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**PUBLICATIONS AND PRESENTATIONS OF THE  
OPHTHALMOLOGY BRANCH, USAF SCHOOL OF  
AEROSPACE MEDICINE - 1981 - 1990**

**Thomas J. Tredici, M.D.  
Bertha B. Secord**

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Human Systems Division (AFSC)  
Brooks Air Force Base, TX 78235-5301**

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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.

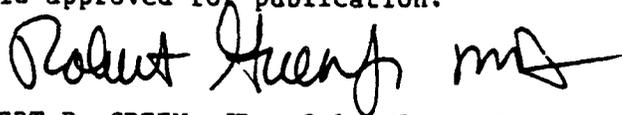
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The Office of Public Affairs has reviewed this report, and it is releasable to the National Technical Information Service, where it will be available to the general public, including foreign nationals.

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.			
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PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH  
USAF SCHOOL OF AEROSPACE MEDICINE 1981-1990

OPHTHALMOLOGY BRANCH

1981 Publications

PROTECTION OF THE EYES AGAINST NUCLEAR FLASH

Tredici, Thomas J  
Conference Proceedings, AGARD/NATO Lecture Series No. 115, Personal Visual  
Aids for Aircrew, Paris, France and Furstenfeldbruck, Germany,  
22-27 Jun 1981

ACTIVE CENTRAL RETINAL ARTERY EMBOLIZATION

Ivan DJ, DR May, RM Evans, PS O'Connor, and TJ Tredici  
Ophthalmology, Vol. 88, No. 7, Jul 1981

VERTICAL PRISM DISPARITY IN AIRCRAFT WINDSHIELDS

Provines WF and BD Targove  
American Journal of Optometry and Physiological Optics, Vol. 58, No. 9,  
pp. 740-745, Sep 1981

VISUAL TRAINING EFFECTS ON NORMAL VISION

Goodson RA and AJ Rahe  
American Journal of Optometry and Physiological Optics, Vol. 58, No. 10,  
pp. 787-791, Oct 1981

ACEPHALGIC MIGRAINE: FIFTEEN YEARS' EXPERIENCE

O'Connor PS and TJ Tredici  
Ophthalmology, Vol. 88, No. 10, Oct 1981

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

Mauldin WM and PS O'Connor  
American Journal of Ophthalmology 92:640-646, Nov 1981

INTRACAVERNOUS ANEURYSMS AND ISOLATED SIXTH-NERVE PALSY

O'Connor, Patrick S  
Neuro-Ophthalmology, 1981 (Ed. J. L. Smith)



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OPHTHALMOLOGY BRANCH

1981 Presentations

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  
Presentation, Society of Air Force Clinical Surgeons Surgical Postgraduate Seminar, Ophthalmology Postgraduate Seminar, San Antonio TX, 13-15 Apr 1981

NUTRITIONAL AMBLYOPIA IN VIETNAM POWs

Tredici, Thomas J  
Presentation, Society of Air Force Clinical Surgeons Surgical Postgraduate Seminar, Ophthalmology Postgraduate Seminar, San Antonio TX, 13-15 Apr 1981

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

1981 Presentations (continued)

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  
J Clin Neuro-Ophthalmol 2:219, 1982

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

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1983 Publications

PUPIL-SPARING THIRD NERVE PALSIES CAUSED BY ANEURYSM

O'Connor PS, TJ Tredici, and RP Green Jr  
Am J Ophthal 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

1983 Publications (continued)

OXYGEN COMPARISON MADE EASY

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

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1983 Presentations

GLAUCOMA AND SCHIOTZ TONOMETRY

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

CORNEAL OPACIFICATION AND LCAT 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  
Journal of the American Optometric Association, Vol. 55:3:221-222, Mar 1984

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  
Annals of Ophthalmology, Vol 16, No. 7, pp. 616-621, Jul 1984

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

1984 Publications (continued)

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  
Proceedings of the 1984 Air National Guard Optometric Society Symposium, San Diego CA, Nov 1984

OPHTHALMOPLAGIC MIGRAINE

Bailey TD, PS O'Connor, and TJ Tredici  
J Clin Neuro-Ophthalmol 4:225-228, 1984

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

Block MG and MB Block  
Am J Optom and Physiol Optics 61:12:721-728, Dec 1984

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  
Proceedings of the 1984 American Academy of Optometry Congress, Dec 1984

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  
Presentation at Night Operations Symposium IV, American Defense Preparedness  
Association, Los Angeles CA, 20-23 Mar 1984

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  
Poster Presentation, American Academy of Ophthalmology 1984 Meeting, Atlanta GA, 11-16 Nov 1984

COMPUTERS AND VIDEO: EYE STRAIN OR EYE HELP

Tredici, Thomas J  
Newsroom Panel Session, American Academy of Ophthalmology 1984 Meeting, Atlanta GA, 11-16 Nov 1984

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  
Am J Optom and Physiol Optics 62(3):217-221, Mar 1985

HCL BURNS OF THE CORNEA, MEASURED QUANTITATIVELY AND IN VIVO

Flynn WJ, JE King, and RM Hill  
Investigative Ophthalmology and Visual Science Supplement, Abstract,  
26(3):180, Mar 1985

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 Provines, 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  
SNELLEN 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  
American Journal of Optometry and Physiological Optics, 62(10):118P,  
Oct 1985

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  
USAFSAM-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: OPTHALMOLOGY 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

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and,

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VISUAL AND OCULAR FINDINGS OF ASTRONAUTS

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CORRELATION OF VISION STANDARDS AND TESTS WITH PILOT PERFORMANCE

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

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APPLANATION TONOMETRY

Tredici, Thomas J  
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DAYLIGHT VISION

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SOFT CONTACT LENS WEAR IN THE AEROSPACE ENVIRONMENT

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MALDEVELOPMENT OF VISUAL MOTION PROCESSING IN HUMANS WHO HAD STRABISMUS  
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WHAT'S NEW IN VISION RESEARCH AND DEVELOPMENT IN THE AIR FORCE

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Woessner, William M  
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O'Connor PS and TJ Tredici

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CONTACT LENS WEAR IN THE AEROSPACE ENVIRONMENT

Dennis, Richard J  
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OPTOMETRIC VISION RESEARCH IN THE USAF

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A NEW BRIDGE CONFIGURATION TO IMPROVE MAG-1 SPECTACLE FRAME COMFORT

Woessner, William M  
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THE EFFECTS OF +Gz ACCELERATION ON CONTACT LENS WEAR

Dennis, Richard J  
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SOFT CONTACT LENS RESEARCH WITH THE TACTICAL AIR COMMAND

Dennis, Richard J  
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1988 Presentations (continued)

USAF AIRCREW VISION STANDARDS

Miller, Robert E II  
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OPTOMETRIC VISION RESEARCH IN THE USAF

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1989 Publications

WEAR OF CONTACT LENSES BY TACTICAL AIRCREW: MEDICAL ACCEPTABILITY

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TAC Project 88G-005T, Interim Report  
USAF Tactical Air Warfare Center, Eglin AFB FL, Jan 1989

SOFT CONTACT LENSES: SINK OR BARRIER TO CHEMICAL WARFARE AGENTS?

Dennis RJ, WJ Flynn, CJ Oakley, and MG Block  
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COMPATIBILITY OF NIGHT VISION GOGGLES AND CHEMICAL WARFARE MASKS

Miller RE II, WM Woessner, LM Wooley, RJ Dennis, and RP Green Jr  
USAFSAM-TR-89-3, USAF School of Aerospace Medicine, Brooks AFB TX,  
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CATECHOLAMINE DEPLETION PRODUCES IRREPRESSIBLE SACCADIC EYE MOVEMENTS  
IN NORMAL HUMANS

Tychsen L and N Siteram  
Annals of Neurology, Vol 25 #5, May 1989

RECOVERY OF PUPILLOMOTOR FUNCTION AFTER CATARACT SURGERY

Peters DR and L Tychsen  
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A REVIEW (Abstract)

Green, Robert P Jr  
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Green RP, RM Cartledge, and FE Cheney  
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WEAR OF CONTACT LENSES BY TACTICAL AIRCREW: MEDICAL ACCEPTABILITY

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Dennis, Richard J  
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USAFSAM-SR-89-5, USAF School of Aerospace Medicine, Brooks AFB TX,  
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REFRACTIVE ERROR CHANGES SINCE COLLEGE GRADUATION

O'Neal MR, RE Miller II, WM Woessner, RJ Dennis, and DK Treadaway  
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THE EFFECT OF FLUCTUATING +Gz EXPOSURE IN RIGID GAS-PERMEABLE CONTACT LENS WEAR

Dennis RJ, WM Woessner, RE Miller II, and KK Gillingham  
USAFSAM-TR-89-23, USAF School of Aerospace Medicine, Brooks AFB TX,  
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THE PREVALENCE OF SPECTACLE WEAR AND INCIDENCE OF REFRACTIVE ERROR IN USAF AIRCREW

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USAFSAM-TR-89-28, USAF School of Aerospace Medicine, Brooks AFB TX,  
Dec 1989

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Renthal R and J Taboada  
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Yates, John T

Delivered to Wilford Hall Medical Center and Brooke Army Medical Center residents and staff, Fall 1987-1988, and 1988-1989

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES  
USAFSAM RESEARCH ON CONTACT LENSES IN THE FLYING ENVIRONMENT

Green, Robert P Jr

Operational Aeromedical Problems Course, USAF School of Aerospace Medicine, Brooks AFB TX, Jan 1989

RADIAL KERATOTOMY IN THE USAF

Green, Robert P Jr

HQ USAF/SGP Keratorefractive Surgery Committee, Brooks AFB TX, Jan 1989

EFFECT OF HIGH ELECTRIC FIELDS ON THE PHOTOISOMERIZATION OF ALL-TRANS RETINAL

Taboada J, F Aldape, and ATC Tsin

Proceedings of the Biophysical Society Meeting, Cincinnati OH, 16 Feb 1989

USAF OCULAR SURVEILLANCE RECOMMENDATIONS FOR LASER AND INCIDENTAL PERSONNEL

Green, Robert P Jr

Tri-Service Meeting, Aberdeen Proving Grounds MD, Feb 1989

WEAR OF CONTACT LENSES BY TACTICAL AIRCREWS AND IMPROVEMENTS TO THE MASK-ADAPTABLE GOGGLE (MAG-1)

Dennis, Richard J

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Dennis, Richard J

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CAREER IMPACT OF KERATOCONUS IN USAF AVIATORS, Carlson DW and Green RP Jr  
RETINAL DETACHMENTS IN USAF AVIATORS, Chou T and Green RP Jr  
ORBITAL BLOWOUT FRACTURE: FORCE QUANTITATION, Peters DR and Green RP Jr

Alamo City Residents Day, San Antonio TX, Mar 1989

1989 Presentations (continued)

OCULAR HAZARDS OF RADIANT ENERGY  
VISUAL PROBLEMS WITH VDTs

Tredici, Thomas J  
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Albany NY, 2 Mar 1989

OPHTHALMOLOGY BRANCH USAF SCHOOL OF AEROSPACE MEDICINE

Green, Robert P Jr  
Society of Air Force Clinical Surgeons, San Francisco CA, Apr 1989

DIAGNOSES AND TREATMENT OF INJURIES TO THE EYE

Tredici, Thomas J  
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GOLDMAN VISUAL FIELDS - THEORY AND PRACTICAL APPLICATION

Linnemeyer, Paula J  
Seventh Annual USAF Technicians' Meeting, San Antonio TX, 10-11 Apr 1989

FINE PERFORMANCE AND STEREOPSIS IN MICROSTRABISMIC USAF PILOTS

Pasquale AC III and L Tychsen  
Society of Air Force Clinical Surgeons Meeting, San Antonio TX,  
12 Apr 1989

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

Green, Robert P Jr  
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12 Apr 1989

AEROSPACE CONTACT LENS WEAR AND A NEW AIRCREW SPECTACLE

Dennis, Richard J  
Briefing presented at HQ Military Airlift Command, Scott AFB IL, Apr 1989

VISUAL STANDARDS FOR ASTRONAUTS

Tredici, Thomas J  
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16 May 1989

THE INCIDENCE OF SPECTACLE WEAR IN USAF AIRCREW

Miller, Robert E II  
Poster Presentation, Aerospace Medical Association Meeting, Wash DC,  
10 May 1989

1989 Presentations (continued)

NIGHT VISION GOGGLES: AEROMEDICAL ISSUES

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MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

Green, Robert P Jr  
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PSYCHOPHYSICS AND PHYSIOLOGY OF COLOR VISION

Yates, John T  
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Medical Center, and Brooke Army Medical Center residents, San Antonio TX,  
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FORCE NECESSARY TO FRACTURE THE ORBITAL FLOOR

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NOVEL OPTICALLY-COUPLED LASER PROBE AND METHOD FOR REFRACTIVE SURGERY

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28 Oct 1989

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Miller, Robert E II  
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12 Oct 1989

GLAUCOMA AND TONOMETRY DEMONSTRATION COURSE

Tredici TJ and PJ Linnemeyer  
Joint Commission on Allied Health Personnel in Ophthalmology Meeting,  
New Orleans LA, 1 Nov 1989

HOW TO DO EXCELLENT SCREENING FIELDS WITHOUT AN \$80,000 GADGET

O'Connor PS and TJ Tredici  
Course lecture; American Academy of Ophthalmology Meeting, New Orleans LA,  
29 Oct-3 Nov 1989

1989 Presentations (continued)

AEROSPACE MEDICAL UPDATE

Dennis, Richard J

Presented to the Optometry section of the Association of Military Surgeons of the United States, and the Air National Guard Optometric Society, San Diego CA, 13-14 Nov 1989

THE EFFECT OF FLUCTUATING +Gz EXPOSURE ON RIGID GAS-PERMEABLE CONTACT LENS WEAR

Dennis, Richard J

Poster Presentation, American Academy of Optometry, New Orleans LA, 10 Dec 1989

MYOPIA PROGRESSION IN SPECTACLED AIR FORCE PILOTS AND NAVIGATORS

Woessner WM, W Provines, and NS Ketchum

American Academy of Optometry, New Orleans LA, 10 Dec 1989

MEDICAL MANAGEMENT OF COMBAT AND PEACETIME LASER EYE INJURIES

Green, Robert P Jr

Advanced Aerospace Medicine Program, USAF School of Aerospace Medicine, Brooks AFB TX, Dec 1989

MEDICAL COMPLICATIONS OF CONTACT LENSES

Green, Robert P Jr

Advanced Aerospace Medicine Program, USAF School of Aerospace Medicine, Brooks AFB TX, Dec 1989

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THE PREVALENCE OF SPECTACLE WEAR AND INCIDENCE OF REFRACTIVE ERROR IN USAF AIRCREW

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USAFSAM-TR-89-28, USAF School of Aerospace Medicine, Brooks AFB TX,  
Feb 1990

OPTICALLY COUPLED TECHNIQUE FOR PHOTOREFRACTIVE SURGERY OF THE CORNEA

Toboada J and RH Poirier  
Optics Letters, 15, 458-460, Feb 1990

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OCULAR PROTECTION WITH NIGHT VISION GOGGLES

Miller, Robert E II  
(Abstract) Aviation, Space and Environmental Medicine  
Vol 61 #5 452, May 1990

PRESUMED OCULAR HISTOPLASMOSIS IN AVIATION PERSONNEL - THE USAF EXPERIENCE

Murphy EP and TJ Tredici  
(Abstract) Aviation, Space and Environmental Medicine  
Vol 61 #5, May 1990

CHOROIDAL NEVI IN USAF AVIATORS

Vandivort DC and TJ Tredici  
(Abstract) Aviation, Space and Environmental Medicine  
Vol 61 #5, May 1990

VISUAL STANDARDS FOR NVG USERS AND THE ROLE OF THE FLIGHT SURGEON

Miller, Robert E II  
Report on The JT Service Night Vision Conference,  
US Army Aviation Systems Command, St Louis MO, June 1990

RIGID GAS-PERMEABLE CONTACT LENS WEAR DURING + Gz ACCELERATION

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PRESCRIBING SPECTACLES FOR USAF AVIATORS

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GLARE AND AGE: ACQUISITION OF A CLINICAL DATA BASE FOR AIR CREW STANDARDS

Harrison JM, C Peng, CS Ballentine and JT Yates  
USAFSAM-TR-90-28, USAF School of Aerospace Medicine, Brooks AFB TX,  
Oct 1990

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Vol 6 #3 211-217, 1990

SURVEY OF SPECTACLE WEAR AND REFRACTIVE ERROR PREVALENCE IN USAF PILOTS AND NAVIGATORS

Miller RE II, WM Woessner, RJ Dennis, MR O'Neal, and RP Green Jr  
Optometry and Vision Science  
Vol 67 #11 833-839, Nov 1990

EPIDEMIC KERATOCONJUNCTIVITIS AT A U.S. MILITARY BASE, REPUBLIC OF THE PHILIPPINES

Paparello, Rickman, Ward, Hayer, Mesbahi, Siojo  
Military Medicine (In press)

AN EVALUATION OF THE PHOTOPIC ELECTRORETINOGRAM USING LOWER EYELID ELECTRODES

Anderson LB and JT Yates  
USAFSAM 90-23, USAF School of Aerospace Medicine, Brooks AFB TX, Dec 1990

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Vandivort DL, TJ Tredici, and RP Green Jr,  
USAFSAM-TR-89-11, USAF School of Aerospace Medicine, Brooks AFB TX,  
Dec 1990

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PUBLICATIONS AND PRESENTATIONS OF THE OPHTHALMOLOGY BRANCH, USAF SCHOOL OF  
AEROSPACE MEDICINE - 1981 - 1990

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OPHTHALMOLOGY BRANCH

1990 Presentations

MEDICAL COMPLICATIONS OF CONTACT LENSES

Green, Robert P Jr  
Operational Aeromedical Problems Course, Brooks AFB TX, Jan 1990

THE USAF SOFT CONTACT LENS IMPLEMENTATION PLAN

Dennis, Richard J  
Triservice Aeromedical Research Panel, Brooks AFB TX,  
10 Jan 1990

THE USAF SOFT CONTACT LENS IMPLEMENTATION PLAN

Dennis, Richard J  
USAF Flight Surgeons Conference on Operational Aeromedical  
Problems Course, Brooks AFB TX, 26 Jan 1990

AIRCREW SPECTACLES/CONTACT LENS UPDATE

Miller, Robert E II  
Aerospace Medicine Supervisors Course, Brooks AFB TX,  
26 Jan 1990

AIRCREW SPECTACLES AND OPTOMETRY UPDATE

Miller, Robert E II  
Operational Aeromedical Problems Course, Brooks AFB TX,  
26 Jan 1990

FIELD STUDY ON A NEW AIRCREW SPECTACLE AND SPECIAL REPORT ON AEROSPACE VISION PROBLEMS

Miller, Robert E II  
USAF Aircrew Spectacle Working Group, Brooks AFB TX, 29 Jan 1990

THE REPORT OF THE NRC WORKING GROUP ON THE WEAR OF CONTACT LENSES IN MILITARY AVIATION

Dennis, Richard J  
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8 Feb 1990

MEDICAL COMPLICATIONS OF CONTACT LENSES

Green, Robert P Jr  
NATO Flight Surgeons Meeting, Ramstein AFB Germany, Mar 1990

1990 Presentations (continued)

MEDICAL MANAGEMENT OF COMBAT AND PEACETIME LASER EYE INJURIES

Green, Robert P Jr  
NATO Flight Surgeons Meeting, Ramstein AFB Germany, March 1990

OCULAR PHOTOTOXIC HAZARDS AT ALTITUDE

Ivan, Douglas J  
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Ramstein AFB Germany, March 1990

USAF STUDY FOR A NEW AIRCREW SPECTACLE

Miller, Robert E II  
US Army Aviator Ophthalmic Frame Working Group Meeting,  
Ft Rucker AL, 14 Mar 1990

YELLOW LENSES/VISORS

Green, Robert P Jr  
Society of Air Force Clinical Surgeons, Washington DC, Apr 1990

INTRAOCULAR LENSES IN USAF AVIATORS

Green, Robert P Jr  
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RADIAL KERATOTOMY IN USAF AVIATORS  
COLORED LENSES/VISORS IN AVIATION

Green, Robert P Jr  
Aerospace Medical Association Meeting, New Orleans LA, May 1990

APPLIED ANATOMY AND PHYSIOLOGY FOR THE OCCUPATIONAL PHYSICIAN  
OCULAR HAZARDS OF RADIANT ENERGY  
VDTS AND VISION OF WORKERS  
VISUAL SCREENING IN INDUSTRY  
SLIT LAMP BIOMICROSCOPY FOR THE OCCUPATIONAL PHYSICIAN

Tredici, Thomas J  
American Occupational Medical Association Meeting  
Houston TX, Apr 29-May 3, 1990

OCULAR HAZARD AT ALTITUDE  
SUNGLASSES AND USAF CONTACT LENS PROGRAM

Ivan, Douglas J  
Presented at C5A Tactical Airlift Wing (433rd), San Antonio TX, May 1990

1990 Presentations (continued)

PRESUMED OCULAR HISTOPLASMOSIS IN AVIATION PERSONNEL

Murphy EP and TJ Tredici  
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CHOROIDAL NEVI IN USAF AVIATORS

Vandivort DL, TJ Tredici, and RP Green Jr  
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IMPORTANCE OF NIGHT VISION IN MILITARY AVIATION

Tredici, Thomas J  
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OCULAR HAZARDS OF RADIANT ENERGY

Tredici, Thomas J  
Human Factors in Aviation Intl Conference, Southampton PA, 7-11 May 1990

CONTROVERSIES IN AEROSPACE OPHTHALMOLOGY OCULAR PROTECTION WITH NIGHT VISION GOGGLES

Miller, Robert E II  
61st Aerospace Medical Association Meeting, New Orleans LA, 14 May 1990

YELLOW FILTERS AND FLYING

Green, Robert P Jr  
61st Aerospace Medical Association Meeting, New Orleans LA, 13-17 May 1990

THE USE OF INTRAOCULAR LENSES IN USAF FLYER

Ivan DJ and RP Green Jr  
61st Aerospace Medical Association Meeting, New Orleans LA, 13-17 May 1990

CONJUNCTIVITIS IN THE AVIATOR

Ward, Jane B  
61st Aerospace Medical Association Meeting, New Orleans LA, 14 May 1990

ADVANCES IN AIRCREW VISUAL APPLIANCES

Miller, Robert E II  
Poster Presentation Briefing for Commander of AF Systems Command,  
Brooks AFB TX, 30 May 1990

1990 Presentations (continued)

USAF VISUAL STANDARDS FOR NVG USERS AND THE ROLE OF THE FLIGHT SURGEON

Miller, Robert E II  
5th Annual JT Service Night Vision Conference, St Louis MO,  
6 June 1990

OCULAR PROBLEMS-SPACE STATION FREEDOM HEALTH MAINTENANCE FACILITY

Tredici, Thomas J  
Clinical Consultant Seminar, NASA, Houston TX, 27-29 Aug 1990

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

Green, Robert P Jr  
38th International Congress of Aviation and Space Medicine, also  
Ophthalmology Session Chairman, Paris France, Sep 1990

NON-INVASIVE CORNEAL MODIFICATION WITH THE LASER INTRASTROMAL PHOTOKERATECTOMY  
PROBE

Taboada, John  
Corneal Refractive Laser Surgery: A Critical Appraisal of Current  
Lasers and Methods, Columbia University, New York, 15 Sep 1990

MEDICAL MANAGEMENT OF COMBAT LASER EYE INJURIES

Green, Robert P Jr  
AGARD, London England, Oct 1990

INTRAOCULAR LENSES IN USAF AVIATORS

Green, Robert P Jr  
AGARD, London England, Oct 1990

VISUAL PERFORMANCE USING THE FV4 LASER PROTECTION GOGGLE

Pasquale AC III, DJ Ivan, JT Yates, and MW Mayo  
LAIRS Conference Letterman Army Institute of Research, Presidio  
of San Francisco CA, Oct 1990

VISUAL ELECTRODIAGNOSTIC TECHNIQUES

Yates, John T  
University of Texas Health Science Center at San Antonio, Oct 1990

1990 Presentations (continued)

GLAUCOMA AND TONOMETRY

Tredici TJ and L Tredici  
Joint Commission on Allied Health Personnel in Ophthalmology Course  
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HOW TO DO A VISUAL FIELD SCREENING WITHOUT AN \$80,000 GADGET

O'Connor P and TJ Tredici  
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LASER INTRASTROMAL PHOTO REFRACTIVE SURGERY USING A NOVEL CONTACT OPTICALLY COUPLED PROBE

Taboada J and RH Poirier  
Third International Conference on Laser Surgery of the Cornea,  
Atlanta GA, 3 Nov 1990

NIGHT VISION GOGGLES AND THE ROLE OF THE FLIGHT SURGEON

Miller, Robert E II  
Night Vision Device Working Group, Headquarters, Air Force Special  
Operations Command, Hurlburt Field FL, 7 Nov 1990

LENS DURABILITY AND AERP COMPATIBILITY STUDY

Miller, Robert E II  
USAF Aircrew Spectacle Working Group, Brooks AFB TX, 4 Dec 1990

ADULT ONSET MYOPIA IN AIR FORCE PILOTS AND NAVIGATORS

Woessner WM and Miller RE II  
Annual Academy of Optometry Meeting, Nashville TN, 8 Dec 1990