ANNUAL REPORT

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> PROGRAM ACTIVITIES NATIONAL INSTITUTE OF DERTAL RESEARCH FISCAL YEAR 1979

> > PART V

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service National Institutes of Health



Upited States NATIONAL INSTITUTE OF DENTAL RESEARCH

ANNUAL REPORT of pogun activities.

COLLABORATIVE RESEARCH PROJECTS

October 1, 1978 - September 30, 1979

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Compiled By

Dental Research Data Officer

National Institute of Dental Research

National Institutes of Health

Bethesda, Maryland

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IDENTIFICATION NUMBER	N01 DE42434-05
ORGANIZATION	HAZLETON LABORATORIES
ADDRESS	VIENNA VIRGINIA
INITIAL START DATE	05-01-74
EXPIRATION DATE	06-30-80
ORGANIZATION CODE	9640802
PROJECT DIRECTOR	DALGARD, DAN W
NIDR PROJECT OFFICER	BOWEN, WILLIAM H
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: ANTI-CARIES IMMUNIZATIO	N IN SUBHUMAN PRIMATES

The Contractor will provide 40-50 Macaca fascicularis monkeys approximately sixteen months of age. The Contractor would house and maintain the monkeys with suitable sterility and safety procedures for a period of not less than two years. The monkeys would be fed eight times daily and less frequently on weekends with a special caries-conducive diet which would be specified by NIDR. The Contractor would also provide facilities for clinical (general anesthesia and minor oral surgery) and radiographic examinations.

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	DE42435-06
	THERN RESEARCH INSTITUTE
ADDRESSBIR	MINGHAM ALABAMA
INITIAL START DATE 05-	15-74
	31-79
	7001
	SAR, DONALD R
	SE, JOYCE A.
	VINS, MARION
TITLE: IMPROVED MATERIALS FOR MAXI	LLOFACIAL PROSTHESIS

Complete developmental phase by determining stain resistance, wettability, cleanability, dimensional stability, opacity, and adhesion to tape and surgical adhesive; optimizing bulk viscosity, pot life, vulcanization and temperature, mold release and shrinkage, and time intrinsic and extrinsic coloration techniques; evaluating special techniques for fabricating hollow, foam-filled, or microballon-filled prostheses. Conduct pre-clinical phase by formulation of larger batches, determination of storage stability, and evaluation with animals of the dermal and ocular toxicity of the components of kits and the cured silphenylene elastomers. Conduct clinical phase by fabrication of custom prostheses for patients and follow-up by inspection, interview, and examination of patients & questionnaire of patient acceptance, wear characteristics, and shortcoming of the silphenylene prostheses.

IDENTIFICATION NUMBER..... N01 DE42438-05 FORSYTH DENTAL CENTER ORGANIZATION..... ADDRESS..... BOSTON MASSACHUSETTS INITIAL START DATE 07-01-74 EXPIRATION DATE..... 12-31-78 ORGANIZATION CODE..... 2705601 PROJECT DIRECTOR..... TAUBMAN, MARTIN A NIDR PROJECT OFFICER..... IKARI, NORMAN S NIDR CONTRACT SPECIALIST..... MULLEN, EDITH IMMUNIZATION W/S MUTANS ENZYMATIC ANTIGEN OF DENTAL CARIES TITIE: IN RODENTS

OBJECTIVES AND WORK SCOPE :

The primary objective of this proposed research is to determine if immunization of rats with certain enzymes, from cariogenic bacteria, presented in a fashion to give rise to salivary IqA antibody, wi11 result in effects on experimentally induced dental caries. The approach is to prepare crude enzyme antigens (CEA) from streptococci which have been shown to be cariogenic and to inject these antigens into the oral tissues of rats. After salivary and serum antibody response challenge is instituted with viable cariogenic S. mutans, the dental caries scores are determined and compared in immunized and control animals. Saliva and serum are examined for enzyme-inhibitory capacity of antibody, and oral tissues are examined for tissue antibody response as determined by fluorescent antibody techniques. A total of three experiments have been completed in conventional and gnotobiotic rats. In each of these experiments, animals immunized with CEA demonstrated lower dental caries scores and carious lesions than comparable sham-immunized animals.

IDENTIFICATION NUMBER	N01 DE42442-05
ORGANIZATION	WASHINGTON, UNIVERSITY OF
ADDRESS	SEATTLE WASHINGTON
INITIAL START DATE	07-01-74
EXPIRATION DATE	03-31-80
ORGANIZATION CODE	9087701
PROJECT DIRECTOR	ALVARES, OLAV
NIDR PROJECT OFFICER	FRAZIER, PAUL D
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: DETERMINATION ROLE NUTR	ITION EPITHELIUM ORAL MUCOUS

The objective of this research is to determine the influence of protein, calorie, and vitamin deficiences on oral mucous membranes in experimental animal model systems. Comparisons will be made between undernourished animals and those maintained on normal diets to determine the separate effects of chronic, progressive protein, calorie and vitamin deficiency on the health of the oral tissues. Tests conducted determine (1) cell turnover rates, (2) level of keratinization in keratinizing epithelium, (3) degree of alteration of metabolic processes (enzyme systems or protein synthesis), and (4) studies of basement membranes of the various epithelial linings.

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IDENTIFICATION NUMBER	N01 DE42444-04
ORGANIZATION	OREGON, UNIVERSITY OF
ADDRESS	PORTLAND OREGON
INITIAL START DATE	06-28-74
EXPIRATION DATE	07-15-79
ORGANIZATION CODE	6297007
PROJECT DIRECTOR	LU, KUO H
NIDR PROJECT OFFICER	BRUNELLE, JANET
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: EFFECT OF SPECIFIC METHO	DS OF FLUORIDES ADMIN ON CONTROLLING
CARIES	

This is a clinical trial designed to determine whether high-level, short-term application of fluoride is more efficacious than a low-level, long-term method. A comparison will be made between five-minute applications of acidulated phosphate fluoride gel (1.23% F) in custom-fitted trays for 10 consecutive shcool days under dental hygienist supervision and a one-minute use of fluoride mouthrinse (1.023% F) each school day for the duration of two school years. The comparative effectiveness of these two modes of application would be determined by the dental caries experience of study subjects.

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IDENTIFICATION NUMBER	N01 DE42446-06
ORGANIZATION	SOUTHERN RESEARCH INSTITUTE
ADDRESS	BIRMINGHAM ALABAMA
INITIAL START DATE	06-28-74
EXPIRATION DATE	12-31-79
ORGANIZATION CODE	7657001
PROJECT DIRECTOR	COWSAR, DONALD R
NIDR PROJECT OFFICER	MIRTH, DALE B
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: FLUORIDES RELEASING SYS	TEM FOR PROLONGED ORAL USE

The objective of this research project is to develop a fluoride-containing material that: will release fluoride at a constant predetermined linear rate for a period of at least six months without maintenence or adjustment; can be easily applied or attached in the mouth (attachment to a tooth or teeth by adhesive or orthodontic bands, or as part of a space maintainer, or a simple adhesive coating); can be completely and safely removed at any-time; and should contain materials that exhibit a very low order of toxicity in animals, are harmless to the teeth and harmless to and non- absorbable through the oral and gastrointestinal mucoas.

IDENTIFICATION NUMBER	N01 DE52449-06
ORGANIZATION	CONNECTICUT, UNIVERSITY OF, HLTH. C
ADDRESS	FARMINGTON CONNECTICUT
INITIAL START DATE	04-01-75
EXPIRATION DATE	06-30-80
ORGANIZATION CODE	1860150
PROJECT DIRECTOR	DOHERTY, NEVILLE
NIDR PROJECT OFFICER	SWANGO, PHILIP A
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: CLINICAL FIELD TRIAL TO	ASSESS COST EFFECT OF CARIES PREVENT
AGENTS	

Conduct a clinical field trial consisting of one control and seven treatment groups wherin the cost and clinical effectiveness of each of the following agents and procedures shall be assessed singly and in combination: Supervised topical fluoride applications; applications of bis-GMA pit and fissure sealants; and supervised mouthrinsing program with a fluoride solution.

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ORGANIZATION EMORY UNIVERSITY ADDRESS GEORGIA
ADDRESS GEORGIA
INITIAL START DATE 05-21-75
EXPIRATION DATE
ORGANIZATION CODE 2384501
PROJECT DIRECTOR MC CLURE, HAROLD M
NIDR PROJECT OFFICER PRATT, ROBERT M. JR.
NIDR CONTRACT SPECIALIST MULLEN, EDITH
TITLE: INDUCTION ORAL FACIAL MALFORMATIONS IN M RHESUS MONKEY

OBJECTIVES AND WORK SCOPE : The Contractor will conduct investigations pertaining to experimental induction of oral facial malformations in fetal rhesus monkeys; documentation of metabolism of administered drugs in pregnant animals and their detuses; and chromosomal

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evalution of pregnant animals and products of conception, following drug administration. He will establish a breeding colony of rhesus monkeys sufficient to provide 15 pregnancies; establish the menstrual cycles of the females and conduct a breeding program to insure a minimum of 15 timed pregnancies; administer specified compounds to the pregnant animals at various stages of gestation; and monitor effects of drug administration in both pregnant animals and their progeny.

IDENTIFICATION NUMBER	N01 DE52454-05
ORGANIZATION	TEXAS HEALTH SCI. CENTER, UNIVERSIT
ADDRESS	HOUSTON TEXAS
INITIAL START DATE	06-27-75
EXPIRATION DATE	06-26-79
ORGANIZATION CODE	0578417
PROJECT DIRECTOR	LEVY, BARNET M
NIDR PROJECT OFFICER	KAKEHASHI, SAMUEL
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: STUDY PERIO DISEASE IN	PATIENTS WITH ABNORMALITIES IN IMMUNI
SYSTEM	

The contractor proposes to study a minimum of 25 patients with known deficiencies of the immune system and their state of periodontal health shall be documented to determine if there is any correlation between these two phenomena. The contractor will characterize in detail the immune deficiencies through assay of cellular immune reponse, as well as inflammatory response, and to characterize the clinical periodontal disease entity according to currently acceptable periodontal disease indices.

IDENTIFICATION NUMBER	N01 DE52455-05
ORGANIZATION	OREGON, UNIVERSITY OF
ADDRESS	PORTLAND OREGON
INITIAL START DATE	06-27-75
EXPIRATION DATE	06-26-79
ORGANIZATION CODE	6297007
PROJECT DIRECTOR	DALGARD, DAN W
NIDR PROJECT OFFICER	KAKEHASHI, SAMUEL
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: STUDY OF PERIO DISEASE	ON PATIENTS WITH ABNORMALITIES OF THE
SYSTEM	

The contractor proposes to study a minimum of 25 patients with known deficiencies of the immune system and their state of periodontal health shall be documented to determine if there is any correlation between these two phenomena. The contractor will characterize in detail the immune deficiencies through assay of cellular immune reponse, as well as inflammatory response, and to characterize the clinical periodontal disease entity according to currently acceptable periodontal disease indices.

IDENTIFICATION NUMBER	N01 DE52456-05
ORGANIZATION	ALABAMA, UNIVERSITY OF
ADDRESS	BIRMINGHAM ALABAMA
INITIAL START DATE	06-20-75
EXPIRATION DATE	10-19-80
ORGANIZATION CODE	0556601
PROJECT DIRECTOR	MC GHEE, JERRY R
NIDR PROJECT OFFICER	IKARI, NORMAN S
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: SALIVARY IMMUNOGLOBULIN	A DEFICIENCY IN HUMANS RELATED TO
CARIES	

The Contractor proposes to study a population of more than 25 IgA deficient patients and appropriate controls to correlate the presence or absence of IgA and caries incidence. He will measure salivary immunoglobulins and factors such as lysozyme, lactoferrin, and peroxidase. Plaque will be collected and analyzed for the principal oral bacteria present. Plaque proteins will be studied from the standpoint of in sutu function-possible coating and/or aggregation of important plaque bacteria. He will correlate these findings with the clinical picture occurring in these patients, including past and present caries, and gingival and Periodontal Disease indices.

IDENTIFICATION NUMBER	NO1 DE52458-05
ORGANIZATION	HAZLETON LABORATORIES
ADDRESS	VIENNA VIRGINIA
INITIAL START DATE	06-27-75
EXPIRATION DATE	01-31-79
ORGANIZATION CODE	9640802
PROJECT DIRECTOR	DALGARD, DAN W
NIDR PROJECT OFFICER	BOWEN, WILLIAM H
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: DEVELOPMENT OF A NON-HU	

OBJECTIVES AND WORK SCOPE : The Contractor proposes to develop an animal model for the study of dental caries in the new world species, namely, the Saimirc sciureus species. Emphasis will be placed on designing a method which will induce caries rapidly and yet one in which the results will be applicable to the human disease. In addition to studying caries susceptibility in the feral-reared imported animal, breeding groups will be established to enable studies in the domestically reared infants.

IDENTIFICATION NUMBER	N01 DE52459-05
ORGANIZATION	CONNECTICUT, UNIVERSITY OF, HLTH. C
ADDRESS	FARMINGTON CONNECTICUT
INITIAL START DATE	06-30-75
EXPIRATION DATE	04-30-80
ORGANIZATION CODE	1860150
PROJECT DIRECTOR	MACKO, DOUGLAS
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: COMMUNITY CARIES PREVEN	TION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52460-05
DRGANIZATION	STATE UNIV. OF NEW YORK, STONY BROD
ADDRESS	ALBANY NEW YORK
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	5992612
PROJECT DIRECTOR	RIPA, LOUIS W
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: COMMUNITY CARIES PREVEN	TION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52461-05
ORGANIZATION	FORSYTH DENTAL CENTER
ADDRESS	BOSTON MASSACHUSETTS
INITIAL START DATE	06-30-75
EXPIRATION DATE	04-30-80
ORGANIZATION CODE	2705601
PROJECT DIRECTOR	DE PAOLA, PAUL F
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	KELLEY, GARY
TITLE: COMMUNITY CARIES PREVEN	TION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52462-04
ORGANIZATION	EASTMAN DENTAL CENTER
ADDRESS	ROCHESTER NEW YORK
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	2300901
PROJECT DIRECTOR	LEVERETT, DENNIS H.
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: COMMUNITY CARIES PREVENT	ION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	NO1 DE52463-04
ORGANIZATION	ALABAMA, UNIVERSITY OF
ADDRESS	BIRMINGHAM ALABAMA
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	0556601
PROJECT DIRECTOR	THOMAS, JOE P
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: COMMUNITY CARIES PREVEN	
ITTLE: CUMMUNITY CARLES PREVEN	ITTOM DEMONSTRATION TROOPEDTO

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52465-05
ORGANIZATION	WISCONSIN ST. DEPT. OF HLTH. SOCIAL
ADDRESS	MADISON WISCONSIN
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	9332801
PROJECT DIRECTOR	KRIPPENE, BETTY
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: COMMUNITY CARIES PREVENT	ION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are K-11 will be examined. DMF tooth and surface data treated, shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52466-04
ORGANIZATION	MICHIGAN DEPARTMENT OF PUBLIC HEALT
ADDRESS	LANSING MICHIGAN
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	5232601
PROJECT DIRECTOR	SZWEJDA, LOUIS F
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: COMMUNITY CARIES PREVENT	TION DEMONSTRATION PROJECTS

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OBJECTIVES AND WORK SCOPE :

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52467-04
ORGANIZATION	MONTANA STATE DEPT. OF HEALTH
ADDRESS	HELENA MONTANA
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	5434001
PROJECT DIRECTOR	TERRILL, JACK A
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: COMMUNITY CARIES PREVENT	TION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data Radiographs shall be determined with mirror and explore. will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	
ORGANIZATION	VIRGINIA COMMONWEALTH UNIVERSITY
ADDRESS	RICHMOND VIRGINIA
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
DRGANIZATION CODE	0353201
PROJECT DIRECTOR	FISHMAN, SHERWIN R
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	KELLEY, GARY
TITLE: COMMUNITY CARIES PREVEN	TION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52469-05
ORGANIZATION	INDEPENDENCE NEIGHBORHOOD COUNCILS
ADDRESS	INDEPENDENCE MISSOURI
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	1069301
PROJECT DIRECTOR	SCHAEFER, ROY H
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: COMMUNITY CARIES PREVENT	ION DEMONSTRATION PROJECTS

Establish and conduct a school based caries prevention demonstration program; report data on the cost effectivness of the program; develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with a 0.2 percent solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explorer. Costs and staff time for implementing and conducting the project will be recorded.

IDENTIFICATION NUMBER	N01 DE52470-05
ORGANIZATION	CALIFORNIA, UNIVERSITY OF, SAN FRAN
ADDRESS	SAN FRANCISCO CALIFORNIA
INITIAL START DATE	06-30-75
EXPIRATION DATE	04-30-80
ORGANIZATION CODE	0577508
PROJECT DIRECTOR	SILVERSTEIN, STEVEN
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: COMMUNITY CARIES PREVENT	FION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52471-05
ORGANIZATION	TEXAS HEALTH SCI. CENTER, UNIVERSIT
ADDRESS	HOUSTON TEXAS
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	0578417
PROJECT DIRECTOR	FRIEDMAN, LAWRENCE A
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: COMMUNITY CARIES PREVEN	TION DEMONSTRATION PROJECTS

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OBJECTIVES AND WORK SCOPE :

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each vear. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52472-05
ORGANIZATION	COLORADO STATE DEPARTMENT OF HEALTH
ADDRESS	DENVER COLORADO
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	1719501
PROJECT DIRECTOR	REGER, ROY H
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: COMMUNITY CARIES PREVEN	ITION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with a 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explorer. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52473-05
ORGANIZATION	ERIE COUNTY INC., RESEARCH FOR HEAL
ADDRESS	BUFFALO NEW YORK
INITIAL START DATE	06-30-75
EXPIRATION DATE	04-30-80
ORGANIZATION CODE	6917001
PROJECT DIRECTOR	BISSELL, G. DONALD
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: COMMUNITY CARIES PREVENT	ION DEMONSTRATION PROJECT

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall of weekly fluoride mouthrinsing with 0.2% solution consist of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are K-11 will be examined. DMF tooth and surface data treated, shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52474-04
ORGANIZATION	GEAUGA CO. GEN. HLTH. DIST. HLTH. D
ADDRESS	CHARDON OHIO
INITIAL START DATE	06-30-75
EXPIRATION DATE	04-30-80
ORGANIZATION CODE	1069501
PROJECT DIRECTOR	SHERMAN, CAROL
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: COMMUNITY CARIES PREVENT	ION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. Tf K-6 are treated, K-9 will be examined each year. If K-8 are K-11 will be examined. DMF tooth and surface data treated, shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	N01 DE52475-04
ORGANIZATION	HARVARD UNIVERSITY
ADDRESS	BOSTON MASSACHUSETTS
INITIAL START DATE	06-30-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	3212902
PROJECT DIRECTOR	DOGON, I. LEON
NIDR PROJECT OFFICER	MILLER, ANN
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: COMMUNITY CARIES PREVENT	ION DEMONSTRATION PROJECTS

Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated.

IDENTIFICATION NUMBER	NO1 DE52476-04
ORGANIZATION	TUFTS UNIVERSITY
ADDRESS	BOSTON MASSACHUSETTS
INITIAL START DATE	06-27-75
EXPIRATION DATE	03-31-80
ORGANIZATION CODE	8422704
PROJECT DIRECTOR	WHITE, GEORGE E
NIDR PROJECT OFFICER	FREW, RALPH A
NIDR CONTRACT SPECIALIST	KELLEY, GARY
TITLE: DEVELOPMENT & EVAL OF A	DIAGNOSTIC SYSTEM FOR EARLY DETECTION
CARIES	

"The Development and Evaluation of a Diagnostic System for the Early Detection of Dental Caries". This is a research and development of a valid clinical method for diagnosing early carious lesions in human teeth. This method will rely on clinical trials for its final evaluation with comparison made on the basis of caries development between groups differentially exposed to the test agent or procedure.

IDENTIFICATION NUMBER	N01 DE52478-05
DRGANIZATION	MICHIGAN, UNIVERSITY OF
ADDRESS	ANN ARBOR MICHIGAN
INITIAL START DATE	06-23-75
EXPIRATION DATE	06-22-80
ORGANIZATION CODE	5249701
PROJECT DIRECTOR	MC NAMARA, JAMES A
	CHRISTIANSEN, R L
NIDR PROJECT OFFICER	
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: MUSCLE REATTACHMENT AND	MIGRATION WITH OR WITHOUT OSSEOUS
SURGERY	

This project will provide for studies to determine changes in neuromuscular physiology and craniofacial function due to muscle reattachment, transplantation, and migration with or without osseous surgery, utilizing a young adult primate animal model system to identify and describe stages in muscle adaptation in two types of surgical procedures designed by the Contractor.

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IDENTIFICATION NUMBER	NO1 DE52484-05
ORGANIZATION	PENNSYLVANIA, UNIVERSITY OF
ADDRESS	PHILADELPHIA PENNSYLVANIA
INITIAL START DATE	06-27-75
EXPIRATION DATE	06-26-80
ORGANIZATION CODE	6463801
PROJECT DIRECTOR	YANKELL, SAMUEL L
NIDR PROJECT OFFICER	SHERN, ROALD J
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: CLINICAL SCREENING OF	ANTIPLAQUE AND ANTIMICROBIAL AGENTS

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OBJECTIVES AND WORK SCOPE : Clinical testing of potential antiplaque and antimicrobial agents. Agents shall be applied both singly and combination in vehicles such as mouthrinses and gels various regimens and durations. Test groups shall not consist of more than 50 subjects. All testing shell be short term, i.e. 1-16 weeks. CORE MEASUREMENTS - plaques extent; dry weight, ph; microflora, gingivitis. ELECTIVE MEASUREMENTS - thickness; biochemistry; cervicular flow photography, p0.

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IDENTIFICATION NUMBER	N01 DE62457-04
ORGANIZATION	PAN AMERICAN HEALTH ORGANIZATION
ADDRESS	WASHINGTON DISTRICT OF COLUMBIA
INITIAL START DATE	08-01-75
EXPIRATION DATE	12-31-78
ORGANIZATION CODE	6380201
PROJECT DIRECTOR	GILLESPIE, GEORGE W
NIDR PROJECT OFFICER	BOWEN, WILLIAM H
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: INVESTIGATION OF PLAQUE	WITH HIGH/LOW CARIES IN MEDELLIN
COLOMBIA, SA	

OBJECTIVES AND WORK SCOPE : The Contractor proposes to investigate the biochemical and microbial composition of plaque and saliva in two communities with high and low caries in Medellin, Colombia, South America.

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IDENTIFICATION NUMBER	N01 DE62479-04
ORGANIZATION	DYNAPOL
ADDRESS	PALA ALTO CALIFORNIA
INITIAL START DATE	04-10-76
EXPIRATION DATE	04-09-79
ORGANIZATION CODE	1160101
PROJECT DIRECTOR	CROSBY, GUY
NIDR PROJECT OFFICER	ROGERS, WILLIAM E
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: SYNTHESIS, CHARACTERIZA	TION, EVALUATION OF DEHYDROCHALCONE
ANALOGS	

The objective of this research is to synthesize, physicochemically characterize, and evaluate the sensory properties and stability of new dihydrochalcone analogs in a search for a superior sweetener of commercial utility possessing, as nearly as possible, a tast quality comparable to that of sucrose. Evaluation of the properties of the new sweetners shall include determination of purity, melting point, hygroscopicity, stability in the dry state, solubility in various solvents, sweetness ratings, and other sensory properties, and stability under a variety of conditions of manufacture, storage, and use.

IDENTIFICATION NUMBER	N01 DE62486-04
ORGANIZATION	JOHNS HOPKINS UNIVERSITY
ADDRESS	BALTIMORE MARYLAND
INITIAL START DATE	06-01-76
EXPIRATION DATE	05-31-80
ORGANIZATION CODE	4134401
PROJECT DIRECTOR	NEIBYL, JENNIFER
NIDR PROJECT OFFICER	CHRISTIANSEN, R L
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: INCIDENCE OF ORAL CLEFTS	OF FAMILIES BEARING CLEFT LIP
CHILDREN	

A study to determine the feasibility of studying high-risk mothers (mothers who have given birth to cleft children previously) with respect to potential enviormantal and metabolic etiological factors affecting their children prenatally and resulting in oral clefts. The final target of such research would be to identify a large-scale high-risk group of mothers and to reduce the risk by modifying prenatal circumstances. The first step in the development of a preventive program for congential cleft lip and palate will be to identify likely etiologic factors and explore a small population to determine the needs and objectives of a larger study.

IDENTIFICATION NUMBER	N01 DE62488-04
ORGANIZATION	STATE UNIV. OF NEW YORK, BUFFALO
ADDRESS	ALBANY NEW YORK
INITIAL START DATE	05-01-76
EXPIRATION DATE	10-31-79
ORGANIZATION CODE	5992614
PROJECT DIRECTOR	NISENGARD, RUSSELL J
NIDR PROJECT OFFICER	IKARI, NORMAN S
NIDR CONTRACT SPECIALIST	KELLEY, GARY
TITLE: IMMUNOLOGIC CROSS-REACT	IVITY OF ANTIGENS FROM ORAL
STREPTOCOCCI	

This research study shall be conducted to study the immunologic cross-reactivity of oral streptoccaal antigens with mammalian tissue and tissue compounds. The contractor shall be required to collect representative strains of oral streptococci. The contractor shall be required to obtain sera from rheumatic fever patients and heart tissues from autopsy of cases with rheumatic fever as a diagnosed component of their medical history. Delineate the streptoccal antigenic determinants responsible for any binding to tissue by extracting and fractionating, by suitable means, whole cells of the indicated immunoreactive streptoccci.

IDENTIFICATION NUMBER	N01 DE62491-04
ORGANIZATION	ALABAMA, UNIVERSITY OF
ADDRESS	BIRMINGHAM ALABAMA
INITIAL START DATE	06-28-76
EXPIRATION DATE	12-31-79
ORGANIZATION CODE	0556601
PROJECT DIRECTOR	SHIOTA, T
NIDR PROJECT OFFICER	IKARI, NORMAN S
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: USE OF MUTANTS OF CARIOG	SENIC STREPTOCOCCI TO PREVENT DENTAL
CARIES	

OBJECTIVES AND WORK SCOPE : The Contractor will select at least on strain from each of at least two different two different serotypes of S.multans to conduct a research study on the use of mutants of cariogenic streptococci to prevent dental caries. These strains should produce abundant glucan and should be proven to be cariogenic in rodents.

IDENTIFICATION NUMBER	N01 DE62493-04
ORGANIZATION	ABCOR, INC
ADDRESS	CAMBRIDGE MASSACHUSETTS
INITIAL START DATE	06-30-76
EXPIRATION DATE	08-14-79
ORGANIZATION CODE	9614001
PROJECT DIRECTOR	WILLIAMS, DAVID L
NIDR PROJECT OFFICER	ROUSSOS, GERASSIMOS
NIDR CONTRACT SPECIALIST	KELLEY, GARY
TITLE: ENZYMATIC PREVENTION AN	D CONTROL OF DENTAL PLAQUE FORMATION

A study designed to develop an enzyme mixture which effectively and safely prevents plaque accumulation and dental caries. Conduct a biphasic screening program involving a preliminary in vitro evaluation on human dental plaque followed by testing in the rat and leading to the formulation of an enzyme mixture which effectively and safely prevents plaque and dental caries. The first phase will specifically involve the systematic determination of composition of the enzyme mixture which is most the effective in vitro in dispursing and/or solubilizing: freshly collected human dental pellicle and supragingival plaque; and plaque formed on human tooth crowns incubated in vitro in a growth medium consisting of freshly collected human saliva innoculated with Strep. mutans. Determination of the in vivo antiplaque and anticaries effectiveness of the enzyme mixture will be conducted at Tufts University, using the National Caries Program's standard Norway rat screening procedure.

IDENTIFICATION NUMBER	NO1 DE62494-04
ORGANIZATION	VIRGINIA COMMONWEALTH UNIVERSITY
ADDRESS	RICHMOND VIRGINIA
INITIAL START DATE	06-30-76
EXPIRATION DATE	06-29-80
ORGANIZATION CODE	0353201
PROJECT DIRECTOR	FREER, RICHARD J
NIDR PROJECT OFFICER	SCHIFFMANN, E
NIDR CONTRACT SPECIALIST	KELLEY, GARY
TITLE: EVALUATION OF SMALL SY	NTHETIC PEPTIDES CHEMOATTRACTANTS FOR
LEUCOCYTES	

LEUCOCYTES

OBJECTIVES AND WORK SCOPE :

"Evaluation of Small Synthetic Peptides as Chemottractants for Leucocytes and their Application to Periodontal Disease" is a study which will rpovide for the synthesis of 20 or more formylmethionyl peptides or related compounds per year. The synthetic procedure will involve well-developed methods with few side reactions. The purification of the compounds should be accomplished with simple recrystallization and ion-exchange methods. The compounds then should be thested for chemotactic activity, effects fo increasing molecular size, presence or absence of N-acylation, esterification or amidation of carboxyl groups.

IDENTIFICATION NUMBER	N01 DE62496-04
ORGANIZATION	TEXAS HEALTH SCI. CENTER, UNIVERSIT
ADDRESS	HOUSTON TEXAS
INITIAL START DATE	06-30-76
EXPIRATION DATE	09-30-79
ORGANIZATION CODE	0578417
PROJECT DIRECTOR	FRIEDMAN, LAWRENCE A
NIDR PROJECT OFFICER	SWANGO, PHILIP A
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: TO EVALUATE ORAL RINSING	G PREVENT DENTAL CARIES IN CHILDREN

The Contractor proposed to design and implement a three year longtiudinal clinical trial to study the effect of supervised oral rinsing with a sodium monofluorophosate mouthrinse on preventing dental caries in children. A population of approximately 900 subjects from an area that has low fluoride in its drinking water will be utilized.

IDENTIFICATION NUMBER	N01 DE62497-04
ORGANIZATION	MAYO FOUNDATION
ADDRESS	ROCHESTER MINNESOTA
INITIAL START DATE	09-30-76
EXPIRATION DATE	09-29-80
ORGANIZATION CODE	4976101
PROJECT DIRECTOR	DYCK, PETER J
NIDR PROJECT OFFICER	DUBNER, RONALD
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: ORAL-FACIAL EVALUATION	OF PREVIOUSLY UNTREATED TYPES OF
NEURALGIA	

The contractor plans to establish whether an abnormality of cutaneous touch-pressure sensation, of pallesthesia, of thermal discrimination and of nociception can (or cannot) be demonstrated in trigeminal neuralgia and in atypical facial neuralgia; compare the type of abnormality of sensatation is found in trigeminal neuralgia and in atypical facial neuralgia; determine whether morphometric and pathologic methods, of Cr V nerve twigs and ganglion, morphologic abnormality can be demonstrated in trigeminal neuralgia.

IDENTIFICATION NUMBER	NO1 DE62498-04
ORGANIZATION	CALIFORNIA, UNIVERSITY OF, SAN FRAN
ADDRESS	SAN FRANCISCO CALIFORNIA
INITIAL START DATE	09-30-76
EXPIRATION DATE	03-31-79
ORGANIZATION CODE	0577508
PROJECT DIRECTOR	NEWBRUN, ERNEST
NIDR PROJECT OFFICER	TOWNSLEY, JOHN D.
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: DIETARY HABITS DENTAL	PLAQUE COMPOSITION FRUCTOSE INTOLERANT
PATIENTS	

Study of a population of patients with a confirmed diagnosis of fructose intolerance from the standpoint of dietary intake, oral hygeine, and dental pathology. The microbiology of dental plaque from specific dental sites of these subjects will be investigated & particular attention will be given to dental plaque levels of S, mutans, S, sanguis and Lactobacilli. In addition, the concentration of protein, hexose, ketohexose, calcium, phosphorus, magnesium and fluoride in these plaque specimens will be assayed. The glucose metabolism of the plaque specimens will be investigated from the standpoint of levels and types of organic acids produced and levels of selected enzymes present.

IDENTIFICATION NUMBER	N01 DE72400-03
ORGANIZATION	BAYLOR COLLEGE OF MEDICINE
ADDRESS	HOUSTON TEXAS
INITIAL START DATE	09-01-77
EXPIRATION DATE	08-31-80
ORGANIZATION CODE	0481201
PROJECT DIRECTOR	PEAVY, DUANE L
NIDR PROJECT OFFICER	FRAZIER, PAUL D
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: IMMUNOPATHOGENESIS OF	RECURRENT APHTHOUS STOMATITIS &
BECHET'S SYNDROME	

This project is a study into the immunopathogenesis of Recurrent Aphthous Stomatitis and Behcet's Syndrome, which will include: measurement of in vitro immune responsiveness of RAS and BS lymphocytes to oral mucosal antigens; determination of tissue specificity of lymphocyte-epithelial cell interactions; investigation of possible bacterial causes of BAS, paritcularly Streptococcus sanguis; and determination as to whether lymphocytes of RAS and BS patients are thymusderived (T) or bone marrow-derived (B). The objectives are: to extend and attempt to confirm previous studies as well as to include Behcet's disease, and to determine whether or not a significant correlation exists between the immunological events observed during each exacerbation and whether or not the degree of reactivity correlates with the severity of the disease.

IDENTIFICATION NUMBER	N01 DE72401-03
ORGANIZATION	ILLINOIS, UNIVERSITY OF
ADDRESS	CHICAGO ILLINOIS
INITIAL START DATE	09-01-77
EXPIRATION DATE	02-29-80
ORGANIZATION CODE	0577703
PROJECT DIRECTOR	SADOWSKY, CYRIL
NIDR PROJECT OFFICER	NISWANDER, JERRY D.
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: LONG-TERM EFFECTS OF OF	RTHODONTIC TREATMENT

Evaluate the long-term effects of orthodontic treatment on the periodontal tissues, occlusal function, and tempo-mandibular joint. Also, attempt to identify factors related to the original malocclusion, treatment rendered, and post-treatment stability which may have an adverse effect on long-term and health.

IDENTIFICATION NUMBER	N01 DE72402-03
ORGANIZATION	TEXAS HEALTH SCI. CENTER, UNIVERSIT
ADDRESS	HOUSTON TEXAS
INITIAL START DATE	07-15-77
EXPIRATION DATE	04-14-79
ORGANIZATION CODE	0578417
PROJECT DIRECTOR	BROWN, LEE R
NIDR PROJECT OFFICER	IKARI, NORMAN S
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: STREPTOCOCCUS MUTANS IN	PATIENTS WITH RADIATION INDUCED
XEROSTOMIA	

This contracto represents new work utilizing saliva and serum samples collected over five years during performance of contract NO1-DE-12377 with the Univ. of Texas. The examinations of saliva and serum for specific antibody activity of any kind was not done under this contract. However, saliva and serum samples of 42 xerostomia patients are still avilable and will be used for proposed study to measure with radiation-induced xerostomia. The Government envisions a period of performance for one year.

IDENTIFICATION NUMBER	N01 DE72403-03
ORGANIZATION	CASE WESTERN RESERVE UNIVERSITY
ADDRESS	CLEVELAND OHIO
INITIAL START DATE	07-11-77
EXPIRATION DATE	07-01-79
ORGANIZATION CODE	0218601
PROJECT DIRECTOR	CAPLAN, ARNOLD I
NIDR PROJECT OFFICER	HASCALL, VINCENT C
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: BIOSYNTHESIS OF CARTILA	GE PROTEOGLYCANS BY CHICK LIMB GROWN
IN VITRO	

The work called for in this contract will involve the preparation of radieistopically labeled proteoglycans from chick limb bud chondrocyte cultures. The proteoglycans will be labeled according to different pulse and pulse for further in-house experimentation. The chick limb bud cultures will be chondrocyte cultures can be obtained which represent different times in development. The methods used for the preparation of the cultured chondrocytes of the proteoglycans obtained from them are established and have been described in the literature.

IDENTIFICATION NUMBER	NO1 DE72404-03
ORGANIZATION	FLORIDA, UNIVERSITY OF
ADDRESS	GAINESVILLE FLORIDA
INITIAL START DATE	08-15-77
EXPIRATION DATE	08-14-80
ORGANIZATION CODE	0513806
PROJECT DIRECTOR	LOTZKAR, S.
NIDR PROJECT OFFICER	SWANGO, PHILIP A
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: CONCENTRATION & FREQUEN	CY OF SODIUM FLORIDE MOUTHRINSE ON
CARIES	

Test the effectiveness in reducing new caries increment over a three year period of: a 0.5% sodium fluoride mouthrinse (0.0225% F) used daily in school; a 0.2% sodium fluoride (0.09% F) mouthrinse used daily in school; a 0.5% sodium fluoride mouthrinse used weekly in school; and a 0.2% sodium fluoride mouthrinse used weekly in school. To compare the effectiveness of the different concentrations and frequencies.

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IDENTIFICATION NUMBER	N01 DE72405-03
ORGANIZATION	LITTON BIONETICS
ADDRESS	KENSINGTON MARYLAND
INITIAL START DATE	08-01-77
EXPIRATION DATE	07-31-80
ORGANIZATION CODE	0686503
PROJECT DIRECTOR	GARD, ELIZABETH A.
NIDR PROJECT OFFICER	HOOKS, JOHN
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: ATTEMP SJOGREN'S SYNDRO	ME, RECURRENT APHTHOUS ULCERS &
BECHET'S SYN	

Litton Bionetics will provide testing for anti-nuclear antibody by fluorescent antibody and readioimmunodiffusion assays ten rhesus monkeys of less than one year of age. Ten animals negative to both tests for antibody will be chosen, all of which are negative to a tuberculin skin test using Old Tuberculin. These animals will be inoculated intracerebrally, intraperitoneally, intravenously, and subcutaneously as directed by the Project Officer with preparations of appropriate biopsy specimens supplied by NIDR. These animals will be maintained for two years and observed daily for early signs of clinical disease. If an animal should develop any disease, NIDR will be notified immedately. A copy of the clinical records of each animal for each four-month period will be supplied to NIDR.

IDENTIFICATION NUMBER	NO1 DE72406-03
ORGANIZATION	CHICAGO, UNIVERSITY OF
ADDRESS	CHICAGO ILLINOIS
INITIAL START DATE	08-15-77
EXPIRATION DATE	03-31-79
ORGANIZATION CODE	1413601
PROJECT DIRECTOR	NEWCOMB, RICHARD W.
NIDR PROJECT OFFICER	IKARI, NORMAN S
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: PRODUCTION OF SPECIFIC	ANTISERA ANTI-RAT IGA AND S-IGA AND
ANTI-MONKEY	

OBJECTIVES AND WORK SCOPE : Produce high titer antisera to rat or monkey proteins with specificity as follows: goat anti-IgA will react with IgA, but not (by tests defined) with IgG, IgM, or other serum or exocrine fluid proteins; goat anti-a chain will react with IgA, but not with IgG, IgM, immunoglobulin light chains, or other serum or exocrine fluid proteins; goat anti-SIGA will react with IgA from serum and exocrine sources and probably with SC, but will not react with IgG, IgM, immunoglobulin light chains, or orhter colostral or salivary proteins; goat anti-IgM will react with IgM, but not with IgG, IgA, or other serum proteins; and goat anti-u chain will react with IgM, but not with IgG, IgA, immunoglobulin light chains or other serum proteins.

IDENTIFICATION NUMBER	N01 DE72407-03
ORGANIZATION	EASTMAN DENTAL CENTER
ADDRESS	ROCHESTER NEW YORK
INITIAL START DATE	09-30-77
EXPIRATION DATE	09-30-80
ORGANIZATION CODE	2300901
PROJECT DIRECTOR	LEVERETT, DENNIS H.
NIDR PROJECT OFFICER	SWANGO, PHILIP A
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: EVALUATE TOOTH-CLEANING	PRIOR TO WEEKLY RINSING W/DILUTE
SOLUTION	

OBJECTIVES AND WORK SCOPE : This project is for a longitudinal clincial research study in which the effect upon dental caries of weekly mouthrinsing with a 0.2% sodium fluoride solution without prior cleaning of the teeth will be compared with the effect of rinsing preceded by cleaning of the teeth, either with a toothbrush alone or with a toothbrush and dental floss.

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IDENTIFICATION NUMBER	N01 DE72408-03
ORGANIZATION	STATE UNIV. OF NEW YORK, BUFFALO
ADDRESS	ALBANY NEW YORK
INITIAL START DATE	09-01-77
EXPIRATION DATE	08-31-80
ORGANIZATION CODE	5992614
PROJECT DIRECTOR	STINSON, MURRAY W.
NIDR PROJECT OFFICER	IKARI, NORMAN S
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: SEARCH CROSS-REACTION A	NTIGENS TO ACIDOGENIC BACTERIA HUMAN
ORAL FLORA	

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A study to search for antigens from non-pathogenic bacteria which cross-react with human oral strains of acidogenic streptococci, lactobacilli, and Actinomyces. Such antigens, if found, might afford more suitable alternative components of anti-caries vaccines than cariogenic and acidogenic bacteria and their products.

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IDENTIFICATION NUMBER	NO1 DE72409-03
ORGANIZATION	EASTMAN DENTAL CENTER
ADDRESS	ROCHESTER NEW YORK
INITIAL START DATE	09-30-77
EXPIRATION DATE	09-29-80
ORGANIZATION CODE	2300901
PROJECT DIRECTOR	CURZON, M.E.J.
NIDR PROJECT OFFICER	KINGMAN, ALBERT
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: STRONTIUM, LITHIUM & FLU	ORINE IN VITRO FORMATION OF PLAQUE IN
RATS	

OBJECTIVES AND WORK SCOPE : Determine the in vitro effects of various levels of strontium, lithium, and fluorine, both singly and in combination, on the physicochemical, microbiological, and biochemical parameters which are known or thought to contribute significantly to dental plaque formation and activity: adsorption of salivary proteins to hydroxyapatite; sorption of bacteria to hydroxyapatite; bacterial saccharides; bacterial agregation; and synthesis and breakdown of extraceliular polysaccharides. Also, determine the prenatal, preeruptive, and posteruptive effects of various levels of strontium, lithium, and fluorine on plaque formation and caries development in the rat.

IDENTIFICATION NUMBER	N01 DE72410-03
ORGANIZATION	STATE UNIV. OF NEW YORK, BUFFALO
ADDRESS	ALBANY NEW YORK
INITIAL START DATE	09-30-77
EXPIRATION DATE	10-31-79
ORGANIZATION CODE	5992614
PROJECT DIRECTOR	BEUTNER, ERNST H.
NIDR PROJECT OFFICER	ROBRISH, STANLEY
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: APPLICATION FLUORESCENT	ANTIBODY METHODS ORAL MICROORGANISMS
IN CARIES	

This project represents Phase I of a two phase study of the application of fluorescent antibody methods to determination of the etiology of dental caries. In this phase, the contractor will prepare and test fluorescent antibody reagents for fourteen different microorganisms. He will also develop and test the feasibility of methodology, both laboratory and clinical, to be used in the longitudinal study, which will be negotiated as Phase II after the successful completion of Phase I.

IDENTIFICATION NUMBER	N01 DE72411-03
ORGANIZATION	APPLIED MANAGEMENT SCIENCES
ADDRESS	SILVER SPRING MARYLAND
INITIAL START DATE	09-30-77
EXPIRATION DATE	09-30-80
ORGANIZATION CODE	9643101
PROJECT DIRECTOR	SKINNER, DOUGLAS E.
NIDR PROJECT OFFICER	SWANGD, PHILIP A
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: ACIDULATED PHOSPHATE-FLU	JORIDE USED DAILY AS TABLET OR
SOLUTION	

OBJECTIVES AND WORK SCOPE : This project is for a longitudinal clinical trial to determine the effect on dental caries of neutral sodium fluoride (NaF) and acidulated phosphate-fluoride (APF) when each is used as a tablet and as a solution. The study population will comprise approximately 1,625 school children, 12-14 years old, who reside in a community where the drinking water contains less than 0.3 ppm fluoride and the school population is relatively stable.

IDENTIFICATION NUMBER	N01 DE72499-03
ORGANIZATION	STATE UNIV. OF NEW YORK, BUFFALO
ADDRESS	ALBANY NEW YORK
INITIAL START DATE	03-14-77
EXPIRATION DATE	06-13-80
ORGANIZATION CODE	5992614
PROJECT DIRECTOR	ALBINO, JUDITH E
NIDR PROJECT OFFICER	HAUSCH, GEORGE H
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: DEV. OF METHODS FOR BEHA	VIORAL MEASUREMENTS RELATED TO
MALOCCLUSION	

Develop new and meaningful methods for objective and standardized determination of the impact of malocclusion and its treatment. This first phase is specifically to determine whether it is feasible to develop a behavioral and dental instrument that will measure the impact of malocclusion on the individual. Such an instrument is to be pretested on a population of one hundred families with eighth or ninth graders not undergoing or planning orthodontic treatment and fifty families with children who are planning orthodontic treatment. A revised instrument will then be field-tested on another similar population of 150 families.

IDENTIFICATION NUMBER	N01 DE82412-02
ORGANIZATION	INNSBRUCK, UNIVERSITY OF
ADDRESS	INNSBRUCK
INITIAL START DATE	01-16-78
EXPIRATION DATE	01-15-79
ORGANIZATION CODE	3623301
PROJECT DIRECTOR	WICK, GEORGE
NIDR PROJECT OFFICER	MARTIN, GEORGE R.
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: IMMUNOFLUORESCENT ID OF	BASEMENT MEMBRANES WITH ANTISERA
NEWLY COLLAGEN	

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Perform indirect immunofluorescent localization of reactive structures with specific antibodies, utilizing antibodies against: purified tumor basement membrane collagen; type I procollagen; type III procollagen; and fibrinogen or some other noncollagenous, nonconnective tissue protein.

IDENTIFICATION NUMBER	N01 DE82413-02
ORGANIZATION	EASTMAN DENTAL CENTER
ADDRESS	ROCHESTER NEW YORK
INITIAL START DATE	09-29-78
EXPIRATION DATE	09-28-80
ORGANIZATION CODE	2300901
PROJECT DIRECTOR	POLSON, ALAN M.
NIDR PROJECT OFFICER	NISWANDER, JERRY D.
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: LONG-TERM EFFECTS OF OR	THODONTIC TREATMENT

The Contractor will design and conduct a two year study to evaluate the condition of the teeth, supporting structures (gums and bone), and occlusion (bite) of those who have had orthodontic treatment and to compare them with those who have not had orthondontic treatment. A study population of 100 or more patients who have completed full orthodontic treatment more than 10 years ago will be assembled. A suitable control group will also be obtained. The periodontal and general oral health and functional status of the study and control groups will be evaluated usind various clinical examinations and measurements and radiographic techniques.

IDENTIFICATION NUMBER	NO1 DE82414-02
ORGANIZATION	MAYO FOUNDATION
ADDRESS	ROCHESTER MINNESOTA
INITIAL START DATE	09-30-78
EXPIRATION DATE	09-29-80
ORGANIZATION CODE	4976101
PROJECT DIRECTOR	ROGERS, ROY S.
NIDR PROJECT OFFICER	FRAZIER, PAUL D
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: IMMUNOPATHOGENESIS OF	RECURRENT APTHOUS STOMATITIS &
BEHCET'S SYNDROME	

OBJECTIVES AND WORK SCOPE : This project is a study into the immunopathogenesis of Recurrent Aphthous Stomatitis (RAS) and Behcet's Syndrome (BS) to measure in vitro the immune responsiveness of lymphocytes from RAS and BS patients in relation to the severity and stages of the disease, determine if peripheral blood lymphocytes from RAS and BS patients are responsive to oral epithelial antigens and S sanguis antigensand determine and BS patients whether lymphocytes of RAS are thymus-derived (T) or bone marrow-derived (B). The objectives of the present solicitation are to extend previous studies and to include Behcet's disease, and to determine whether or not a significant correlation exists between the immunological events observed during each exacerbation and whether or not the degree of reactivity correlates with the severity of the disease.

IDENTIFICATION NUMBER	N01 DE82415-02
DRGANIZATION	CALIFORNIA, UNIVERSITY OF, SAN FRAN
ADDRESS	SAN FRANCISCO CALIFORNIA
INITIAL START DATE	09-30-78
EXPIRATION DATE	09-29-80
ORGANIZATION CODE	0577508
PROJECT DIRECTOR	GREENSPAN, JOHN S.
NIDR PROJECT OFFICER	FRAZIER, PAUL D
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: IMMUNOPATHOGENESIS OF	RECURRENT APTHOUS STOMATISIS &
BEHCET'S SYNDROME	

Study the immunopathogenesis of recurrent aphthous stomatitis (RAS) and behcet's syndrome (BS) to: measure in vitro the immune responsiveness of lymphocytes from RAS and BS patients in relation to the severity and stages of the disease; determine if peripheral blood lymphocytes from RAS and BS patients are responsive to oral epithelial antigens and S. sanguis antigens; and determine whether lymphocytes of RAS and BS patients are thymus-derived (T) or bone marrow-derived (B). The present objectives are to: extend previous studies and include Behcet's disease; and determine whether or not a significant correlation exists between the immunological events observed during each exacerbation and whether or not the degree of reactivity correlates with the severity of the disease. IDENTIFICATION NUMBER..... NO1 DE82416-02 TEXAS HEALTH SCI. CENTER, UNIVERSIT ORGANIZATION..... TEXAS ADDRESS..... HOUSTON INITIAL START DATE..... 09 - 30 - 78EXPIRATION DATE..... 09-29-81 ORGANIZATION CODE..... 0578417 PROJECT DIRECTOR..... FRIEDMAN, LAWRENCE A NIDR PROJECT OFFICER..... SWANGO, PHILIP A NIDR CONTRACT SPECIALIST..... MULLEN, EDITH TITLE: EFFECT OF DAILY MOUTHRINSING WITH STANNOUS FLUORIDE OR SODIUM FLUORIDE

OBJECTIVES AND WORK SCOPE : The Contractor will implement a 3-year longitudinal clinical trial to study the effects of mouthrinsing with stannous fluoride and sodium fluoride upon the development of dental caries, dental plaque, gingivitis, and extrinsic tooth staining. A test population of approximately 500 students will be utilized, one half of the subjects rinsing once a day in school with 10 ml. of a 0.1% solution of stannous fluoride (SnF-2) and the other half rinsing once a day in school with 10 ml. of a 0.05% solution of sodium fluoride (NaF).

IDENTIFICATION NUMBER	N01 DE82417-02
ORGANIZATION	EASTMAN DENTAL CENTER
ADDRESS	ROCHESTER NEW YORK
INITIAL START DATE	09-30-78
EXPIRATION DATE	09-29-81
ORGANIZATION CODE	2300901
PROJECT DIRECTOR	LEVERETT, DENNIS H.
NIDR PROJECT OFFICER	
NIDR CONTRACT SPECIALIST	
TITLE: EFFECT OF DAILY MOUTHRIN	
SODIUM FLUORIDE	

OBJECTIVES AND WORK SCOPE : The Contractor will implement a 3-year longitudinal clinical trial to study the effects of mouthrinsing with stannous fluoride and sodium fluoride upon the development of dental caries, dental plaque, gingivitis, and extrinsic tooth staining. A test population of approximately 500 students will be utilized, one half of the subjects rinsing once a day in school with 10 ml. of a 0.1% solution of stannous fluoride (SnF-2) and the other half rinsing once a day in school with 10ml. of a 0,05% solution of sodium fluoride (NaF). IDENTIFICATION NUMBER N01 DE92418-01 ORGANIZATION..... AMERICAN TYPE CULTURE COLLECTION ADDRESS..... ROCKVILLE MARYLAND INITIAL START DATE..... 12-01-78 EXPIRATION DATE 11 - 30 - 79ORGANIZATION CODE..... 0397101 PROJECT DIRECTOR..... GHERNA, ROBERT L. NIDR PROJECT OFFICER..... KRICHEVSKY, MICAH I. NIDR CONTRACT SPECIALIST..... MULLEN, EDITH CHARACTERIZATION & IDENTIFICATION OF PLEOMORPHIC ORAL TITLE: BACTERIA

OBJECTIVES AND WORK SCOPE:

The contractor will establish a set of well authenticated strains of various genera of orla microorganisms which will be available for distribution to oral microbiologists; compare results of various common media and methods for assessing the same properties; build a data base describing both authenticated laboratory strains and fresh clinical isolates; and construct and test a probability system for identificaiton of plemorphic bacteria from the oral cavity.

IDENTIFICATION NUMBER	N01 DE92419-01
ORGANIZATION	STATE UNIV. OF NEW YORK, STONY BROO
ADDRESS	ALBANY NEW YORK
INITIAL START DATE	01-15-79
EXPIRATION DATE	01-01-80
ORGANIZATION CODE	5992612
PROJECT DIRECTOR	RIPA, LOUIS W.
NIDR PROJECT OFFICER	SWANGD, PHILIP A
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: EFFECT OF PRIOR TOOTHCL	EANING ON EFFICACY OF SEMI-ANNUAL
FLUORIDE TREAT	

This procurement is for the conduct of a longitudingal study to assess the effect of prior toothcleaning upon the anti-caries efficacy of semi-annual professionally applied topical fluoride treatments. The proposed study will provide a comparison of the efficacy of semi-annual professionally administered APF gel treatments when preceded by either a conventional pumice prophylaxis, self-cleaning of the teeth by subjects using a toothbrush and dental floss, or no tooth cleaning.

Three study groups will be established, each containing approximately one-third of the subjects at the beginning of the study. Subjects will be randomly assigned to groups. Subjects in Group I will receive semi-annually a professional application of acidulated phosphate fluoride contains 1.23% fluoride and has a pH of qel that approximately 3.0. Each gel application will be preceded by a thorough dental prophylaxis. Calculus will be removed as necessary. Group II will receive semi-annual fluoride gel applications, clean their own teeth with a toothbrush, dentifrice, and dental floss. A professional prophylaxis will not be administered. Subjects in Group III will receive semi-annual fluoride gel treatments as described for Groups I and II, except that no toothcleaning of any kind will be performed prior to treatment.

IDENTIFICATION NUMBER	N01 DE92420-01
ORGANIZATION	MICROBIOLOGICAL ASSOCIATES
ADDRESS	BETHESDA MARYLAND
INITIAL START DATE	05-01-79
EXPIRATION DATE	04-30-80
ORGANIZATION CODE	000000
PROJECT DIRECTOR	DINOWITZ, MARSHALL
NIDR PROJECT OFFICER	JENSON, ALFRED B.
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: SEARCH FOR DIABETOGENIC	VIRUSES

OBJECTIVES AND WORK SCOPE :

Provide services for a two-part screening procedure for detecting diabetogenic viruses. An estimated forty candidate diabetogenic viruses (provided by the Government) will be screened for their capacity to alter glucose homeostasis by infecting pancreatic islet cells of mice and rats. Results will be tabulated on data sheets and provided to the Government.

IDENTIFICATION NUMBER	N01 DE92421-01
ORGANIZATION	WESTAT, INC.
ADDRESS	ROCKVILLE MARYLAND
INITIAL START DATE	04-15-79
EXPIRATION DATE	05-30-80
ORGANIZATION CODE	9611701
PROJECT DIRECTOR	MCKENNA, THOMAS W
NIDR PROJECT OFFICER	MILLER, ANN J.
NIDR CONTRACT SPECIALIST	KELLEY, GARY
TITLE: SURVEY OF DENTAL CARIES	PREVALENCE IN SCHOOL CHILDREN
THROUGHOUT THE US	

OBJECTIVES AND WORK SCOPE : Plan and conduct the gathering of data for a survey of the prevlence of dental caries among school aged children in the continental United States. Develop and utilize a probability sample according to NIDR specifications of children in grades Kindergarten through twelve (K-12). Conduct examinations for dental caries, gingivitis, and need for dental treatment on children in randomly selected classrooms; record ther residence history; obtain and record the fluoride content of their drinking water; and provide these data to the NIDR. Examinations will be conducted during the 1979-1980 school year.

IDENTIFICATION NUMBER	N01 DE92422
ORGANIZATION	COLUMBIA UNIVERSITY
ADDRESS	NEW YORK NEW YORK
INITIAL START DATE	09-27-79
EXPIRATION DATE	09-26-80
ORGANIZATION CODE	0000000
PROJECT DIRECTOR	ELLISON, SOLON A
NIDR PROJECT OFFICER	IKARI, NORMAN S.
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: DENTAL PLAQUE AND SALIVA	FROM GASTRIC INTUBATED PATIENTS

OBJECTIVES AND WORK SCOPE : Investigate a minimum of 25 gastric-intubated patients to perform detailed analysis of the microbiological, immunological, and biochemical constituents in dental plaque and saliva. Control subjects will be an equivalent number of age-matched volunteers who are staff, students, or patients at the Columbia-Presbyterian Medical Center. Samples will be taken from plaque which will be allowed to develop for four days after prophylaxis. Saliva samples will be collected after the initial cleaning prior to plaque accumulation.

IDENTIFICATION NUMBER	N01 DE92423-00
ORGANIZATION	MINNESOTA, UNIVERSITY OF
ADDRESS	ST. PAUL MINNESOTA
INITIAL START DATE	09-29-79
EXPIRATION DATE	09-28-80
ORGANIZATION CODE	5365601
PROJECT DIRECTOR	SINGER, LEON
NIDR PROJECT OFFICER	FRAZIER, PAUL D
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: MAINTENANCE OF A SPECIA	L MOUSE COLONY FOR FLUORIDE RESEARCH

OBJECTIVES AND WORK SCOPE : Maintain a special mouse colony for fluoride research for the purpose of providing animals to qualified investigators. The animals will live on a defined fluoride intake (high and low levels) for at least five years, or approximately ten generations.

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IDENTIFICATION NUMBER	Y01 DE40014-06
ORGANIZATION	VETERANS ADMINISTRATION HOSPITAL
ADDRESS	EAST ORANGE NEW JERSEY
INITIAL START DATE	01-01-74
EXPIRATION DATE	09-30-79
ORGANIZATION CODE	0481053
PROJECT DIRECTOR	MASHBERG, ARTHUR
NIDR PROJECT OFFICER	FRAZIER, PAUL D
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: TECHNIQUES FOR EARLY DET	ECTION OF ORAL CARCINOMA

Based on the last six months report 19 patients were added to the study group with asymptomatic oral cancer. In this group 13 lesions were found to be invasive and 6 were found to be in-situ. There are now a total of 94 asymptomatic carcinomas consisting of 75 invasive lesions and 19 in-situ lesions. During the last six months, 3 additional lesions were found to be dysplastic; this aroup now consists of 11 patients with 12 dysplastic lesions. In months 271 non-oral cancer control patients have the past six been selected and interviewed. Of this group 161 or 59.4% are heavy drinkers (drink 6 or more whiskey equivalents per day) as compared to the study population of oral cancer patients in which 91.8% are heavy drinkers. These early data suggest that it may be possible to separate out the significance of drinking in the oral cancer patients. Using the direct application of toluidine blue in the 19 new cases, has yielded only one false negative for 5.3 false negative rate. In evaluating the toluidine blue а mouth rinse versus the direct application of toluidine blue the results to date are that 42 of 43 lesions stained positively with application and 42 of 43 stained positively with the rinse. Of the 81 cancer cancer patients found since the prospective study began in 1974, 48 are still being followed closely; an additional 7 have been difficult to follow but attempts are being made to retrieve them to a regular scheduling pattern. To date the study has resulted in establishing 1) the identification criteria for asymptomatic oral carcinoma, 2) that a very high percent of these lesions are already invasive and 3) that over 90% of those with oral carcinoma are heavy drinkers.

IDENTIFICATION NUMBER	Y01 DE40015-06
ORGANIZATION	U.S. NATIONAL BUREAU OF STANDARDS
ADDRESS	WASHINGTON DISTRICT OF COLUMBIA
INITIAL START DATE	07-01-73
EXPIRATION DATE	09-30-79
ORGANIZATION CODE	5644902
PROJECT DIRECTOR	CASSEL, JAMES M
NIDR PROJECT OFFICER	REESE, JOYCE A
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: INTERACTIONS OF ORAL ST	RUCTURES & RESTORATIVE MATERIALS

Collaboratively with the American Dental Association and the military dental service research is in progress to develop adhesive restorative dental materials, improve composite more effective techniques for use of restorations and develop base metal alloys in crown and bridge application. The basic approach to developing adhesion between restoration and tooth is to augment, where possible, the mechanical adhesion achievable with etching procedures and to evolve systems for chemical bonding to surfaces such as dentin where etching techniques are Emphasis is placed on difunctional monomer systems ineffective. for copolymerization with resin matrix of the which allow composite restoration as well as bonding to tooth surface. The approach to improved color and storage stability of composite restorative materials is to explore resin systems based on crystallizable nomomers as a means of assuring reproductibly pure materials and to develop new and improved initiator systems for use with these and other monomer systems. The wear of a broad spectrum of dental materials induced by slide contact with human enamel pins is measured to provide the basis for development of a laboratory test for wear predictability. Characterization of dental alloys with special emphasis on base metal allovs is carried out and the techniques and mechanisms of bonding thereto veneering materials such as porcelain or polymeric systems are investigated.

IDENTIFICATION NUMBER	Y01 DE50019-04
ORGANIZATION	U.S. PUBLIC HLTH. SERVICE HOSP., SA
ADDRESS	SAN FRANCISCO CALIFORNIA
INITIAL START DATE	10-01-75
EXPIRATION DATE	09-30-79
ORGANIZATION CODE	0485411
PROJECT DIRECTOR	MOFFA, JOSEPH P
NIDR PROJECT OFFICER	VALEGA, THOMAS M
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: CLINICAL EVALUATION OF	ANTERIOR & PROSTERIOR DENTAL RESTOR
MATERIALS	

Dental Amalgam Clinical Studies- They have placed, conducted 1. baseline, first and second year recall evaluations on 266 units of 3 different alloys comparing unpolished and immediate polishing. In addition they have conducted first vear evaluations on 454 units of 3 traditional alloys with a new high copper single composition alloy. 2. Composite Resin Clinical Study- In order to assess the claimed advantages of new "micro-filled" composites, a study was initiated during this past year to evaluate the performance of three of these composites in comparison to a conventional composite for the restoration of anterior teeth: 403 units were placed. 3. Base-Metal Alloy Clinical Study- the objective of this clinical study is to compare the clinical performance of a control gold-based alloy with that of two base-metal alloys one of which is a beryllium containing alloy. These alloys have been used to fabricate fixed partial dentures. During the period of this study 353 total placed, baseline and three recall units have been year evaluations have been performed. 4. Automation of Clinical Activities They have entered all of their previous demographic and clinical evaluation data which was collected during the past ten years into their WANG computer. They now have in their data file information on over 3,500 restorations, approximately 725 patients and 50 materials. During the past year they have continued their effort to up-grade the computer programs and increase the efficiency of the software facilities.

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IDENTIFICATION NUMBER	Y01 DE60020-04
ORGANIZATION	U.S. DEPT. OF HEW, SAN FRANCISCO, C
ADDRESS	SAN FRANCISCO CALIFORNIA
INITIAL START DATE	10-01-75
EXPIRATION DATE	02-28-79
ORGANIZATION CODE	0485454
PROJECT DIRECTOR	LOUIE, REGINALD
NIDR PROJECT OFFICER	FREW, RALPH A
NIDR CONTRACT SPECIALIST	MULLEN, EDITH
TITLE: A COMMUNITY CARIES PREV	ENTION DEMONSTRATION PROGRAM THE
ISLAND OF GUAM	

OBJECTIVES AND WORK SCOPE : Briefly, the Contractor shall establish and conduct a school based caries prevention demonstration program; collect and report data on the cost and effectiveness of the program; and develop plans for continuation of the program after the expiration of Federal support. The preventive regimen shall consist of weekly fluoride mouthrinsing with 0.2% solution of sodium fluoride. Grades K-6 or K-8 will be treated. If K-6 are treated, K-9 will be examined each year. If K-8 are treated, K-11 will be examined. DMF tooth and surface data shall be determined with mirror and explore. Radiographs will not be used. Costs and staff time for implementing and conducting the project will be recorded. The Contractor shall also exert every effort to obtain funding from the community for continuation of the project for a period of three years after the Federal support has terminated. SALIENT RESULTS TO DATE:

During the third year of the program 13, 479 children participated in the study, which was a participation rate of 92.2%. The data analysis showed reduction in DMFS scores for five out of six grades.

IDENTIFICATION NUMBER	Y01 DE60025-04
ORGANIZATION	U.S. ARMY INSTITUTE OF DENTAL RESEA
ADDRESS	WASHINGTON DISTRICT OF COLUMBIA
INITIAL START DATE	08-16-76
EXPIRATION DATE	09-30-80
ORGANIZATION CODE	0484321
PROJECT DIRECTOR	HAWLEY, CHARLES E.
NIDR PROJECT OFFICER	MIZEL, STEVEN
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: LEUKOCYTE SUBPOPULATION	S FOR PRODUCTION OF OAF FACTOR & BONE
RESORPTION	

Systematic methodologies were established which show promise of isolating a relatively homogeneous fraction from supernatants of activated lymphoid cells which have "osteoclast activating factor" (OAF) activity. OAF activity has been generated in human mixed leukocyte reactions. Supernatants derived from such cultures have been concentrated and a stepwise purification procedure has been developed which employs molecular sieve chromatography, ion exchange chromatography and polyacrylamide gel electrophoresis. While no discrnible proten bands appeared on the gels, the resolution and OAF activity was such that a considerable restricted band or bands of activity could be eluted from the polyacrylamide gel. Such a preparation could be used for immunization purposes and for testing to determine if other biological activities have been eliminated by this purification procedure.

IDENTIFICATION NUMBER	Y01 DE80027-02
ORGANIZATION	U.S. NATIONAL BUREAU OF STANDARDS
ADDRESS	WASHINGTON DISTRICT OF COLUMBIA
INITIAL START DATE	10-01-77
EXPIRATION DATE	09-30-79
ORGANIZATION CODE	5644902
PROJECT DIRECTOR	NEWBURY, DALE E.
NIDR PROJECT OFFICER	CASCIANI, FRANCIS S.
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: ELECTRON ION MICROPROBE	INORGANIC ELEMENTS IN MINERALIZATION
OF DENTIN	

The laser Raman microprobe has been applied to the study of the mineralization process in enamel and bone. Studies have been carried out in tissues of rat incisor enamel and dentin and the embryonic chick tibia. Sections were prepared by cryotomy followed by air desiccation. In these two types of mineralizaing tissue, two principal forms of phosphorous compounds have been identified: 1) an inorganic phase identified as calcium hydroxyapatite and 2) an organic phosphoprotein. The spatial distribution of these components has been determined with a lateral spatial resolution of 6-20 m from the mineralizing front to regions of higher mineralization. A possible carbonate phase, with a Raman spectrum similar to that of the mineral Huntite (CaMg3(CO3)4), is found in association with regions of low mineral phosphate content.

The results of the Raman microprobe are being correlated with the results of the electron probe for the elemental analysis of the elements associated with these components.

IDENTIFICATION NUMBER	Y01 DE90003-01
ORGANIZATION	INDIAN HEALTH SERVICE, HSA, DHEW
ADDRESS	SHIPROCK NEW MEXICO
INITIAL START DATE	07-01-79
EXPIRATION DATE	09-30-79
ORGANIZATION CODE	0485419
PROJECT DIRECTOR	BECK, C. MICHAEL
NIDR PROJECT OFFICER	NISWANDER, JERRY D.
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: LONG-TERM EVALUATION OF	SERIAL EXTRACTION IN NAVAJO CHILDREN

OBJECTIVES AND WORK SCOPE:

This 3-month Agreement is for Phase I of a bi-phasic 18-month effort to assess the long-term results of serial extraction carried out in a Navajo population 10-12 years ago. Phase I is limited to the inventory and catalog of existing records and determination of subject availability. Based upon a review of the completeness of existing records and availability of subjects, the conduct of Phase II will be considered. IDENTIFICATION NUMBER..... N01 AI52530-05 ORGANIZATION..... BETH ISRAEL HOSPITAL ADDRESS..... BOSTON MASSACHUSETTS INITIAL START DATE..... 06-30-75 EXPIRATION DATE..... 06-30-80 ORGANIZATION CODE..... 0000000 PROJECT DIRECTOR.... FREEDBERG, IRWIN M NIDR PROJECT OFFICER..... FRAZIER, PAUL D NIDR CONTRACT SPECIALIST.... BLEVINS, MARION TITLE: THERAPY OF CUTANEOUS HERPES SIMPLEX IN NORMAL & COMPRISED

HOSTS

OBJECTIVES AND WORK SCOPE:

The Contractor will conduct studies to better define the natural history of facial mucocutaneous herpesvirus hominis infections and to determine the safety and estimate the efficacy of monophosphate adenine arabinoside and disodium phosphonacetate herpesvirus hominis infections. The work will be done in two phases.

IDENTIFICATION NUMBER	N01 AI52532-05
ORGANIZATION	UTAH, UNIVERSITY OF
ADDRESS	SALT LAKE CITY UTAH
INITIAL START DATE	06-30-75
EXPIRATION DATE	06-30-80
ORGANIZATION CODE	0514002
PROJECT DIRECTOR	OVERALL, JAMES C
NIDR PROJECT OFFICER	FRAZIER, PAUL D
NIDR CONTRACT SPECIALIST	BLEVINS, MARION
TITLE: STUDY OF RECURRENT MUCOO	CUTANEOUS HERPERSVIRUS HOMINIS
INFECTION	

OBJECTIVES AND WORK SCOPE:

The Contractor will conduct studies to better define the natural history of facial mucocutaneous herpesvirus hominis infections and to determine the safety and estimate the efficacy of monophosphate adenine arabinoside and disodium phosphonacetate herpesvirus hominis infections. The work will be done in two phases.

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IDENTIFICATION NUMBER	N01 CB53890-02
ORGANIZATION	DUKE UNIVERSITY
ADDRESS	DURHAM NORTH CAROLINA
INITIAL START DATE	04-01-75
EXPIRATION DATE	03-31-79
ORGANIZATION CODE	2221101
PROJECT DIRECTOR	JOHNSON, ARMEAD H.
NIDR PROJECT OFFICER	CHUSED, THOMAS M.
NIDR CONTRACT SPECIALIST	KELLEY, GARY
TITLE: NCI HISTOCOMPATIBILITY	TESTING CENTER

OBJECTIVES AND WORK SCOPE:

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Mr. april

Sjogren's syndrome is the first autoimmune disease for which it has been shown that specific immune response genes plan a controlling role. We have determined the B cell type of 24 Sjogren's syndrome patients. We have found that all of the patients carried two distinct B cell antigens compared to 37 and 24% of normal controls. These antigens appear to be the cellular expression of immune response genes. We now need to study patients' families to ascertain the pattern of inheritance of these genes and determine whether they are homozygous or heterzygous.

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