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NOTICES

This interim report was submitted by personnel of the Ophthalmology Branch, Clinical Sciences Division, USAF School of Aerospace Medicine, Human Systems Division, AFSC, Brooks Air Force Base, Texas, under Job Order 7755-24-07.

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The Office of Public Affairs has reviewed this report, and it is releasable to the National Technical Information Service, where it will be available to the general public, including foreign nationals.

This report has been reviewed and is approved for publication.

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Aerospace ophthalmology combines the practice of Clinical Ophthalmology and Aerospace Medicine in attempting to solve the visual and ophthalmological problems of the aviator and astronaut. The Ophthalmology Branch of the USAF School of Aerospace Medicine has exclusively performed this task for nearly 75 years. The visual problems and solutions proposed are documented in the publications and invited presentations of Ophthalmology Branch personnel, listed in chronological order for the years 1981 through 1990. They deal primarily with applied visual and clinical topics; such as, visual standards for flying, the use of contact lenses in aviation, visual illusions and aircraft accidents, air-to-air target acquisition, management of glaucoma in flying personnel, etc.
PROTECTION OF THE EYES AGAINST NUCLEAR FLASH

Tredici, Thomas J

ACTIVE CENTRAL RETINAL ARTERY EMBOLIZATION

Ivan DJ, DR May, BM Evans, PS O'Connor, and TJ Tredici

VERTICAL PRISM DISPARITY IN AIRCRAFT WINDSHIELDS

Provines WF and BD Targove

VISUAL TRAINING EFFECTS ON NORMAL VISION

Goodson RA and AJ Rahe

ACEPHALGIC MIGRAINE: FIFTEEN YEARS' EXPERIENCE

O'Connor PS and TJ Tredici

CRYSTALLINE RETINOPATHY (BIETTI'S TAPETORETINAL DEGENERATION WITHOUT MARGINAL CORNEAL DYSTROPHY)

Mauldin WM and PS O'Connor

INTRACavernous ANEURYSMS AND ISOLATED SIXTH-NERVE PALSY

O'Connor, Patrick S
ORTHOKERATOLOGY UPDATE

Tredici, Thomas J
Presentation, Twenty-First Annual Instructional Course in Contact Lens Fitting, Contact Lens Association of Ophthalmologists, New Orleans LA, 2-5 Apr 1981

COMPLICATED MIGRAINE

Bailey, Thomas D

NUTRITIONAL AMBLYOPIA IN VIETNAM POWs

Tredici, Thomas J

REFRACTIVE ERROR CHANGES IN AF ACADEMY CADETS

Goodson, Richard A
Presentation at 52nd Annual Meeting of the Aerospace Medical Association, San Antonio TX, 4-7 May 1981

ACEPHALGIC MIGRAINE IN FLYING PERSONNEL SEEN AT THE USAF SCHOOL OF AEROSPACE MEDICINE

O'Connor PS and TJ Tredici
Presentation at 52nd Annual Meeting of the Aerospace Medical Association, San Antonio TX, 4-7 May 1981

THE ROLE OF VISION AND VISUAL ILLUSIONS IN AIRCRAFT ACCIDENTS

Tredici, Thomas J
Presentation at 52nd Annual Meeting of the Aerospace Medical Association, San Antonio TX, 4-7 May 1981

AEROSPACE OPHTHALMOLOGY 1918-1981

Tredici, Thomas J
Scientific Exhibit, 52nd Annual Meeting of the Aerospace Medical Association, San Antonio TX, 4-7 May 1981
PROTECTION OF THE EYES AGAINST NUCLEAR FLASH

Tredici, Thomas J
Presentation, AGARD/NATO Lecture Series No. 115, Personal Visual Aids for
Aircrew, Paris, France and Furstenfeldbruck, Germany, 22-27 Jun 1981
OPHTHALMOLOGY BRANCH
1982 Publications

THE MARCUS GUNN PUPIL IN EXPERIMENTAL OPTIC TRACT LESIONS
O'Connor PS, D Kasdon, TJ Tredici, and DJ Ivan
Ophthalmology 89:2, February 1982

THE INCIDENCE OF REFRACTIVE ANOMALIES IN THE AIR FORCE RATED POPULATION
Provines WF, WM Woessner, A Rahe, and TJ Tredici
Preprint, 1982 Aerospace Medical Association Meeting

A REVIEW OF OCULAR MALINGERING AND HYSTERIA FOR THE FLIGHT SURGEON
Hesterberg RC Jr and TJ Tredici
Preprint, 1982 Aerospace Medical Association Meeting

REFRACTIVE STATUS PROFILES IN THE USAF RATED POPULATION
Woessner WM, WF Provines, A Rahe, and TJ Tredici
Preprint, 1982 Aerospace Medical Association Meeting
Bal Harbour FL, 10-14 May 1982

DROP-BALL IMPACT RESISTANCE OF OPHTHALMIC LENSES--COMPARISON OF TINT, MATERIAL, TREATMENT PROCESS AND DRILLING
Provines WF, JW Miller, RH Blevins, JR Fischer, and TJ Tredici
SAM-TR-82-13, USAF School of Aerospace Medicine, Brooks AFB TX, May 1982

ACHROMATOPSIA: CLINICAL DIAGNOSIS AND TREATMENT
O'Connor PS, TJ Tredici, DJ Ivan, JV Mumma, and DE Shacklett

HISTOPATHOLOGY OF EXPERIMENTAL OPTIC TRACT HEMIANOPIA
Schmidt RE, TJ Tredici, and PS O'Connor
Ophthalmic Research 14:354-360, 1982

EVALUATION OF TRAINING TECHNIQUES FOR AIR-TO-AIR TARGET ACQUISITION
Bloomfield JR and DA Smith
SAM-TR-82-32, USAF School of Aerospace Medicine, Brooks AFB TX, December 1982 (Final Report, Contract No. F33615-79-C-0615, Honeywell, Inc., Systems and Research Center, Aerospace and Defense Group, Minneapolis MN)
OPHTHALMOLOGY BRANCH
1982 Presentations

VISUAL ELECTROPHYSIOLOGY (Workshop)

Woessner, William M
Presentation, Brooke Army Medical Center, Ophthalmology Residents Program,
Ft Sam Houston TX, 20 Jan 1982

VISION AS A FACTOR IN MILITARY AIRCRAFT MISHAPS

Tredici, Thomas J
Presentation, Conference on Vision as a Factor in Military Aircraft Mishaps,
USAF Inspection and Safety Center, Norton AFB CA and Brooks AFB TX,
23 Feb 1982

PUPIL-SPARING THIRD-NERVE PALSIES DUE TO INTRACRANIAL ANEURYSM

O'Connor, Patrick S
Presentation, Society of Air Force Clinical Surgeons, Sacramento CA,
26-30 Mar 1982

CONTACT LENSES

Ivan DJ and TJ Tredici
Presentation, Society of Air Force Clinical Surgeons, Sacramento CA,
26-30 Mar 1982

GLAUCOMATOUS VISUAL FIELDS SCREENING

O'Connor, Patrick S
Presentation, Society of Air Force Clinical Surgeons, Sacramento CA,
26-30 Mar 1982

ACHROMATOPSIA

O'Connor, Patrick S
Presentation, Alamo City Ophthalmology Residents Conference, University of
Texas Health Science Center at San Antonio, San Antonio TX, 26-27 Mar 1982

REVIEW OF ORTHOKERATOLOGY

Tredici, Thomas J
Presentation, First Annual USAF Ophthalmic Technicians Meeting, Sacramento
CA, 28-29 Mar 1982
1982 Presentations (continued)

PERIMETRY AND VISUAL FIELDS

O’Connor, Patrick S
Presentation, First Annual USAF Ophthalmic Technicians Meeting, Sacramento CA, 28-29 Mar 1982

HARD CONTACT LENSES: INITIAL FITTING PROCEDURES, FOLLOW-UP VISITS, PROBLEM SOLVING

Ivan, Douglas J
Presentation, First Annual USAF Ophthalmic Technicians Meeting, Sacramento CA, 28-29 Mar 1982

VISION – EVALUATION AND STANDARDS

Tredici, Thomas J (Chairperson)
Aerospace Medical Association Annual Meeting, Bal Harbour FL, 9-14 May 1982

INCIDENCE OF SPECTACLE WEARERS AMONG THE USAF RATED POPULATION

Provines WF, A Rahe, WM Woessner, and TJ Tredici
Presentation, Annual Meeting of the Aerospace Medical Association, Bal Harbour FL, 9-14 May 1982

A REVIEW OF OCULAR MALINGERING AND Hysteria FOR THE FLIGHT Surgeon

Hesterberg RC Jr and TJ Tredici
Presentation, Annual Meeting of the Aerospace Medical Association, Bal Harbour FL, 9-14 May 1982

REFRACTIVE STATUS PROFILES IN THE USAF RATED POPULATION

Woessner WM, WF Provines, A Rahe, and TJ Tredici
Presentation, Annual Meeting of the Aerospace Medical Association, Bal Harbour FL, 9-14 May 1982

US ARMY SYMPOSIUM OF MEDICAL (OPHTHALMIC) SURVEILLANCE OF PERSONNEL POTENTIALLY EXPOSED TO LASER RADIATION

Tredici, Thomas J (Guest Lecturer and Panel Member)
US Army Environmental Hygiene Agency, Aberdeen Proving Ground MD, 8-9 Sep 1982
1982 Presentations (continued)

AIR FORCE EFFORTS IN PROTECTION AND ENHANCEMENT OF VISION

Tredici, Thomas J
Tri-Service Joint Working Group on Eye Armor Meeting, Uniformed Services
University of Health Sciences, Bethesda MD, 1 Oct 1982

MYOPIA INDUCED BY HYPERBARIC OXYGEN

Tredici TJ, DJ Ivan, and EE Kirby
Presentation, Second International Conference on Myopia, San Francisco CA,
28-30 Oct 1982

AEROSPACE OPHTHALMOLOGY EXHIBIT

Tredici, Thomas J
Exhibit Presentation at the 24th International Congress of Ophthalmology
and the American Academy of Ophthalmology, San Francisco CA, 3-5 Nov 1982

PHYSICAL CHARACTERISTICS AND TRANSMISSION OF LIGHT

Tredici, Thomas J
24th International Congress of Ophthalmology and American Academy of
Ophthalmology Meeting, Symposium on Light Toxicity, San Francisco CA,
3-5 Nov 1982

TONOMETRY AND GLAUCOMA

Tredici, Thomas J
Lecture, Continuing Education Program for Ophthalmic Technicians, Joint
Commission on Allied Health Personnel in Ophthalmology, San Francisco CA,
Nov 1982

THE XM-30 MILITARY PROTECTIVE GAS MASK: ITS EFFECT ON OCULAR ENVIRONMENT AND
CORNEAL THICKNESS

Miller, Robert E II
Presentation, American Academy of Optometry and Physiological Optics Annual
Meeting, Philadelphia PA, 10-15 Dec 1982
OPHTHALMOLOGY BRANCH

1983 Publications

PUPIL-SPARING THIRD NERVE PALSIES CAUSED BY ANEURYSM

O' Connor PS, TJ Tredici, and RP Green Jr
Am J Ophthalm 95:3, Mar 1983

PUPILLARY-SPARING THIRD NERVE PALSY DUE TO ANEURYSM: A SURVEY OF 2419 NEUROLOGICAL SURGEONS

O'Connor PS, TJ Tredici, and RP Green Jr
Neurosurgical Forum, Letters to the Editor, J Neurosurg 58, May 1983

THE INCIDENCE OF REFRACTIVE ANOMALIES IN THE USAF RATED POPULATION

Provines WF, AJ Rahe, and TJ Tredici
Aviation, Space and Environmental Medicine, Jul 1983

USAF POSITION ON RADIAL KERATOTOMY

Tredici, Thomas J
Letters to the Editor, Ophthalmic Surgery 14:9, Sep 1983

CONTACT LENSES IN INDUSTRY

Tredici, Thomas J
USAF Safety Journal, Sep 1983

A REVIEW OF OCULAR MALINGERING AND HYSTERIA FOR THE FLIGHT SURGEON

Hesterberg RC Jr and TJ Tredici
Aviation, Space and Environmental Medicine, 54(10): 934-936: 1983

YELLOW OPHTHALMIC FILTERS IN THE VISUAL ACQUISITION OF AIRCRAFT

Provines WF, AJ Rahe, MG Block, T Pena, and TJ Tredici
SAM-TR-83-46, USAF School of Aerospace Medicine, Brooks AFB TX, Dec 1983
OXYGEN COMPARISON MADE EASY

Flynn WJ, TG Quinn, and RM Hill
Contact Lens Forum 8(1):57-59, 1983
GLAUCOMA AND SCHIOTZ TONOMETRY

Tredici, Thomas J
Lecture, University of Texas Health Science Center, San Antonio TX, 25 Feb 1983

CORNEAL OPAFICATION AND LGAT DEFICIENCY

Hesterberg RC Jr and TJ Tredici
Presentation, Alamo City Ophthalmology Residents Conference, University of Texas Health Science Center at San Antonio, San Antonio TX, 15-16 Apr 1983

CONTACT LENSES

Tredici, Thomas J
Presentation, Second Annual USAF Ophthalmic Technicians Meeting, San Antonio TX, 1-5 May 1983

TONOMETRY

Tredici, Thomas J
Presentation, Second Annual USAF Ophthalmic Technicians Meeting, San Antonio TX, 1-5 May 1983

USE OF CONTACT LENSES BY USAF AVIATORS

Tredici TJ and EE Kirby
Presentation, Aerospace Medical Association Annual Meeting, Houston TX, 23-26 May 1983

AEROSPACE OPHTHALMOLOGY

Tredici, Thomas J
Exhibit Presentation, Aerospace Medical Association Annual Meeting, Houston TX, 23-26 May 1983

GLAUCOMA AND TONOMETRY

Tredici, Thomas J
Presentation, Continuing Education Program for Ophthalmic Technicians, Joint Commission on Allied Health Personnel in Ophthalmology, Nov 1983
OPHTHALMOLOGY BRANCH
1984 Publications

SOFT CONTACT LENSES: FEASIBILITY IN SIMULATED FLIGHT OPERATION SCHEDULES

Miller, Robert E II
USAF Medical Service Digest, Spring 1984

HYPOTONIC EXPOSURES

Flynn WJ and RM Hill

AEROMEDICAL ASPECTS OF NIGHT VISION

Miller, Robert E II (Sponsor for Working Group Meeting)
USAF School of Aerospace Medicine, Brooks AFB TX, 12 Jun 1984,
Proceedings of the Meeting

CORNEAL OPACIFICATION AND LECITHIN-CHOLESTEROL ACETYLTRANSFERASE (LCAT) DEFICIENCY: A CASE REPORT

Hesterberg RC Jr and TJ Tredici

CORNEAL BURNS: A QUANTITATIVE COMPARISON OF ACID AND BASE

Flynn WJ, TF Mauger and RM Hill
Acta Ophthalmologica 52:542-548, 1984

COMPARATIVE VISUAL PERFORMANCE WITH ANVIS AND AN/PVS-5A NIGHT VISION GOGGLES UNDER STARLIGHT CONDITIONS

Miller RE II, WF Provines, MG Block, JW Miller, and TJ Tredici
USAFSAM-TR-84-28, USAF School of Aerospace Medicine, Brooks AFB TX, Aug 1984
SPHERE AND CYLINDER DISTRIBUTION AMONG THE USAF RATED POPULATION REQUIRING SPECTACLES

Provines WF, TJ Tredici, and AJ Rahe
Technical Note, Aviation, Space and Env Medicine, Aug 1984

DRY LENS DEFICITS

Flynn WJ and RM Hill
International Contact Lens Clinic, Vol. II, No. 8, Aug 1984

HAVE WE HIT THE HIGH-WATER MARK?

Flynn WJ and RM Hill
Contact Lens Forum 9:9:45-49, Sep 1984

TECHNIQUES TO ENHANCE AEROSPACE VISUAL PERFORMANCE AND CLASSIFY AIRCREW

Miller, Robert E II
Proceedings of the Tri-Service Aeromedical Research Panel Fall Technical Meeting, AMRL Monograph 33, Nov 1984

SOFT CONTACT LENSES IN THE AEROSPACE ENVIRONMENT

Flynn, William F

OPHTHALMOPLEGIC MIGRAINE

Bailey TD, PS O'Connor, and TJ Tredici

USE OF MULTIPLE REGRESSION TECHNIQUES IN DETERMINING THE SURFACE OF THE CORNEA

Block MG and MB Block

THE OXYGEN PERFORMANCE OF HARD GAS PERMEABLES

Flynn WJ and RM Hill
Contact Lens Forum 9:11:61-67, 1984

BINOCULAR VISUAL ACUITY WITH II- AND III-GEN NIGHT VISION GOGGLES

Miller RE II and WF Provines
OPHTHALMOLOGY BRANCH

1984 Presentations

AEROSPACE OPHTHALMOLOGY UPDATE

Tredici, Thomas J
Presentation at Operational Aeromedical Problems Lecture, USAF School of Aerospace Medicine, Brooks AFB TX, 16-20 Jan 1984

INTRODUCTION TO GLAUCOMA

Tredici, Thomas J
Presentation, University of Texas Health Science Center at San Antonio Residents, San Antonio TX, 10 Feb 1984

COMPARATIVE VISUAL PERFORMANCE WITH ANVIS AND AN/PVS-5A NIGHT VISION GOGGLES UNDER STARLIGHT CONDITIONS

Miller, Robert E II

CONTACT LENS USE BY MILITARY AVIATORS

Tredici, Thomas J
Presentation, University of Texas Residents Day, San Antonio TX, 6-7 Apr 1984

NIGHT VISION RESEARCH AT USAFSAM

Miller, Robert E II
Presentation, Working Group Meeting Aeromedical Aspects of Night Vision, Brooks AFB TX, 12 Jun 1984

SCOTOPIC VISION

Tredici, Thomas J
Presentation, Working Group Meeting Aeromedical Aspects of Night Vision, Brooks AFB TX, 12 Jun 1984

EYE SAFETY—FROM MINEOLA TO THE MOON

Tredici, Thomas J
Presentation, 1984 National Conference of the National Society to Prevent Blindness, New York NY, 20 Sep 1984
1984 Presentations (continued)

TECHNIQUES TO ENHANCE AEROSPACE VISUAL PERFORMANCE AND CLASSIFY AIRCREW

Miller, Robert E II
Presentation, Tri-Service Aeromedical Research Panel (TARP) Fall Technical Meeting, Pensacola FL, 13-14 Nov 1984

SOFT CONTACT LENSES IN THE AEROSPACE ENVIRONMENT

Flynn, William J
Presentation, 1984 Air National Guard Optometric Symposium, San Diego CA, 4-5 Nov 1984

DECREASE IN IMPACT STRENGTH OF USED POLYCARBONATE (LEXAN) SPECTACLE LENSES

Tredici, Thomas J

COMPUTERS AND VIDEO: EYE STRAIN OR EYE HELP

Tredici, Thomas J

TONOMETRY (Demonstration Course)

Tredici, Thomas J
Joint Commission on Allied Health Personnel in Ophthalmology Continuing Education Program for Technicians, Atlanta GA, 9 Nov 1984
OPHTHALMOLOGY BRANCH
1985 Publications

THE RIGID "SUPER-PERMEABLES"

Hill R, S Brezinski and WJ Flynn
Contact Lens Forum 10(1):35-39, Jan 1985

KERATOReFRACTIVE SURGERY AND AIR FORCE FLYING PERSONNEL

Tredici, Thomas J
Proceedings, Keratorefractive Surgery Meeting, Brooks AFB TX, 20-25 Feb 1985

CORNEAL RESPONSES TO ACID MEASURED IN VIVO

Flynn WJ, JE King, and RM Hill

HCL BURNS OF THE CORNEA, MEASURED QUANTITATIVELY AND IN VIVO

Flynn WJ, JE King, and RM Hill

NEW VISUAL TESTING TECHNIQUES APPLICABLE TO THE MILITARY OPTOMETRIST

Miller, Robert E. II
Proceedings, Armed Forces Optometric Society of the American Optometric Association Annual Meeting, 1985

EFFECTS OF ACCELERATION (+Gz) ON SOFT CONTACT LENS WEAR

Flynn, William J
Preprint, 1985 Aerospace Medical Association Meeting, San Antonio TX, May 1985

EFFECT OF ACCELERATION (+Gz) ON SOFT CONTACT LENS WEAR

Flynn WJ, MG Block, WF Provines, and TJ Tredici
Aviation, Space and Environmental Medicine, Abstract, 56(5):496, May 1985

NEW SCREENING METHODS AND VISUAL STANDARDS FOR ANVIS NIGHT VISION GOGGLES

Miller, Robert E II
Special Report, USAF School of Aerospace Medicine, Brooks AFB TX, 24 May 1985
1985 Publications (continued)

VISUAL AND OCULAR FINDINGS OF ASTRONAUTS

Tredici, Thomas J, et al
Poster, Aerospace Medical Association Annual Meeting, San Antonio TX, 12-16 May 1985

HARD-COATED POLYCARBONATE VERSUS CR-39 LENSES: A FIELD STUDY

Miller JW, WF Provinces, AJ Rahe, RH Blevins, and TJ Tredici
USAFSAM-TR-85-25, USAF School of Aerospace Medicine, Brooks AFB TX, May 1985

THE EFFECTS OF HYPOXIA INDUCED BY LOW ATMOSPHERIC PRESSURE ON SOFT CONTACT LENS WEAR

Flynn WJ, RE Miller, MG Block, and TJ Tredici
USAFSAM-TR-85-30, USAF School of Aerospace Medicine, Brooks AFB TX, Jun 1985

CONCEPTUAL DESIGN FOR A STATE-OF-THE-ART NIGHT VISION LABORATORY LOW CONTRAST SNELEN CHARTS AS A TEST OF VISUAL FUNCTION MESOPIC VISION

Miller, Robert E II
Special Report, USAF School of Aerospace Medicine, July 1985

OPHTHALMOLOGY IN AEROSPACE MEDICINE

Tredici, Thomas J
Chapter 15, in Fundamentals of Aerospace Medicine, R. L. DeHart (Ed), Lea & Febiger/Philadelphia, 1985

NIGHT VISION MANUAL FOR THE FLIGHT SURGEON

Tredici TJ and RE Miller II
USAFSAM-SR-85-3, USAF School of Aerospace Medicine, Brooks AFB TX, Aug 1985

AEROSPACE OPHTHALMOLOGY

Tredici, Thomas J
The Eye Report, Quarterly Bulletin, The University of Texas Health Science Center at San Antonio, San Antonio TX, Sep 1985

+Gz FORCES AND RETINAL DETACHMENT

Tredici, Thomas J
Letters to the Editor, Aviation, Space and Env Medicine, Oct 1985
1985 Publications (continued)

**SUBCONTACT LENS BUBBLE FORMATION AT ALTITUDE**

Flynn WJ, RE Miller, and TJ Tredici  

**OPTICAL EVALUATION OF ACDAR HELMET VISORS**

Woessner WM, J Taboada, and WF Provines  
*Special Report, USAF School of Aerospace Medicine, Brooks AFB TX*, Nov 1985

**USAF POSITION ON RADIAL KERATOTOMY**

Tredici, Thomas J  
*Letter to the Editor, Aviation, Space and Env Medicine*, Nov 1985

**SOFT CONTACT LENS WEAR DURING +Gz ACCELERATION**

Flynn WJ, MG Block, WF Provines, TJ Tredici, and RD Kullman  
*USAF-SAM-TR-85-84, USAF School of Aerospace Medicine, Brooks AFB TX*, December 1985

**AEROSPACE OPHTHALMOLOGY - Contributions of the Ophthalmology Branch to Visual Science and National Defense**

Tredici, Thomas J  
*Special Report, USAF School of Aerospace Medicine, Brooks AFB TX, 1985*
OPHTHALMOLOGY BRANCH
1985 Presentations

THE WORKER'S EYE: OPHTHALMOLOGY AND OCCUPATIONAL HEALTH

Tredici, Thomas J
Presentation at Postgraduate Seminar, American Occupational Health Conference, Kansas City MO, 14-19 Apr 1985

ANATOMY AND PHYSIOLOGY OF THE EYE

Tredici, Thomas J
Presentation at the Contact Lens Society of Texas Annual Meeting, Austin TX, 13-14 Apr 1985

TRANSMISSION THROUGH TINTED CONTACT LENSES

Tredici, Thomas J
Presentation at the Contact Lens Society of Texas Annual Meeting, Austin TX, 13-14 Apr 1985

VISUAL AND OCULAR FINDINGS OF ASTRONAUTS

Tredici, Thomas J
Presentation at the 5th Annual Alamo City Ophthalmology Residents Conference, San Antonio TX, 12-13 Apr 1985

GLAUCOMA AND TONOMETRY

Tredici TJ and GS Baer
Presentation at the 33rd Annual Symposium of the Society of Air Force Clinical Surgeons, San Antonio TX, 29 Apr - 2 May 1985

EFFECT OF ACCELERATION (+Gz) ON SOFT CONTACT LENS WEAR

Flynn William J, et al
Presentation at Aerospace Med Assn Meeting, San Antonio TX, 12-16 May 1985

SCIENTIFIC EXHIBIT: AEROSPACE OPHTHALMOLOGY, 1918-1985

Tredici, Thomas J

and,

1985 Presentations (continued)

VISUAL AND OCULAR FINDINGS OF ASTRONAUTS

Tredici TJ, BG Martin, EE Kirby, and GS Baer
Aerospace Medical Association Meeting, San Antonio TX, May 1985

CORRELATION OF VISION STANDARDS AND TESTS WITH PILOT PERFORMANCE

Tredici, Thomas J
Aerospace Medical Association Meeting, San Antonio TX, May 1985

A STUDY OF LIGHT TRANSMISSION THROUGH TINTED CONTACT LENSES OF VARYING THICKNESSES

Tredici TJ, TD Tredici, EF Maher, and DL Arnold
Contact Lens Society of Texas Meeting, Austin TX, Apr 1985

APPLANATION TONOMETRY

Tredici, Thomas J
4th Annual USAF Ophthalmic Technicians Meeting, San Antonio TX, Apr 1985

DIAGNOSIS AND TREATMENT OF INJURIES TO THE EYE

Tredici, Thomas J
American Occupational Health Conference, Kansas City MO, 14-19 Apr 1985

HCl BURNS OF THE CORNEA, MEASURED QUANTITATIVELY AND IN VIVO

Flynn, William J
Poster Presentation, Association for Research in Vision and Ophthalmology Meeting, Sarasota FL, May 1985

NEW VISUAL TESTING TECHNIQUES APPLICABLE TO THE MILITARY

Miller, Robert E II
Presentation to the Armed Forces Optometric Society, American Optometric Association Annual Meeting, June 1985

NEW VISUAL TESTING TECHNIQUES APPLICABLE TO THE MILITARY OPTOMETRIST

Miller, Robert E II
Armed Forces Optometric Society Meeting, Las Vegas NV, 19-24 Jun 1985
1985 Presentations (continued)

**OCCUPATIONAL OPHTHALMOLOGY 1985: THE WORKER’S EYE HEALTH PROJECT**

Tredici TJ, JF Novak, KA Cinotti, and LD Pizzarello
Course 141, American Academy of Ophth, San Francisco CA, Oct 1985

**THE EFFECTS OF ROUTINE OFFICE PUPILLARY DILATION ON FUNCTIONAL DAYLIGHT VISION**

O'Connor PS, TJ Tredici, B Byrne, and J Pickett
Scientific Poster 55, American Academy of Ophth, San Francisco CA, Oct 1985

**THE EFFECTS OF AIR TRAVEL ON EYES WITH INTRAOCULAR GAS**

Dieckert JP and TJ Tredici, et al
American Academy of Ophth, San Francisco CA, Oct 1985

**TONOMETRY DEMONSTRATION AND GLAUCOMA**

Tredici TJ and LL Tredici
Course, Joint Commission on Allied Heath Personnel in Ophthalmology Continuing Education Program for the Ophthalmic Assistant, American Academy of Ophth, San Francisco CA, Oct 1985

**OPTOMETRIC VISION RESEARCH AT THE USAF SCHOOL OF AEROSPACE MEDICINE**

Miller, Robert E II
Optometry Seminar, Sheppard AFB TX, 15-18 Oct 1985

**SOFT CONTACT LENS WEAR IN THE AEROSPACE ENVIRONMENT**

Flynn, William J
Optometry Seminar, Sheppard AFB TX, 15-18 Oct 1985

**MALDEVELOPMENT OF VISUAL MOTION PROCESSING IN HUMANS WHO HAD STRABISMUS DURING INFANCY**

Tychsen, Lawrence
15th Annual Meeting of the Society of Neurosciences, Dallas TX, 18-23 Oct 1985

**JET AIRCRAFT ACCELERATION AND SOFT CONTACT LENS WEAR**

Block MG, WJ Flynn, WF Provines, and TJ Tredici
American Academy of Optometry, Atlanta GA, 8-10 Dec 1985

**SUBCONTACT LENS BUBBLE FORMATION AT ALTITUDE**

Miller, Robert E II
Poster Presentation, American Academy of Optometry, Atlanta GA, 4-12 Dec 1985
OPHTHALMOLOGY BRANCH
1986 Publications

HISTORY OF FLUORESCEIN ANGIOGRAPHY

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Correspondence and Case Reports, Arch Ophthalmol, Vol 104, Jan 1986

INTRAOCULAR LENSES IN FLYING PERSONNEL

Tredici TJ and RP Green Jr
Abstract, Aerospace Medical Association Meeting, Apr 1986

USAF UNDERGRADUATE PILOT TRAINING PASS/FAIL RATES OF SPECTACLED VERSUS NONSPECTACLED STUDENT PILOTS

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USAFSAM-TR-85-50, USAF School of Aerospace Medicine, Brooks AFB TX

TWENTIETH CENTURY EYE ARMOR

Flynn, William J
Medical Service Digest 36(3)10-14, 1986

THE EFFECTS OF HYPOXIA INDUCED BY HYPOBARIC PRESSURE ON SOFT CONTACT LENS WEAR

Flynn WJ, RE Miller II, GW Saboe, and TJ Tredici
Aviation, Space and Environmental Medicine 57(5):508, May 1986

LASER GENERATED BEAM ARRAY FOR COMMUTATION OF 2-D SPATIALLY MODULATED OPTICAL SIGNALS

Taboada, John
Proceedings of the Society of Photo-Optic Instrumentation Engineers 30th International Symposium, 1986

CHLAMYDOMONAS PHOTOTAXIS AS A SIMPLE SYSTEM FOR TESTING THE EFFECT OF DRUGS ON VISION

Moyer, Rex
Final Report on Work Unit 77552410, USAF School of Aerospace Medicine, Brooks AFB TX, 1986
1986 Publications (continued)

SUBCONTACT LENS BUBBLE FORMATION UNDER LOW ATMOSPHERIC PRESSURE CONDITIONS
Flynn WJ, RE Miller II, TJ Tredici, MG Block, EE Kirby, and WF Provines
USAFSAM-TR-86-21, USAF School of Aerospace Medicine, Brooks AFB TX,
August 1986

ABRASION - RESISTANT COATED VERSUS NONCOATED CR-39 OPHTHALMIC LENSES: A FIELD
STUDY
Miller RE II, WP DeSorbo, AJ Rahe, WF Provines, and TJ Tredici
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August 1986

MALDEVELOPMENT OF VISUAL MOTION PROCESSING IN HUMANS WHO HAD STRABISMUS WITH
ONSET IN INFANCY
Tyghsen L and SG Lisberger
J of Neuroscience, Sep 1986

VISUAL MOTION PROCESSING FOR THE INITIATION OF SMOOTH-PURSUIT EYE MOVEMENTS IN
HUMANS
Tyghsen L and SG Lisberger
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