Publications and Presentations of the Ophthalmology Branch, U.S. Air Force School of Aerospace Medicine, 2006-2010

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This report is published in the interest of scientific and technical information exchange, and its publication does not constitute the Government’s approval or disapproval of its ideas or findings.
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 U.S. Air Force School of Aerospace Medicine has exclusively performed this task for nearly 93 years. The visual problems and solutions proposed are documented in the publications and invited presentations of Ophthalmology Branch personnel, listed for the years 2006-2010. 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, refractive surgery in the aviator, etc.
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PUBLICATIONS

1. EFFECTS OF POSITIVE ACCELERATION ON CORNEAL STABILITY IN PHOTOREFRACTIVE KERATECTOMY (PRK) SUBJECTS
Thompson WT, O’Connor RB, Dooley JW, Tutt RC, Ivan DJ, Baldwin JB, and Hiers PL
2006

PUBLICATIONS

1. RETESTING COLOR VISION IN TRAINED USAF AIR CREW
   Ivan DJ, Gooch JM, and Rabin JC
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 77, No. 3; March 2006

2. VISUAL AND OCULAR FINDINGS OF ASTRONAUT CANDIDATES
   Tredici TJ and Ivan DJ
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 77, No. 3; March 2006

3. USAF AVIATION SPECTACLE FRAME OF CHOICE PROGRAM
   Tutt RC, Ivan DJ, and Tredici TJ
   Abstract: Aviation, Space and Environmental Medicine, Vol. 77, No. 3; March 2006

4. CLINICAL PROGRESSIVE TO KERATOCONUS IN USAF PILOT APPLICANTS WITH TOPOGRAPHIC PATTERN SUGGESTIVE OF KERATOCONUS
   Gooch JM, Ivan DJ, and Thornberry M
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 77, No. 3; March 2006

5. OPERATIONAL BASED VISION ASSESSMENT
   Clark P, Ivan DJ, and Giovannetti D
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 77, No. 3; March 2006

6. COMPLETE ASSESSMENT OF CONTRAST SENSITIVITY FOR AEROSPACE VISION
   Rabin JC, Ivan DJ, and Linnemeyer S
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 77, No. 3; March 2006

7. NIGHT FIRING PERFORMANCE FOLLOWING PHOTOREFRACTIVE KERATECTOMY AND LASER IN SITU KERATOMILEUSIS
   Bower KS, Burka JM, Subramanian PS, Stutzman RD, Mines MJ, and Rabin JC
   Military Medicine; 2006 Jun; 171(6):468-71

8. THE U.S. AIR FORCE PHOTOREFRACTIVE KERATECTOMY (PRK) STUDY: EVALUATION OF RESIDUAL REFRACTIVE ERROR AND HIGH- AND LOW-CONTRAST VISUAL ACUITY
   Miller RE, Thompson WT, Ivan DJ, Tutt RC, Baldwin JB, LoRusso FJ, Smith RE, and Hiers PL

9. PERSCRIBING SPECTACLES FOR USAF AVIATORS: 2ND EDITION.
   Kent JF and Miller RE
   Aerospace Medicine, Brooks City-Base, TX. Final Draft Oct 2006

10. A PROSPECTIVE STUDY OF THE EYEPORTE VISION TRAINING SYSTEM
    Laukkonen H and Rabin JC
    Optometry, Oct 2007; 77(10):508-14
PRESENTATIONS

1. **C F FLIGHT SURGEON COURSE (4-TOPICS)**
   *Ivan DJ*
   Presentation: DRDC, Toronto, Canada; Feb 2006

2. **AEROMEDICAL VISION LECTURES (4-TOPICS)**
   *Ivan DJ*

3. **PROTECTION OF THE AVIATOR'S VISION FROM HIGH INTENSITY LIGHT: A HISTORICAL REVIEW**
   *Tredici TJ*
   Presentation: Lasers on the Modern Battlefield Conference. Brooks City-Base, TX; 27 Feb 2006

4. **RETESTING COLOR VISION IN TRAINED AIRCREW**
   *Ivan DJ, Gooch JM, and Rabin JC*

5. **VISUAL AND OCULAR FINDINGS OF ASTRONAUT CANDIDATES**
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   *Gooch JM, Ivan DJ, and Thornberry*
   Presentation: Aerospace Medical Association Annual Meeting, Orlando, FL; 14-18 May 2006

9. **OPERATIONAL BASED VISION ASSESSMENT**
   *Clark P, Ivan DJ, and Giovannetti D*
   Presentation: Aerospace Medical Association Annual Meeting, Orlando, FL; 14-18 May 2006

10. **A NEW METRIC FOR QUALIFYING THE IMPACT OF HIGHER ORDER ABERRATIONS**
    *Rabin JC, Linnemeyer S, Foxworth M, and Ivan DJ*
    Poster Presentation: Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO). Fort Lauderdale, FL; May 2006

11. **AEROMEDICAL VISION LECTURES (5-TOPICS)**
    *Ivan DJ*
    Presentation: At the RAF Diploma in Aviation Medicine Course, RAF Heathrow, UK; 05-06 Jun 2006

12. **OPHTHALMOLOGICAL CHALLENGES AND ISSUES IN OPERATIONAL FLIGHT MEDICINE**
    *Ivan DJ*
    Presentation: 52nd German Air Force Flight Surgeons Conference, Berlin, Germany; 6-9 Jun 2006
13. **CORNEAL TOPOGRAPHIC PATTERN SUGGESTIVE OF KERATOCONUS (TPSK): RISK FACTOR FOR PROGRESSIVE CLINICAL KERATOCONUS IN USAF PILOT APPLICANTS (**Best Poster Award)**

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14. **THE IMPACT OF BLUE-BLOCKING INTRAOCULAR LENSES ON COLOR VISION PERFORMANCE**

*Rubin RM, Ivan DJ, Gooch JM, and Tsang A*


15. **A NEW CLINICAL TEST OF NIGHT VISION GOGGLE PERFORMANCE**

*Rabin JC, DeMordaunt R, Simpson D, Hiers P, Ivan DJ, Foxworth M, and Linnemeyer S*

Poster Presentation: American Academy of Optometry. Denver, CO; Dec 2006

16. **CONTRAST SENSITIVITY AND COLOR VISION: FROM BASIC SCIENCE TO CLINICAL APPLICATION**

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Poster Presentation: American Academy of Optometry; Denver, CO; Dec 2006
2007

PUBLICATIONS

1. **AEROMEDICAL VISION RESEARCH AT BROOKS**
   *Tredici TJ and Ivan DJ*
   Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX; Eagle Applied Sciences, LLC, Brooks City-Base, TX
   Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

2. **INCIDENCE AND EFFECTS OF RESIDUAL REFRACTIVE ERRORS AFTER PRK IN TRAINED PILOTS AND PILOT CANDIDATES**
   *Miller RE, Wright ST, Tutt RC, Clark PJ, Gooch JM, Ivan DJ, and Hiers PL*
   Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX
   Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

3. **THE UTILITY OF NON-TRADITIONAL VISION TESTING IN IDENTIFYING COMPLICATIONS AFTER PRK**
   *Wright ST, Miller RE, Clark PJ, Tutt RC, Rabin JC, Gooch JM, Ivan DJ, Thompson WT and Hiers PL*
   Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX
   Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

4. **THE PREVALANCE OF CORRECTIVE LENSES AMONG U.S. AIR FORCE PILOTS**
   *Clark PJ, Miller RE, Tutt RC, Leonard J, Myatt R, and Gooch JM*
   Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX; Air Force Population Health Scientific Studies, Brooks City-Base, TX
   Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

5. **COLOR VISION PERFORMANCE WITH BLUE-BLOCKING IOLS**
   *Ivan DJ, Rubin RM, Rabin JC, Tsang A, Gooch JM, Linnemeyer S, and Foxworth M*
   Abstract: Eagle Applied Sciences, LLC, Brooks City-Base, TX; USAF School of Aerospace Medicine, Brooks City-Base, TX
   Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

6. **SENSITIVITY OF COLOR VISION SCREENING: ALTERNATIVES FOR THE FUTURE**
   *Rabin RC, Gooch JM, Ivan DJ, Linnemeyer S, and Foxworth M*
   Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX; Eagle Applied Science, LLC, Brooks City-Base, TX
   Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

7. **CLINICAL ASSESSMENT OF NIGHT VISION GOGGLE USER PERFORMANCE**
   *Rabin JC, Ivan DJ, Gooch JM, Foxworth M, Linnemeyer S, and Hiers PL*
   Abstract: USAF School of Aerospace Medicine, Brooks City-Base, TX; Eagle Applied Science, LLC, Brooks City-Base, TX
   Aviation, Space, and Environmental Medicine, Vol. 78, No. 3; March 2007

8. **OPHTHALMIC SURGERIES AND ISSUES**
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PRESENTATIONS

1. **OPHTHALMOLOGY ISSUE IN AGING AIRCREW**  
   *Ivan DJ*  
   Presentation: 2007 NATO Flight Surgeon's Conference, Ramstein AB, Germany; March 2007

2. **THE WILLIAM K. STEWART MEMORIAL LECTURE OF ROYAL AERONAUTICAL SOCIETY**  
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7. **AEROMEDICAL VISION RESEARCH AT BROOKS CITY-BASE TX**  
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8. **CATARACT SURGERY AND INTRA-OCULAR IMPLANTS IN USAF AIRCREW**  
   *Ivan DJ*  
   Presentation: University of Colorado Ophthalmology Residency Program, Denver, CO; 29 June 2007

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11. **COLOR VISION PERFORMANCE WITH BLUE-BLOCKING IOLS**  
    *Ivan DJ, Rubin RM, Rabin JC, Tsang A, Gooch JM, Linnemeyer S, and Foxworth M*  
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17. RAF DIPLOMA IN AVIATION MEDICINE LECTURES (5 TOPICS)
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1. CLINICAL PRACTICE GUIDELINES FOR CATARACTS
   Gooch JM
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008

2. CORRECTIVE LENS USE AND THE INTEREST IN REFRACTIVE SURGERY AMONG USAF PILOTS
   Wright ST, Clark PJ, Tutt TC, Stanek S, and Gooch JM
   USAF School of Aerospace Medicine, Brooks City-Base, TX
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4. USAF AVIATION SPECTACLE FRAME OF CHOICE: NEW DEVELOPMENTS
   Tutt RC, Ivan DJ, Gooch JM, and Tredici TJ
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008

5. VISUAL PERFORMANCE IN THE EARLY MONTHS FOLLOWING PRK
   Wright S, Stanek S, Rabin JC, Gooch JM, and Thompson BT
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008

6. AUTOMATED TESTING OF CONE CONTRAST SENSITIVITY
   Rabin JC, Gooch JM, and Ivan DJ
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008

7. EFFECTIVENESS OF THE FARNSWORTH LANTERN, D-15 AND FM-100 HUE TESTS TO IDENTIFY COLOR VISION DEFECTIVES WITHIN A PRE-SCREENED USAF PILOT CANDIDATE POOL
   Ivan DJ, Kurz C, Gooch JM, Rabin JC, and Thompson WT
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008

8. IS 20/20 GOOD ENOUGH? QUALITY OF VISION TESTING FOR TODAY AND TOMORROW
   Rabin JC, Gooch JM, Ivan DJ, Rubin RM, Linnemeyer S, and Foxworth M
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008

9. OPHTHALMOLOGY TRAINING FOR THE USAF FLIGHT SURGEON
   Tredici TJ, Gooch JM, Ivan DJ, Rubin RM, and Thomas R
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 79, No. 3; March 2008
PRESENTATIONS

1. REFRACTIVE SURGERY IN AIRCREW COLOR VISION ISSUES IN MILITARY AVIATION USAF COLOR VISION TESTING METHODOLOGY: THE LASER THREAT IN AVIATION  
   Ivan DJ  
   Presentation: C F Flight Surgeons Course- DROC, Toronto, Ontario, Canada; Feb 2008

2. USAF COLOR VISION TESTING STRATOCOM METHODOLGY  
   Ivan DJ, Gooch JM, and Tredici TJ  

3. THE EFFECTIVENESS OF THE FARMSWORTH LANTERN, D-15, AND FM-100 HUE TESTS TO IDENTIFY COLOR VISION DEFECTIVE WITHIN A PRE-SCREENED USAF PILOT CANDIDATE POOL  
   Ivan DJ, Rabin JC, et al.  

4. USAF AVIATION SPECTACLE OF CHOICE: NEW DEVELOPMENTS  
   Tutt RC, Ivan DJ, Gooch JM, Tredici TJ  
   Poster Presentation: Aerospace Medical Association (ASMA) Annual Scientific Meeting, Boston, MA; 12 May 2008

5. SENSITIVITY OF COLOR VISION SCREENING: ALTERNATIVES FOR THE FUTURE  
   Rabin JC, Ivan DJ, Gooch JM; Linnemeyer S, and Foxworth M  

6. AUTOMATED TESTING OF CONE CONTRAST SENSITIVITY  
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   Gooch JM  
   USAF School of Aerospace Medicine, Brooks City-Base, TX  

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    Wright ST, Clark PJ, Tutt, RC, Stanek S, and Gooch JM  
11. OCULAR INJURY REDUCTION FROM OCULAR PROTECTION USE IN CURRENT COMBAT OPERATIONS

Thomas R

Presentation: 12th International Conference on Emerging Medicine, San Antonio, TX; April 2008
2009

PUBLICATIONS

1. AIRCREW SUN PROTECTION CATARACTS OR SUNGLASSES?
   Ivan DJ, Tutt RC, Tredici TJ, and Gooch JM
   Eagle Applied Sciences, USAFSAM/FECO, Brooks City-Base, TX; Northrop Grumman Corp; USAFSAM/FECO, Brooks City-Base, TX; USAFSAM, Aerospace Ophthalmology Branch, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

2. MEASURED COGNITIVE SPATIAL TESTING PERFORMANCE AND WAIVED DEFECTIVE STEREOPSIS AS USAF PILOT TRAINING GRADUATION PREDICTORS
   Serkowski R, Novy PL, Gooch JM, Thompson WT, and Chappelle W
   USAF School of Aerospace Medicine, Brooks City-Base, TX; USAFSAM Neuropsychiatry Branch, Brooks City-Base, TX; USAFSAM, Aeromedical Consultation Service, Neuropsychiatry Branch, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

3. THE SUPER VISION-NVG TEST
   Rabin JC, Gooch JM, Davies B, Ivan DJ, Linnemeyer S, and Foxworth M
   Aerospace Ophthalmology Branch, USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

4. SURGICAL CORRECTION OF PRESBYOPIA AIRCREW
   Gooch JM, Tredici TJ, Tutt RC, and Aaron MT
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

5. PRESBYOPIA: NEMESIS OF THE SENIOR AVIATOR
   Tredici TJ, Tutt RC, Gooch JM, Aaron MT, Wright ST, Clark PJ, and Miller RL
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

6. PRESBYOPIA CONSIDERATION IN THE COCKPIT ENVIRONMENT
   Tutt RC, Tredici TJ, Gooch JM, and Aaron MT
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

7. OPERATIONALLY BASED VISION ASSESSMENT LABORATORY DEVELOPMENT
   Gooch JM, Sweet B, Clark PJ, Gaska JP, Winterbottom M, Rader J, and Aaron MT
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

8. USAF QUALITY OF VISION (QOV) IMPLEMENTATION
   Tutt RC, Aaron MT, and Gooch JM
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

9. SPECTRAL FILTER EFFECTS ON NIGHT VISION GOGGLE ACUITY AND PRESERVATION OF DARK ADAPTATION
   Wright ST, Thomas RS, Clark PJ, Staneck SR, Gooch JM, and Thompson WT
   USAF School of Aerospace Medicine, Brooks City-Base, TX
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009
10. ANTI-REFLECTIVE COATING OPERATIONAL PERFORMANCE EVALUATION  
   Clark PJ, Wright ST, Stanek SR, Gooch JM, and Thompson WT  
   USAF School of Aerospace Medicine, Brooks City-Base, TX  
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

11. THE EFFECT OF BLUE ON LANDOLT "C" ACUITY AND SIMULATED AIRCRAFT FEATURE IDENTIFICATION  
   Gaska JP, Clark PJ, Winterbottom M, Sweet B, and Gooch JM  
   Link Simulation and Training, Mesa, AZ; USAF School of Aerospace Medicine, Brooks City-Base, TX; AFRL, Mesa, AZ; NASA Ames Research Center, Moffett Field, CA  
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 80, No. 3, March 2009

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13. OPTICAL FILTER EFFECTS ON NIGHT VISION GOGGLE ACUITY AND PRESERVATION OF DARK ADAPTATION  
   Thomas RS, Wright ST, Clark PJ, Thompson WT, and Gooch JM  
   Aviation, Space, and Environmental Medicine 2010; 81(9):869-72

14. PEOPLE OF VISION: BOOK REVIEW  
   Tredici TJ  
   San Antonio Medicine, Vol. 62, No. 8; August 2009

PRESENTATIONS

1. REFRACTIVE SURGERY IN AIRCREW COLOR VISION IN MILITARY AVIATION THE LASER THREAT IN AVIATION  
   Ivan DJ  
   Presentation: C F Flight Surgeons Course (DRDC), Toronto, Ontario, Canada; Feb 2009

2. MEASURED COGNITIVE SPATIAL TESTING PERFORMANCE AND WAIVED DEFECTIVE STEREOPSIS ON USAF PILOT TRAINING GRADUATION PREDICTORS  
   Ivan DJ, Tutt RC, Tredici TJ, and Gooch JM  
   Presentation: Aerospace Medical Association Annual Scientific Meeting, Los Angeles, CA; 3-7 May 2009

3. THE EFFECT OF BLUE ON LANDOLT "C" ACUITY AND SIMULATED AIRCRAFT FEATURE IDENTIFICATION  
   Gaska JP, Clark PJ, Winterbottom M, Sweet B, and Gooch JM  
   Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA; 3-7 May 2009

4. ANTI-REFLECTIVE COATING OPERATIONAL PERFORMANCE EVALUATION  
   Clark PJ, Wright ST, Stanek SR, Gooch JM, and Thompson WT  
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6. USAF QUALITY OF VISION (QOV) IMPLEMENTATION  
*Tutt RC, Aaron MT, and Gooch JM*  
Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Los Angeles, CA;  
3-7 May 2009  

7. OPERATIONAL BASED VISION ASSESSMENT LABORATORY DEVELOPMENT  
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3-7 May 2009  

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3-7 May 2009  

9. PRESBYOPIA: NEMESIS OF THE SENIOR AVIATOR  
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12. AIRCREW SUN PROTECTION: CATARACTS OR SUNGLASSES?  
*Ivan DJ, Tutt RC, Tredici TJ, and Gooch JM*  
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*Ivan DJ*  
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PUBLICATIONS

1. PIXEL SIZE REQUIREMENTS FOR AN EYE-LIMITED FLIGHT SIMULATION LABORATORY FOR OPERATIONAL BASED VISION ASSESSMENT
   Gaska J, Winterbottom M, Gooch JM, Aaron MT, Clark PJ, Rader J, and Sweet B
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010

2. WAVEFRONT DERIVED SPECTACLE LENS PERSCRIPTIONS FOR KERATOCONUS
   Clark PJ, Wright ST, Collins R, Autrey J, Gooch JM, Thompson WT, Lehman R, and Garcia P
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4. SENSITIVITY, SPECIFICITY AND APPLICATION OF THE CONE CONTRAST TEST IN THE PILOT APPLICANT POPULATION
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5. COLOR VISION DEFECTS ASSOCIATED WITH OPTIC NERVE HEAD DRUSEN IN USAF AVIATORS
   Ivan DJ, David RE, Rabin JC, Rubin RM, Gooch JM, and Tredici TJ
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010

6. OPTIC NERVE HEAD DRUSEN (ONHD) IN UNITED STATES AIR FORCE AIRCREW: A RETROSPECTIVE REVIEW
   David RE, Rubin RM, Gooch JM, Ivan DJ, and Tredici TJ
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010

7. EFFECT OF HIGH ALTITUDE ON LASER ASSISTED IN SITU KERATOMILEUSIS (LASIK) EYES
   Aaron MT, Gooch JM, Harvey RR, Davis RE, and Tutt RC
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010

8. PERMANENT GROUNDING OF A USAF PILOT FOLLOWING PHOTOREFRACTIVE KERATECTOMY (PRK): A CASE REPORT
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9. MYOPIA - NEMESIS OF THE MILITARY AVIATOR
   Tredici TJ, Ivan DJ, and Gooch JM
   Abstract: Aviation, Space, and Environmental Medicine, Vol. 81, No. 3; March 2010
PRESENTATIONS

1. MILITARY PILOT TRAINING IN WORLD WAR II  
   Tredici TJ  
   Presentation: Fellows Group at the Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 10 May 2010

2. MYOPIA: NEMESIS OF THE MILITARY AVIATOR  
   Tredici TJ  
   Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 13 May 2010

3. PERMANENT GROUNDING OF A USAF PILOT FOLLOWING PHOTOREFRACTIVE KERATECTOMY (PRK): A CASE REPORT  
   Ivan DJ, Gooch JM, Rubin RM, Tredici TJ, and Davis RE  
   Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 9-13 May 2010

4. PIXEL SIZE REQUIREMENTS FOR AN EYE-LIMITED FLIGHT SIMULATION LABORATORY FOR OPERATIONAL BASED VISION ASSESSMENT  
   Gaska J, Winterbottom M, Gooch JM, Aaron MT, Clark PJ, Rader J, and Sweet B  
   Presentation: Aerospace Medical Association (AsMA) Annual Meeting, Phoenix, AZ; 9-13 May 2010

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