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RESEARCH CONTRACTS SPONSORED BY MEDICAL DEPARTMENT, US ARMY

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PLACE	INVESTIGATOR	SUBJECT	AMOUNT*
U. Michigan	Conn	Ability of soldiers to work in humid heat	\$22,850
PURPOSE: To study the physiological effects upon normal men of exposure to work and rest in humid heat.			
U. Colorado	Waring	Tuberculosis of men in service	29,000
PURPOSE: To study the course and prognosis of minimal pulmonary tuberculosis in men in the military service; to determine the influence of physical strain and emotional factors upon tuberculosis; and to study related problems.			
U. California	Anderson	Chemotherapy of amebiasis	20,000
PURPOSE: To conduct studies and experimental investigations on the chemotherapy of amebiasis, using established techniques for the evaluation of anti-parasitic agents.			
Leland Stanford U.	Dembo-Hilgard	Social-psychological rehabilitation of the physically handicapped	30,000
PURPOSE: To conduct studies and experimental investigations in connection with the social-psychological rehabilitation of the physically handicapped, including suggestions for therapy.			
New York Med. Coll.	Lange	Frostbite and immersion foot	47,000
PURPOSE: To investigate the physiology, pathology and therapy of immersion foot and frostbite.			
Columbia U.	Melery	Clinical and laboratory studies on bacitracin	36,000
PURPOSE: To conduct clinical and bacteriological studies of contaminated wounds and methods of treatment with the newer antibiotics, including bacitracin.			
Johns Hopkins U.	Riahter	Peripheral nerve injuries	14,300
PURPOSE: To develop a technique for the use of neurosurgeons in the operating room for the direct study of the function of the sympathetic nerves; also to devise instruments to detect the extent of nerve injuries.			
U. Pennsylvania	Pendergrass	Prevention of growth of hair in skin grafts	15,500
PURPOSE: To discover a radiation dosage that will safely remove hair from skin grafts without impairing the integrity of the graft, in order to facilitate the use of scalp skin to repair defects of the face.			

* Current costs on an annual basis.

PLACE	INVESTIGATOR	SUBJECT	AMOUNT*
Columbia U	Grundfest	Methods for testing nerve injuries to attempt to simplify, perfect, interpret and standardize methods of diagnosis and evaluation of data on the course of recovery of peripheral nerve injuries.	\$45,000
Emory U.	Elkin	Peripheral vascular diseases and injuries	25,000
		PURPOSE: To investigate the formation of collateral channels following arterial injury or disease; the effect of sympathectomy upon blood flow in the extremities; the influence of sympathectomy on renal blood flow; and related problems.	
Cincinnati U.	Altemeier & Logan	Immunization against gas gangrene	26,000
		PURPOSE: To study the nature of gas gangrene in experimental animals and the factors responsible for its development, in order to evaluate the prophylactic and therapeutic effects of chemotherapeutic agents, antisera, surgery, toxoid immunization, etc.	
U. Maryland	Pincoffs	Investigation of Antimalarials and other preventive measures, World War II	10,000
		PURPOSE: To investigate data on experiments with antimalarials and other preventive medicine measures, together with reports on clinical and laboratory studies relating to prevention of disease and injury.	
Mass. Gen. Hosp.	Beecher	Investigation on sedatives	34,300
		PURPOSE: To evolve criteria for evaluating sedatives, including effectiveness, duration of effect and toxicity; to develop principles of sound use; to test and evaluate new drugs in this field; and to eliminate certain abuses of agents in this group.	
George Wash. U.	Blades	Anesthesia and resuscitation	20,000
		PURPOSE: To conduct studies and investigations on anesthesia and resuscitation with particular reference to an evaluation of positive pressure under both anesthesia and resuscitation, the relationship of pulmonary edema to various methods of anesthesia, and the administration of intravenous fluids during anesthesia.	
George Wash. U.	Blades	Value of antibiotics	20,000
		PURPOSE: To determine the protective value of penicillin and other antibiotics when given before, during and after various surgical procedures, and to determine the relative merits of different modes of administration.	

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PLACE	INVESTIGATOR	SUBJECT	AMOUNT*
Tulane U.	Lyons	Protein metabolism in disease & injury	\$40,700
		PURPOSE: To conduct studies upon protein metabolism in preparation for operation, during recovery from illness or injury, and during convalescence.	
Tulane U.	DeBaKey	Analysis of medical records & documents pertaining to war wounds & noncombat-connected surgical diseases in World War II.	28,800
		PURPOSE: To analyze, evaluate and interpret the mass of medical, historical and clinical material accumulated by the Surgical Consultants Division, SGO, from all Theaters and the Zone of Interior on the incidence, cause, pathology and management of war wounds and noncombat-connected surgical diseases in age groups affected by military service.	
Mass. Gen. Hosp.	Churchill	Case records - battle wounds, MTO	14,700
		PURPOSE: To subject to research investigation such reports of clinical and laboratory studies and other related medical documentary material as referred by the Scientific Officer, including the statistical analysis of the data and preparation of reports based thereon.	
Yale U.	Bayne-Jones	Analysis of documents of USA Typhus Comm.	6,200
		PURPOSE: To analyze and study all documents, records and exhibits of the Typhus Commission and to prepare a report based thereon.	
Inst. of Pa. Hosp.	Appel	Psychiatric disorders in Army, World War II	3,000
		PURPOSE: To analyze and report on the large volume of data collected during the recent war on the causes and prevention of psychiatric disorders.	
Yale U.	Bayne-Jones	History of Army Epidemiological Board	3,000
		PURPOSE: To complete the history of the Army Epidemiological Board.	
U. Michigan	Francis	Commission on Influenza, AEB	99,000
		PURPOSE: To maintain an alert for identification of outbreaks of respiratory diseases, particularly influenza; to observe the effect of influenza vaccine in populations under epidemic conditions; to study the calcium phosphate concentration of influenza virus; to study the toxicity, dosage and antigenic response of influenza virus in adults and children; and to carry out related studies.	
Yale U.	Paul	Commission on Virus & Rickettsial Dis., AEB	32,800
		PURPOSE: To continue investigations of Japanese B encephalitis and related problems in Japan and the U.S.; to continue investigations of the virus encephalitis, including work on the epidemiology of these diseases and on diagnosis by serological methods; and to continue investigations, including control, of poliomyelitis and other encephalites, on dengue and other short fevers, on measles and mumps, hepatitis and serum jaundice, and on rickettsial infections and rickettsiae.	

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PLACE	INVESTIGATOR	SUBJECT	AMOUNT*
Harvard U.	Stare	Effect of cold on nutritional requirements	\$23,000
PURPOSE: To determine the effect of cold on nutritional requirements-- specifically, the relative distribution of calories from carbohydrates, fat and protein, and the effect of the most desired distribution of calories on requirements for the B-complex vitamins, particularly choline.			
U. Pennsylvania	Pillsbury	Greens therapy in cutaneous diseases	2,000
PURPOSE: To evaluate the possibilities of using Greens ray therapy in treating cutaneous diseases, which were found during the war to occur frequently in military personnel and to be an important cause of non-effectiveness.			
Western Res. U.	Dingle	Commission on Acute Respiratory Diseases, AEB	45,700
PURPOSE: To study acute undifferentiated respiratory diseases in civilian groups; to continue studies on streptococcal infection; to collect and study acute and convalescent sera collected from cases of pneumonia from various parts of the country; to observe respiratory infections throughout the year in a specially selected population group, with emphasis on influenza antibodies in relation to epidemics; to complete reports and papers on studies made by the Commission on Acute Respiratory Diseases at Fort Bragg; to analyze and prepare research reports of the former Commission on Hemolytic Streptococcal Infections; to continue investigations of coccidioidomycosis; to study the immunization of man with pneumococcal polysaccharides; and possibly to study the "Common Cold".			
Cornell U.	Magill	Commission on Influenza, AEB	11,000
PURPOSE: To establish an Influenza Virus Strain Study Center in order to study the breadth of the immunizing range of the respective strains, the immunogenic potencies of the strains, and the strains for sharp antigenic differences as to both serological and immunizing capacities.			
U. Illinois	-	Nutrition & Metabolism in health & disease	11,300
PURPOSE: To investigate the nutritional and metabolic aspects of pathological processes of military importance; to improve present medical nutritional methods of preventing and treating disease and injury; and to improve nutritional therapeutic means for accelerating convalescence.			
Tulane U.	Burch & DeBakey	Behavior of peripheral blood vessels	55,000
PURPOSE: To study the behavior of the peripheral blood vessels under tropical and cold environmental conditions, with particular reference to acclimatization and injury.			
Leland Stanford U.	Rantz	Commission on Acute Respiratory Dis., AEB	14,000
PURPOSE: To make a detailed study of streptococcal diseases in children, and to undertake field or other investigations upon request of The Surgeon General.			

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PLACE	INVESTIGATOR	SUBJECT	AMOUNTS*
U. Pennsylvania	Stokes	Comm. on Virus & Rickettsial Dis., AEB	\$25,000
PURPOSE:	To establish a hepatitis, measles and mumps project, including studies on the value of gamma globulin in possible protection against a serum virus agent; experimental attempts to find a lower animal susceptible to infection with hepatitis virus; studies of hepatitis infections materials in liver tissue cultures; and other studies on the diagnosis, epidemiology and follow-up of epidemic hepatitis.		
Tulane U.	Turner	Liver function in infections	7,000
PURPOSE:	To study liver dysfunction, which is a feature of many acute and chronic infections. This condition is of clinical importance in the differential diagnosis of acute infectious hepatitis and may be an important contributing factor to the development of chronic liver diseases and cirrhosis.		
Vanderbilt U.	Morgan	Internal medicine in World War II	6,200
PURPOSE:	To prepare analyses of the medical experiences of the Army in World War II in the field of internal medicine, including tropical diseases but excluding preventive medicine experience.		
U. Rochester	Berry	Proteolytic microorganisms in dental caries	8,000
PURPOSE:	To conduct research in connection with the bacteriologic and biochemical aspects of dental caries, with special emphasis on the possible importance of proteolytic bacteria in causation of caries.		
M. Reese Hosp.	Katz	Physiology of warming and cooling	11,400
PURPOSE:	To conduct certain studies in the physiology of warming and cooling as they affect body temperature and the circulatory system, in order to extend knowledge on vascular reactions to marked temperature change.		
Iowa State U.	DeGowin	Studies on homologous serum jaundice	26,000
PURPOSE:	To study the incidence of homologous serum jaundice in the civilian population from which blood must be secured in wartime; the epidemiology of the disease as it occurs naturally in this population; the clinical course of the disease in its spontaneous form; and methods of processing plasma and serums to destroy the virus.		
Mass. Gen Hosp.	White	Neurocirculatory asthenia and anxiety neurosis	12,000
PURPOSE:	To conduct studies leading to the establishment of valid criteria for assaying the significance of the symptomatology and physical and laboratory findings manifested by neurocirculatory asthenia, anxiety neurosis, effort syndrome, and other borderline psychosomatic cardiac studies.		

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PLACE	INVESTIGATOR	SUBJECT	AMOUNT*
Johns Hopkins U.	Schoenbach	Commission on Acute Respiratory Dis., AEB	\$ 2,200
PURPOSE: To complete the analysis of existing data on meningococcal meningitis emanating from the former Commission on Meningococcal Meningitis, and to prepare reports thereon.			
Chil. Hosp., Cin.	Sabin	Comm. on Virus & Rickettsial Dis., AEB	19,000
PURPOSE: To conduct further studies on dengue and other short fevers and on Japanese B encephalitis.			
Iowa State U.	Hale	Commission on Influenza, AEB	6,600
PURPOSE: To conduct studies on influenza carriers and influenza virus toxicity.			
Harvard U.	Snyder	Comm. on Virus & Rickettsial Dis., AEB	22,000
PURPOSE: To conduct studies on typhus fever and other diseases of rickettsial origin to determine epidemiology, pathogenesis and methods of treatment.			
Jeff. Med. Coll.	Hevens	Comm. on Virus & Rickettsial Dis., AEB	17,600
PURPOSE: To conduct studies on infectious hepatitis, particularly diagnosis and treatment.			
New York U.	MacLeod	Commission on Acute Respiratory Dis., AEB, and President, AEB	23,700
PURPOSE: To conduct studies on pneumococci and pneumococcal polysaccharides and on streptococci in relation to acute respiratory disease, and to coordinate and administer activities of AEB.			
Columbia U.	Heidelberger	Commission on Acute Respiratory Dis., AEB	6,600
PURPOSE: To continue studies on pneumococcal polysaccharides and immunity to them.			
Johns Hopkins U.	Langmuir	Commission on Acute Respiratory Dis., AEB	6,600
PURPOSE: To continue studies on the pneumonia-influenza relationship and to complete the analysis of data and reports on studies previously made at Fort Bragg, North Carolina.			
Leland Stanford U.	Smith	Commission on Acute Respiratory Dis., AEB	11,000
PURPOSE: To continue studies on the epidemiology, immunology, pathogenesis, diagnosis and treatment of <u>Coccidioides immitis</u> infections.			
U. California	Hannon	Comm. on Virus & Rickettsial Dis., AEB	10,800
PURPOSE: To continue investigations on arthropod-borne virus encephalitis, with special reference to the relation of wild birds to the epidemiology of these diseases and the ability of various insect vectors to transmit the encephalitis.			

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PLACE	INVESTIGATOR	SUBJECT	AMOUNT*
Harvard U.	Yaglou	Commission on Environmental Hygiene, AEB	\$10,300
		To conduct studies on medical hazards encountered in heating and ventilating shelters, particularly field-type hospitals, etc., in cold weather operations. Studies will be made on the natural infiltration of air into closed tents under various weather conditions and on the carbon monoxide production of gasoline stoves used in shelters.	
	Jeff. Med. Coll. Goodner	Commission on Immunisation	6,000
		PURPOSE: To investigate simple, non-antigenic, biological substances which can be used in suspending media to increase the immunogenic stability of the agent prior to drying and after lyophilization to facilitate its rehydration with minimal losses. Materials such as casein hydrolysate, urea, etc., will be studied.	
	Med. Coll of Va. Evans	Surgery for radiation and thermal burns	93,500
		PURPOSE: To investigate the surgical procedures required for casualties subjected to radiation and thermal burns such as may result from exposure to large amounts of radioactive material.	
	Louisiana State U. Longacre	Investigation on bacitracin	15,200
		PURPOSE: To investigate the antibacterial spectrum of bacitracin particularly as it relates to wound infection, and to determine the toxicity and other systemic side effects of the drug on humans.	
	U. Pennsylvania Lucke	Transmission of hepatitis to birds	9,000
		PURPOSE: To study the relation of avian hepatitis to human hepatitis and the transmission of the latter to birds by experimental means.	
	U. Pennsylvania Rawlin	Research on bacitracin	9,100
		PURPOSE: To study the dosage, absorption, distribution, toxicity, excretion and clinical usefulness of bacitracin in the treatment of infections.	
	Yale U. Preffers	Commission on Immunisation, AEB	1,000
		PURPOSE: To adapt the Tiselius Electrophoretic Apparatus to include direct examination of patterns with infrared light in order to facilitate investigation of the physical properties of purified biologicals.	
	Gorgas Mem. Inst. Hertig	Studies on Phlebotomus sandflies	20,000
		PURPOSE: To study the biology, taxonomy and control of sandflies, which are vectors of kala-azar, leishmaniasis, Oroya fever, oriental sore and sandfly fever.	
	- Smith	Intramedullary fixation of fractures	9,000
		PURPOSE: To conduct studies on the use of intramedullary pins in the fixation of fractures of the long bones, to supplement experience gained from observation of German work.	

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PLACE	INVESTIGATOR	SUBJECT	AMOUNT*
U. Rochester	Morton C. Young	Evaluation of local anesthetic solutions in oral surgery, including the need for inclusion of vasoconstrictor in 2 per cent procaine solution; a method of adding vasoconstrictor to procaine immediately before use or injecting vasoconstrictor just before procaine; and the effect of age on the anesthetic properties of procaine plus vasoconstrictor, with toxicity of deteriorated solutions tested beforehand on laboratory animals.	\$ 8,000
Yale U.	Fry	Manpower selections & preventive psychiatry	35,000
		To undertake a thorough evaluation of the mental capacities and adaptability of our national population so that manpower may be used most efficiently during emergencies; and to develop new and improved preventive psychological and psychiatric methods for minimizing losses of manpower due to psychiatric causes.	
McGill U.	Malmö	Psychophysiological factors in neurotic behavior	23,000
		To determine the fundamental physiological factors in neurotic patterns of behavior. The findings of this study will be important in ascertaining the basic phenomena involved in the pathogenesis of psychoneurotic disorders and should lead to improved diagnosis, treatment and prevention of such disorders.	
E.F. Bradley Home	Laufer	Effect of bleached flour on convulsions in man	25,000
		To study the clinical effect on humans of withdrawing bleached flour from the diet. Studies have shown that convulsive disturbances similar to human epilepsy are produced in animals fed flour bleached with agents, the most commonly used flour-bleaching agent in the United States.	
U. Pittsburgh	Salk	Commission on Influenza, AEB	23,800
		To conduct studies in the field and laboratory of both a research and applied nature to determine whether influenza immunization is a valid or non-valid procedure in military medicines.	
U. Chicago	Allen	Irradiation injuries	43,000
		To study injuries incident to irradiation, the physiological and biological effects following irradiation, and the development of therapeutic methods to combat irradiation injuries.	
Mass. Gen. Hosp.	Beecher	Anesthesia death rate	26,000
		To determine as accurately as possible the death rate attributable to anesthesia, whether to agent, technic, or their misapplications.	
Scripps Met. Clin.	Keeney	Pathogenesis and treatment of fungous infections	16,200
		To continue work on the following: growth requirements of pathogenic fungi, isolation of antigenic fractions from concentrated broth filtrates of important pathogenic fungi, the effect of hypersensitivity in fungus infections, and isolation and testing of new agents for use in the specific treatment of fungous infections.	

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TRANSFER AGREEMENTS, MEDICAL DEPARTMENT, ARMY

DEPARTMENT	SUBJECT	AMOUNT*	PURPOSE
Department of Agriculture	Insect and rodent control compounds and procedures, including their use as airplane sprays, clothing impregnators, etc.	\$250,000	To evaluate new insect control
Food & Drug Administration	Toxicity of compounds of proposed insect repellents, insecticides, etc., in order to interpret their toxic manifestations; to determine possible improvements; and to investigate prophylactic or therapeutic procedures for treatment after poisoning.	30,000	To study the physiologic effects
Chemical Corps	Wound ballistics between size, mass, shape, trajectory, energy, velocity, etc., of missiles and the type of wounds they inflict in various regions of the body.	30,000	To determine the relationships
Quartermaster Corps	Chemical-Biological Information Center	22,500	To collect and assemble information on the chemistry and biology of compounds and to develop coding methods for chemical and biological effects so material may be organized and classified into usable form; to secure compounds from various sources and to test them to determine their biological effects on different forms of life and the mechanisms underlying these effects; to render advisory services on the biological effects of known compounds; and to suggest programs to be undertaken on contract and to make recommendations on the scope, institutions and investigators of proposed contracts.
Veterans Administration, for Prosthetic Devices Committee on Prosthetic Devices, NAS		200,000	To improve prostheses for soldiers and veterans who have lost limbs in the military service.
Bureau of Standards	Development of field X-ray equipment	250,000	To handle electrical and technical details of the Army's field x-ray program, with the mechanical aspects continued at the Laboratory and Shop Branch, AN:PO. No commercial concern would bid on this program because of excessive demands on their engineering departments.
Air Force	Army-Navy Deterioration Prev. Cts.	800	(This amount is the pro-rated share of the Medical Department)
Signal Corps	Sensory aids for the blind device developed previously which is, according to laboratory reports, the best sensory aid to date.	25,000	To perfect an optical type of
Interior (Fish & Wildlife)	Studies on hepatitis American animal susceptible to infection by the virus of infectious hepatitis in order to investigate	12,500	To attempt to find a North

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DEPARTMENT	SUBJECT	AMOUNT*	PURPOSE
	Further the cause and course of the disease. Also, to study the phenomenon of interference with infections in certain viral diseases, which may be applicable to influenza in humans.		
Navy Department	Bibliography of Arctic specialists & Literature index bibliographies of writings about the Arctic and of Arctic specialists, neither of which is now available.	\$10,000	To prepare and cross-
Navy Department	Advisory services, Natl. Academy of Sciences surveys and critical analyses on medical problems arising in The Surgeon General's Office, in addition to rendering advisory services which reflect the total experience and judgment of Academy personnel.	40,000	To conduct investigations
Mil. Dist. Wash.	Cold weather studies (Med. Dept's share of overhead expense)	4,800	To pay Medical Department's pro-rated share of overhead expense of operations at Churchill.

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