

NINDB VISION RESEARCH CENTERS—Continued

Investigator and institution	1967 costs	Title of project	Primary goals
D. C. Cogan, M.D., Massachusetts, Eye and Ear Infirmary, Boston, Mass.	\$367,484	Intrinsic and extrinsic ocular disease investigations.	Clinical research in glaucoma, uveitis, neuro-ophthalmology, retinal anomalies, strabismus, and corneal problems.
A. Jampolsky, M.D., Institute of Visual Sciences, Institute of Medical Sciences, San Francisco, Calif.	229,842	Neurophysiology of the visual apparatus.	(1) Electrophysiology of the eye. (2) Oculomotor neurophysiology. (3) Endoradiosonde study of intraocular pressure changes. (4) Eye movement measurement and training. (5) Visual psychophysics.
P. Thygeson, M.D., San Francisco Medical Center, University of California.	360,000	Studies on immunologic diseases of the eye.	Immunological mechanisms as they apply to ocular disease.
B. R. Straatman, M.D., University of California, Los Angeles, Calif.	7,686	Retinal morphology, function and clinical characteristics.	Normal and abnormal retinal morphology function, and clinical characteristics.
Total, research centers.	2,885,062		

NINDB VISION OUTPATIENT RESEARCH CENTERS

T. D. Duane, M.D., Jefferson Medical College, Philadelphia, Pa.	\$30,235	Retinal clinical research unit.	Evaluation of choroido-retinal disturbances by a number of techniques, especially spectral reflectance photography and fundus cinematography with fluorescein angiography.
M. D. Davis, M.D., University of Wisconsin, Madison, Wis.	31,610	Diabetic retinopathy vision outpatient center.	Study of the natural cause of diabetic retinopathy. Fundus stereophotography, indirect ophthalmoscopy, biomicroscopy, perimetry, critical flicker fusion, and electroretinography are some of the techniques employed.
Armaly, M. F., University of Iowa, Iowa City, Iowa.	126,847	Outpatient clinical research on glaucoma.	An outpatient clinical research laboratory devoted to glaucoma.
Burian, H. M., University of Iowa, Iowa City, Iowa.	197,206	Congenital strabismus, functional and genetic studies.	An outpatient clinical research center to study the functional and genetic aspects of strabismus.
Campbell, C. J., Columbia University, New York, N.Y.	238,771	Coagulation therapy in human retinal disease.	An outpatient department clinical research center to evaluate various methods of coagulation in selected retinal disease and choroid. Different types of diathermy, cryosurgery, and photocoagulation techniques will be studied.
Kaufman, H. E., University of Florida, Gainesville, Fla.	87,777	Outpatient clinical research project (external ocular).	An outpatient clinical research facility to integrate laboratory and clinical research.
J. A. Wadsworth, M.D., Duke University, Durham, N.C.	24,402	Human macular disease, a clinical outpatient study.	Classification of macular disease. Genetics, prophylaxis, and therapeutics of same.
J. L. Baum, M.D., New York York University Medical Center.	-----	Corneal research clinic-----	(1) Determination of tear flow and tear volume in patients with Sjogren's syndrome. (2) Relationship of chronic alcoholism and Moraxella keratitis. (3) Optimal time for beta-irradiation after a pterygium operation.
	9,504		
E. W. Norton, M.D., University of Miami, Coral Gables, Fla.	51,034	Study of macular disease----	Macular disease in a selected group of patients—diagnosis, classification, natural history, hereditary and familial aspects, therapy and pathological correlation.
P. R. Laibson, M.D., Wills Eye Hospital, Philadelphia, Pa.	1,666	Investigation of human recurrent herpetic keratitis.	Investigation of the possible inciting mechanisms in recurrent human cases of herpetic keratitis.
E. Friedman, M.D., Boston University, Boston, Mass.	70,170	Ophthalmic OPD clinical research project.	Long-term clinical and epidemiologic studies of (a) macular pigmentary degenerations; (b) optic neuropathies; (c) industrial trauma; (d) angle closure glaucoma.
I. Leopold, M.D., Mount Siani Hospital, New York City.	41,468	Clinical OPD center for ocular pharmacology.	(1) Pharmacogenetics. (2) Evaluation of new therapies. (3) Drug influences on anterior segment structures. (4) Toxicology and side effects. (5) Drugs in diagnosis. (6) Drugs and disease mechanisms. (7) Serum factors and diseases. (8) Drug effects on microcirculation.
	945		
Total, outpatient research centers.	911,635		