

AVIATION MEDICAL PAPERS AND REPORTS

A BIBLIOGRAPHY

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AVIATION MEDICAL PAPERS AND REPORTS

Bureau of Air Commerce, Medical Service

ABSTRACTS OF AVIATION PSYCHOLOGY
by G. Razzan. Sept. 1941 256 p.

Abstracts Aviation medicine Psychology

MED 1

Bureau of Air Commerce, Medical Service

ANALYSIS OF THE AVIATION MEDICINE SITUATION AND
RECOMMENDATIONS FOR A BUREAU PROGRAM
by W. H. Miller. April 1938 7 p.
Civil Aeronautics Authority Technical Development
Report No. 9--Formerly Report No. 10, Air Transport
Section, Safety and Planning Division, Bureau of
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the CAA (1940)

Aviation medicine Fatigue (physiology)
Medical examination Medical research Pilots

MED 2

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ANALYSIS OF THE AVIATION MEDICINE SITUATION AND
RECOMMENDATIONS FOR A BUREAU PROGRAM
by W. H. Miller. April 1938 20 p.
Report No. 10

Fatigue (physiology) Neurology Physiology Pilots

MED 3 406

Bureau of Air Commerce, Medical Service

THE EFFECTS OF OXYGEN DEPRIVATION (HIGH ALTITUDE)
ON THE HUMAN ORGANISM
by R. A. McFarland. May 1938 95 p.

Blood High altitude Hypoxia Oxygen Physiology
Psychometrics

MED 4

Bureau of Air Commerce, Medical Service

HANDBOOK FOR MEDICAL EXAMINERS
July 1940 54 p.

Handbooks Medical examination Medical personnel
Physical fitness Pilots Standards

MED 5

Bureau of Air Commerce, Medical Service

REPORT OF AVIATION MEDICAL MEETING KANSAS CITY,
MISSOURI, JAN. 24-25, 1939
Note No. 17
May 1939 8 p.

Fatigue (physiology) Medical examination
Medical research Physical fitness Pilots

MED 6

CAA, Division of Research

PROBLEMS OF CONSISTENCY ARISING FROM CAA MEDICAL
EXAMINATIONS
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Research Report #1

Medical examination Physical fitness Pilots
Selection Standards

MED 7 453

CAA, Division of Research

ANALYSIS OF PHYSICAL DEFECTS FOUND BY THE ARMED
SERVICES IN PILOT CERTIFIED TO BE WITHOUT
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EXAMINATION
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Research Report #2

Medical examination Pilots Selection
Standards Statistical analysis

MED 8 454

CAA, Division of Research

THE RELATION TO ACCIDENT OF PHYSICAL DEFECTS NOTED
IN STANDARD CAA MEDICAL EXAMINATION
by R. Franzen and D. R. Brimhall. 1942 23 p.
Research Report #3

Aviation accidents Medical examination
Physical fitness Pilots

MED 9 455

CAA, Division of Research

AN HISTORICAL INTRODUCTION TO AVIATION PSYCHOLOGY
by National Research Council, Committee on
Selection and Training of Aircraft Pilots. 1942
71 p.
Research Report #4

Aviation psychology History Pilots
Psychometrics Selection

MED 10 456

CAA, Division of Research

THE INFLUENCE OF PHYSIOLOGICALLY EFFECTIVE DOSES OF EPINEPHRINE ON VESTIBULARLY INDUCED NAUSEA by R. M. Dorcus. 1942 10 p. Research Report #5

Emesis Epinephrine Motion sickness Physiology

MED 11 457

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THE EFFECTIVENESS OF "PATTER" AND "FUNDAMENTALS OF BASIC FLIGHT MANEUVERS" AS TRAINING AIDS by E. L. Kelly and E. Ewart. 1942 20 p. Research Report #6

Pilots Training Vocabulary

MED 12 458

CAA, Division of Research

A PRELIMINARY STUDY OF CERTAIN PREDICTORS OF SUCCESS IN CIVILIAN PILOT TRAINING by E. L. Kelly and E. Ewart. 1942 13 p. Research Report #7

Aptitude tests Correlation techniques Pilots Training

MED 13 459

CAA, Division of Research

THE EFFECT OF NOISE AND VIBRATION ON CERTAIN PSYCHOMOTOR RESPONSES by D. Lewis. 1943 87 p. Research Report #8

Noise Pilots Psychometrics Vibration

MED 14 460

CAA, Division of Research

REPORT ON CAA-NATIONAL TESTING SERVICE (FIRST PHASE JULY 20, 1942-AUGUST 2, 1942) by National Research Council, Committee on Selection and Training of Aircraft Pilots. 1943 22 p. Research Report #9

Aptitude tests Pilots Selection Test methods

MED 15 461

CAA, Division of Research

ANALYSIS OF EYE FIXATIONS AND PATTERN OF EYE MOVEMENT IN LANDING A PIPER CUB J-3 AIRPLANE by J. Tiffin and J. Bromer. 1943 26 p. Research Report #10

Eye Landings Motion Pilots Space perception

MED 16 462

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TESTS OF THE "ABILITY TO TAKE IT" by J. W. Dunlap. 1943 42 p. Research Report #11

Fatigue (physiology) Performance tests Pilots Psychometrics Thresholds (physiology)

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A METHOD FOR SELECTING COMBINATIONS OF TESTS AND DETERMINING THEIR BEST "CUT-OFF POINTS" TO YIELD A DICHOTOMY MOST LIKE A CATEGORICAL CRITERION by R. Franzen and P. F. Lazarsfeld. 1943 24 p. Research Report #12

Aptitude tests Mathematical analysis Psychometrics

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ELECTROENCEPHALOGRAPHY OF NAVAL AVIATORS by A. Forbes and H. Davis, with a supplement by P. A. Davis. 1943 35 p. Research Report #13

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MED 20 466

CAA, Division of Research

THE USE OF STANDARD FLIGHTS AND MOTION PHOTOGRAPHY IN THE ANALYSIS OF AIRCRAFT PILOT PERFORMANCE by M. S. Viteles and A. S. Thompson. 1943 50 p. Research Report #15

Motion Photographic analysis Pilots Selection Training

MED 21 467

CAA, Division of Research

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by National Research Council, Committee on Selection and Training of Aircraft Pilots. 1943 41 p.
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Learning Pilots Psychology Training

MED 22 468

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Factor analysis Respiratory system

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by E. L. Kelly, R. J. Wherry, R. C. Rogers.
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Aptitude tests Factor analysis Performance tests
Pilots

MED 24 470

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Statistical analysis

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A COURSE IN TRAINING METHODS FOR PILOT INSTRUCTORS
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Instructors Learning Pilots Psychology
Training

MED 26 472

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Instructors Pilots Standards
Statistical analysis Training

MED 27 473

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THE FLIGHT INSTRUCTOR'S VOCABULARY

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Instructors Pilots Training devices
Vocabulary

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Research Report #23

Flight paths Performance tests Recording devices
Ride recorder

MED 29 475

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by W. R. Miles. 1943 43 p.
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Perspiration Recording devices Skin Temperature

MED 30 476

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Oxygen consumption Pilots Respiration Selection

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A PRELIMINARY STUDY OF PHYSICAL STANDARDS IN RELATION TO SUCCESS IN FLIGHT TRAINING

by D. R. Brimhall and R. Franzen. 1944 80 p.
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Statistical analysis

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STUDIES OF PREDICTORS OF ACHIEVEMENT IN LEARNING TO FLY (FOUR EARLY INVESTIGATIONS OF APTITUDE AND PERSONALITY TESTS IN RELATION TO FLYING)
by J. P. Foley, E. L. Kelly, T. Hunt, W. M. Lepley.
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A STUDY OF THE SLEEP MOTILITY OF STUDENT PILOTS
by F. A. Geldard. 1944 15 p.
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Motion Pilots Selection Sleep

MED 34 480

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THE EFFECT OF DISTRACTION LIGHTS UPON PERFORMANCE ON THE MASHBURN SERIAL COORDINATION TEST
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1944 33 p.
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Flight simulators Motor reactions
Psychomotor tests

MED 35 481

CAA, Division of Research

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Aptitude tests Pilots Statistical analysis
Training

MED 36 482

CAA, Division of Research

AN ANALYSIS OF PHOTOGRAPHIC RECORDS OF AIRCRAFT PILOT PERFORMANCE
by M. S. Viteles and A. S. Thompson. 1944 100 p.
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Flight instruments Motion-picture photography
Photographic analysis Statistical analysis

MED 37 483

CAA, Division of Research

ON THE ACTUAL AND POTENTIAL VALUE OF BIOGRAPHICAL INFORMATION AS A MEANS OF PREDICTING SUCCESS IN AERONAUTICAL TRAINING
by H. M. Johnson, M. L. Boots, R. J. Wherry.
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Personality tests Pilots Records
Statistical analysis

MED 38 484

CAA, Division of Research

AN INVESTIGATION OF THE INTERVIEW AS A TECHNIQUE FOR SELECTING AIRCRAFT PILOTS
by J. W. Dunlap and M. J. Wantman. 1944 63 p.
Research Report #33

Pilots Reliability Selection

MED 39 485

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A REVISED SERIAL REACTION TIME APPARATUS FOR USE IN APPRAISING FLYING APTITUDE
by R. A. McFarland and R. C. Channell. 1944 37 p.
Research Report #34

Aptitude tests Pilots Psychomotor tests
Reaction (psychology) Reflexes

MED 40 486

CAA, Division of Research

THE DEVELOPMENT OF THE CAA-NRC FLIGHT RECORDER
by W. McKay, J. G. Jenkins, M. S. Viteles.
1944 25 p.
Research Report #35

Acceleration Aerial rudders Ailerons Airspeed
Pilot elevators Recording devices

MED 41 487

CAA, Division of Research

A REVISED TWO-HAND COORDINATION TEST
by R. A. McFarland and R. C. Channell. 1944 27 p.
Research Report #36

Motor reactions Psychomotor tests
Statistical analysis Training

MED 42 488

CAA, Division of Research

THE ASSOCIATION BETWEEN RATINGS ON SPECIFIC
MANEUVERS AND SUCCESS OR FAILURE IN FLIGHT
TRAINING OF RAF CADETS
by M. S. Viteles, R. Franzen, R. C. Rogers.
1944 35 p.
Research Report #37

Flight paths Pilots Selection
Statistical analysis Training

MED 43 489

CAA, Division of Research

THE PENSACOLA STUDY OF NAVAL AVIATORS FINAL SUMMARY
REPORT
by R. A. McFarland and R. Franzen. 1944 139 p.
Research Report #38

Electrocardiography Naval aviation Physiology
Pilots Psychometrics

MED 44 490

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THE CAA-NATIONAL TESTING SERVICE SUMMARY OF TEST
RESULTS AND COMPARISONS WITH SUCCESS IN FLIGHT
TRAINING
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Aptitude tests Factor analysis Pilots Selection

MED 45 491

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STUDIES IN MOTION SICKNESS SERIES A
by G. R. Wendt and D. B. Lindsley. 1944 45 p.
Research Report #40

Amphetamines Electroencephalography
Motion sickness Physiology Temperature

MED 46 492

CAA, Division of Research

DETAILED STATISTICAL ANALYSIS OF DATA OBTAINED IN
THE PENSACOLA STUDY OF NAVAL AVIATORS
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Research Report #41

Naval aviation Physiology Pilots Psychology
Statistical analysis

MED 47 493

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ANALYSIS OF THE PERSONAL HISTORY INVENTORY
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1945 34 p.
Research Report #42

Aptitude tests Personality Pilots Selection
Statistical analysis

MED 48 494

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TRAINING STUDENTS
by National Research Council, Committee on Selection
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Research Report #43

Pilots Statistical analysis Training

MED 49 495

CAA, Division of Research

THE EFFECT OF MASSING AND DISTRIBUTION OF PRACTICE
ON ROTARY PURSUIT TEST SCORES
by K. W. Spence, C. E. Buxton, A. W. Melton.
1945 38 p.
Research Report #44

Learning Pilots Psychometrics Psychomotor tests
Selection Training

MED 50 496

CAA, Division of Research

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ON TWO-HAND COORDINATION TEST SCORES
by K. W. Spence, C. W. Buxton, A. W. Melton.
1945 20 p.
Research Report #45

Motor reactions Pilots Psychometrics
Psychomotor tests Selection Training

MED 51 497

CAA, Division of Research

THE AIRCRAFT PILOT: 5 YEARS OF RESEARCH (A
SUMMARY OF OUTCOMES)
by M. S. Viteles and National Research Council,
Committee on Selection and Training of Aircraft
Pilots. 1945 46 p.
Research Report #46

Aptitude tests Aviation accidents
Medical examination Motion sickness
Performance tests Pilots

MED 52 498

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HISTORY AND DEVELOPMENT OF THE OHIO STATE FLIGHT INVENTORY (PART I: EARLY VERSIONS AND BASIC RESEARCH)
by H. A. Edgerton and R. Y. Walker. 1945 58 p.
Research Report #47

Factor analysis Flight paths Performance tests
Pilots Statistical analysis

MED 53 499

CAA, Division of Research

A TEST OF DECISION TIME RELIABILITY AND "GENERALITY"
by L. Festinger and S. Wapner. 1945 45 p.
Research Report #48

Decision making Performance tests Pilots
Reliability Vision

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"ABILITY-TO-TAKE-IT" TESTS EXAMINER DIFFERENCES AND VALIDATION
by H. S. Odbert, L. Festinger, S. Wapner. 1945 38 p.
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Fatigue (physiology) Pain Performance tests
Pilots Psychometrics Thresholds

MED 55 501

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ANALYSIS OF THE DESIRE TO FLY (D-F) INVENTORY
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1945 27 p.
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Attitudes Personality tests Pilots
Statistical analysis

MED 56 502

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HISTORY AND DEVELOPMENT OF THE OHIO STATE FLIGHT INVENTORY (PART II RECENT VERSIONS AND CURRENT APPLICATIONS)
by National Research Council. Committee on Selection and Training of Aircraft Pilots. 1945 34 p.
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Factor analysis Performance tests Pilots
Statistical analysis Training

MED 57 503

CAA, Division of Research

REPORT ON THE BOSTON-MIDWEST PROJECT
by National Research Council, Committee on Selection and Training of Aircraft Pilots.
1945 103 p.
Research Report #52

Performance tests Personality tests Pilots
Selection Statistical analysis

MED 58 504

CAA, Division of Research

THE EFFECT OF MASSING AND DISTRIBUTION OF PRACTICE ON THE S.A.M. COMPLEX COORDINATION TEST
by K. W. Spence, C. E. Buxton, A. W. Melton.
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Research Report #53

Factor analysis Learning Motor reactions
Psychomotor tests Selection

MED 59 505

CAA, Division of Research

PRELIMINARY EXPERIMENT OF INVESTIGATIONS OF "TENSION" AS A DETERMINANT OF PERFORMANCE IN FLIGHT TRAINING
by A. C. Williams, Jr., J. W. MacMillan,
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Research Report #54

Motor reactions Physiology Pilots Psychology
Stress (physiology)

MED 60 506

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Research Report #55

Attitude indicators Flight paths Performance tests
Recording devices Statistical analysis

MED 61 507

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A STUDY OF INDIVIDUAL DIFFERENCES AMONG FLIGHT INSTRUCTORS IN MAKING SPOT LANDINGS
by R. Y. Walker, S. W. Bennett, E. S. Ewart.
1946 53 p.
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Flight paths Instructors Landings Pilots

MED 62 508

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MEASURES OF EXERCISE TOLERANCE
by C. Taylor and R. Franzen. 1946 79 p.
Research Report #57

Exercise Metabolism Physiology
Stress (physiology) Tolerances (physiology)

MED 63 509

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AN ANALYSIS OF INSPECTORS' RATINGS OF CHECK FLIGHTS
AS RECORDED ON FORM ACA 342Z
by L. Festinger, L. S. Kogan, H. S. Odbert,
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Research Report #58

Errors Performance tests Pilots Standards
Statistical analysis

MED 64 510

CAA, Division of Research

COMPARISON OF STUDENT PILOT PERFORMANCE IN
SUCCESSIVE CHECK FLIGHT AS MEASURED BY PHOTOGRAPHIC
RECORDS
by S. Wapner, L. Festinger, H. S. Odbert. 1946
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Research Report #59

Flight instruments Performance tests
Photographic analysis Pilots Students

MED 65 511

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STUDIES IN MOTION SICKNESS SERIES B
by G. R. Wendt and A. D. Tuttle. 1946 80 p.
Research Report #60

Aging (physiology) Aviation personnel
Motion sickness Statistical analysis

MED 66 512

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Aviation accidents Fatigue (physiology)
Hypoxia Motor reactions Noise Pilots

MED 67 513

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A STUDY OF VISUAL AND CARDIOVASCULAR STANDARDS IN
RELATION TO SUCCESS IN FLIGHT TRAINING
by National Research Council, Committee on Selection
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Cardiovascular system Medical examination
Pilots Space perception Training Vision

MED 68 514

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by E. S. Ewart, A. S. Thompson, M. S. Viteles.
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Research Report #63

Instructors Pilots Standards Training

MED 69 515

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AN APPRAISAL OF CERTAIN TESTS OF PILOT APTITUDE
by C. E. Buxton and K. W. Spence. 1946 124 p.
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Aptitude tests Motivation Pilots
Psychomotor tests Selection Statistical analysis

MED 70 516

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A PARTIAL ANALYSIS OF A THREE-MAN INTERVIEW
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IN THE CIVILIAN PILOT TRAINING PROGRAM
by C. J. Hill, Jr., D. L. Russell, G. R. Wendt.
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Decision making Motion sickness Pilots
Selection Statistical analysis

MED 71 517

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Autonomic nervous system Cardiovascular system
Hypertension Motion sickness Respiratory system

MED 72 518

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THE AGREEMENT BETWEEN INSPECTORS' OBSERVATIONS AS RECORDED ON THE OHIO STATE FLIGHT INVENTORY AND INSTRUMENT READINGS OBTAINED FROM PHOTOGRAPHIC RECORDS

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Instructors Performance tests Pilots
Selection Statistical analysis

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Landings Pilots Training Vision Visual acuity

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Statistical analysis Students Training devices

MED 75 521

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History Personality Pilots Selection Students

MED 76 522

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Airplane landings Analysis of variance Pilots
Stalling Training

MED 77 523

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by H. O. Present. 1947 40 p.
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Aviation accidents Performance tests Pilots
Transport planes

MED 78 525

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THE AIRLINE PILOT A SURVEY OF THE CRITICAL REQUIREMENTS OF HIS JOB AND OF PILOT EVALUATION AND SELECTION PROCEDURES

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Aviation accidents Job analysis Physiology
Pilots Transport planes

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by P. J. Rulon. 1947 136 p.
Research Report #74

Flight paths Pilots Stalling
Vertical indicators Warning systems

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Learning Pilots Sensory mechanisms Stalling
Warning systems

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Cockpits Display systems
Distance measuring equipment Human engineering
Instrument panels

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Vision

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CONDITIONS, EXPERIENCE, AND AGE
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Performance tests Pilots Proprioception
Space perception Training

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Factor analysis Naval aviation Physiology
Pilots Training

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Statistical analysis Training

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THE DEVELOPMENT OF A PROCEDURE FOR EVALUATING THE
PROFICIENCY OF AIR ROUTE TRAFFIC CONTROLLERS
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Research Report #83

Air traffic controllers Fatigue (physiology)
Job analysis

MED 89 536

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Radio equipment

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Commercial planes Job analysis Pilots
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STALL RECOGNITION IN A LIGHT AIRPLANE
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Instrument flight Pilots Reflexes Stalling
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CAA, Division of Research

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by M. Mochizuki, translated by W. F. Day. 1949 65 p.
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Motion sickness Pilots Psychology
Sensory mechanism Space perception

MED 93 546

CAA, Division of Research

THE AIRLINE TRYOUT OF THE STANDARD FLIGHT-CHECK
FOR THE AIRLINE TRANSPORT RATING
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Flight-check Performance tests Pilots
Transport planes

MED 94 541

CAA, Division of Research

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AIRLINE TRANSPORT RATING BASED ON THE AIRLINE
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Pilots

MED 95 542

CAA, Division of Research

STALL RECOVERY AND STALL WARNING INSTRUMENTATION
IN A LIGHT AIRPLANE
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Altimeters Stalling Utility planes
Warning systems

MED 96 90

CAA, Division of Research

FIELD TRYOUT OF A PROCEDURE FOR EVALUATING THE
PROFICIENCY OF AIR ROUTE TRAFFIC CONTROLLERS
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Research Report #91

Air traffic controllers Job analysis
Performance tests Records

MED 97 544

CAA, Division of Research

COMPARATIVE EVALUATION OF PICTORIAL AND SYMBOLIC
VOR NAVIGATION DISPLAYS IN THE 1-CA-1 LINK TRAINER
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Display systems Radio navigation
Training devices

MED 98 545

CAA, Division of Research

A STUDY OF THE SEMI-ANNUAL INSTRUMENT CHECK FOR
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by J. A. Nagay. 1950 43 p.
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Instrument flight Performance tests Pilots
Training

MED 99 546

CAA, Division of Research

VISUAL DEFICIENCY AND FLYING EXPERIENCE FOLLOWING
FLIGHT TRAINING
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Training Vision

MED 100 547

CAA, Division of Research

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Performance tests Pilots

MED 101 548

CAA, Division of Research

THE MEDICAL REQUIREMENTS OF THE CAA AND THE
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LICENSING DIVISION OF THE PROVISIONAL INTERNATIONAL
CIVIL AVIATION ORGANIZATION
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Research Report Spec.

Color vision Medical examination Nervous system
Pilots Sensory mechanisms

MED 102 524

CAA, Division of Research

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Ear Eye Motion sickness Pilots Sensitivity Students

MED 103

CAA, Division of Research

ANALYSIS OF RATINGS IN THE PRELIMINARY PHASE OF CAA TRAINING PROGRAM, PROGRESS REPORT
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Performance tests Pilots Standards Training

MED 104

CAA, Division of Research

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Aptitude tests Pilots Psychometrics Test construction (psychology) Training

MED 105

CAA, Division of Research

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by A. C. Williams and National Research Council, Committee on Selection and Training of Aircraft Pilots. Sept. 1940 16 p.
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Anxiety Physical fitness Pilots Psychomotor tests Selection Students

MED 106

CAA, Division of Research

CRITERIA OF FLIGHT COMPETENCE, PROGRESS REPORT
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Aptitude tests Motor reactions Performance tests Pilots Standards Training

MED 107

CAA, Division of Research

DEVELOPMENT OF A SCALE FOR RATING PILOT COMPETENCE, PROGRESS REPORT
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Behavior Factor analysis Performance tests Pilots Psychometrics Test construction (psychology)

MED 108

CAA, Division of Research

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Motor reactions Performance tests Pilots Posture Standards Training

MED 109

CAA, Division of Research

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Motor reactions Performance tests Pilots Recording systems Training

MED 110

CAA, Division of Research

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Instruction manuals Motion sickness Pilots Selection Students

MED 111

CAA, Division of Research

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Emotions Motor reactions Neuroses Physical fitness Pilots

MED 112

CAA, Division of Research

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Body Motor reactions Physical fitness Pilots
Posture Test construction (psychology)

MED 113

CAA, Division of Research

PERSONALITY, INTEREST, AND ATTITUDE INVENTORIES IN THE SELECTION OF CIVILIAN PILOTS, PROGRESS REPORT
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Attitudes Personality tests Pilots Psychometrics
Selection

MED 114

CAA, Division of Research

A PERSONALITY TEST TO AVOID GUESSING THE "RIGHT" ANSWERS IN THE SELECTION OF PILOTS, PROGRESS REPORT
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Factor analysis Personality tests Pilots
Psychometrics Selection
Test construction (psychology)

MED 115

CAA, Division of Research

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Aptitude tests Personality tests Pilots
Reliability Selection
Test construction (psychology)

MED 116

CAA, Division of Research

TESTS FOR THE SENSITIVITY OF PERIPHERAL VISION
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Landing Pilots Psychomotor tests Vision
Visual acuity

MED 117

CAA, Division of Research

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Psychomotor tests Selection

MED 118

CAA, Division of Research

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Learning Pilots Psychomotor tests
Recording systems Training

MED 119

CAA, Medical Service

ACCIDENT PREVENTION RESEARCH
by B. G. King
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Mar. 25, 1949 10 p.

Aviation accidents Human engineering
Stress (psychology) Stress (physiology)
Tolerances (physiology)

MED 120 325

CAA, Medical Service

THE AGE DISTRIBUTION OF CAPTAINS IN AIR CARRIER ACCIDENTS
July 1956 8 p.

Aging (physiology) Air carriers Aviation accident
Pilots Transport planes

MED 121 321

CAA, Medical Service

AGE, FITNESS, EXPERIENCE AND SAFETY

by B. G. King

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4 p.

Aviation safety Motor reactions Physical fitness
Stress (physiology) Tolerances (physiology)

MED 122 418

CAA, Medical Service

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Abandonment Aviation accidents Aviation safety
Tests Time

MED 123 309

CAA, Medical Service

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MED 124 327

CAA, Medical Service

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Abandonment Aircraft fires Aviation accidents
Aviation injuries

MED 125 306

CAA, Medical Service

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MED 126 324

CAA, Medical Service

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LOCKHEED 749

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MED 127 305

CAA, Medical Service

AIRCRAFT EVACUATION UNDER FIRE CONDITIONS

by B. G. King

Presented at Annual Meeting, National Fire Protection
Association, May 1964 17 p.

Abandonment Aircraft fires Hatches
Safety devices

MED 128 370

CAA, Medical Service

AIRCRAFT SAFETY BELTS THEIR INJURY EFFECT ON THE
HUMAN BODY

by H. De Haven, B. Tourin, S. Macri, Cornell
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July 1953 55 p.

Analysis performed under a special grant from CAA

Aviation injuries Aviation safety
Safety harness Utility planes

MED 129

CAA, Medical Service

THE ALLOWABLE DEGREE OF BODILY IMPAIRMENT FROM
TOXIC GASES

by C. R. Spealman

In, Statements Made to the Committee on Toxic Gases
of the Aero Medical Association Meeting, New York,
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Exhaust gases Pilots Sensory mechanisms
Tolerances (physiology) Toxicity

MED 130

CAA, Medical Service

AORTIC STENOSIS--A STUDY WITH SPECIAL REFERENCE TO
THE USE OF AN INDIRECT CAROTID PULSE RECORDING

by J. E. Smith, I. Hsu, J. M. Evans

Submitted to Am. Heart J. 58 4, Oct. 1959 14 p.

Arteries Diagnosis Diseases Heart

MED 131 417

CAA, Medical Service

AN APPROACH TO THE EVALUATION OF EMERGENCY EXIT
PROVISIONS

by B. G. King

Presented at Flight Safety Foundation, Air Safety
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Abandonment Aviation safety Design Hatches
Time

MED 132 380

CAA, Medical Service

AN APPROACH TO THE SELECTION OF REGRESSION CURVES
AS PREDICTORS FOR EMERGENCY EXIT EVALUATION
by R. Ostrich. Oct. 1953 6 p.

Abandonment Aviation safety Design Hatches
Time

MED 133

CAA, Medical Service

AREAS OF VISION AND COCKPIT VISIBILITY
by M. V. Hall and L. J. Greenbaum
Reprinted from Transact. Am. Acad. Ophthalmology
and Otolaryngology, Sept.-Oct. 1950 15 p.
Final report of CAA with Contract # NAonr 72-48

Cockpits Human engineering visibility Vision

MED 134

CAA, Medical Service

ASYMPTOMATIC MYOCARDIAL INFARCTION
by J. E. Smith
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Diagnosis Diseases Electrocardiography Heart

MED 135 402

CAA, Medical Service

Av-CIR CRASH SURVIVAL STUDY, US ARMY BELL H-13
ACCIDENT AT MONMOUTH COUNTY AIRPORT, BELMAR, N. J.,
JUNE 21, 1956
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Cornell University, Aviation Crash Injury Research.
Technical report issued under Contract # Nonr-401(21)
Feb. 1957 31 p.
Av-CIR-5-CSS/H-81

Aircraft seats Aviation accidents
Aviation injuries Design Helicopters Survival

MED 136

CAA, Medical Service

(AVIATION ACCIDENTS) an address
by A. J. Herbolzheimer
Presentation for initiation of course in Civil
Aviation Medicine, College of Medicine, University
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Aviation accidents Civil aviation Errors
History Medical research Pilots

MED 137

CAA, Medical Service

(AVIATION ACCIDENTS) an address
by M. Y. McCormick
Presented at Aero Medical Assoc. 16th Annual
Meeting, St. Louis, Missouri, Sept. 5, 1944 5 p.

Abnormal psychology Aviation accidents
Medical examination Psychiatry

MED 138

CAA, Medical Service

AVIATION MEDICAL RESEARCH FOR AIRMAN SAFETY
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Aviation medicine Aviation safety
Human engineering

MED 139 381

CAA, Medical Service

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Aviation medicine Aviation safety Newspapers

MED 140

CAA, Medical Service

AVIATION MEDICINE AND PHYSICAL STANDARDS FOR AIRMEN
by W. R. Stovall
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Human engineering Physical fitness Pilots
Standards

MED 141

CAA, Medical Service

AVIATION TOXICOLOGY--AN INTRODUCTION TO THE
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Prepared under the direction of the Committee on
Aviation Toxicology, Aero Medical Assoc. NY The
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Exhaust gases Health physics Insecticides
Poisoning Toxicity Waste gases

MED 142

CAA, Medical Service

AVIATION TOXICOLOGY BULLETINS, NOS. 1-18, APRIL 1950-JULY 1958 and INDEX TO ABSTRACTS IN BULLETINS NOS. 1-15, 1950-1958 166 p.

Aircraft Health physics Smokes Toxicity
Waste gases

MED 143

CAA, Medical Service

CAA-USPHS COOPERATION ON PROBLEMS OF PUBLIC HEALTH by C. R. Spealman Presented at, and published in, Third Annual Medical Officers' Conference, Aug. 24-26, 1949, 1 p.

Aircraft Design Health physics Law
United States Government

MED 144

CAA, Medical Service

A CALIBRATED BAR-MAGNET VELOCITY METER FOR USE IN BALLISTOCARDIOGRAPHY by J. E. Smith Reprinted from Am. Heart J. Vol. 44, No. 6, Dec. 1952 8 p.

Ballistocardiography Calibration Instrumentation
Measuring devices (electrical and electronic)

MED 145 401

CAA, Medical Service

THE CHANGING AGE DISTRIBUTION OF HOLDERS OF CLASS I MEDICAL CERTIFICATES Nov. 1954 9 p.

Aging (physiology) Physical fitness Pilots
Standards

MED 146 320

CAA, Medical Service

CHRONOLOGICAL SUMMARY OF EVENTS IN STUDIES ON THE EMERGENCY EVACUATION OF AIRCRAFT by B. G. King. Dec. 1952 2 p.

Abandonment Aviation accidents History Reviews

MED 147

CAA, Medical Service

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Aging (physiology) Aviation safety
Medical examination Physical fitness Pilots

MED 148 331

CAA, Medical Service

COMMENTS ON THE PROGRESS AND SCOPE OF THE PRACTICE OF AVIATION MEDICINE

by W. R. Stovall

Presented at Texas Air Medics, Texas State Medical Convention, San Antonio, May 1954 5 p.

Aviation medicine Education Medical personnel
Physical fitness Pilots Public opinion

MED 149

CAA, Medical Service

COMMISSION ON ACCIDENTAL TRAUMA, ARMED FORCES EPIDEMIOLOGICAL BOARD, ANNUAL REPORT, 1951-1952 by R. A. McFarland (Director) n.d. 37 p.

Accidents Epidemiology Human engineering
Psychology Safety Vision

MED 150 389

CAA, Medical Service

A COMPARISON OF ACCIDENT RATES OF PILOTS CERTIFICATED BY TRAINED AND UNTRAINED MEDICAL EXAMINERS Feb. 1947 8 p.

Aviation accidents Medical examination
Medical personnel Pilots

MED 151 328

CAA, Medical Service

COMPARISON OF HARMFUL EFFECTS PRODUCED BY CARBON TETRACHLORIDE, METHYL BROMIDE AND CHLOROBROMOMETHANE May 1950 10 p.

Health physics Poisonous gases Toxicity
Toxic tolerances

MED 152 330

CAA, Medical Service

COMPARISON OF THE DISPLACEMENT, VELOCITY, AND ACCELERATION BALLISTOCARDIOGRAPHY IN CORONARY HEART DISEASE

by J. E. Smith

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Ballistocardiography Disease Heart
Measuring devices (electrical and electronic)

MED 153 409

CAA, Medical Service

CONFERENCE ON EMERGENCY EVACUATION Washington, D. C., Sept. 1951 21 p.

Aviation safety Hatches Specifications
Transport planes

MED 154 384

CAA, Medical Service

CRASH INJURY AS RELATED TO THE CIVIL AERONAUTICS
ADMINISTRATION
by B. G. King and D. J. Morrow
Presented at Crash Injury Conference, Committee on
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Anthropometry Aviation accidents
Aviation injuries Aviation safety
Safety devices

MED 155 423

CAA, Medical Service

DATA ON THE HUMAN REQUIREMENTS FOR OXYGEN IN RAPID
DESCENT FROM HIGH ALTITUDES FOLLOWING DECOMPRESSION
by C. R. Spealman. Feb. 1953 4 p.

Acceleration tolerances Blackout (physiology)
Descent Oxygen Respiration

MED 156

CAA, Medical Service

DC-4-66-PASSENGER AIRCOACH EVACUATION TESTS
Done by Cornell Aeronautical Laboratory, Inc.,
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JA-829-D-1, Nov. 1952 107 p.

Abandonment Aviation safety Tests Time
Transport planes

MED 157

CAA, Medical Service

DESCRIBING MAN FOR DESIGN DEVELOPMENT
by B. G. King, P. T. Bruyere, J. J. Swearingen
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Anthropometry Cockpit Design Human engineering
Pilots

MED 158 428

CAA, Medical Service

DESCRIPTION OF EXPERIMENTAL DESIGN OF STUDY IN
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Tennessee State Bureau of Aeronautics, U. of
Tennessee)
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Performance tests Pilots Transfer of training
Standards

MED 159 353

CAA, Medical Service

DEVELOPMENTS IN EMERGENCY ESCAPE PROBLEMS
by B. G. King
Presented at Fourth ALPA Air Safety Forum, March
1956 19 p.

Abandonment Aviation accidents Ditching
Life rafts Tests

MED 160

CAA, Medical Service

DEVELOPMENTS IN EMERGENCY ESCAPE PROBLEMS
by B. G. King
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Aviation safety Ditching Life rafts Sea rescues

MED 161 377

CAA, Medical Service

DIAGNOSTIC AIDS IN CORONARY DISEASE USING EXERCISE
WITH MULTIPLE CHEST LEADS
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Blood circulation Diagnosis Disease Heart

MED 162 415

CAA, Medical Service

DYNAMIC VISUAL FIELDS
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Printed in Highway Research Board Bulletin 152,
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n.d. 14 p.

Threshold (physiology) Visibility Vision
Windshields

MED 163 376

CAA, Medical Service

THE EFFECTS OF CARBON MONOXIDE ON THREE TYPES OF
PERFORMANCE AT SIMULATED ALTITUDES OF 10,000 AND
15,000 FEET
by B. G. King, J. E. Birren, E. P. Vollmer
Reprinted from J. Experimental Psychology, Vol. 36,
No. 3, June 1946 7 p.

Hypoxia Performance tests Poisonous gases
Toxic tolerances

MED 164 375

CAA, Medical Service

ELECTROCARDIOGRAPHIC CHANGES IN FULMINATING ANOXIA
by B. G. King and M. Henson
Presented at Aero Medical Assoc. 17th Annual Meeting,
Chicago, Ill. April 9, 1946
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Electrocardiography Hypoxia Oxygen consumption
Respiration

MED 165 374

CAA, Medical Service

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TESTS
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Disease Electrocardiography Exercise Heart
Tolerance (physiology)

MED 166 414

CAA, Medical Service

ELIMINATION OF SOME TIME LOSSES IN EMERGENCY
EVACUATION OF PASSENGERS FROM AIRPLANES
by B. G. King
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Foundation, Ltd. Nov. 1952, Bermuda
Reprinted from Aeronautical Eng. Rev., Vol. 12,
No. 3, March 1953 3 p.

Abandonment Aviation safety Hatches
Safety devices

MED 167 367

CAA, Medical Service

EMERGENCY ESCAPE PROCEDURES, A REPORT OF JOINT
STUDIES WITH THE MILITARY AIR TRANSPORT SERVICE
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C-124 AND SUPPLEMENTARY DATA
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Abandonment Aviation accidents Aviation personnel
Training

MED 168 394

CAA, Medical Service

EMERGENCY EVACUATION OF TRANSPORT AIRPLANES
by B. G. King and A. P. Ruby. Nov. 1951 8 p.

Abandonment Tests Time Transport planes

MED 169

CAA, Medical Service

EMERGENCY EVACUATION OF TRANSPORT AIRPLANES
(APPENDIX D)
by B. G. King and A. P. Ruby
Presented at Flight Safety Foundation, Nov. 1951
6 p.

Abandonment Aviation accidents Hatches
Transport planes

MED 170 393

CAA, Medical Service

EVALUATION OF THE CALIBRATED DISPLACEMENT, VELOCITY,
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PECTORIS
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Reprinted from Am. Heart J., Vol 49, No. 3, March
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Ballistocardiography Diagnosis Disease Heart

MED 171 420

CAA, Medical Service

EXAMINER PERFORMANCE ON CLASS III REPORTS OF PHYSICAL
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Biometrics Branch Report No. 1

Errors Medical examination Medical personnel
Physical fitness Pilots

MED 172 322

CAA, Medical Service

AN EXPERIMENTAL PLAN FOR THE STUDY OF EMERGENCY
EVACUATION OF AIRCRAFT (COPY OF PROGRAM DEVELOPED
AND ADOPTED APRIL 18, 1950)
by B. G. King. 1950 9 p.

Abandonment Aviation accidents Aviation safety
Behavior Civil aviation

MED 173

CAA, Medical Service

AN EXPERIMENTAL STUDY OF ESCAPE AND SURVIVAL IN
AIRCRAFT DITCHINGS
by B. G. King and M. C. Richardson
Presented at Flight Safety Foundation International
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Aviation accidents Design Ditching Life rafts

MED 174

CAA, Medical Service

AN EXPLANATION OF SOME ASPECTS OF BREATHING
by B. G. King
Presented at Air Transport Assn. Operations
Conference, Miami, April 1951 3 p.

Exercise Oxygen consumption Physiology
Respiration

MED 175

CAA, Medical Service

FEDERAL CONCERN WITH CIVIL AVIATION MEDICINE
by W. R. Stovall. Feb. 1955 16 p.

Aviation medicine Aviation safety History
Physical fitness Standards
United States Government

MED 176

CAA, Medical Service

FUNCTIONAL COCKPIT DESIGN

by B. G. King
Presented at session on Air Transport Safety, 20th
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Anthropometry Cockpits Design
Human engineering Visibility Vision

MED 177 368

CAA, Medical Service

THE FUTURE IN AVIATION MEDICINE

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Presented at Designated CAA Medical Examiners of
Pennsylvania, Hershey, Pa., Sept. 1955 8 p.

Civil aviation Education Medical personnel
Standards

MED 178

CAA, Medical Service

THE FUTURE OF AVIATION MEDICINE AS A SPECIALTY

by W. R. Stovall
Presented at postgraduate course in aviation
medicine, Ohio State University, Columbus, Ohio,
September 13-18, 1954 8 p.

Aviation medicine History Medical personnel
Medical research Standards

MED 179

CAA, Medical Service

HIGH CONCENTRATION--SHORT TIME EXPOSURES AND
TOXICITY

by B. G. King
Presented at Greater New York Safety Council, New
York, April 1, 1949
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Atmosphere pollution Aviation safety
Toxic tolerances Toxicity

MED 180 371

CAA, Medical Service

INCIDENCE CLARIFICATION AND NATURE OF ERRORS MADE
BY CREWS IN AIR CARRIER (AIRLINE) OPERATIONS
by C. R. Spealman
Reprinted from J. Aviation Med., Vol 25, Dec. 1954,
7 p.

Aviation accidents Errors Pilots
Transport planes

MED 181

CAA, Medical Service

INFORMATION CONCERNING TESTS ON PASSENGER ESCAPE
FROM DITCHED AIRPLANES

by B. G. King, C. E. Kontz, J. Vitol. May 1955 3 p.

Abandonment Aviation safety Ditching Life rafts

MED 182 391

CAA, Medical Service

INSTITUTE OF CIVIL AVIATION MEDICINE

by W. R. Stovall
Presented at Texas Air Medics Assoc., Dallas,
May 1952 4 p.

Civil aviation History Medical personnel
Physical fitness Pilots

MED 183

CAA, Medical Service

LANDING GEAR ACCIDENTS IN AIRLINE OPERATIONS A
SIX-YEAR SUMMARY

by C. R. Spealman
Reprinted from J. Aviation Med., Vol 26, No. 5,
Oct. 1955 11 p.

Aviation accidents Errors Landing gear Pilots
Stress (physiology)

MED 184

CAA, Medical Service

THE LOW FREQUENCY VELOCITY MEASUREMENT
BALLISTOCARDIOGRAPH
by J. E. Smith and S. Bryan
Reprinted from Circulation, Vol. V, No. 6, 892-902,
June 1952 10 p.

Ballistocardiography Disease Heart
Instrumentation Measuring devices (electrical
and electronic)

MED 185 416

CAA, Medical Service

LOW HUMIDITY (0-20 percent): OCCURRENCE,
MEASUREMENT AND EFFECT ON HUMAN HEALTH AND COMFORT
by C. R. Spealman
Presented at Am. Soc. of Heating and Ventilating
Engineerings, Symposium of Technical Advisory Comm.
for Research, April 1953 3 p.

Humidity Measurement Physiology
Tolerances (physiology) Water vapor

MED 186

CAA, Medical Service

MEASUREMENTS OF MAN FOR MAKING MACHINERY
by B. G. King
Reprinted from Am. J. Phys. Anthropol., n.s. v. 6,
no. 3, Sept. 1948 12 p.

Anthropometry Control panels Human engineering

MED 187 386

CAA, Medical Service

MEDICAL ASPECTS OF AIRPLANE DUSTING AND SPRAYING
by C. R. Spealman. n.d. 9 p.

Agriculture Collisions Insecticides
Physical fitness Pilots Toxicity

MED 188

CAA, Medical Service

MEDICAL PARTICIPATION IN TYPE CERTIFICATION OF
AIRCRAFT
by C. R. Spealman
Presented at, and published in, Third Annual Medical
Officers' Conference, Aug. 24-26, 1949 1 p.

Aircraft Design Medical personnel Standards

MED 144

CAA, Medical Service

MEDICAL SUPPORT OF CIVIL AVIATION
by W. R. Stovall
Presented at Intl. Conference on Aviation Physiology,
Ohio State University, Sept. 1953 9 p.

Civil aviation History Medical personnel
Physical fitness Pilots

MED 189

CAA, Medical Service

MIDDLE EAR PERCEPTION OF PRESSURE AND PAIN IN
DESCENT FROM ALTITUDE
by C. R. Spealman and J. C. Cherry
Reprinted from J. Aviation Med., Vol. 29, Feb. 1958
5 p.

Ear High altitude Pain Perception Pressure
Thresholds (physiology)

MED 190

CAA, Medical Service

ODORS, ODORANTS, AND DEODORANTS IN AVIATION
by C. R. Spealman
Reprinted from Basic Odor Research Correlation,
Annals N. Y. Acad. Sciences, Vol. 58, Art. 2,
March 1954 4 p.

Aviation safety Exhaust gases Smell
Thresholds (physiology) Toxicity

MED 191

CAA, Medical Service

PASSENGER ESCAPE FROM AIRCRAFT EMPLOYING THE
INFLATABLE SLIDE
by R. Ostrich and W. G. Starr. Feb. 1956 14 p.
A report of joint studies by the Military Air
Transport Service and the CAA

Abandonment Passengers Tables Tests Time

MED 192

CAA, Medical Service

PHYSICAL CHARACTERISTICS OF THE 1946 AIRLINE PILOT
POPULATION
n.d. 23 p.

Air carriers Physical fitness Pilots
Transport planes

MED 193 319

CAA, Medical Service

PHYSICAL CHARACTERISTICS, TOLERANCES, AND
SUSCEPTIBILITY TO ACCIDENTS
by B. G. King. n.d. 14 p.

Aviation accidents Aviation medicine
Stress (physiology) Tolerances (physiology)

MED 194 382

CAA, Medical Service

PHYSICAL EXAMINATIONS AND THE PRIVATE FLIER
by W. R. Stovall
Presented at Aero Med. Assoc., 16th Annual Meeting,
St. Louis, Mo., Sept. 1944 5 p.

History Medical examination Physical fitness
Pilots Utility planes

MED 195

CAA, Medical Service

PHYSICAL FITNESS
by P. C. Platt. n.d. 6 p.

Aviation safety Medical examination
Physical fitness Pilots Standards

MED 196

CAA, Medical Service

PHYSIOLOGICAL EFFECTS OF MECHANICAL STRESSES
by B. G. King
Presented at Ohio State University course in
aviation physiology. Aug. 1953 13 p.

Physiology Shock (pathology)
Stress (physiology) Tolerances (physiology)

MED 197 373

CAA, Medical Service

POLICIES OF AIRLINES REGARDING THE USE OF DRUGS
BY FLIGHT CREWS
n.d. 10 p.

Antibiotics Antihistaminics Aviation personnel
Antimotion sickness agents Pharmacology

MED 198 335

CAA, Medical Service

POLICY REFRESHER COURSE NO. 1, AVIATION MEDICAL
SERVICE SEMINAR, MARCH 11-13, 1947 89 p.

Civil aviation Medical examination
Physical fitness Pilots Standards

MED 199

CAA, Medical Service

POTENTIAL HAZARD OF POISONING BY CHEMICALS USED IN
AGRICULTURAL FLYING
by C. R. Spealman
Presented at, and published in, Third Annual Medical
Officers' Conference, Aug. 24-26, 1949 2 p.

Health physics Insecticides
Tolerances (physiology) Toxicity

MED 144

CAA, Medical Service

PRELIMINARY DRAFT OF NOTES ON SIMULATED DITCHING
TRIALS

by B. G. King (CAA-CAB Subcommittee Working Group
in collab. with US Coast Guard, Air Transpt. Assoc.,
Airline Pilots Assoc., Military Air Transpt. Assoc.)
Aug. 1952 8 p.

Ditching Sea rescue equipment Tests Time

MED 200 388

CAA, Medical Service

PRELIMINARY DRAFT OF REPORT ON CONVAIR 240 TESTS,
JOINT TRIALS
(CAA-CAB Subcommittee Working Group, American
Airlines, Military Air Transport Service)
April 1951 14 p.

Abandonment Aviation accidents Passengers
Tests Time

MED 201 317

CAA, Medical Service

PRELIMINARY DRAFT REPORT UPON TIME TRIALS ON
VARIOUS PHASES OF PASSENGER SURVIVAL PROCEDURES
FOLLOWING DITCHING
by B. G. King. Aug. 1952 9 p.
(HQ., Mil. Air Transpt. Service in collab. w. CAA-
CAB Subcommittee Working Group)

Ditching Sea rescue equipment Sea rescues
Survival

MED 202 372

CAA, Medical Service

THE PROBLEMS OF PILOT AGING
by W. R. Stovall. July 1953 3 p.

Aging (physiology) History Physical fitness
Pilots

MED 203

CAA, Medical Service

A PROGRAM FOR CIVIL AVIATION MEDICINE

by W. R. Stovall

Reprinted from Congressional Record, Feb. 4, 1953
2 p.

Aviation medicine Civil aviation History
Medical personnel Physical fitness
United States Government

MED 204

CAA, Medical Service

PROGRESS REPORT ON PROJECT NO. 3 EVALUATION OF PROVISIONS (IN PART 49 OF CIVIL AIR REGULATIONS) RELATING TO THE TRANSPORTATION BY AIR OF POISONOUS MATERIALS, OTHER THAN RADIOACTIVE MATERIALS, ON PASSENGER-CARRYING AIRCRAFT

by C. R. Spealman

In, Technical Reports Presented at The Meeting of the Comm. on Toxic Gases of the Aero Med. Assoc., Denver, May 1951 13 p.

Air transportation Civil aviation Law
Poisonous gases Toxicity Transport planes

MED 205

CAA, Medical Service

PROGRESS REPORT ON PROJECT NO. 4 TOXIC GASES AND ATMOSPHERIC CONDITIONS IN AIRPLANE CONFLAGRATIONS

by B. G. King

In, Technical Reports Presented at the Meeting of the Comm. on Toxic Gases of the Aero Med. Assoc., Denver, May 1951 1 p.

Aircraft fires Combustion Gases Temperature
Toxicity

MED 205

CAA, Medical Service

A PROGRESS REPORT ON STUDIES ON THE EMERGENCY EVACUATION OF AIRCRAFT

by B. G. King

Prepared for presentation at Conference on Health and Safety at Harvard School of Public Health
Nov. 1951 8 p.

Abandonment Aviation accidents Behavior Landing

MED 206 387

CAA, Medical Service

PROPOSED GRADING SYSTEMS

by Inspector Dellinger and R. Y. Walker. Oct. 1944
11 p.

(Inst. of Aviation Psychology, CAA NRC, Committee on Selection and Training of Aircraft Pilots Tennessee State Bureau of Aeronautics, U. of Tennessee)

T-14

Performance tests Pilots Standards Training

MED 207 351

CAA, Medical Service

A PROPOSED STUDY OF TAKE-OFF AND LANDING WITH THE 4TH FLIGHT CLASS AT THE INSTITUTE OF AVIATION PSYCHOLOGY

by R. Y. Walker. Oct. 1944 9 p.

(Inst. of Aviation Psychology, CAA NRC, Committee on Selection and Training of Aircraft Pilots Tennessee State Bureau of Aeronautics, U. of Tennessee)

Landing Performance tests Pilots Take-off
Transfer of training

MED 208 359

CAA, Medical Service

REGIONAL MEDICAL OFFICERS' CONFERENCE, OCT. 1950
26 p.

Aviation safety Civil aviation Medical personnel
Symposia

MED 209

CAA, Medical Service

A REPORT OF RESULTS AND CONCLUSIONS FROM TESTS ON THE EFFECT OF SIZE OF DOORS AND WINDOWS ON EMERGENCY ESCAPE TIME: PRELIMINARY REPORT, DRAFT

by J. G. Slavin and George Washington University.
Sept. 1951 19 p.

145

Abandonment Aviation accidents Design Hatches
Time

MED 210

CAA, Medical Service

THE ROLE OF THE CORONER IN AIRCRAFT FATALITIES

by S. A. Thomas

Presented at Natl. Assoc. of Coroners, 1954 Annual Convention, Aug. 1954 11 p.

Aviation accidents Aviation injuries
Medical examination Medical personnel

MED 211

CAA, Medical Service

THE ROLE OF EXTRA-OCULAR MUSCULATURE IN THE AVIATION PHYSICAL EXAMINATION

by A. J. Herbolzheimer

Presented at Aero Med. Assoc. of the U.S., 15th Annual Meeting, Cincinnati, Ohio, Oct. 26, 1943
Reprinted from J. Aviation Med., Aug. 1944, 1943
5 p.

Medical examination Physical fitness
Ophthalmology Pilots

MED 212

CAA, Medical Service

SECOND ANNUAL MEDICAL OFFICERS' CONFERENCE,
MAY 1948 43 p.

Aviation safety Civil aviation Medical personnel
Symposia

MED 213

CAA, Medical Service

SHOULDER HARNESS AND THE PILOTS TASK IN OPERATING
CONTROLS IN TRANSPORT TYPE AIRCRAFT

by B. G. King
Pre-publication release, Oct. 1948 18 p.

Aviation safety Performance tests
Pilots' safety harness Transport planes

MED 214 424

CAA, Medical Service

A SIMPLE METHOD OF MEASURING THE Q-T RATIO

by J. E. Smith
Reprinted from Medical Annals of the District of
Columbia, Vol. XX, No. 1, 6-8, Jan. 1951 2 p.

Disease Electrocardiography Heart

MED 215 413

CAA, Medical Service

SIMULTANEOUS CALIBRATED RECORDING OF DISPLACEMENT,
VELOCITY, AND ACCELERATION IN BALLISTOCARDIOGRAPHY
by J. E. Smith and S. Bryan
Reprinted from Am. Heart J., Vol. 45, No. 5, 715-724
May 1953 12 p.

Ballistocardiography Calibration Disease Heart
Instrumentation

MED 216 410

CAA, Medical Service

THE SITE, FREQUENCY AND DANGEROUSNESS OF INJURY
SUSTAINED BY 800 SURVIVORS OF LIGHTPLANE ACCIDENTS
by H. De Haven and Cornell University Medical College
Crash Injury Research. July 1952 55 p.

Acceleration tolerances Aviation accidents
Aviation injuries Utility planes

MED 217

CAA, Medical Service

SOCIAL PATHOLOGY AS A MEDICAL SCIENCE

by G. Wolff
Reprinted from Am. J. Public Health 42 12
1577-82, Dec. 1952 7 p.

Mathematical analysis Medical research
Pathology Social sciences

MED 218

CAA, Medical Service

SOME BIOLOGICAL FACTORS IN THE DESIGN OF CIVIL
AIRCRAFT

by B. G. King and J. J. Swearingen
Presented at 19th Annual Meeting of the Aero Medical
Assoc., Toronto, June 18, 1948
Reprinted from J. Aviation Med. 19 6 414-19,
Dec. 1948 7 p.

Aircraft Anthropometry Design
Human engineering

MED 219

CAA, Medical Service

SOME BIOLOGICAL FACTORS IN THE DESIGN OF CIVIL
AIRCRAFT

by B. G. King and J. J. Swearingen
Presented at Aero Medical Assoc. 19th Annual
Meeting, Toronto, Canada, June 1948
Reprinted from J. Aviation Med., Vol. 19, No. 6,
414-419A, Dec. 1948 6 p.

Anthropometry Control panels
Human engineering Pilots Safety harness

MED 220 339 and 425

CAA, Medical Service

SOME COMMENTS ON DYNAMIC VISUAL FIELDS

by B. G. King and P. J. Sutro
Work sponsored by Comm. Accidental Trauma of Armed
Forced Epidemiological Board, and supported by
Office of Surgeon General, Dept. Army, n.d. 14 p.

Visibility Vision Windshields Windshield wipers

MED 221

CAA, Medical Service

SOME COMMENTS ON STUDIES ON PROJECT NAonr 104-51
by B. G. King. 1954 18 p.
Contract # NAonr 104-51

Aerodynamic forces Explosive decompression
Man Tolerances (physiology)

MED 222

CAA, Medical Service

SOME DESIGN REQUIREMENTS FOR THE REDUCTION OF MOTOR
VEHICLE ACCIDENTS

by B. G. King
Prepared for Armed Forces Epidemiological Board
Conference on Vehicular Accident Prevention, March
1950 21 p.

Design Human engineering Motor vehicle accidents
Passenger vehicles Safety harness

MED 223 1997

CAA, Medical Service

SOME SURVIVAL LESSONS LEARNED FROM RECENT ACCIDENTS
by B. G. King
Presented at Flight Safety Foundation Air Safety
Seminar, Santa Fe, Nov. 1954 16 p.

Aviation accidents Aviation safety Ditching
Survival

MED 224 379

CAA, Medical Service

LA SPECIALITE DE LA MEDECINE AERONAUTIQUE
by W. R. Stovall
Presented at Aero Med. Conference, Paris, Sept.
1952 4 p.

Aviation medicine Education History
Medical personnel

MED 225

CAA, Medical Service

SPECIFICATIONS FOR HEAD CLEARANCE AND AIRCRAFT
DESIGN

by J. J. Swearingen and D. J. Morrow
Presented at, and published in, Third Annual Medical
Officers' Conference, Aug. 24-26, 1949 10 p.

Aircraft Anthropometry Aviation injuries
Design Specifications

MED 144

CAA, Medical Service

STUDENT AND PRIVATE PHYSICAL EXAMINATION
Jan. 1947
Report No. 1

Errors Medical examination Medical personnel
Physical fitness Pilots

MED 226 333

CAA, Medical Service

STUDIES OF FREQUENCY RESPONSE IN BALLISTOCARDIOGRAPHY
by J. E. Smith and S. Bryan
Reprinted from Am. Heart J., Vol. 45, No. 1 401-51,
Jan. 1953 11 p.

Ballistocardiography Diagnosis Disease
Instrumentation

MED 227 422

CAA, Medical Service

STUDIES OF THE EFFECT OF A SECOND DEGREE OF FREEDOM
IN BALLISTOCARDIOGRAPHY
by J. E. Smith and R. Rosenbaum
Reprinted from Am. Heart J., Vol. 46, No. 6, Dec.
1953, 799-816, 17 p.

Ballistocardiography Diagnosis Disease Heart

MED 228 421

CAA, Medical Service

STUDIES WITH THE DISPLACEMENT, VELOCITY, AND
ACCELERATION BALLISTOCARDIOGRAPH IN AORTIC
INSUFFICIENCY

by J. E. Smith, R. Rosenbaum, R. Ostrich
Reprinted from Am. Heart J. 48: 6: 847-63,
Dec. 1954 17 p.

Ballistocardiography Cardiovascular system
Diagnosis Disease Harmonic analysis

MED 229 426

CAA, Medical Service

A STUDY OF FLIGHT SURGEON POPULATION IN RELATION TO
NATIONAL AND INTERNATIONAL OBLIGATIONS

by W. R. Stovall
Presented at Aero Medical Assoc., 19th Annual
Convention, Toronto, June 1948 4 p.

Education Flight surgeons History Population
Standards

MED 230

CAA, Medical Service

A STUDY OF INDIVIDUAL DIFFERENCES AMONG INSTRUCTORS
IN MAKING SPOT LANDINGS--RESULTS

(Inst. of Aviation Psychology, CAA NRC, Committee
on Selection and Training of Aircraft Pilots
Tennessee State Bureau of Aeronautics, U. of
Tennessee) Sept. 1945 20 p.
T-32

Instructors Landing Performance tests Pilots
Psychomotor tests

MED 231 343

CAA, Medical Service

SUMMARY OF PHYSICAL STANDARDS FOR, CIVIL AERONAUTICS
ADMINISTRATION, NATIONAL RESEARCH COUNCIL COMMITTEE,
U. S. ARMY, U. S. NAVY, INTERNATIONAL COMMISSION FOR
AIR NAVIGATION, UNITED KINGDOM
1945 99 p.

Military requirements Physical fitness Pilots
Standards

MED 232

CAA, Medical Service

A SUMMARY OF REPORTS BY DOMESTIC SCHEDULED AIRLINES
OF IN-FLIGHT UNCONSCIOUSNESS AND DEATH (1951-1953)
March 1955 29 p.

Air carriers Aviation injuries Aviation safety
Passengers Syncope

MED 233 323

CAA, Medical Service

A SUMMARY OF REPORTS BY SCHEDULED AIRLINES OF IN-
FLIGHT INJURY, UNCONSCIOUSNESS AND DEATH (1947-1955)
June 1956 19 p.

Air carriers Aviation injuries Aviation safety
Passengers Turbulence

MED 234 318

CAA, Medical Service

A SUMMARY OF REPORTS BY DOMESTIC SCHEDULED AIRLINES
OF IN-FLIGHT UNCONSCIOUSNESS AND DEATH 1948-1950
April 1954 10 p

Aviation safety Passengers Syncope

MED 235

CAA, Medical Service

A SUMMARY OF REPORTS BY DOMESTIC SCHEDULED AIRLINES
OF IN-FLIGHT UNCONSCIOUSNESS AND DEATH (1951-1953)
March 1955 29 p.

Cardiovascular system Diseases Medical supplies
Passengers Syncope

MED 236

CAA, Medical Service

TECHNICAL DATA PERTINENT TO AVIATION TOXICOLOGY,
Oct. 1950 41 p.

Aviation safety Poisonous gases Toxicity
Toxic tolerances Waste gases

MED 237 329

CAA, Medical Service

A TECHNIQUE FOR RECORDING CAROTID ARTERY PULSATATIONS
WITH SPECIAL REFERENCE TO AORTIC STENOSIS
by J. E. Smith
Reprinted from Am. Heart J., Vol. 49, No. 3, 428-435,
March 1955 7 p.

Diagnosis Disease Heart Instrumentation
Recording systems

MED 238 419

CAA, Medical Service

TEST TYPES FOR MEASURING ACCOMMODATION
Multi-colored 5 1/2 x 9" card, GPO # 16-48159-1
n.d. 1 p.

Eye Medical examination Ophthalmology

MED 239

CAA, Medical Service

THIRD ANNUAL MEDICAL OFFICERS' CONFERENCE, AUG.
24-26, 1949
Proceedings of Washington, D. C. Meeting, 55 p.

Flight surgeons Medical examinations Standards
Symposia Toxicity

MED 144

CAA, Medical Service

I. TIMES AVAILABLE FOR PROTECTIVE MEASURES IN
EMERGENCIES AT HIGH ALTITUDE. II. PROTECTION OF
PASSENGERS AND AIR CREW FROM BLAST EFFECTS OF
EXPLOSIVE DECOMPRESSION
by I. - B. G. King and II. - J. J. Swearingen.
April 1951 18 p.

Air burst Aviation safety Explosive decompression
High altitude Respiration

MED 240 334

CAA, Medical Service

TIMES FOR LAUNCHING MILITARY LIFE RAFTS MANUALLY FROM
THE C-121 AND C-54 AIRPLANES
by B. G. King. June 1952 7 p.
A preliminary draft of the CAA-CAB Subcommittee
Working Group in collab. with HQ, Military Air
Transport Service

Aviation safety Ditching Launching Life rafts
Tests Time

MED 241 383

CAA, Medical Service

TOLERANCE OF MEN BREATHING AIR AT VARIOUS BAROMETRIC
PRESSURES

by B. G. King. 1951 5 p.

Barometric pressure Respiration
Stress (physiology) Tolerances (physiology)

MED 242 427

CAA, Medical Service

TOXIC FUMES AND AVIATION

by C. R. Spealman

Presented at, and published in, Third Annual Medical Officers' Conference, Aug. 24-26, 1949 1 p.

Health physics Oxygen masks
Tolerances (physiology) Toxicity Waste gases

MED 144

CAA, Medical Service

TOXIC GASES AND AVIATION

by C. R. Spealman

Published in Arch. Ind. Hygiene and Occupational Med., Vol. 1, No. 2, 248-53, Feb. 1950 6 p.

Atmospheric pollution Atmospheric temperature
Barometric pressure Exhaust gases Respiration

MED 243

CAA, Medical Service

TOXIC GASES AND CIVIL AIRCRAFT

by C. R. Spealman

Presented at Aero Med. Assoc., 20th Annual Meeting,
New York, Sept. 1, 1949
Reprinted from Aviation Med., Dec. 1949 6 p.

Aviation safety Exhaust gases Exposure
Hydraulic fluids Time Toxicity

MED 244

CAA, Medical Service

TOXIC HAZARDS IN AIR TRANSPORT OPERATIONS

by C. R. Spealman

Reprinted from Natl. Safety Congress Transact.
Vol. 3, 1950 6 p.

Aviation safety Exhaust gases Exposure
Smokes Time Toxicity

MED 245

CAA, Medical Service

TRENDS IN CIVIL AVIATION MEDICINE

by W. R. Stovall

Presented at Aero Med. Assoc., 15th Annual
Convention, Oct. 1943 5 p.

Civil aviation Physical fitness History Pilots
Selection

MED 246

CAA, Medical Service

VISUAL AND ORTHOPEDIC DEFECTS IN CIVIL AIRMEN

by D. M. Gilford and W. R. Stovall, May 1951 14 p.

Medicine Musculoskeleton system Pilots
Vision Physical fitness

MED 247

CAA, Medical Service

VISUAL AND ORTHOPEDIC DEFECTS IN CIVIL AIRMEN, AND
CIVIL AERONAUTICS AND CIVIL MEDICAL EXAMINERS FORUM

by D. M. Gilford and W. R. Stovall, Dec. 1951
30 p.

Medical examination Medicine
Musculoskeletal system Physical fitness
Pilots Vision

MED 248

CAA, Medical Service

VISUAL DEFICIENCY AND FLYING EXPERIENCE FOLLOWING
FLIGHT TRAINING--A FOLLOW-UP STUDY OF STUDENT PILOTS
WHO PARTICIPATED IN THE VISUAL STUDY

1950 41 p.

Learning Performance tests Pilots Training
Visual acuity

MED 249 307

CAA, Medical Service

WORKING GROUP REPORT ON EVALUATION OF EMERGENCY EXIT
PROVISIONS IN RELATION TO TYPE AND LOCATION OF EXITS

by B. G. King, 1953 15 p.

Abandonment Aviation accidents Hatches
Transport planes

MED 250 392

CAA, Civil Aeronautics Medical Research Laboratory

AN ADHESIVE TYPE OXYGEN MASK

by J. J. Swearingen (Columbus, Ohio) Apr. 1956 6 p.
Project No. 53-704

Adhesion Anthropometry Decompression
Oxygen masks Time

MED 251

CAA, Civil Aeronautics Medical Research Laboratory

AN ADHESIVE TYPE OXYGEN MASK
by J. J. Swearingen (Columbus, Ohio)
Presented at 27th Annual Meeting Aero Med. Assoc.,
Chicago, April 18, 1956
Reprinted from J. Aviation Med. 28 19-22, Feb.
1957 4 p.

Adhesion Aviation safety Design Oxygen masks

MED 252

CAA, Civil Aeronautics Medical Research Laboratory

DESIGN AND CONSTRUCTION OF AN ADJUSTABLE COCKPIT
MOCKUP
by J. J. Swearingen (Oklahoma City, Okla.). July
1949 14 p.
Project No. Biotechnology 2-48, Rept. No. 1

Anthropometry Cockpits Design Human engineering

MED 253

CAA, Civil Aeronautics Medical Research Laboratory

DESIGN AND CONSTRUCTION OF A CRASH DUMMY FOR TESTING
SHOULDER HARNESS AND SAFETY BELTS, A PRELIMINARY
REPORT
by J. J. Swearingen (Oklahoma City, Okla.). April
1951 15 p.

Anthropometry Aviation injuries Aviation safety
Safety harness

MED 254 378

CAA, Civil Aeronautics Medical Research Laboratory

DETERMINATION OF CENTERS OF GRAVITY OF MAN--FINAL
REPORT
by J. J. Swearingen (Oklahoma City, Okla.). May
1953 42 p.
Contract # NAonr 104-51
CAA Project No. 53-203

Anthropometry Center of gravity Man Posture

MED 255

CAA, Civil Aeronautics Medical Research Laboratory

DETERMINATION OF THE MOST COMFORTABLE KNEE ANGLE
FOR PILOTS
by J. J. Swearingen (Oklahoma City, Okla.). May
1949 6 p.
Project No. Biotechnology 3-48, Rept. No. 1

Anthropometry Cockpits Design
Human engineering Pilots

MED 256

CAA, Civil Aeronautics Medical Research Laboratory

ENERGY COST OF FLYING MULTI-ENGINED AIRCRAFT
by F. A. Hitchcock (Oklahoma City, Okla.)
Reprinted from Federation Proceedings 9 1,
March 1950 1 p.

Fatigue (physiology) Metabolism Pilots
Respiration

MED 257

CAA, Civil Aeronautics Medical Research Laboratory

THE EVALUATION OF WINDSHIELD-WINDOW SOLID ANGLES
WITH RESPECT TO HUMAN VISUAL FIELDS
by P. J. Sutro (Columbus, Ohio). n.d. 21 p.

Human engineering Thresholds (physiology)
Visibility Vision

MED 258 408

CAA, Civil Aeronautics Medical Research Laboratory

EXPLOSIVE DECOMPRESSION AND POSTURAL TOLERANCE
STUDIES 1955 ANNUAL PROGRESS REPORT ON NAVY
CONTRACT
by J. J. Swearingen (Columbus, Ohio). 17 p.
Contract # NAonr 104-51

Acceleration tolerances Explosive decompression
Posture Test equipment

MED 259

CAA, Civil Aeronautics Medical Research Laboratory

FORCES THAT MAY BE EXERTED BY MAN IN THE OPERATION
OF AIRCRAFT DOOR HANDLES
by E. B. McFadden and J. J. Swearingen (Oklahoma
City, Okla.).
Reprinted from Human Factors, Vol. 1, No. 1, 16-22,
Sept. 1958 7 p.

Aircraft equipment Anthropometry Configuration
Hatches Human engineering Torque

MED 260

CAA, Civil Aeronautics Medical Research Laboratory

HUMAN VISUAL CAPACITIES AS A BASIS FOR THE SAFER
DESIGN OF VEHICLES, ANNUAL REPORT TO THE COMMISSION
ON ACCIDENTAL TRAUMA OF THE ARMED FORCES
EPIDEMIOLOGICAL BOARD, FY MAR 54-FEB 55
by B. G. King, P. J. Sutro, G. H. Kydd (Columbus,
Ohio). March 1955 37 p.

Human engineering Visibility Windshield wipers
Windshields

MED 261 369

CAA, Civil Aeronautics Medical Research Laboratory

HUMAN VISUAL CAPACITIES AS A BASIS FOR THE SAFER DESIGN OF VEHICLES, 1956 ANNUAL REPORT TO THE COMM. ON ACCIDENTAL TRAUMA, ARMED FORCES EPIDEMIOLOGICAL BOARD (MAR 55-FEB 56, COLUMBUS, OHIO)
by P. J. Sutro and H. O. Ward. March 1956 43 p.
CAA Proj. No. 53-209

Human engineering Passenger vehicles Visibility
Vision Windshields

MED 262 403

CAA, Civil Aeronautics Medical Research Laboratory

HUMAN VISUAL CAPACITIES AS A BASIS FOR THE SAFER DESIGN OF VEHICLES, 1957 ANNUAL REPORT TO THE COMM. ON ACCIDENTAL TRAUMA, ARMED FORCES EPIDEMIOLOGICAL BOARD (MAR 56-FEB 57, COLUMBUS, OHIO)
by P. J. Sutro and H. O. Ward. March 1957 45 p.
CAA Proj. No. 53-209

Goniometers Human engineering Passenger vehicles
Visibility Vision

MED 263 400

CAA, Civil Aeronautics Medical Research Laboratory

HUMAN VISUAL CAPACITIES AS A BASIS FOR THE SAFER DESIGN OF VEHICLES, 1958 ANNUAL REPORT TO THE COMM. ON ACCIDENTAL TRAUMA, ARMED FORCES EPIDEMIOLOGICAL BOARD (MAR 57-FEB 58, COLUMBUS, OHIO)
by P. J. Sutro, H. O. Ward, C. A. Townsend, March 1958 53 p.

Human engineering Passenger vehicles
Thresholds (physiology) Vision Visual acuity

MED 264 397

CAA, Civil Aeronautics Medical Research Laboratory

HUMAN VISUAL CAPACITIES AS A BASIS FOR THE SAFER DESIGN OF VEHICLES, FINAL REPORT TO THE COMM. ON ACCIDENTAL TRAUMA OF THE ARMED FORCES EPIDEMIOLOGICAL BOARD (MAR 58-JUNE 58, COLUMBUS, OHIO)
by P. J. Sutro, H. O. Ward, C. A. Townsend. June 1958 28 p.

Human engineering Passenger vehicles
Thresholds (physiology) Vision

MED 265 398

CAA, Civil Aeronautics Medical Research Laboratory

THE MAGNITUDE AND DIRECTION OF FORCES THAT MAN CAN EXERT IN OPERATING AIRCRAFT EMERGENCY EXIST
by E. B. McFadden, J. J. Swearingen, C. D. Wheelwright (Oklahoma City, Okla.)
Reprinted from Human Factors, Vol. 1, No. 4, Nov. 1959 13 p.

Abandonment Anthropometry Aviation safety
Hatches Human engineering Torque

MED 266

CAA, Civil Aeronautics Medical Research Laboratory

MAN'S AREAS OF VISION AS A BASIS FOR THE DESIGN OF WINDSHIELDS AND SIDE WINDOWS
by B. G. King and P. J. Sutro (Oklahoma City, Okla.)
Manuscript, n.d. 11 p.

Aviation accidents Design Vision Windshields

MED 267

CAA, Civil Aeronautics Medical Research Laboratory

MAN'S AREAS OF VISION AS A BASIS FOR THE DESIGN OF WINDSHIELDS AND SIDE-WINDOWS, PROGRESS REPORT FY 1954 TO THE COMM. ON ACCIDENTAL TRAUMA, ARMED FORCES EPIDEMIOLOGICAL BOARD
by B. G. King and P. J. Sutro (Columbus, Ohio)
March 1954 7 p.

Aircraft Human engineering Vision Windshields

MED 268

CAA, Civil Aeronautics Medical Research Laboratory

MAN'S AREAS OF VISION AS A BASIS FOR THE DESIGN OF WINDSHIELDS AND SIDE-WINDOWS, ANNUAL PROGRESS REPORT FY 1954 TO COMM. ON ACCIDENTAL TRAUMA OF ARMED FORCES EPIDEMIOLOGICAL BOARD
by B. G. King and P. J. Sutro (Columbus, Ohio)
Apr. 1954 11 p.
CAA Project No. 54-503

Aviation accidents Design Visibility Vision
Windshields Windshield wipers

MED 269

CAA, Civil Aeronautics Medical Research Laboratory

MEASUREMENT OF WINDSHIELD AND WINDOW ANGLES IN AUTOMOBILES
by P. J. Sutro (Oklahoma City, Okla.). Apr. 1953 26 p.
(Prepared for the Comm. on Accidental Trauma, Armed Forces Epidemiological Board)
CAA Project No. 53-209

Human engineering Passenger vehicles
Visibility Windshields

MED 270

CAA, Civil Aeronautics Medical Research Laboratory

MOTIONS OF THE HEAD AND TRUNK ALLOWED BY SAFETY BELT RESTRAINT DURING IMPACT
by J. J. Swearingen (Columbus, Ohio) and D. J. Morrow. June 1956 21 p.
CAMRL Project No. 53-204

Anthropometry Aviation safety Human engineering
Posture Safety harness

MED 271

CAA, Civil Aeronautics Medical Research Laboratory

STRAIN PATTERNS IN AIRCRAFT SAFETY WINDSHIELDS AND VISIBILITY THROUGH POLAROID SUN GLASSES

by J. J. Swearingen and G. R. Johnson (Oklahoma City, Okla.). Oct. 1948 3 p.
Project No. Biotechnology 1-48, Rept. No. 1

Eyeglasses Light Polarization Visibility
Windshields

MED 272 366

CAA, Civil Aeronautics Medical Research Laboratory

TIME FACTORS IN PASSENGER UTILIZATION OF EMERGENCY OXYGEN, A PRELIMINARY REPORT

by E. B. McFadden (Columbus, Ohio). May 1955 7 p.

Decompression Design Oxygen masks Passengers
Time

MED 273

CAA, Civil Aeronautics Medical Research Laboratory

WINDSHIELD VISIBILITY CLEARANCE

by P. J. Sutro (Columbus, Ohio)
Reprinted from Traffic Safety, 15-28, June 1957 13 p.

Design Passenger vehicles Visibility
Windshield wipers Windshields

MED 274 429

FAA, Office of the Civil Air Surgeon

AN ANALYSIS OF HIGHWAY SAFETY STRATEGIES

by W. Haddon and J. L. Goddard
Presented at Joint Conference on Automotive Safety, Evaluation of Automotive Design and Research, West Point, May 17, 1961 11 p.

Epidemiology Passenger vehicles Safety
Wounds and injuries

MED 275

FAA, Office of Civil Air Surgeon

COMPARISON OF BALLISTOCARDIOGRAPHIC SYSTEMS WITH SPECIAL REFERENCE TO THE USE OF A JERKMETER

by J. E. Smith and H. L. Reighard
Reprinted from Am. J. Cardiology, Vol. 4, No. 2, Aug. 1959 8 p.

Ballistocardiography Diagnosis Instrumentation
Measuring devices (electrical and electronic)

MED 276 399

FAA, Office of the Civil Air Surgeon

CURRENT RESOURCES AND PRIMARY MEDICAL PROGRAMS

by H. D. Estes
Presented at Aerospace Med. Assoc. Meeting, Los Angeles, April 29-May 2, 1963, by Dr. Reighard, 7 p.

Civil aviation History Medical facilities
Medical personnel Scientific organizations

MED 277

FAA, Office of the Civil Air Surgeon

DEVELOPMENT OF CIVIL AVIATION MEDICINE IN THE FAA

by C. O. Lopez. Jan. 1959 45 p.

Civil aviation History Physical fitness
Pilots Standards

MED 278

FAA, Office of the Civil Air Surgeon

THE FEDERAL AVIATION AGENCY MEDICAL PROGRAM

by J. E. Smith
Reprinted from Medical Annals of the District of Columbia, Vol. XXVIII, No. 6, June 1959 3 p.

Physical fitness Pilots Standards

MED 279 411

FAA, Office of the Civil Air Surgeon

AN INTRODUCTION TO THE DISCUSSION OF THE VEHICLE IN RELATION TO HIGHWAY SAFETY

by J. Goddard and W. Haddon
Presented at Joint Conference on Automotive Safety, Evaluation of Automotive Design and Research, West Point, May 17, 1961 11 p.

Epidemiology Passenger vehicles Safety
Safety devices Wounds and injuries

MED 280

FAA, Office of Civil Air Surgeon

MEDICAL CRITERIA FOR PASSENGER FLYING

by Committee on Medical Criteria for Passenger Flying, Aerospace Med. Assoc., J. E. Smith
Reprinted from Aerospace Med., Vol. 32, 369-382, May 1961 13 p.

Air transportation Passengers Physical fitness
Physiology Psychology

MED 281 338

FAA, Office of Civil Air Surgeon

THE ORGANIZATION AND FUNCTIONS OF THE OFFICE OF
CIVIL AIR SURGEON, FEDERAL AVIATION AGENCY
by J. E. Smith
Reprinted from Aerospace Med., Vol. 30, 471-475,
July 1959 4 p.

Civil aviation Medical personnel Operation
MED 282 412

FAA, Office of Civil Air Surgeon

THE ORGANIZATION AND FUNCTIONS OF THE OFFICE OF
THE CIVIL AIR SURGEON OF THE FEDERAL AVIATION AGENCY
by J. L. Goddard
Presented at Seminar in Aviation Medicine at
Guggenheim Center for Aviation Health and Safety,
Harvard School for Public Health, Boston, Dec.
1959 14 p.

History Medical facilities Medical personnel
Pilots Selection Standards
MED 283

FAA, Office of the Civil Air Surgeon

OUTLINE OF PROCEDURES FOR FAA AVIATION MEDICAL
EXAMINER PARTICIPATION IN AIRCRAFT ACCIDENT
INVESTIGATION, JULY 1961
by W. R. Albers. July 1961 13 p.

Aviation accidents Aviation safety
Flight surgeons
MED 284

FAA, Office of the Civil Air Surgeon

PHYSIOLOGICAL EFFECTS OF POSTURAL DISORIENTATION BY
TILTING DURING WEIGHTLESSNESS
by B. G. King
Presented at Aerospace Med. Assoc. Meeting, May
11, 1960, Miami
Reprinted from Aerospace Med., Vol. 32, 137-140
Feb. 1961 4 p.

Center of gravity Posture Psychomotor tests
Rotation Weightlessness
MED 285

FAA, Office of the Civil Air Surgeon

PROGRAM, FUNCTIONAL AND PHYSICAL INTER-RELATIONSHIPS
OF FAA MEDICAL ACTIVITIES
A graphic and tabular presentation of a Joint Factual
Study by Staff, Office of the Civil Air Surgeon and
Staff, Office of Management Services, May 1961 20 p.

Distribution Medical personnel Medical research
Tables
MED 286

FAA, Office of the Civil Air Surgeon

VISION MEETING OF CONSULTANT GROUP OF OFFICE OF
CIVIL AIR SURGEON TRANSCRIPT OF DISCUSSIONS OF
EYE STANDARDS AND EYE TESTING PROCEDURES FOR
CIVIL AIRMEN, OCT. 1959
by H. L. Reighard, Oct. 1959 185 p.

Color vision Eyeglasses Ophthalmology
Space perception Vision Visual acuity
MED 287

FAA, Bureau of Aviation Medicine

BUREAU OF AVIATION MEDICINE
One-page vest pocket flyer, imprint number GPO
8894 12, n.d. 1 p.

Aviation accidents Medical examination
Medical research Pilots
MED 288

FAA, Bureau of Aviation Medicine

FEDERAL AVIATION AGENCY THE PROGRAM OF THE BUREAU
OF AVIATION MEDICINE
by J. L. Goddard
Presented at Aerospace Med. Assoc., Miami, Fla.,
May 10, 1960
Reprinted from Aerospace Med., Vol. 31, 709-714,
Sept. 1960 5 p.

Aviation accidents Medical facilities
Medical research Physical fitness Pilots
MED 289

FAA, Bureau of Aviation Medicine

HUMAN FACTORS IN SUPERSONIC AIR TRANSPORT
by G. R. Steinkamp, C. A. Berry, W. R. Hawkins.
n.d. 33 p.

Atmospheric pressure Explosive decompression
Hazards Hypoxia Supersonic flight
Supersonic transports
MED 290

FAA, Bureau of Aviation Medicine

INITIAL EIGHTEEN MONTHS' EXPERIENCE WITH AIRLINE
PILOTS' ELECTROCARDIOGRAMS
by J. H. Britton, H. W. Whitehead, Jr., J. F.
O'Connor
Presented at Aerospace Med. Assoc. Meeting, Chicago,
April 26, 1961
Reprinted from Aerospace Med., Vol. 33, 138-140,
Feb. 1962 3 p.

Air carriers Electrocardiography
Medical examination Passengers
Physical fitness Pilots
MED 291

FAA, Bureau of Aviation Medicine

THE INITIAL SIX MONTHS' EXPERIENCE WITH AIRLINE
PILOTS' ELECTROCARDIOGRAMS
by J. H. Britton. May 1960 6 p.

Air carriers Electrocardiography
Medical examination Physical fitness
Pilots

MED 292

FAA, Bureau of Aviation Medicine

MEDICAL AND ADMINISTRATIVE PITFALLS OF THE CIVIL
AVIATION FLIGHT SURGEON
by J. H. Britton. May 1960 6 p.

Aviation medicine Certification Pilots
Standards

MED 293

FAA, Bureau of Aviation Medicine

THE MEDICAL INVESTIGATION OF CIVIL AIRCRAFT ACCIDENTS
by C. E. Wilbur. n.d. 6 p.

Aviation accidents Behavior Civil aviation
Medical personnel Pilots

MED 294

FAA, Bureau of Aviation Medicine

MEDICAL NEWSLETTER, Vol. 1, No. 1, April 1960--
Vol. 4, No. 3, March, Inclusive
Medical Newsletter, Vol. 1-4

Aviation medicine Civil aviation
Medical research Newspapers

MED 295

FAA, Bureau of Aviation Medicine

RESEARCH ACTIVITIES OF THE AVIATION MEDICAL SERVICE
by G. R. Steinkamp
Presented at NASA Committee on Aircraft Operating
Problems, Oct. 1961 15 p.

Aviation personnel Medical examination
Medical research Physical fitness
Psychomotor tests

MED 296

FAA, Bureau of Aviation Medicine

SIMULATED SPACE FLIGHTS
by G. R. Steinkamp and G. T. Hauty
Published in Symposium on Psychophysiological
Aspects of Space Flight, B. E. Flaherty, ed.
New York: Columbia U Press, 75-79, 1961 5 p.

Adjustment (psychology) Psychometrics
Space flight Stress (physiology)
Tolerances (physiology)

MED 297

FAA, Bureau of Aviation Medicine

SUPPLEMENT TO THE REPORT ON FAA/FEIA STUDY OF
FATIGUE IN FLIGHT ENGINEERS ASSIGNED TO JET
OPERATIONS
Dec. 1960 249 p.

Attitudes Aviation personnel Fatigue (physiology)
Jet planes

MED 298

FAA, Bureau of Aviation Medicine

UTILIZATION OF MILITARY PERSONNEL IN THE
INVESTIGATION OF CIVIL AIRCRAFT ACCIDENTS
by C. E. Wilbur. n.d. 7 p.

Aviation accidents Civil aviation
Military personnel

MED 299

FAA, Bureau of Aviation Medicine

VISION MEETING OF CONSULTANT GROUP, BUREAU OF
AVIATION MEDICINE TRANSCRIPT OF DISCUSSIONS OF
EYE STANDARDS AND EYE TESTING PROCEDURES FOR
CIVIL AIRMEN, SEPT. 1960
by W. Otto. Sept. 1960 111 p.

Air traffic controllers Color vision
Ophthalmology Space perception Vision
Visual acuity

MED 300

FAA, Bureau of Aviation Medicine

WHO'S ON FIRST?
One-page vest pocket flyer, (a cooperative effort),
imprint number 62-3675, n.d. 1 p.

Aviation accidents Aviation injuries
Law Rescues

MED 301

FAA, Aviation Medical Service

AVIATION MEDICINE AND PATIENT AIR TRAVEL
by J. H. Britton. n.d. 21 p.

Air carrier Aviation accidents Aviation medicine
Passengers Patients Pilots

MED 302

FAA, Aviation Medical Service

CURRENT RESOURCES AND PRIMARY MEDICAL PROGRAMS
by H. D. Estes
Preprints of Scientific Program, Annual Scientific
Meeting, Aerospace Med. Assoc., 38-39, 1963 2 p.

Aviation personnel Civil aviation
Medical examination Medical facilities

MED 303

FAA, Aviation Medical Service

EXPERIENCE WITH NEWLY DEVELOPED MEDICAL CERTIFICATION PROCEDURES

by P. V. Siegel. May 1963 26 p.

Aviation personnel Data processing systems
Electronic accounting machines Medical examination

MED 304

FAA, Aviation Medical Service

FEDERAL AVIATION AGENCY ENVIRONMENTAL HEALTH PROGRAM REPORT OF AIR CONTAMINATION AND OTHER ENVIRONMENTAL HEALTH FACTORS, CHARLESTON, WEST VIRGINIA--VORTAC

by R. M. Marrazzo. May 1963 11 p.

Atmospheric pollution Health physics
Sanitary engineering Waste gases

MED 305 310

FAA, Aviation Medical Service

GUIDE TO DRUG HAZARDS IN AVIATION MEDICINE

by W. C. Cutting. 1962 97 p.

Aviation personnel Drugs Hazards Toxicity

MED 306

FAA, Aviation Medical Service

HEARING CONSERVATION IN NOISE EXPOSURE

Feb. 1962 16 p.
Guidance Series, Item No. 2

Aviation personnel Hearing Noise Safety
Thresholds (physiology)

MED 307 365

FAA, Aviation Medical Service

MEDICAL SERVICES AT AIRPORTS

by H. L. Reighard
Reprinted from Archives of Environmental Health, Vol. 5, 344-357, Oct. 1962 13 p.

Airports Aviation safety Medical personnel
Terminal flight facilities

MED 308 342

FAA, Aviation Medical Service

MICROWAVE (RF) AND X-RADIATION HAZARDS AT HIGH POWER RADAR FACILITIES

by J. L. Goddard. Jan. 1962 7 p.
Guidance Series, Item No. 1

Electromagnetic waves Health physics
Radar equipment Radiation hazards
Safety X-rays

MED 309 357

FAA, Aviation Medical Service

OZONE IN HIGH-ALTITUDE AIRCRAFT CABINS

by L. S. Jaffe and H. D. Estes
Reprinted from Arch. Environmental Health, Vol. 9, No. 1, July 1964, 61-71 10 p.

Health physics High altitude Jet planes
Measurement Ozone Tolerances (physiology)

MED 310

FAA, Aviation Medical Service

OZONE TOXICITY HAZARD IN CABINS OF HIGH ALTITUDE AIRCRAFT--A REVIEW AND CURRENT PROGRAM

by L. S. Jaffe and H. D. Estes
Reprinted from Aerospace Medicine, Vol. 34, No. 7, 633-643, July 1963 10 p.

Health physics High altitude Ozone Toxicity

MED 311

FAA, Aviation Medical Service

PATHOLOGY CODES OF THE AVIATION MEDICAL SERVICE

Revised, Jan. 1962 14 p.

Aviation medicine Coding Pathology

MED 312 364

FAA, Aviation Medical Service

PHYSIOLOGICAL TRAINING

by G. E. Pendergrass. 1963 31 p.

Aviation personnel Physiology Training

MED 313 363

FAA, Aviation Medical Service

PRESENT PHILOSOPHY OF AEROMEDICAL STANDARDS DEVELOPMENT

by W. R. Albers. n.d. 19 p.

History Medical examination Physical fitness
Pilots Standards

MED 314

FAA, Aviation Medical Service

REPORT OF RADIATION HAZARD, AN/CRT-3 RADIO TRANSMITTER (GIBSON GIRL)

Aug. 1963 15 p.

Gamma rays Health physics Radiation hazards
Radio transmitters

MED 315

FAA, Aviation Medical Service

REPORT OF SURVEY OF MEDICAL AND RELATED FACILITIES
AT UNITED STATES CIVIL AIRPORTS
Dec. 1962 73 p.
AD 420 770

Airports Civil aviation Medical facilities
Medical personnel

MED 316

FAA, Aviation Medical Service

REPORT ON OZONE MEASUREMENTS CONDUCTED WITHIN
THE CABIN OF A KC-135 AIRCRAFT
by W. D. Komhyr. Project performed at the
request of Aviation Medical Service, a
manuscript of the U. S. Weather Bureau, Apr. 1962
23 p.

Aircraft cabins Jet transport planes Maps
Measurement Ozone Toxicity

MED 317

FAA, Aviation Medical Service

RESEARCH ACTIVITIES OF THE AVIATION MEDICAL SERVICE
by G. R. Steinkamp. Oct. 1961 15 p.

Aviation personnel Medical examination
Medical research Physical fitness
Psychometrics Selection

MED 318

FAA, Aviation Medical Service

A STUDY OF GENERAL AVIATION ACCIDENTS
by H. L. Reighard, C. E. Wilbur, J. C. Cherry.
n.d. 77 p.

Attitudes Aviation accidents Behavior
General aviation aircraft Pilots

MED 319

FAA, Aviation Medical Service

A SURVEY OF MEDICAL AND RELATED FACILITIES AT
UNITED STATES CIVIL AIRPORTS
by J. L. Goddard, M. C. Simmons, H. D. Estes
Presented at Aerospace Med. Assoc. Meeting,
Atlantic City, N.J., April 10, 1962
Reprinted from Aerospace Med., Vol. 33, 781-790,
July 1962 9 p.

Airports Civil aviation Medical personnel
Terminal flight facilities

MED 320 337

FAA, Office of Aviation Medicine

AIRCRAFT ACCIDENT INVESTIGATION
by C. R. Harper
Reprinted from Police Chief, Nov. 1963 2 p.

Aviation accidents Civil aviation Aviation safety

MED 321

FAA, Office of Aviation Medicine

ALCOHOL AND FLYING, MORTAL ENEMIES
by A. Carpousis, Aviation Medical Examiner
Reprinted from AOPA Pilot, June 1963 7 p.

Behavior Drugs Motor reactions Physical fitness
Pilots

MED 322

FAA, Office of Aviation Medicine

ALCOHOL AND GENERAL AVIATION ACCIDENTS
by C. R. Harper and W. R. Albers
Reprinted from Aerospace Med., Vol. 35, No. 5,
462-464, May 1954 3 p.

Aviation accidents Drugs Physical fitness
Pilots Motor reactions Statistical analysis

MED 323

FAA, Office of Aviation Medicine

LE BRUIT DANS LE CABINE (NOISE IN THE CABIN)
in Aviasport, 407-412, discussing article
by R. L. Wick. (AOPA Pilot, 32-36, July 1964)
6 p.

Acoustic insulation Acoustics
Aircraft cabins Airplane noise

MED 324

FAA, Office of Aviation Medicine

THE CURRENT UPDATING OF OUR MEDICAL STANDARDS
by M. S. White
Presented at Flying Physicians Assoc., Palm
Springs, Calif., Sept. 30, 1964 9 p.

Medical examination Physical fitness
Pilots Standards

MED 325

FAA, Office of Aviation Medicine

DRUG EFFECTS ON PILOTS
by R. L. Wick
AOPA Pilot, 6:12, Nov. 1963 3 p.

Drugs Physiology Pilots Toxicity

MED 326

FAA, Office of Aviation Medicine

FATIGUE, EMOTIONAL PROBLEMS AND CONDITIONED OR
AUTOMATIC BEHAVIOR IN THE JET PILOT
by J. E. Crane (Medical Examiner) n.d. 4 p.

Behavior Emotions Fatigue (physiology)
Jet planes Pilots

MED 327

FAA, Office of Aviation Medicine

FEDERAL AIR SURGEON'S MEDICAL BULLETIN
April 1964 12 p.
64-1

Aviation accidents Aviation medicine
Aviation safety Newspapers Standards

MED 328

FAA, Office of Aviation Medicine

FLYING BOATS ANYONE?

by R. L. Wick
Reprinted from Flying Physician, Vol. 8, 8-14,
July 1964 6 p.

Cockpits Control panels Flying boats
Pilots Training

MED 329

FAA, Office of Aviation Medicine

HUMAN FACTORS OF EMERGENCY EVACUATION
by S. R. Mohler, J. J. Swearingen, E. B. McFadden
Presented at Air Transport and Space Meeting, New
York, April 27-30, 1964 sponsored by Soc. Automotive
Engineers--Am. Soc. Mech. Eng. 11 p.
SAE-ASME 851B

Abandonment Aviation accidents Hatches
Safety devices Time

MED 330

FAA, Office of Aviation Medicine

HYPERVENTILATION, ONE CAUSE
by R. L. Wick, Aviation Medical Examiner
Reprinted from Parachutist, p. 13, Feb. 1963
Same article published in Sky Diver, Feb. 1963 1 p.

Oxygen Parachute jumping Poisoning

MED 331

FAA, Office of Aviation Medicine

IN DEFENSE OF AIR MEDICOS
by R. L. Wick, Aviation Medical Examiner
Reprinted from AOPA Pilot, Dec. 1962 4 p.

Aviation accidents Flight surgeons
Physical fitness Pilots Standards

MED 332

FAA, Office of Aviation Medicine

LIGHT AIRCRAFT NOISE PROBLEMS

by R. L. Wick, L. B. Roberts, W. F. Ashe
Reprinted from research conducted at Ohio State
University, Dept. of Preventive Med., Aerospace
Med., Vol. 34, No. 12, 1133-1137, Dec. 1963 5 p.

Airplane noise Hearing Pilots
Protective clothing Tolerances (physiology)
Utility planes

MED 333

FAA, Office of Aviation Medicine

MEDICAL ACTIVITIES ASSOCIATED WITH THE UNITED
STATES SUPERSONIC TRANSPORT PROGRAM

by M. S. White
Presented at 13th International Congress of
Aviation and Space Medicine, Dublin, Sept. 25-27,
1964 11 p.

Explosive decompression Fatigue (physiology)
Medical research Radiation hazards
Supersonic transports Toxicity

MED 334

FAA, Office of Aviation Medicine

MEDICAL EDUCATION FOR STUDENT PILOTS

by R. L. Wick
Reprinted from Flying Physician, Vol. 6, No. 3, 4-5,
July 1962 2 p

Aviation safety Education Pilots Training

MED 335

FAA, Office of Aviation Medicine

MEDICAL FACTS FOR PILOTS

by S. R. Mohler and P. V. Siegel. Jan. 1964 8 p.

Medical examination Physical fitness
Pilots Standards

MED 336

FAA, Office of Aviation Medicine

NIGHT TAKEOFF

by R. L. Wick
Reprinted from AOPA Pilot, 6:9, Aug. 1963 3 p.

Aviation accidents Instrument flight
Night flight Takeoff

MED 337

FAA, Office of Aviation Medicine

NOISE IN THE CABIN

by R. L. Wick
Reprinted from AOPA Pilot, 32-36, July 1964 2 p.

Airplane noise Earphones Ears Hearings
Jet plane noise Protective clothing

MED 338

FAA, Office of Aviation Medicine

THE PHYSIOLOGICAL LOCUS OF THE SPIRAL
AFTER-EFFECT
by S. L. Freud
Reprinted from Am. J. Psychology, 77:3, 422-428,
Sept. 1964 7 p.

Afterimages Eye Physiology Rotation

MED 339

FAA, Office of Aviation Medicine

PHYSICAL DEFECTS OF CIVILIAN PILOTS RELATED
TO AIRCRAFT ACCIDENTS
by C. R. Harper
Reprinted from Aerospace Med., Vol. 35, 851-856,
Sept. 1964 6 p.

Aviation accidents Pathology Physical fitness
Pilots Standards

MED 340

FAA, Office of Aviation Medicine

PORTRAIT OF AN ACCIDENT
by R. L. Wick
Reprinted from AOPA Pilot, 6:2, Feb. 1963

Aviation accidents Ceiling
Concussion Safety harness

MED 341

FAA, Office of Aviation Medicine

PRESENCE OF OZONE IN CABINS OF HIGH-ALTITUDE AIRCRAFT
by L. S. Jaffe and H. D. Estes
Presented as Preprint 63-234 at the AIAA Summer
Meeting, Los Angeles, June 17-20, 1963
Reprinted from J. Aircraft, Vol. 1, No. 3, 157-158,
May-June 1964 2 p.

Health physics High altitude Ozone Toxicity

MED 342

FAA, Office of Aviation Medicine

A PROFESSIONAL CONFESSION
by R. L. Wick
Reprinted from AOPA Pilot, Vol. 6, No. 13, 28-30,
Dec. 1963 3 p.

Aviation accidents Behavior Utility planes
Pilots Psychology

MED 343

FAA, Office of Aviation Medicine

THE ROTATING BEACON, FRIEND OR FOE?
by R. L. Wick, Aviation Medical Examiner
Reprinted from AOPA Pilot, June 1963 4 p.

Approach lights Aviation safety Beacon lights
Pilots Reaction (psychology) Visibility

MED 344

FAA, Office of Aviation Medicine

SIMULATION AND EFFECTS OF SEVERE TURBULENCE
ON JET AIRLINE PILOTS
by S. Ragland, R. M. Chambers, R. J. Crosbie
Done at the request of Office of Aviation
Medicine, M. S. White, Federal Air Surgeon at
Aviation Medical Acceleration Lab., U. S. Naval
Air Development Center, Johnsville, Penn.,
Aug. 1964 45 p.
NADC-ML-6411

Acceleration tolerance Jet planes Pilots
Simulation Turbulence

MED 345

FAA, Office of Aviation Medicine

THE TIME ZONE FATIGUE SYNDROME
by J. E. Crane, Aviation Medical Examiner
Reprinted from Flying Physician, Vol. 7, No. 4,
pp. 19 and 22, Oct. 1963 2 p.

Fatigue (physiology) Pilots Subsonic flight
Time

MED 346

FAA, Civil Aeromedical Research Institute

PROBLEMS IN AIR TRAFFIC MANAGEMENT--I. LONGITUDINAL
PREDICTIONS OF EFFECTIVENESS OF AIR TRAFFIC
CONTROLLERS
by D. K. Trites (Oklahoma City, Okla.) 1961 11 p.
CARI Rept. 61-1

Air traffic controllers Aptitude tests
Performance tests Psychometrics Selection

MED 347 434

FAA, Civil Aeromedical Research Institute

AN ANALYSIS OF SITTING AREAS AND PRESSURES OF MAN
by J. J. Swearingen, C. D. Wheelwright, J. D. Garner
(Oklahoma City, Okla.) 1962 10 p.
CARI Rept. 62-1

Aircraft seats Anthropometry Aviation safety
Body weight Distribution Pressure

MED 348 430

FAA, Civil Aeromedical Research Institute

PROBLEMS IN AIR TRAFFIC MANAGEMENT--II. PREDICTION OF SUCCESS IN AIR TRAFFIC CONTROLLER SCHOOL by B. B. Cobb (Oklahoma City, Okla.) 1962 15 p. CARI Rept. 62-2

Air traffic controllers Personality tests
Aptitude tests Psychometrics Training

MED 349 431

FAA, Civil Aeromedical Research Institute

PROBLEMS IN AIR TRAFFIC MANAGEMENT--III. IMPLICATIONS OF AGE FOR TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROLLERS by D. K. Trites and B. B. Cobb (Oklahoma City, Okla.) 1962 14 p. CARI Rept. 62-3

Aging (physiology) Air traffic controllers
Performance tests Training

MED 350 432

FAA, Civil Aeromedical Research Institute

SONOTROPIC EFFECTS OF COMMERCIAL AIR TRANSPORT SOUND ON BIRDS by J. J. Swearingen and S. R. Mohler (Oklahoma City, Okla.) 1962 5 p. CARI Rept. 62-4

Aviation accidents Birds Hazards
Transport planes Sound

MED 351 433

FAA, Civil Aeromedical Research Institute

PREDICTION OF ENERGY COST OF TREADMILL WORK by P. F. Iampietro and R. F. Goldman (Oklahoma City, Okla.) 1962 4 p. CARI Rept. 62-5

Exercise Physical fitness Physiology
Tolerances (physiology)

MED 352 435

FAA, Civil Aeromedical Research Institute

HUMAN TOLERANCES by B. Balke (Oklahoma City, Okla.) 1962 15 p. CARI Rept. 62-6

Adaptation (physiology) Stress (physiology)
Stress (psychology) Supersonic transports
Tolerances (physiology)

MED 353 436

FAA, Civil Aeromedical Research Institute

FAILURE OF REARWARD FACING SEAT-BACKS AND RESULTING INJURIES IN A SURVIVABLE TRANSPORT ACCIDENT by A. H. Hasbrook and J. C. Early (Oklahoma City, Okla.) 1962 11 p. CARI Rept. 62-7

Aircraft seats Aviation accidents
Aviation safety Locking fastener devices
Transport planes

MED 354 437

FAA, Civil Aeromedical Research Institute

TOXIC HAZARDS IN AERIAL APPLICATION by P. W. Smith (Oklahoma City, Okla.) 1962 8 p. CARI Rept. 62-8

Hazards Health physics Insect control
Insecticides Toxicity

MED 355 438

FAA, Civil Aeromedical Research Institute

EVACUATION PATTERN ANALYSIS OF A SURVIVABLE COMMERCIAL AIRCRAFT CRASH by A. H. Hasbrook, J. D. Garner, C. C. Snow (Oklahoma City, Okla.) 1962 10 p. CARI Rept. 62-9

Abandonment Aircraft fires Aviation accidents
Jet transport planes

MED 356 439

FAA, Civil Aeromedical Research Institute

PROBLEMS IN AERIAL APPLICATION--I. SOME BIOCHEMICAL EFFECTS OF LINDANE AND DIELDRIN ON VERTEBRATES by J. W. Daugherty, D. E. Lacey, P. Korty (Oklahoma City, Okla.) 1962 6 p. CARI Rept. 62-10

Biochemistry Desoxyribonucleic acids Insecticides
Ribonucleic acids Toxicity

MED 357 440

FAA, Civil Aeromedical Research Institute

TACTILE COMMUNICATION by G. R. Hawkes (Oklahoma City, Okla.) 1962 6 p. CARI Rept. 62-11

Acuity Communication systems Sensory mechanism
Skin Touch

MED 358 441

FAA, Civil Aeromedical Research Institute

THE EFFECTS OF SIMULATED ALTITUDE ON PENETRATING EYE INJURIES

by J. R. Dille, N. L. Newton, J. F. Culver
(Oklahoma City, Okla.) 1962 5 p.
CARI Rept. 62-12

Barometric pressure Eye High altitude
Physiology Injuries

MED 359 442

FAA, Civil Aeromedical Research Institute

KINEMATIC BEHAVIOR OF THE HUMAN BODY DURING DECELERATION

by J. J. Swearingen, A. H. Hasbrook, R. G. Snyder
(Oklahoma City, Okla.) 1962 8 p.
CARI Rept. 62-13

Anthropometry Aviation accidents Deceleration
Impact shock Tolerances (physiology)

MED 360 443

FAA, Civil Aeromedical Research Institute

DETERMINATION OF CENTERS OF GRAVITY OF MAN

by J. J. Swearingen (Oklahoma City, Okla.) 1962
37 p.
CARI Rept. 62-14

Anthropometry Aviation safety Center of gravity
Man

MED 361 444

FAA, Civil Aeromedical Research Institute

THE VISUAL PERCEPTION OF SIZE AND DISTANCE

by W. C. Gogel (Oklahoma City, Okla.) 1962 19 p.
CARI Rept. 62-15

Psychology Space perception Vision
Visual acuity

MED 362 445

FAA, Civil Aeromedical Research Institute

ABSOLUTE IDENTIFICATIONS OF CUTANEOUS STIMULI VARYING IN BOTH INTENSITY LEVEL AND DURATION

by G. R. Hawkes (Oklahoma City, Okla.) 1962 6 p.
CARI Rept. 62-16

Hearing Information theory Perception
Psychoacoustics

MED 363 446

FAA, Civil Aeromedical Research Institute

MANIPULATION OF AROUSAL AND ITS EFFECTS ON HUMAN VESTIBULAR NYSTAGMUS INDUCED BY CALORIC IRRIGATION AND ANGULAR ACCELERATIONS

by W. E. Collins (Oklahoma City, Okla.) 1962 12 p.
CARI Rept. 62-17

Acceleration tolerance Adaptation (physiology)
Ear Eye Pharmacology Motion Sickness

MED 364 447

FAA, Civil Aeromedical Research Institute

EFFECT OF INCREASED VENOUS PRESSURE ON RENAL HEMODYNAMICS

by L. B. Hinshaw, C. M. Brake, P. F. Iampietro
(Oklahoma City, Okla.) 1962 12 p.
CARI Rept. 62-18

Blood circulation Blood pressure Kidney
Veins

MED 365 448

FAA, Civil Aeromedical Research Institute

A CASE OF SURVIVAL OF EXTREME VERTICAL IMPACT IN SEATED POSITION

by R. G. Snyder (Oklahoma City, Okla.) 1962 15 p.
CARI Rept. 62-19

Acceleration tolerance Anthropometry
Impact shock Shock (pathology)

MED 366 449

FAA, Civil Aeromedical Research Institute

CIVIL AEROMEDICAL RESEARCH--RESPONSIBILITIES, AIMS, AND ACCOMPLISHMENTS

by S. R. Mohler (Oklahoma City, Okla.) 1962 18 p.
CARI Rept. 62-20

Aviation accidents Aviation personnel
Aviation safety Medical research Standards

MED 367 450

FAA, Civil Aeromedical Research Institute

AN IMPROVED METHOD FOR DETERMINING THE EFFICIENCY OF CREW AND PASSENGER OXYGEN MASKS, A PRELIMINARY REPORT

by E. B. McFadden, J. W. Raeke, J. W. Young
(Oklahoma City, Okla.) 1962 16 p.
CARI Rept. 62-21

Anthropometry Hypoxia Oxygen masks Respiration

MED 368 451

FAA, Civil Aeromedical Research Institute

ANNOTATED BIBLIOGRAPHY OF RECENTLY TRANSLATED MATERIAL

by W. E. Collins, J. V. Tobias, M. J. Capps
(Oklahoma City, Okla.) 1963 7 p.
Tech. Pub. No. 1

Bibliography Coriolis effects Eye
Motion sickness

MED 369 2264

FAA, Civil Aeromedical Research Institute

THE DEVELOPMENT OF REVERSIBLE HEMATURIA AND OLIGURIA
FOLLOWING ELEVATION OF RENAL VENOUS PRESSURE
by T. E. Emerson, L. B. Hinshaw, C. M. Brake
(Oklahoma City, Okla.) 1963 5 p.
CARI Rept. 63-1

Excretion Kidneys Physical fitness
Physiology Urine

MED 370 452

FAA, Civil Aeromedical Research Institute

RESUME AND INDEX OF REPORTS OF THE CIVIL AEROMEDICAL
RESEARCH INSTITUTE 1961-1962
by S. R. Mohler and J. R. Dille (Oklahoma City,
Okla.) 1963 6 p.
CARI Rept. 63-2

Abstracts Civil aviation Indexes
Medical research

MED 371

FAA, Civil Aeromedical Research Institute

OBSERVATIONS ON THE ELICITATION OF SECONDARY AND
INVERTED PRIMARY NYSTAGMUS FROM THE CAT BY
UNILATERAL CALORIC IRRIGATION
by W. E. Collins (Oklahoma City, Okla.) 1963 11 p.
CARI Rept. 63-3

Adaptation (physiology) Ear Eye Motion sickness

MED 372

FAA, Civil Aeromedical Research Institute

PROBLEMS IN AERIAL APPLICATION--II. EFFECTS OF
CHLORINATED HYDROCARBONS ON SUBSTRATE-LINKED
PHOSPHORYLATION
by J. W. Daugherty, D. E. Lacey, P. Korty
(Oklahoma City, Okla.) 1963 5 p.
CARI Rept. 63-4

Hydrocarbons Insecticides Phosphorylation
Toxicity

MED 373

FAA, Civil Aeromedical Research Institute

NEUTRAL CONTROL OF THE CILIARY MUSCLE
by C. E. Melton, Jr. (Oklahoma City, Okla.)
1963 11 p.
CARI Rept. 63-5

Autonomic nervous system Eye Muscles Vision

MED 374

FAA, Civil Aeromedical Research Institute

A SIMPLE FIELD TEST FOR THE ASSESSMENT OF PHYSICAL
FITNESS

by B. Balke (Oklahoma City, Okla.) 1963 8 p.
CARI Rept. 63-6

Aviation personnel Exercise Oxygen consumption
Physical fitness Respiration

MED 375

FAA, Civil Aeromedical Research Institute

RELATION OF EARPHONE TRANSIENT RESPONSE TO
MEASUREMENT OF ONSET-DURATION

by J. V. Tobias and L. A. Jeffress (Oklahoma
City, Okla.) 1963 3 p.
CARI Rept. 63-7

Auditory nerve Earphones Hearing Transients

MED 376

FAA, Civil Aeromedical Research Institute

CALIBRATION OF AN ELECTRONIC COUNTER AND PULSE
HEIGHT ANALYZER FOR PLOTTING ERYTHROCYTE VOLUME
SPECTRA

by J. M. McKenzie, P. R. Fowler, P. J. Lyne
(Oklahoma City, Okla.) 1963 8 p.
CARI Rept. 63-8

Blood counts Calibration Electronic equipment
Erythrocytes Instrumentation
Pulse height analyzers

MED 377 2152

FAA, Civil Aeromedical Research Institute

STUDIES OF AIR LOADS ON MAN

by J. J. Swearingen and E. B. McFadden (Oklahoma
City, Okla.) 1963 8 p.
CARI Rept. 63-9

Air burst Drag Explosive decompression
Man Wind tunnel tests

MED 378

FAA, Civil Aeromedical Research Institute

THE PERCEPTION OF DEPTH FROM BINOCULAR DISPARITY
by W. C. Gogel (Oklahoma City, Okla.) 1963 10 p.
CARI Rept. 63-10

Binoculars Psychology Space perception Vision
MED 379

FAA, Civil Aeromedical Research Institute

"IN VIVO" MEASUREMENT OF TOTAL GAS PRESSURE IN
MAMMALIAN TISSUE
by M. T. Lategola (Oklahoma City, Okla.) 1963 7 p.
CARI Rept. 63-11

Mammals Metabolism Physiology Pressure
Tissues (biology)
MED 380 2153

FAA, Civil Aeromedical Research Institute

THE MITIGATION OF PHYSICAL FATIGUE WITH "SPARTASE"
by F. J. Nagle, B. Balke, R. V. Ganslen (Oklahoma
City, Okla.) 1963 10 p.
CARI Rept. 63-12

Exercises Fatigue (physiology) Pharmacology
Physical fitness Stress (physiology)
MED 381

FAA, Civil Aeromedical Research Institute

PRIMARY, SECONDARY, AND CALORIC NYSTAGMUS OF
THE CAT FOLLOWING HABITUATION TO ROTATION
by W. E. Collins (Oklahoma City, Okla.) 1963 19 p.
CARI Rept. 63-13

Acceleration tolerance Adaptation (physiology)
Eye Motion sickness Rotation
MED 382

FAA, Civil Aeromedical Research Institute

NYSTAGMUS RESPONSES OF THE CAT TO ROTATION AND TO
DIRECTIONALLY EQUIVALENT AND NON-EQUIVALENT STIMULI
AFTER UNILATERAL CALORIC HABITUATION
by W. E. Collins (Oklahoma City, Okla.) 1963 10 p.
CARI Rept. 63-14

Acceleration tolerance Adaptation (physiology)
Eye Motion sickness Rotation
MED 383 2275

FAA, Civil Aeromedical Research Institute

HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE-FALL
by R. B. Snyder (Oklahoma City, Okla.) 1963 29 p.
CARI Rept. 63-15

Acceleration tolerance Landing impact Man
Shock (pathology) Survival
MED 384

FAA, Civil Aeromedical Research Institute

MECHANISMS OF ACTION OF THE INSECTICIDE ENDRIN
by T. E. Emerson, Jr., C. M. Brake, L. B. Hinshaw
(Oklahoma City, Okla.) 1963 15 p.
CARI Rept. 63-16

Hematology Insecticides Poisoning Toxicity
MED 385

FAA, Civil Aeromedical Research Institute

APPLICATION OF A "RELATIVE" PROCEDURE TO A PROBLEM
IN BINAURAL BEAT PERCEPTION
by J. V. Tobias (Oklahoma City, Okla.) 1963 8 p.
CARI Rept. 63-17

Audiometry Hearing Psychoacoustics
Reaction (psychology)
MED 386

FAA, Civil Aeromedical Research Institute

EXPERIMENTAL EVALUATION OF WORK CAPACITY AS
RELATED TO CHRONOLOGICAL AND PHYSIOLOGICAL AGING
by B. Balke (Oklahoma City, Okla.) 1963 6 p.
CARI Rept. 63-18

Aging (physiology) Exercise Physical fitness
Physiology
MED 387

FAA, Civil Aeromedical Research Institute

A CENTRAL FACTOR IN PURE TONE AUDITORY FATIGUE
by J. S. Wernick and J. V. Tobias (Oklahoma City,
Okla.) 1963 6 p.
CARI Rept. 63-19

Audiometry Fatigue (physiology) Hearing
Thresholds (physiology)
MED 388

FAA, Civil Aeromedical Research Institute

THE VISUAL PERCEPTION OF SPATIAL EXTENT
by W. C. Gogel (Oklahoma City, Okla.) 1963 11 p.
CARI Rept. 63-20

Psychometrics Space perception Vision
Visual acuity
MED 389

FAA, Civil Aeromedical Research Institute

INFLIGHT LOSS OF CONSCIOUSNESS, A CASE REPORT
by P. C. Tang and J. R. Dille (Oklahoma City,
Okla.) 1963 13 p.
CARI Rept. 63-21

Electroencephalography Syncope Vertigo
MED 390

FAA, Civil Aeromedical Research Institute

THE MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES FOLLOWING ACUTE ARTERIAL OCCLUSION

by L. B. Hinshaw, B. B. Page, C. M. Brake
(Oklahoma City, Okla.) 1963 24 p.
CARI Rept. 63-22

Arteries Blood disorders Kidneys
Obstruction (physiology) Stress (physiology)

MED 391

FAA, Civil Aeromedical Research Institute

THE EFFECTS OF A TRANQUILIZER ON BODY TEMPERATURE

by E. A. Higgins, P. F. Iampietro, T. Adams
(Oklahoma City, Okla.) 1963 5 p.
CARI Rept. 63-23

Atmospheric temperature Body temperature
Pharmacology Tranquillizers

MED 392

FAA, Civil Aeromedical Research Institute

CENTRAL NERVOUS SYSTEM EFFECTS OF CHRONIC EXPOSURE TO ORGANOPHOSPHATE INSECTICIDES

by J. R. Dille and P. W. Smith (Oklahoma City, Okla.) 1963 7 p.
CARI Rept. 63-24

Brain Insecticides Spinal cord Toxicity

MED 393

FAA, Civil Aeromedical Research Institute

A METHOD FOR THE MEASUREMENT OF PHYSIOLOGIC EVAPORATIVE WATER LOSS

by T. Adams, G. E. Funkhouser, W. W. Kendall
(Oklahoma City, Okla.) 1963 15 p.
CARI Rept. 63-25

Anxiety Instrumentation Measurement Perspiration
Stress (physiology) Stress (psychology)

MED 394

FAA, Civil Aeromedical Research Institute

ACUTE AND CHRONIC EFFECTS OF THE INSECTICIDE ENDRIN ON RENAL FUNCTION AND RENAL HEMODYNAMICS

by D. A. Reins, D. D. Holmes, L. B. Hinshaw
(Oklahoma City, Okla.) 1963 9 p.
CARI Rept. 63-26

Insecticides Kidneys Pathology Poisoning
Toxicity

MED 395

FAA, Civil Aeromedical Research Institute

THE FLAMMABILITY OF LIP, FACE AND HAIR PREPARATIONS IN THE PRESENCE OF 100 PERCENT OXYGEN

by J. R. Dille, C. R. Crane, G. E. Pendergrass
(Oklahoma City, Okla.) 1963 5 p.
CARI Rept. 63-27

Aircraft fires Flammability Ignition
Oxygen Toilet articles

MED 396

FAA, Civil Aeromedical Research Institute

SIZE CUES AND THE ADJACENCY PRINCIPLE

by W. C. Gogel (Oklahoma City, Okla.) 1963 8 p.
CARI Rept. 63-28

Psychometrics Space perception Vision
Visual acuity

MED 397

FAA, Civil Aeromedical Research Institute

TASK--CONTROL OF AROUSAL AND THE EFFECTS OF REPEATED UNIDIRECTIONAL ANGULAR ACCELERATION ON HUMAN VESTIBULAR RESPONSES

by W. E. Collins (Oklahoma City, Okla.) 1963 26 p.
CARI Rept. 63-29

Acceleration tolerance Adaptation (physiology)
Eye Motion sickness Psychomotor tests

MED 398

FAA, Civil Aeromedical Research Institute

BIOMEDICAL RESEARCH STUDIES IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEMS--A COMPREHENSIVE BIBLIOGRAPHY

by R. G. Snyder, J. Ice, F. Duncan (Oklahoma City, Okla.) Dec. 1963 3072 p.
Jointly sponsored with the USAS Aerospace Medical Research Laboratories and the USAS School of Aerospace Medicine
CARI Rept. 63-30

Abandonment Acceleration tolerances
Bibliographies Impact shock Safety harness
Weightlessness

MED 399

FAA, Civil Aeromedical Research Institute

PROBLEMS IN AIR TRAFFIC MANAGEMENT IV. COMPARISON OF PRE-EMPLOYMENT, JOB-RELATED EXPERIENCE WITH APTITUDE TESTS AS PREDICTORS OF TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS

by D. K. Trites and B. B. Cobb (Oklahoma City, Okla.) 1963 11 p.
CARI Rept. 63-31

Air traffic controllers Aptitude tests
Selection Transfer of training

MED 400

FAA, Civil Aeromedical Research Institute

MECHANISM OF AUTOREGULATION IN THE INTACT KIDNEY
by L. B. Hinshaw, T. E. Emerson, Jr., C. M. Brake
(Oklahoma City, Okla.) 1963 12 p.
CARI Rept. 63-32

Blood circulation Blood pressure Kidney
Physiology

MED 401

FAA, Civil Aeromedical Research Institute

WORK TOLERANCE--AGE AND ALTITUDE
by D. B. Dill, S. Robinson, J. L. Newton (Oklahoma
City, Okla.) 1963 8 p.
CARI Rept. 63-33

Aging (physiology) Exercise High altitude
Tolerances (physiology)

MED 402

FAA, Civil Aeromedical Research Institute

EFFECTS OF SOME TRANQUILIZING, ANALEPTIC AND
VASODILATING DRUGS ON PHYSICAL WORK AND CAPACITY
AND ORTHOSTATIC TOLERANCE
by R. V. Ganslen, B. Balke, F. J. Nagle (Oklahoma
City, Okla.) 1963 8 p.
CARI Rept. 63-34

Attention CNS stimulants Pharmacology
Tolerances (physiology) Vasoactive agents

MED 403

FAA, Civil Aeromedical Research Institute

HUMAN FACTORS ASPECTS OF LIGHTPLANE SAFETY
by R. G. Pearson (Oklahoma City, Okla.) 1963 13 p.
CARI Rept. 63-35

Aviation accidents Aviation injuries
Human engineering Utility planes

MED 404

FAA, Civil Aeromedical Research Institute

AEROMEDICAL RESEARCH PROGRAM
by Civil Aeromedical Research Institute (Oklahoma
City, Okla.) n.d. 24 p.

Aging (physiology) Aviation personnel
Medical research Pharmacology Psychometrics
Stress (physiology)

MED 405

FAA, Civil Aeromedical Research Institute

AEROSPACE ANTHROPOLOGY IN FEDERAL RESEARCH
by R. G. Snyder (Oklahoma City, Okla.)
Presented at 62nd Annual Meeting, Am. Anthropol.
Assoc., San Francisco, Nov. 1963 11 p.

Aeronautics Anthropology Anthropometry
Shock (pathology) Tolerances (physiology)

MED 406

FAA, Civil Aeromedical Research Institute

AGING AND PILOT PERFORMANCE
by S. R. Mohler (Oklahoma City, Okla.)
Reprinted from Geriatrics, Vol. 16, 82-88,
Feb. 1961 6 p.

Aging (physiology) Performance tests
Physical fitness Pilots

MED 407

FAA, Civil Aeromedical Research Institute

CARDIOVASCULAR EFFECTS OF THE INSECTICIDE ENDRIN
by T. E. Emerson, Jr., C. M. Brake, L. E. Hinshaw
(Oklahoma City, Okla.)
Reprinted from Canad. J. Phys. and Pharmacology,
Vol. 42, 41-51, 1964 11 p.

Cardiovascular system Health physics
Insecticides Poisoning Toxicity

MED 408

FAA, Civil Aeromedical Research Institute

CIVIL AEROMEDICAL RESEARCH PROGRESS
by S. R. Mohler (Oklahoma City, Okla.)
Preprints of Scientific Program, Annual Scientific
Meeting, Aerospace Med. Assoc., 96-97, April 1963
2 p.

Aviation accidents Aviation personnel
Aviation safety Medical Research Passengers

MED 409

FAA, Civil Aeromedical Research Institute

CURRENT CIVIL AEROMEDICAL RESEARCH
by S. R. Mohler (Oklahoma City, Okla.)
Reprinted from Texas State J. Med., Vol. 59,
187-191, March 1963 4 p.

Aviation accidents Aviation personnel
Civil aviation Human engineering
Medical research Tolerances (physiology)

MED 410

FAA, Civil Aeromedical Research Institute

DETERMINANTS OF INJURY SEVERITY IN LIGHTPLANE
CRASHES

by R. G. Pearson (Oklahoma City, Okla.)
Presented at Aerospace Med. Assoc. Meeting, Atlantic
City, April 10
Reprinted from Aerospace Med., Vol. 33, 1407-1414,
Dec. 1962 7 p.

Aviation accidents Aviation injuries
Safety devices Utility planes

MED 411

FAA, Civil Aeromedical Research Institute

EFFECTS OF SOME TRANQUILIZING, ANALEPTIC AND
VASODILATING DRUGS ON PHYSICAL WORK CAPACITY
AND ORTHOSTATIC TOLERANCE

by R. V. Ganslen, B. Balke, F. J. Nagle
(Oklahoma City, Okla.)
Reprinted from Aerospace Med., Vol. 35, No. 7,
July 1964 4 p.

CNS stimulants Psychomotor tests
Tolerance (physiology) Tranquilizers
Vasoactive agents

MED 412

FAA, Civil Aeromedical Research Institute

ELECTROENCEPHALOGRAPH ALPHA ACTIVITY DURING MILD
VESTIBULAR STIMULATION

by W. E. Collins (Oklahoma City, Okla.), J. B. Posner
Reprinted from Nature, Vol. 199, No. 4896, 933-934,
Aug. 1963 2 p.

Ear Electroencephalography Eye Motion sickness
Nerves

MED 413

FAA, Civil Aeromedical Research Institute

EXECUTIVE HEALTH GUIDE

by S. R. Mohler (Oklahoma City, Okla.) n.d. 7 p.

Aging (physiology) Body weight Diet
Physical fitness

MED 414

FAA, Civil Aeromedical Research Institute

EXPERIMENTELLE UNTERSUCHUNGEN DER ORGANISCHEN
ANPASSUNGSFAHIGKEIT MIT ZUNDEHMENDEM ALTER
(INVESTIGATIONS ON ORGANIC ADAPTABILITY WITH
INCREASING AGE)

by B. Balke (Oklahoma City, Okla.)
Festschrift Diem published at Frankfurt/Main and
Vienna by Wilhelm Limpert-Verlag 6 p.

Aging (physiology) Fatigue (physiology)
Oxygen consumption Physical fitness
Tolerances (physiology)

MED 415

FAA, Civil Aeromedical Research Institute

GENERAL BIOLOGY OF SENESCENCE

by S. R. Mohler (Oklahoma City, Okla.)
Reprinted from Postgraduate Med., Vol. 30, No. 6,
527-538, Dec. 1961 11 p.

Aging (physiology) Cardiovascular system
Medical research Nervous system Physiology

MED 416

FAA, Civil Aeromedical Research Institute

HEAT-INDUCED TETANY

by P. F. Iampietro (Oklahoma City, Okla.)
Reprinted from Federation Proc., Vol. 22, No. 3,
May-June 1963 3 p.

Convulsive disorders Oxygen Pathology
Poisoning Temperature Tolerances (physiology)

MED 417

FAA, Civil Aeromedical Research Institute

HUMAN FACTORS ASPECTS OF ATC INCIDENT INVOLVEMENT--
AN ADJUNCT TO THE REPORT OF THE NEAR MID-AIR
COLLISION STUDY GROUP (CONSULTATIVE REPORT)

by R. G. Pearson, W. O'Connor, D. Trites
(Oklahoma City, Okla.) July 1962 23 p.

Air traffic controllers Aviation accidents
Collisions Human engineering Performance tests

MED 418

FAA, Civil Aeromedical Research Institute

HUMAN RELIABILITY AND CONFINEMENT

by G. T. Hauty (Oklahoma City, Okla.)
Manuscript, n.d. 20 p.

Behavior Confined environments Psychometrics
Sensory deprivation Stress (psychology)

MED 419

FAA, Civil Aeromedical Research Institute

HUMAN TOLERANCES TO EXTREME IMPACTS IN FREE-FALL

by R. G. Snyder (Oklahoma City, Okla.)
Presented at Aerospace Med. Assoc., 34th Annual
Meeting, Los Angeles, May 1, 1963
Reprinted from Aerospace Med., Vol. 34, No. 8,
Aug. 1963 15 p.

Acceleration tolerance Impact shock Man
Shock (pathology) Thresholds (physiology)
Wounds and injuries

MED 420

FAA, Civil Aeromedical Research Institute

HUMAN VOLUNTARY TOLERANCE TO VERTICAL IMPACT
by J. J. Swearingen, E. B. McFadden, J. D. Garner
(Oklahoma City, Okla.)
Presented at Aerospace Med. Assoc. Meeting, Miami,
1960
Reprinted from Aerospace Med., Vol. 31, Dec. 1960
10 p.

Acceleration tolerances Aviation accidents
Impact shock Posture

MED 421

FAA, Civil Aeromedical Research Institute

KINEMATIC BEHAVIOR OF THE HUMAN BODY DURING
DECELERATION
by J. J. Swearingen, A. S. Hasbrook, R. G. Snyder
(Oklahoma City, Okla.)
Reprinted from Aerospace Med., Vol. 33, 188-197,
Feb. 1962 10 p.

Acceleration tolerances Anthropometry
Deceleration Posture Safety harness

MED 422

FAA, Civil Aeromedical Research Institute

MANIPULATION OF AROUSAL AND ITS EFFECTS OF HUMAN
VESTIBULAR NYSTAGMUS INDUCED BY CALORIC IRRIGATION
AND ANGULAR ACCELERATIONS
by W. E. Collins (Oklahoma City, Okla.)
Presented at Aerospace Med. Assoc. Meeting, Atlantic
City, April 9, 1962
Reprinted from Aerospace Med., Vol. 34, No. 2,
124-129, Feb. 1963 6 p.

Acceleration tolerances Ear Electroencephalography
Eye Motion sickness Psychometrics

MED 423

FAA, Civil Aeromedical Research Institute

PERIODIC DESYNCHRONIZATION IN HUMANS UNDER OUTER
SPACE CONDITIONS
by G. T. Hauty (Oklahoma City, Okla.)
In, "Rhythmic Functions in the Living System",
Annals N.Y. Acad. Sciences, Vol. 98, Art. 4,
1116-1125, Oct. 1962 9 p.

Adaptation (physiology) Adjustment (psychology)
Closed cycle ecological systems
Fatigue (physiology) Pilots Space medicine

MED 424

FAA, Civil Aeromedical Research Institute

PHYSICAL WORKING CAPACITY IN MEDICAL PERSONNEL
AND THE RESPONSE OF SERUM CHOLESTEROL TO ACUTE
EXERCISE AND TO TRAINING
by J. Naughton, B. Balke (Oklahoma City, Okla.)
Reprinted from Am. J. Med. Sciences, Vol. 247,
No. 3, March 1964 7 p.

Cholesterol Exercise Fatigue (physiology)
Tolerances (physiology)

MED 425

FAA, Civil Aeromedical Research Institute

PROBLEMS IN AERIAL APPLICATION
by P. W. Smith
Presented at CARI Aeromedical Symposium
Reprinted from Aerospace Med., Vol. 34, No. 6,
542-544, June 1963 3 p.

Hazards Health physics Insecticides Toxicity

MED 426

FAA, Civil Aeromedical Research Institute

PROJECT STUDIES REPORT, DEC. 1961
by Civil Aeromedical Research Institute (Oklahoma
City, Okla.) 1961 11 p.

Air traffic controllers Design Drugs
Pilots Stress (physiology) Utility planes

MED 427

FAA, Civil Aeromedical Research Institute

PROJECT STUDIES REPORT, OCT. 1962
by Civil Aeromedical Research Institute (Oklahoma
City, Okla.) 1962 10 p.

Air traffic controllers Design Drugs
Physical fitness Stress (physiology)
Utility planes

MED 428

FAA, Civil Aeromedical Research Institute

PROJECT STUDIES REPORT, JAN. 31, 1963
by Civil Aeromedical Research Institute (Oklahoma
City, Okla.) 13 p.

Aviation injuries Design Pharmacology Pilots
Stress (physiology) Utility planes

MED 429 344

FAA, Civil Aeromedical Research Institute

PROTECTION OF SHIPBOARD PERSONNEL AGAINST THE
EFFECTS OF SEVERE SHORT-LIVED UPWARD FORCES
RESULTING FROM UNDERWATER EXPLOSIONS--FINAL REPORT
ON NAVY CONTRACT

by J. J. Swearingen, E. B. McFadden, J. D. Garner
(Oklahoma City, Okla.) Jan. 1960 11 p.
Contract # NAonr 104-51

Impact shock Naval personnel Posture Safety
Tolerances (physiology) Underwater explosions

MED 430

FAA, Civil Aeromedical Research Institute

PSYCHOLOGICAL DETERMINANTS OF FUNCTIONAL
STRESSES IN AVIATION

by G. T. Hauty (Oklahoma City, Okla.)
Presented to NASA Research Advisory Committee
on Aircraft Operating Problems, Langley Field, Va.
Oct. 1961 16 p.

Fatigue (physiology) Intelligibility Pilots
Sensory mechanisms Space perception
Stress (psychology)

MED 431

FAA, Civil Aeromedical Research Institute

PHYSIOLOGICAL RESPONSES OF NORMAL AND
PATHOLOGICAL SUBJECTS TO A MODIFIED WORK
CAPACITY TEST

by J. Naughton, G. Sevelius, B. Balke
(Oklahoma City, Okla.)
Reprinted from J. Medicine and Physical Fitness,
Vol. 3, No. 4, Dec. 1963 9 p.

Disease Exercise Fatigue (physiology)
Heart Physical fitness Tolerances (physiology)

MED 432

FAA, Civil Aeromedical Research Institute

PSYCHOLOGICAL SELECTION AND PSYCHOSOMATIC ASSESSMENT
RESEARCH IN THE CIVIL AEROMEDICAL RESEARCH INSTITUTE

by D. K. Trites (Oklahoma City, Okla.)
Presented at Fifth European Congress of Aviation
Medicine, London, 1960
Published in Human Problems of Supersonic and
Hypersonic Flight, New York: Pergamon Press, 1962
6 p.

Aptitude tests Aviation personnel Psychometrics
Selection

MED 433

FAA, Civil Aeromedical Research Institute

PSYCHOMOTOR PERFORMANCE AND NYSTAGMUS OF A MACACA
MULATTA DURING MISSILE FLIGHT

by C. D. Green and P. C. Tang (Oklahoma City, Okla.)
Published in Symposium on Psychophysiological
Aspects of Space Flight, B. E. Flaherty, ed.
New York: Columbia U Press, 66-74, 1961 9 p.

Eye Motion sickness Psychomotor tests
Space flight

MED 434

FAA, Civil Aeromedical Research Institute

RELATIONSHIPS BETWEEN OPERATOR PROFICIENCY AND
EFFECTED CHANGES IN BIOLOGICAL CIRCADIAN PERIODICITY

by G. T. Hauty (Oklahoma City, Okla.)
Reprinted from Aerospace Med., Vol. 34, No. 2,
100-105, Feb. 1963 6 p.

Adaptation (physiology) Adjustment (psychology)
Closed cycle ecological systems Man
Space medicine Time

MED 435

FAA, Civil Aeromedical Research Institute

SOME EFFECTS OF CHLORINATED INSECTICIDES ON
VERTEBRATE CARBOHYDRATE METABOLISM

by D. E. Lacey, J. W. Daugherty, P. Korty
(Oklahoma City, Okla.)
Preprints of Scientific Program, Annual Scientific
Meeting, Aerospace Med. Assoc., p. 84, 1963 1 p.

Insecticides Medical research Metabolism
Toxicity

MED 436

FAA, Civil Aeromedical Research Institute

STRUCTURAL AND MEDICAL ANALYSIS OF A CIVIL
AIRCRAFT ACCIDENT

by A. H. Hasbrook and J. R. Dille (Oklahoma
City, Okla.)
Presented at 35th Annual Meeting, Aerospace Med.
Assoc., Bar Harbour, Fla., May 12, 1964
Published in Aerospace Med., Vol. 35, 958-961,
Oct. 1964 4 p.

Aviation accidents Aviation injuries
Medical research Safety harness

MED 437

FAA, Civil Aeromedical Research Institute

STUDIES OF AIR LOADS ON MAN

by J. J. Swearingen and E. B. McFadden (Oklahoma
City, Okla.)
Reprinted from Human Factors, May 1960 8 p.

Drag Explosive decompression Gusts Man
Posture

MED 438

FAA, Civil Aeromedical Research Institute

TASK-CONTROL OF ARONSAL AND THE EFFECTS OF REPEATED UNIDIRECTIONAL ANGULAR ACCELERATION ON HUMAN VESTIBULAR RESPONSES
by W. E. Collins (Oklahoma City, Okla.)
Printed as Acta Oto-Laryngologica Supplementum 190, Uppsala 1964 34 p.

Acceleration Attention Ear Eye
Motion sickness

MED 439

FAA, Civil Aeromedical Research Institute

TOXICITY OF THE ORGANOPHOSPHATES
by W. B. Stavinoha (Oklahoma City, Okla.)
Presented on Nov. 20, 1963 to appear in Proc. Intl. Short Course on Occupl. Health Aspects of Pesticides, Norman University of Okla., Okla. Center for Continuing Ed. 8 p.

Chemical compounds Health physics Insecticides
Poisoning Toxicity

MED 440

FAA, Civil Aeromedical Research Institute

THE USE OF SIMULATORS FOR BIOMEDICAL RESEARCH
by R. G. Pearson (Oklahoma City, Okla.)
Presented at CART's 18th Annual Meeting, June 18-20, 1962, San Diego
Reprinted from Navigation, Vol. 9, No. 4, Winter, 329-333, 1963 5 p.

Fatigue (physiology) Medical research
Performance tests Pilots Simulation
Stress (psychology)

MED 441

FAA, Civil Aeromedical Research Institute

THE VISUAL PERCEPTION OF SIZE AND DISTANCE
by W. C. Gogel (Oklahoma City, Okla.)
Presented at Symposium on Visual Space Perception, Washington, D. C., 27 and 28 March 1961, Version of which was reprinted from Vision Res., Vol. 3, 101-120, 1963 20 p.

Psychometrics Space perception Vision
Visual acuity

MED 442

FAA, Civil Aeromedical Research Institute

VISUAL PERCEPTION OF SPATIAL EXTENT
by W. C. Gogel (Oklahoma City, Okla.)
Reprinted from J. Optical Soc. Am., Vol. 54, No. 3, 411-416, March 1964 6 p.

Measurement Space perception Vision
Visual acuity

MED 443

FAA, Civil Aeromedical Research Institute

WILEY POST'S AEROSPACE ACHIEVEMENTS
by S. R. Mohler (Oklahoma City, Okla.)
Prepared for unveiling ceremony of statue, Oklahoma City, Sept. 26, 1963
Published in Airpower Historian, Vol. 11, No. 3, 66-70, July 1964 5 p.

Aeronautics Awards History

MED 444

FAA, Civil Aeromedical Research Institute

WORK CAPACITY AND ITS LIMITING FACTORS AT HIGH ALTITUDE
by B. Balke (Oklahoma City, Okla.)
Reprinted from Symposium on Physiological Effects of High Altitude, Interlaken, Sept. 1962, New York: Pergamon Press, 1963 15 p.

Acclimatization Fatigue (physiology)
High altitude Tolerances (physiology)

MED 445

FAA, Civil Aeromedical Research Institute

WORK TOLERANCE: AGE AND ALTITUDE
by D. B. Dill, S. Robinson, B. Balke (Oklahoma City, Okla.)
Reprinted from J. Appl. Physiol., Vol. 19, No. 3, May 1964 6 p.
Contract # FA-2049 (also supported by Natl. Heart Inst. funds)

Aging (physiology) Fatigue (physiology)
High altitude Physical fitness Respiration
Tolerances (physiology)

MED 446

FAA, Georgetown Clinical Research Institute

AGE, RESPONSE SPEED, AND CARDIOVASCULAR FUNCTIONS
by J. E. Birren and W. Spieth
Reprinted from J. Gerontology, Vol. 17, No. 4, 390-391, Oct. 1962 2 p.

Aging (physiology) Cardiovascular system
Psychometrics Motor reactions

MED 447

FAA, Georgetown Clinical Research Institute

CARDIOPULMONARY CONSEQUENCES OF PYROGEN-INDUCED HYPERPYREXIA IN MAN
by K. M. Moser, R. B. Perry, P. C. Luchsinger
Reprinted from J. Clinical Investigation, Vol. 42, No. 5, 1963, 626-634 9 p.

Body temperature Lungs Physiology
Respiration

MED 448

FAA, Georgetown Clinical Research Institute

CARDIOVASCULAR HEALTH STATUS, AGE, AND PSYCHOLOGICAL PERFORMANCE

by W. Spieth

Reprinted from J. Gerontology, Vol. 19, No. 3, July 1964, 277-284 8 p.

Aging (physiology) Aviation personnel
Cardiovascular system Physical fitness
Psychometrics

MED 449

FAA, Georgetown Clinical Research Institute

CHRONIC THROMBOTIC OBSTRUCTION OF MAJOR PULMONARY ARTERIES: REPORT OF A CASE SUCCESSFULLY TREATED BY THROMBENDARTERECTOMY, AND A REVIEW OF THE LITERATURE
by V. N. Houk, C. A. Hufnagel, K. M. Moser
Reprinted from Am. J. Med., Vol. 35, No. 2, Aug. 1963, 269-282 14 p.

Arteries Lung Surgeons Thrombosis

MED 450

FAA, Georgetown Clinical Research Institute

CRANIAL IMPEDANCE PLETHYSMOGRAPHY--RHEOENCEPHALOGRAPHY AS A METHOD OF DETECTION OF CEREBROVASCULAR DISEASE

by J. H. Seipel, S. A. Ziemnowics, D. S. O'Doherty
To appear in Cerebral Ischemia, E. Simonson, ed.
Springfield: C. C. Thomas, 1964
Manuscript dated 1962 21 p.

Brain Blood vessels Diagnosis Diseases

MED 451

FAA, Georgetown Clinical Research Institute

CURRENT STATUS OF CLOT DISSOLUTION THERAPY

by K. M. Moser

Reprinted from GE, XXVI, No. 5, Nov. 1962, 95-102 8 p.

Blood chemistry Blood coagulation
Enzymes Plasmin

MED 452

FAA, Georgetown Clinical Research Institute

DEVELOPMENT OF ASSAYS FOR COMPONENTS OF FIBRINOLYTIC MECHANISM--I. CASEINOLYTIC AND FIBRINOLYTIC ASSAYS FOR PLASMIN IN "FIBRINOLYTIC" AGENTS
by K. M. Moser and M. B. Frey. 1964 22 p.

Blood chemistry Blood coagulation Plasmin

MED 453

FAA, Georgetown Clinical Research Institute

EFFECT OF GLYCERYL TRINITRATE ON PULMONARY VASCULATURE OF ANESTHETIZED DOGS

by A. L. Pinkerson, P. A. Kot, D. M. Knowlan
Reprinted from Proc. Soc. Experimental Biology and Medicine, Vol. 113, 18-20, 1963 3 p.

Blood circulation Drugs Lungs Pressure

MED 454

FAA, Georgetown Clinical Research Institute

EPILEPSY AND SYNCOPE

by A. E. Wentz

Manuscript, n.d. 23 p.

Diagnosis Epilepsy Etiology Respiration
Syncope

MED 455

FAA, Georgetown Clinical Research Institute

GEORGETOWN CLINICAL RESEARCH INSTITUTE, WHAT IS IT?
n.d. 13 p.

Costs Medical facilities Medical research
Universities

MED 456

FAA, Georgetown Clinical Research Institute

HEPARIN FIBRINOLYTIC SYNERGESIA

by K. M. Moser

Presented at Am. Fed. Clinical Research, New Orleans, Jan. 1962 6 p.

Diagnosis Fibrin Heparin Medical research

MED 457

FAA, Georgetown Clinical Research Institute

HIGHLIGHTS OF NEUROLOGY IN THE FEDERAL AVIATION AGENCY

by A. E. Wentz. April 1962 3 p.

Aging (physiology) Aviation personnel
Diagnosis Diseases Physical fitness

MED 458

FAA, Georgetown Clinical Research Institute

LATENCY OF PUPILLARY REFLEX TO LIGHT STIMULATION AND ITS RELATIONSHIP TO AGING

by R. Feinberg and E. Podolak
Manuscript, Dec. 1963 12 p.

Aging (physiology) Eye Light Reflexes
Stimulation Vision

MED 459

FAA, Georgetown Clinical Research Institute

MYOCARDIAL METABOLISM AND HIGH ENERGY PHOSPHATE
COMPOUNDS IN ACUTELY UREMIC DOGS

by D. M. Knowlan
Text of slide lecture, n.d. 5 p.

Blood disorders Heart Metabolism Phosphates

MED 460

FAA, Georgetown Clinical Research Institute

NEUROLOGICAL ABNORMALITIES IN A POPULATION
REQUIRING AVIATION MEDICAL CERTIFICATION

by J. H. Seipel
Presented at 35th Annual Scientific Meeting,
Aerospace Med. Assoc., Florida, May 1964 7 p.

Aging (physiology) Electroencephalography
Medical examination Neurology Physical fitness

MED 461

FAA, Georgetown Clinical Research Institute

ON THE ELIMINATION OF PULSE WAVE VELOCITY IN
STROKE VOLUME DETERMINATION FROM THE ULTRALOW-
FREQUENCY DISPLACEMENT BALLISTOCARDIOGRAM

by A. G. W. van Brummelen, W. R. Scarborough,
W. K. T. Josenhans
Reprinted from Am. Heart J., Vol. 67, No. 3,
374-378, March 1964 5 p.

Ballistocardiography Cardiovascular system
Heart Physiology

MED 462

FAA, Georgetown Clinical Research Institute

PROJECT PRESENTATION

Feb. 1963 171 p.

Aging (physiology) Brain Cardiovascular system
Pilots Spinal cord Visual acuity

MED 463 361

FAA, Georgetown Clinical Research Institute

PUPILLARY MOVEMENTS DURING ACUTE AND CHRONIC FATIGUE

by O. Lowenstein, R. Feinberg, I. E. Lowenstein
Reprinted from Investigative Ophthalmology, Vol. 2,
No. 2, 138-157, April 1963 18 p.

Eye Fatigue (physiology) Motion Ophthalmology

MED 464

FAA, Georgetown Clinical Research Institute

"RESPIRATOR-DEPENDENCE" IN PATIENTS RECOVERING FROM
SEDATIVE OVERDOSAGE

by K. M. Moser and P. G. Gregg
Presented in Chicago; abstract, n.d. 2 p.

Artificial respiration Oxygen Poisoning
Respirators

MED 465

FAA, Georgetown Clinical Research Institute

SLOWNESS OF TASK PERFORMANCE IN CARDIOVASCULAR
DISEASES

by W. Spieth
Presented at Conf. on Biological Bases of Age
Changes in Speed and Behavior at St. John's College,
Cambridge U 1963, and at 6th Intl. Cong. of
Gerontology, Copenhagen 1963
Published as Chapt. 20 of Welford and Birren's
Behavior Aging and the Nervous System, Springfield:
C. C. Thomas, 1964

Aging (physiology) Cardiovascular system
Disease Hypertension Psychomotor tests

MED 466

FAA, Georgetown Clinical Research Institute

SOURCES OF ERROR IN PO₂ DETERMINATION

by P. G. Rhodes and K. M. Moser
Presented at Fed. Am. Societies for Exp. Biol.,
Chicago, April 1964 5 p.

Arteries Diagnosis Hematology Oxygen

MED 467

FAA, Georgetown Clinical Research Institute

STUDIES OF THE INSTANTANEOUS ASCENDING AORTIC BLOOD
VELOCITY IN INTACT MAN RELATIVE TO THE ACCELERATION
BALLISTOCARDIOGRAM

by W. R. Scarborough, S. M. Fox, III, J. R. Warbasse
Presented at Ballistocardiograph Research Society,
Atlantic City, April 29, 1961
Reprinted from abstract published in Am. J. Cardiol.,
Vol. 8, 302, 1961 1 p.

Ballistocardiography Blood circulation
Heart Velocity

MED 468

FAA, Georgetown Clinical Research Institute

STUDIES ON AVIATION PERSONNEL AGING

by A. E. Wentz
Presented at dedication of CARI, Oklahoma City,
Oct. 20, 1962 16 p.

Aging (physiology) Aviation personnel
Medical examination Physical fitness

MED 469

FAA, Georgetown Clinical Research Institute

THERAPY WITH THROMBOLYTIC AGENTS

by K. M. Moser

Reprinted from "Thrombolytic Activity and Related Phenomena", Thrombosis et Diathesis Haemorrhagica, Supplement I ad Vol. VI. Spring 1964 11 p.

Diagnosis Diseases Embolism Fibrin
Plasmin Thrombosis

MED 470

FAA, Georgetown Clinical Research Institute

UNSUSPECTED NEUROLOGIC DISEASE IN AVIATION PERSONNEL

A. SURVIVAL FOLLOWING SEIZURES IN FLIGHT--I

by J. H. Seipel and A. E. Wentz

Reprinted from Aerospace Med., Vol. 34, No. 6, 552-555, June 1963 4 p.

Aviation personnel Convulsive disorders
Diagnosis Disease Neurology

MED 471

FAA, Georgetown Clinical Research Institute

UNSUSPECTED NEUROLOGIC DISEASE IN AVIATION PERSONNEL

A. SURVIVAL FOLLOWING SEIZURES IN FLIGHT--II

by J. H. Seipel and A. E. Wentz

Reprinted from Aerospace Med., Vol. 34, No. 8, 758-760, Aug. 1963 3 p.

Aviation personnel Convulsive disorders
Diagnosis Disease Neurology

MED 472

FAA, Georgetown Clinical Research Institute

THE VALUE OF RADIOELECTROCARDIOGRAPHY DURING THE

DOUBLE MASTER 2-STEP TEST COMPARED WITH THE

STANDARD POST-EXERCISE ELECTROCARDIOGRAM

by D. M. Knowlan, R. A. Weinmann, I. H. Ardam

Abstract, n.d. 1 p.

Arrhythmia Diagnosis Electrocardiography
Exercise Medical examination

MED 473



CONTRACT REPORTS

Aircraft Armaments, Inc.

CONTINUATION ANALYSIS OF THE DIRECT BODY
BALLISTOCARDIOGRAPH, REPORT NO. ER-185A
by J. Berer. Jan. 1953 2 p.
Contract # Cca-29808
ER-185A

Ballistocardiography Biophysics
Medical research Transducers

MED 474

Aircraft Armaments, Inc.

SUMMARY REPORT ON THE BIOPHYSICAL ANALYSIS OF THE
CAA BALLISTOCARDIOGRAPH, REPORT NO. ER-185B
by J. Berer. May 1953 8 p.
Contract # Cca-29808
ER-185B

Ballistocardiography Biophysics
Medical research Transducers

MED 475

Armour Research Foundation of Illinois Institute of
Technology

OZONE IN JET AIRCRAFT, FINAL REPORT
by R. I. Brabets. May 1962 20 p.
Contract # FA-2688, Dec. 19, 1961 through Apr.
30, 1962
Report # ARF 3211-1

Fatigue (physiology) Jet planes Ozone
Physiology Pilots

MED 476 346

Bendix Corporation

FINAL REPORT ON THE INVESTIGATION OF MASK LEAKAGE
IN PASSENGER OXYGEN MASKS
by B. J. Sollami. Feb. 1962 142 p.
Contract # FA-885

Aviation safety Hypoxia Oxygen masks
Passengers Respiration

MED 477 354

Eye Research Foundation of Bethesda

RETINAL EFFICIENCY OF FAA PILOTS AT NAFEC, FINAL
REPORT AND ANALYSIS OF DATA
by R. D. Peckham and W. M. Hart. July 1960 16 p.
Contract # FA-389

Aging (physiology) Measurement Pilots
Vision Visual acuity

MED 478

Flight Safety Foundation, Inc.

FSF, CAA MEDICAL STUDY, A STUDY OF PHYSICAL
QUALIFICATIONS FOR AIR TRAFFIC CONTROL PERSONNEL,
A PRELIMINARY REPORT
by M. A. Kraft. April 1957 18 p.
(Draft, for discussion purposes only)
Contract # CAA 31853

Air traffic controllers Job analysis
Physical fitness Standards

MED 479

Flight Safety Foundation, Inc.

FSF/CAA MEDICAL STUDY, AN APPROACH TO PHYSICAL
QUALIFICATIONS FOR AIR TRAFFIC CONTROL PERSONNEL,
A PRELIMINARY SUMMARY REPORT
by M. A. Kraft. July 1957 16 p.
Contract # CAA-31853

Air traffic controllers Job analysis
Management engineering Physical fitness
Standards

MED 480

Flight Safety Foundation, Inc.

FSF/CAA MEDICAL STUDY, REPORT NO. 1--PHYSICAL
QUALIFICATIONS OF AIR TRAFFIC CONTROL PERSONNEL
by M. A. Kraft. Feb. 1958 139 p.
Contract # Cca-31853

Air traffic controllers Aviation safety
Medical examination Physical fitness
Standards

MED 481 356

Flight Safety Foundation, Inc.

FSF/CAA MEDICAL STUDY, REPORT NO. 2--MEDICAL ASPECTS OF CIVIL AVIATION
by M. A. Kraft. Mar. 1958 119 p.
Contract # Cca-31853

Aviation personnel Aviation safety
Civil aviation Medical examination
Physical fitness Standards

MED 482 358

Flight Safety Foundation, Inc.

FSF/CAA MEDICAL STUDY, REPORT NO. 2--SUPPLEMENT--
FEDERAL REGULATION OF PHYSICAL QUALIFICATIONS IN
MOTOR CARRIERS, MERCHANT MARINE, AND RAILROADS
by F. H. Mueller and H. R. Hosea. Mar. 1958 95 p.
Contract # Cca-31853

Medical examination Personnel
Physical fitness Standards

MED 483 348

Flight Safety Foundation, Inc.

FSF/FAA AIR TRAFFIC CONTROL STUDY--EFFECTS OF
ACTIVITY AND ENVIRONMENT ON AIR TRAFFIC CONTROL
PERSONNEL, INTERIM REPORT
by M. A. Kraft. Feb. 1959 52 p.
Contract # Cca-33802

Air traffic controllers Attitudes
Job analysis Management engineering

MED 484 350

Flight Safety Foundation, Inc.

FSF/FAA AIR TRAFFIC CONTROL PERSONNEL STUDY--
EFFECTS OF ACTIVITY AND ENVIRONMENT, FINAL REPORT
by M. A. Kraft. July 1959 172 p.
Contract # Cca-33802

Air traffic controllers Air traffic control system
Job analysis Management engineering Noise

MED 485 345

Georgetown University

ANNUAL REPORT ON ANALYSIS OF PULSE WAVE CONTOURS
AND PHONOCARDIOGRAMS BY DIGITAL COMPUTER, JULY 1,
1962-SEPTEMBER 30, 1963
Submitted by Dr. Hubert Pipberger in partial
fulfillment of Contract # FA-821 4 p.

Aging (physiology) Atherosclerosis Diagnosis
Digital computers Transducers

MED 486

Georgetown University

ASSESSMENT OF PULMONARY FUNCTION BY ANALOG COMPUTER
TECHNICS AND CONVENTIONAL METHODS
by P. C. Luchsinger. Apr. 1962 9 p.
Contract # FA-890, Sept. 1960-Dec. 1961

Analog computers Exercise Lungs
Physiology Respiration

MED 487

Georgetown University

IMPROVED TRANSDUCER FOR EXTERNAL RECORDING OF
ARTERIAL PULSE WAVES
by M. Davis, B. Gilmore, E. Freis
Published in IEEE Transact. Bio-Med. Electronics,
BME 10 173-5, in partial fulfillment of Contract
FA-821 (H. Pipberger) Oct. 1963 3 p.

Arteries Atherosclerosis Blood pressure
Diagnosis Transducers

MED 488

Georgetown University

THE RECOGNITION OF STRICTLY POSTERIOR (INFRA-ATRIAL)
MYOCARDIAL INFARCTION BY CONVENTIONAL SCALAR
ELECTROCARDIOGRAPHY
by J. K. Perloff and A. C. De Leon. n.d. 9 p.
Contract # FA-2050

Diagnosis Disease Electrocardiography Heart

MED 489

Johns Hopkins University

DIAGNOSTIC CRITERIA FOR SUB-CLINICAL CORONARY ARTERY
DISEASES, FINAL REPORT
by S. A. Talbot. n.d. 21 p.
Contract # FA-2359, July 1, 1961-June 30, 1962

Arteries Ballistocardiography Diagnosis
Disease Heart

MED 490

Johns Hopkins University

METHODS AND PRACTICES IN APPLIED BALLISTOCARDIOGRAPHY
by S. A. Talbot. n.d. 3 p.
Contract # FA-503, Jan. 4, 1960-Nov. 30, 1960

Ballistocardiography Diagnosis Disease
Heart

MED 491

Lankenau Hospital

URINARY ELIMINATION OF CATECHOLAMINES AS AN INDICATION OF STRESS RESPONSE IN MAN, FINAL REPORT by K. Rodahl. 1962 30 p.
Contract # FA-2678 (96-2-844B1), Dec. 1, 1961-Nov. 30, 1962

Biochemistry Chemical analysis
Fatigue (physiology) Stress (physiology)
Urine

MED 492

Lockheed-California Company

RESEARCH STUDIES ON INVESTIGATION OF THE EFFECTS OF SLOW AND RAPID DECOMPRESSION UPON HUMANS AT 45,000 FEET
by C. I. Barron. May 1963 88 p.
Contract # FA-3082

Decompression Decompression sickness
Hypoxia Motor reactions Pilots Syncope

MED 493

Lovelace Foundation for Medical Education and Research

RESEARCH PLANNING STUDY OF AGING CRITERIA, FINAL REPORT
Contract # FA-904, July 1961 70 p.

Aging (physiology) Bibliography Biochemistry
Genetics Pathology Psychology

MED 494

Ohio State University Research Foundation

THE MEDICAL ASPECTS OF BUSINESS AVIATION, FINAL REPORT
by C. E. Billings, W. F. Ashe, Ohio State University
Contract # FA-2192, 1962 44 p.

Aviation personnel General aviation aircraft
Physical fitness Standards Training

MED 495

Operations Research Incorporated

ALERTNESS AND ATTENTION IN PILOTING AIRCRAFT-- PROPOSAL FAA-2 (BUAM)
April 1960 36 p.

Attention Operations research Pilots
Psychomotor tests

MED 496 396

Psychological Research Associates

AN ANALYSIS OF THE OXYGEN PROTECTION PROBLEM AT FLIGHT ALTITUDES BETWEEN 40,000 AND 50,000 FEET by W. V. Blockley, D. T. Hanifan, Webb Associates Feb. 1961 174 p.
Final report on Contract # FA-955, "Management and Coordination of Research and Testing Related to Oxygen Protection in the Altitude Range of 40,000 to 50,000 Feet"

Aviation personnel Aviation safety Decompression
Hypoxia Oxygen masks Psychomotor tests

MED 497 362

Psychological Research Associates

PROCEEDINGS OF THE WORKING CONFERENCE TO ESTABLISH A STANDARD EVALUATION PROCEDURE FOR CIVIL TRANSPORT OXYGEN SYSTEMS FOR USE BETWEEN 40,000 AND 50,000 FEET by W. V. Blockley and Webb Associates. 1960 85 p.
Conducted by Webb Associates and administered by Psychological Research Associates, a division of the Matrix Corporation
Contract # FA-955

Aviation personnel Aviation safety
Oxygen equipment Passengers Pressure breathing
Transport planes

MED 498

Ritchie, Inc.

AN EXPERIMENTAL ANALYSIS OF TRANSFER EFFECT BETWEEN CONTACT AND INSTRUMENT FLIGHT TRAINING by M. L. Ritchie and Lewis F. Hanes. June 1964 30 p.
Contract # FA-WA-4691

Instrument flight Pilots Training
Transfer of training

MED 499

University of California Medical Center

INVESTIGATION OF THE ETIOLOGY OF IN-FLIGHT FATIGUE FACTORS DEVELOPING IN JET AIRCRAFT ENGINEERS by B. V. Leamer. July 1960 9 p.

Altitudes Aviation personnel
Fatigue (physiology) Etiology
Physical fitness

MED 500

University of Minnesota

THE EFFECTS OF REPEATED AND PROLONGED EXPOSURE TO
HIGH CONCENTRATIONS OF OZONE ON THE VISION OF
AIRLINE PILOTS
by J. M. Lagerwerff and G. L. Kane. May 1961 76 p.
Contract # FA-824
Research Report # 180

Medical research Ozone Pilots Vision
Visual acuity

MED 501 407

University of Oklahoma

FATIGUE AND AGING AS EXPRESSED IN THE CIRCULATORY
SYSTEM, FINAL REPORT
by G. Sevelius. June 1962 26 p.
Contract # FA-1765

Aging (physiology) Cardiovascular system
Fatigue (physiology)

MED 502

University of Utrecht

THE USE OF AN ANALOG COMPUTER IN A CIRCULATION MODEL
by A. Noordergraaf, P. D. Verdouw, H. B. K. Boom
Reprinted from Medical Electronics in Cardiovascular
Disease, C. K. Friedberg, ed. Grune and Stratton,
Inc., 1963, 84-104. Also published in Progress in
Cardiovascular Diseases, Vol. 5, No. 419, 1963 21 p.
Contract # FA-2021

Analog computers Blood circulation Design
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MED 503

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