: Survey and Chart Review*, Barbara R. Phillips, Ph.D., \$145,695
- Improving Diabetes Care Via Telephone Assessment and Patient Education*, John D. Piette, Ph.D., \$193,184
- Automated Calls with Nurse Follow-Up to Improve Diabetes Ambulatory Care*, John D. Piette, Ph.D., \$16,276
- Impact of a Quality Management Intervention Upon Foot Care Outcomes*, Leonard M. Pogach, M.D., \$270,618
- Adherence to Antiviral Therapy in HIV infected Adults*, Gail M. Powell-Cope, Ph.D., \$48,144
- Center for Health Quality Outcomes and Economic Research*, Mark J. Prashker, M.D., M.P.H., \$551,070
- Training program for Fellow - Bedford*, Mark J. Prashker, M.D., \$13,300
- Career Development Award-Level II*, Dawn Provenzale, M.D., M.S., \$71,682
- Knowledge Management and Clinical Practice Guideline Implementation*, Jacqueline A. Pugh, M.D., \$198,064
- HSR&D Service Field Program (Center of Excellence) Veterans Evidence-Based Research, Dissemination, and Implementation Center*, Jacqueline A. Pugh, M.D., \$573,223
- HSR&D Service field Program (Center of Excellence) Veterans Evidence-Based Research, Dissemination, and Implementation Center*, Jacqueline A. Pugh, M.D., \$100,000
- San Antonio Center of Excellence (Supplemental)*, Jacqueline A. Pugh, M.D., \$68,700
- Measuring Health Care Status in Veterans with Schizophrenia*, Jeffrey M. Pyne, M.D., \$171,296
- Career Development Award*, Linda Rabeneck, M.D., \$136,223
- Can Interactive Voice Response Improve Patient Centered Outcomes*, Jaya Rao, M.D., \$40,500
- RCS Reiber*, Gayle E. Reiber, M.P.H., Ph.D., \$76,635
- Career Development Awardee - West Haven*, M. Carrington Reid, Ph.D., M.D., \$139,074
- Automatic ICU Risk Adjustment*, Marta Render, M.D., \$61,375
- Effect of Activity on Sleep of Cognitively-Impaired Veterans*, Kathleen C. Richards, Ph.D., R.N., \$128,868
- HSR&D Research Career Scientist Award*, Kathleen C. Richards, Ph.D., R.N., \$74,193
- Decline in Functional Status as a Quality Activendicator for Long-Term Care*, Amy Rosen, Ph.D., \$38,428

Ambulatory Care Case-Mix Measures: Implications for VA Managed Care, Amy Rosen, Ph.D., \$177,460

Career Development Awardee, Kenneth E. Rosenfeld, M.D., \$162,150

Impact of Outsourcing VA Cardiac Surgery on the Cost and Quality of Care, Gary E. Rosenthal, M.D., \$181,675

Outsourcing VA Inpatient Care: Impact on Utilization, Quality, and Policy, Gary E. Rosenthal, M.D., \$98,000

Medical Informatics Post-Doc Program, Jonathan R. Roskam, M.D., M.B.A., \$13,300

Use of Computer Telephony for the Administration of SF-36V-SF12V, James A. Rothendler, M.D., \$65,170

Center for the Study of Clinical Decision Making and Health Provider, Lisa V. Rubenstein, M.D., M.P.H., \$571,003

Sepulveda Center of Excellence (Supplemental), Lisa V. Rubenstein, M.D., \$12,964

A Case-finding and Referral System for Older Veterans within Primary Care, Laurence Z. Rubenstein, M.D., M.P.H., \$179,000

HSR&D Service Field Program (Center of Excellence) MN/Network 13 Center for Chronic Diseases Outcomes Research, Hanna B. Rubins, M.D., M.P.H., \$480,548

Research Career Development Award - LevelActive, John S. Rumsfeld, M.D., Ph.D., \$152,279

Efficacy of Telepsychiatry in the Treatment of Depression, Paul Ruskin, M.D., \$106,305

Lipid Measurement and Management System, Anne E. Sales, Ph.D., M.S.N., \$63,233

The Chronic Disease Score in a VA Population, Anne E. Sales, Ph.D., M.S.N., \$97,867

Onsite versus Referral Models of Primary Care for Substance Abusing Patients, Andrew J. Saxon, M.D., \$5,000

Perceptions of the C&P Process for PTSD: Symptoms and Service Utilization, Nina A. Sayer, Ph.D., \$113,982

Continuity in Substance Abuse Care: Best Practices, Outcomes, and Costs, Jeanne A. Schaefer, R.N., Ph.D., \$144,500

Development and Evaluation of a Hormone Replacement Therapy Decision-Aid, Marilyn M. Schapira, M.D., M.P.H., \$9,700

Assessing the needs of VA Patients with Advanced Cancer, Joan H. Schiller, M.D., \$104,050

Career Development Awardee - White River Junction, Lisa Schwartz, M.D., M.S., \$132,494

Career Development Awardee - Boston, Alfredo J. Selim, M.D., \$112,984

Trial of a Tailored Message Program to Implement CHF Guidelines, Terrence Shaneyfelt, M.D., M.P.H., \$123,400

Sepulveda Center of Excellence (WLA Affiliate), Paul G. Shekelle, M.D., \$5,000

Career Development Award-Level II, Paul G. Shekelle, M.D., Ph.D., \$176,559

Implementing Smoking Cessation Guidelines: A Randomized Trial of Evidence-Based Quality Improvement, Scott E. Sherman, M.D., M.P.H., \$407,097

Career Development Award, Michael Shilpak, M.D., \$36,081

Effect of Behavioral Management on Quality of Life in Heart Failure, Martha Shively, Ph.D., R.N., \$112,789

QUERI - Proposal to Expand Data Collection and Reports to Evaluate VA Cardiac Surgery Program Performance, Annie L. Shroyer, Ph.D., \$119,890

Documenting Barriers to Patient-Centered Care in an Academic Clinic, Curtis S. Smith, M.D., \$69,065

Associate Investigator Award, Lynn Snow, Ph.D., \$13,774

Randomized controlled trial of exercise training in patients with COPD, David Sparrow, D.Sc., \$101,350

Effectiveness and Cost Impact of a Telecommunications System in COPD, David Sparrow, D.Sc., \$146,450

Posttraumatic Stress Disorder Among VA Ambulatory Care Patients, Avron Spiro, III, Ph.D., \$225,494

Computer Guidelines Enhanced by Symptoms and History: Clinical Effects, William M. Tierney, M.D., \$459,102

Matching Outcomes and Costs in Substance Abuse/Psychiatric Treatment, Christine Timko, Ph.D., \$207,545

HSR&D Research Career Scientist Award, Christine Timko, Ph.D., \$26,930

Measuring the Quality of Dying, James A. Tulksy, M.D., \$118,300

Negotiating patient expectations and requests in a managed care environment, James A. Tulksy, M.D., \$187,197

Career Development Awardee, Jayalakshmi Rao, M.D., James A. Tulksy, M.D., \$102,141

Career Development Awardee - Durham, James A. Tulksy, M.D., \$132,288

Career Development Award-Level II, Peter A. Ubel, M.D., \$131,736

PECASE Award, Peter A. Ubel, M.D., \$25,000

Mental Health Providers' Perceptions of Quality Indicators, Marcia T. Valenstein, M.D., \$81,575

Career Development Award, Marcia T. Valenstein, M.D., \$181,103

Patient Preferences and the Care of Diabetes, Sandeep Vijan, M.D., \$108,134

Iowa City HSR&D Development Program, Bonnie Wakefield, Ph.D., R.N., \$30,638

Career Development Award, Bonnie Wakefield, Ph.D., \$65,400

Surgical Risks and Outcomes of Women Treated in VA Hospitals, Frances M. Weaver, Ph.D., \$34,398

Midwest Center for Health Services and Policy Research, Frances M. Weaver, Ph.D., \$576,000

Hines Center of Excellence (Supplemental), Frances M. Weaver, Ph.D., \$30,000

QUERI on spinal cord Injury, Frances, M., Weaver, Ph.D., \$237,500

An Integrated Model of Primary Care in Mental Health, Morris Weinberger, Ph.D., \$184,191

Research Career Scientist, Morris Weinberger, Ph.D., \$39,706

Health Services Implications of A Teledermatology Consult System, John D. Whited, M.D., \$133,300

Health Services Implications of a Teledermatology Consult System, John, D., Whited, M.D., \$139,844

Career Development Award, Linda Williams, M.D., \$129,197

HSR&D Career Development Awardee, John W. Williams, Jr., M.D., \$103,868

Career Development Award - White River Junction, Steven Woloshin, M.D., M.S., \$136,665

Career Development Award, Mary Wooley, M.D., \$137,329

Patient Preferences in End Stage Prostate Cancer, Nelda P. Wray, M.D., M.P.H., \$79,635

Undersecretary's Award, Nelda P. Wray, M.D., \$25,000

Managed Care Performance of VHA Primary Care Delivery Systems, Elizabeth M. Yano, Ph.D., \$24,766

Research Career Development, Bevan Yueh, M.D., \$163,642

REHABILITATION RESEARCH & DEVELOPMENT

A Measurement of the Efficacy of an Adult Aural Rehabilitation Program, Harvey Abrams, Ph.D., \$78,960

Comparing Off-Loading Modalities to Heal Diabetic Foot Wounds, David, Armstrong, D.P.M., \$63,200

AERs in Aphasia: Severity and Improvement, Linda Auther, Ph.D., \$77,100

Prevention of Bone Loss in Acute and Chronic Spinal Cord Injury, William Bauman, M.D., \$228,681

Effects of Work Activity and Cognitive Rehabilitation on Schizophrenia: A Matching Study, Morris Bell, Ph.D., \$99,750

Advanced Computer Model of Orientation and Mobility Used by Visually Impaired Persons, Bruce Blasch, Ph.D., \$146,625

Electrical Control of Bowel and Bladder in Spinal Cord Injury Patients, Donald Bodner, M.D., \$249,600

A Prospective Study of Endothelial Dysfunction and Diabetic Foot Ulcer Risk, Edward Boyko, M.D., \$215,700

Differential Pressure Walking Assistance, Charles Bugar, M.D., \$30,400

Mechanically Assisted Upper Limb Movement for Assessment and Therapy, Charles G., Bugar, M.D., \$47,000

Robot-assisted Upper Limb Neuro-Rehabilitation, Charles Bugar, M.D., \$217,325

Mechanical Regulation of Peri-Prosthetic Tissue Differentiation, Dennis Carter, Ph.D., \$95,400

Prediction and Early Detection of Damage Accumulation in Human Tendons, Dennis Carter, Ph.D., \$110,700

Stimulation of Bone Healing Using Bone-Matrix-Related Biomaterials, Dennis Chakkalakal, Ph.D., \$43,000

Methods to Improve Pain-Free Function of Reconstructed Hip Joints, Dennis Chakkalakal, Ph.D., \$39,883

Treatment of SCI by Inhibiting Scar Formation with Antisense GFAP, Neelima Chauhan, Ph.D., \$31,338

Generalized EPP Position Controller for Electric-Powered Upper-Limb Prostheses, Dudley Childress, Ph.D., \$40,000

Finite Element and Gait Analysis: Tools for Prosthesis Design, Dudley, Childress, Ph.D., \$48,500

Effects of Acute Spinal Cord Injury on Colonic Motility and Tone, Rani Chintam, M.D., \$117,700

Validation and Field Testing of a National Pain Treatment Outcome System, Michael Clark, Ph.D., \$63,900

Effect of Ventilation-Feedback Training on Exercise Performance in COPD, Eileen Collins, Ph.D., \$27,817

Behavioral and Functional Problems in Dementia Patients with Sensory Loss, Bettye Rose Connell, Ph.D., \$1,200

Effects of Cushion and Back Support on Wheelchair Ride Comfort, Rory Cooper, Ph.D., \$162,900

Telerehabilitation for Veterans with Disabilities Requiring Assistive Technology, Rory Cooper, Ph.D., \$86,950

A Robotic Walker for Frail Elderly with Visual Impairment, Rory Cooper, Ph.D., \$17,284

Improvement of Control for Electric Powered Wheelchair, Rory Cooper, Ph.D., \$25,000

Measurement and Prediction of Outcomes of Amplification, Robyn Cox, Ph.D., \$163,900

Restoration of Proximal Arm Function by FES, Patrick Crago, Ph.D., \$259,100

FNS and Weight Support Treadmill Training for Gait Component Restoration, Janis Daly, Ph.D., \$42,450

UTI Prophylaxis Using Bacterial Interference Following SCI, Rabih O. Darouiche, M.D., \$57,705

Outcome Assessment of the Rehabilitation of the Visually Impaired, William R. De l'Aune, Ph.D., \$233,500

Effects of Stimulus Variability on Speech Recognition, Donald, Dirks, Ph.D., \$99,516

Quantifying Spoken Language Handicap in Aphasia II, Patrick Doyle, Ph.D., \$22,817

Development of a Quality of Life Instrument for Stroke Survivors, Patrick Doyle, Ph.D., \$50,000

Coordination of Hemiparetic Movement after Post-Stroke Rehabilitation, Pamela Duncan, Ph.D., \$102,075

Transcranial Magnetic Stimulation for Depression in Parkinson's Disease, Charles Epstein, M.D., \$32,700

Effects of Aging Motor Unit Firing Behavior-Continuation, Zeynep Erim, Ph.D., \$161,009

Biochemical Analysis of Synovial Activation in Joint Dysfunction, Christopher Evans, Ph.D., \$74,876

Investigation of Individualized High-Frequency Regions for Early Detection of Ototoxicity, Stephen Fausti, Ph.D., \$253,100

A Computer-Controlled Power Wheelchair Navigation System, Linda Fehr, M.S., \$19,750

Cardiac Disease and the Electrocardiogram in Spinal Cord Injury Patients, Victor Froelicher, M.D., \$190,500

Clinical Evaluation of a Wheelchair Mounted Robotic Arm, Susan Garber, M.A., \$109,466

A Study to Determine the Biomechanical Effects of Shock-Absorbing Pylons, Steven Gard, Ph.D., \$72,997

A Computerized Device for Fabricating Sockets with Variable Stiffness, Steven Gard, Ph.D., \$160,000

Portable Monitoring of Physical Activity and Depression in Stroke, Andrew, Gardner, Ph.D., \$84,301

In Vivo Tissue Response to In Vitro Synthesized Bone, Jonathan Garino, M.D., \$107,200

FDG-PET Imaging in the Management of the Painful Total Hip Prosthesis, Jonathan Garino, M.D., \$126,200

New Strategy for Improved Outcome in Occult Periprosthetic Musculoskeletal Infections, Kevin Garvin, M.D., \$88,900

Freeform Fabrication of Transtibial Prosthetic Sockets, Andrew J. Gitter, M.D., \$45,500

Effects of Common Drugs on Recovery After Stroke, Larry Goldstein, M.D., \$53,400

Development of Improved Middle Ear Prostheses, Richard Goode, M.D., \$30,150

Development of an Automated Device for Decongestion of Replanted Tissue, Gregory Hartig, M.D., \$164,700

Early Diagnosis of Steroid-Responsive and Non-Responsive Hearing Loss, Steven Hefeneider, Ph.D., \$39,467

Evaluation of Treatment Methods for Clinically Significant Tinnitus, James Henry, Ph.D., \$128,100

Automated Technique for the Clinical Evaluation of Tinnitus, James Henry, Ph.D., \$28,750

Functional Restoration of Grasp in Quadriplegia, Vincent Hentz, M.D., \$234,500

Effects of Chronic Pain and Dynamic Exercise on Pain Patients, Martin Hoffman, M.D., \$20,850

Impact of Occupational Therapy on the Health Status of Elderly Veterans, Donald Holleman, Jr., M.D., \$130,400

Prevention of Recurrent Pressure Ulcers After Myocutaneous Flap, Sally Holmes, M.D., \$62,500

Supported Treadmill Ambulation Training after Spinal Cord Injury, Sally Holmes, M.D., \$111,575

Developmental Testing and Enhancement of the VA Pedorthics CAD/CAM System, Vern Houston, Ph.D., \$208,190

Cause of Male Infertility After Spinal Cord Injury and its Prevention, Hosea Huang, Ph.D., \$192,671

The Effect of Compressive Force on the Disc in Vivo, William Hutton, D.Sc., \$186,400

Improving Stepping-Over Responses in the Elderly Using Simulated Objects, David Jaffe, M.S., \$93,700

Gonadal Steroids as Rehabilitative Agents After Partial Spinal Cord Injury, Kathryn Jones, Ph.D., \$26,663

Promotion of Functional Recovery Following Spinal Cord Injury - (REAP), Kathryn Jones, Ph.D., \$224,850

Frequency Selectivity Assessment: Implications for Auditory Rehabilitation, James Kane, Ph.D., \$62,950

Electric Field Effects on Slow Axonal Transport Components in SCI, Talat Khan, Ph.D., \$96,850

Static Versus Dynamic FES Exercise and Heart Disease Risk Factors in SCI, Beatrice Jenny Kiratli, Ph.D., \$112,700

Individualizing the Design & Use of a FES-Based Standing Neuroprosthesis, Robert Kirsch, Ph.D., \$75,900

Ultrasound Treatment of Acute and Chronic Peripheral Nerve Injury, Michel Kliot, M.D., \$17,267

The Impact of Blind Rehabilitation on Quality of Life in Visually Impaired Veterans, Thomas Kuyk, Ph.D., \$96,600

Electrical Stimulation of Abdominal Muscles to Assist Cough in SCI, W. Edwin Langbein, Ph.D., \$96,300

Compendium of Energy Cost of ADLs in Persons with SCI, W. Edwin Langbein, Ph.D., \$99,000

Physical Exercise Strength Training to Improve the Health of Dialysis Patients, David Leaf, M.D., \$42,475

Biomechanics of the Patellofemoral Joint, Thay Lee, M.S., \$54,900

Biomechanics of the Glenohumeral Joint in Spinal Cord Injury Patients, Thay Lee, M.S., \$101,800

Mechanical Basis for Surgical Transfer of Forearm Muscles, Richard Lieber, Ph.D., \$191,100

Functional Magnetic Micturition in Patients with Spinal Cord Injury, Vernon Lin, M.D., \$58,900

Functional Magnetic Cough in Patients with Spinal Cord Injury, Vernon Lin, M.D., \$119,900

Prevention of Bladder Stones Following Spinal Cord Injury, Todd Linsenmeyer, M.D., \$100,900

Investigation of Subatmospheric Pressure Dressing on Pressure Ulcer Healing, Michael Longaker, M.D., \$125,966

A Biodegradable Device for Peripheral Nerve Repair, Roger Madison, Ph.D., \$161,050

Eye/Vision Problems in Veterans with MS, SCI, Stroke or TBI, A Pilot Study, Joseph Maino, OD, \$7,888

Design of a New Collapsible Bowel Care-Shower Chair for SCI Veterans, Pascal Malassigne, MID, \$101,312

Design of a Stand-Up Motorized Prone Cart, Pascal Malassigne, MID, \$32,860

Redesign & Evaluation of a Device for Rehabilitation of People with Visual Field Loss, Rickilyn Mancil, M.A., \$3,700

Veterans with Cataracts: Visual Disability in Nighttime Driving, Gary Mancil, O.D., \$37,425

Evaluation of a Device to Improve Mobility of Veterans with Night Blindness, Rickilyn Mancil, M.A., \$28,655

Use of Tretinoin to Prevent Pressure Ulcers in Spinal Cord Injury Patients, Janusz Markowski, M.D., \$6,800

Problem Solving Strategies of Brain Injured and Normal Subjects, Robert C. Marshall, Ph.D., \$32,137

Pedorthic 3-D Optical Digitizer, Carl Mason, M.S.B.E, \$4,521

Development of Quality of Life Measures for Use in Dysphagia, Colleen McHorney, Ph.D., \$10,000

Electrophysiology Indices: Auditory Discrimination and Cognitive Processes, Darlene Moenter, Ph.D., \$38,200

Electrical Activation of the Diaphragm for Ventilatory Assist, J. Thomas Mortimer, Ph.D., \$120,400

Physical Activity in Persons with Multiple Sclerosis, Janet Mulcare, Ph.D., \$156,300

Anatomical Basis of Osseoperception, Robert Myers, Ph.D., \$105,000

Quantifying Auditory Perceptual Learning Following Hearing Aid Fitting, Charles Nelson, M.S., \$89,100

Quantifying Functional and Physiological Changes Following Hearing Aid Fitting, Charles Nelson, M.S., \$29,017

Preventing Slips & Falls in the Elderly - Effects of Simple Biomechanical Interventions, Lars Oddsson, DRMS, \$195,878

Effects of Functional Incidental Training (FIT) in VA NHCU Residents, Joseph Ouslander, M.D., \$215,814

Physical Conditioning in Management of Chronic Venous Insufficiency, Frank Padberg, Jr., M.D., \$94,000

Effect of Spinal Implants on the Response of the Lumbar Spine Under In Vivo Compressive Loads, Avinash Patwardhan, Ph.D., \$136,500

Microphotodiode Tiles as Prosthesis for the Restoration of Visual Function, Neal Peachey, Ph.D., \$186,600

FES Control of the Upper Extremity in SCI, P. Hunter Peckham, Ph.D., \$310,700

Prostate Compliance of Patients with Spinal Cord Injuries, Inder Perakash, M.D., \$63,000

Clinical Trial of Footwear in Patients with Diabetes, Gayle Reiber, Ph.D., \$114,931

VA Stroke Rehabilitation Outcomes: Barriers to Efficient Performance, Dean Reker, Ph.D., \$72,200

Restricted Useful Field of View as a Risk Factor for Falls in Older Adults, Lisa Riolo, Ph.D., \$83,700

Role of Attention Status in Fall Risk in Older Adults, Lisa Riolo, Ph.D., \$39,890

Motion and Velocity Encoder for Monitoring Essential or Neurological Tremor (Movement), Charles Robinson, D.Sc., \$82,600

Threshold Detection of Postural Control in Diabetic Neuropathy and Aging, Charles Robinson, D.Sc., \$41,400

Physical Performance Measures for Young, Middle-Aged and Elderly Manual Wheelchair Users, Mary Rodgers, Ph.D., \$127,500

Development and Evaluation of an Activity Monitor for People with Dementia, David Ross, M.S.E.E., \$163,950

Restoration of Gait for Acute Stroke Patients Using FES, Robert Ruff, M.D., \$40,363

Functional Neuromuscular Stimulation (FNS) for Chronic Stroke Patients, Robert Ruff, M.D., \$50,000

Reliability and Validity of Accelerometric Gait and Balance Diagnosis, Eric Sabelman, Ph.D., \$80,500

Advanced Accelerometric Motion Analysis System (Design/Development), Eric Sabelman, Ph.D., \$97,200

Pressure/Motion Feedback to Protect Skin of Sensorimotor Impaired Elders, Eric Sabelman, Ph.D., \$91,315

Biomechanics of Foot Deformities and Alternatives for Surgical Correction, Bruce Sangeorzan, M.D., \$22,265

Effect of Motor Imbalance on Bony Deformity and Plantar Pressure in the Foot, Bruce Sangeorzan, M.D., \$14,575

Evaluation of Eye Movement Tracking Systems for Visual Rehabilitation, Ronald Schuchard, Ph.D., \$121,410

Development of a Self-Report Measure of Impact of Spasticity After SCI, Arthur Sherwood, Ph.D., \$2,103

Effects of Aerobic Exercise on Gait and Functional Performance in Hemiparetic Stroke, Kenneth Silver, M.D., \$110,200

Mechanical Loading Effects on Human Osteoarthritic Cartilage, Robert Lane Smith, Ph.D., \$72,500

Abnormal Cough after Stroke: Predictor of Aspiration? Carol Smith Hammond, Ph.D., \$5,385

Home-Based Pulmonary Rehabilitation via a Telecommunications System, David Sparrow, D.Sc., \$186,932

A Cell-Seeded Implant for Articular Cartilage Regeneration, Myron Spector, Ph.D., \$50,000

Effectiveness of a Home-Based Pulmonary Rehabilitation Program, John Spurzem, M.D., \$139,360

Team Characteristics and Patient Outcomes on VA Rehab Services, Dale Strasser, M.D., \$39,130

Cortical Contributions to the Recovery of Motor Function, Peter Strick, Ph.D., \$26,875

Cortical Contributions to the Recovery of Motor Function, Peter Strick, Ph.D., \$175,650

Orthostatic Manipulation of Blood Flow and Cognitive Functions in the Elderly, Lalitha Swamy, M.D., \$22,650

Assessment of Reading Capabilities of the Parafoveal Retina and Evaluation of Techniques to, Janet Szyk, Ph.D., \$180,950

Predictors of Driving Performance & Successful Mobility Rehab in Patients with Medical Eye Conditions, Janet Szyk, Ph.D., \$230,700

Assessing Outcomes of Low Vision Rehabilitation Using the NEI VFQ-25, Janet Szyk, Ph.D., \$187,500

Outcome of Lower Extremity Constraint-Induced Therapy after Stroke, Edward Taub, Ph.D., \$175,700

Exercise, Standing and Ambulation with Implanted FES Systems, Ronald Triolo, Ph.D., \$384,900

Development of an Assistive Robot for Effective Health Care Delivery, H.F. Van Der Loos, Ph.D., \$25,000

Driver's Simulation Environment for Arm Therapy: A Pilot Study, Hendrik Van Der Loos, Ph.D., \$12,425

Video-Based Functional Assessment and Training Following Stroke, Hendrik Van Der Loos, Ph.D., \$26,825

Development of an Improved Artificial Electro-Larynx Communication System, Michael Walsh, M.Ed., \$163,100

Colonic Rehabilitation with Microstimulators After Spinal Cord Injury, James Walter, Ph.D., \$63,575

Treatment of Urinary Incontinence in Women: Use of an Information System, James Walter, Ph.D., \$36,750

Rehabilitation of Impotency in SCI: Receptor Studies, James Walter, Ph.D., \$50,000

Evaluation of Deficit-Oriented Treatments for Aphasic Naming Disorders, Julie Wambaugh, Ph.D., \$170,000

Impact of Low Vision and Rehabilitation on Elder Literacy, Gale Watson, MA.Ed., \$89,968

Fading-in of Right Hemispatial Information in the Treatment of Unilateral Neglect, Jeffrey Webster, Ph.D., \$95,800

Development of an Externally Powered Prosthetic Hand for Persons w/ Partial Hand Amputations, Richard Weir, Ph.D., \$149,785

Sensitivity and Specificity of a Clinical Examination of Swallowing, Robert Wertz, Ph.D., \$111,040

Oropharyngeal Swallowing Function in Normal Adults, Robert Wertz, Ph.D., \$38,996

Predicting Real-World Visual Problems in the Elderly from Vision Tests, Janis White, Ph.D., \$42,250

Evaluation of Word-Recognition Performance with Sentence Materials, Richard Wilson, Ph.D., \$118,098

Biological Responses in the Pathogenesis of Aseptic Loosening, Paul Wooley, Ph.D., \$174,900

Nutrition & Clinical Status of Disabled Older Veterans in Long Term Care, Jonelle Wright, Ph.D., \$72,475

Our Thanks

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