

# AVIATION MEDICAL PAPERS AND REPORTS

## A BIBLIOGRAPHY

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**FEDERAL AVIATION AGENCY**  
Office of Aviation Medicine  
Washington, D.C.

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## TABLE OF CONTENTS

Preface	I
Aviation Medical Papers and Reports:	
Bureau of Air Commerce, Medical Service	1
CAA, Division of Research	1
CAA, Medical Service	12
CAA, Civil Aeronautics Medical Research Laboratory	25
FAA, Office of the Civil Air Surgeon	28
FAA, Bureau of Aviation Medicine	29
FAA, Aviation Medical Service	30
FAA, Office of Aviation Medicine	32
FAA, Civil Aeromedical Research Institute	34
FAA, Georgetown Clinical Research Institute	44
Contract Reports	49
Subject Index	53
Title Index	73
Personal Author Index	85



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  
Air Commerce, Department of Commerce, reprinted by  
the CAA (1940)

Aviation medicine Fatigue (physiology)  
Medical examination Medical research Pilots

MED 2

Bureau of Air Commerce, Medical Service

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  
by R. Franzen and D. R. Brimhall. 1942 20 p.  
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  
DISQUALIFYING DEFECT BY CIVIL PILOT TRAINING  
EXAMINATION  
by R. Franzen and D. R. Brimhall. 1942 18 p.  
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

CAA, Division of Research

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

CAA, Division of Research

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)

MED 17 463

CAA, Division of Research

A METHOD FOR SELECTING COMBINATIONS OF TESTS AND  
DETERMINING THEIR BEST "CUT-OFF POINTS" TO YIELD  
A DICHOTOMY MOST LIKE A CATEGORICAL CRITERION  
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Research Report #12

Aptitude tests Mathematical analysis  
Psychometrics

MED 18 464

CAA, Division of Research

ELECTROENCEPHALOGRAPHY OF NAVAL AVIATORS  
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Research Report #13

Electroencephalography Epilepsy Nervous system  
Pilots

MED 19 465

CAA, Division of Research

SENSITIVITY OF PERIPHERAL VISION IN RELATION TO  
SKILL IN LANDING AN AIRPLANE  
by M. A. Tinker and W. S. Carlson. 1943 17 p.  
Research Report #14

Airplane landings Pilots Reaction (psychology)  
Reflexes Vision

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

THE PSYCHOLOGY OF LEARNING IN RELATION TO FLIGHT INSTRUCTION

by National Research Council, Committee on Selection and Training of Aircraft Pilots. 1943 41 p.  
Research Report #16

Learning Pilots Psychology Training

MED 22 468

CAA, Division of Research

A FACTOR ANALYSIS OF SOME CARDIOVASCULAR-RESPIRATORY VARIABLES WITH PARTICULAR REFERENCE TO THE SCHNEIDER AND THE McCURDY-LARSON TESTS by L. A. Larson. 1943 23 p.  
Research Report #17

Blood pressure Cardiovascular system  
Factor analysis Respiratory system

MED 23 469

CAA, Division of Research

THE DEVELOPMENT OF "A SCALE FOR RATING PILOT COMPETENCY"

by E. L. Kelly, R. J. Wherry, R. C. Rogers. 1943 23 p.  
Research Report #18

Aptitude tests Factor analysis Performance tests  
Pilots

MED 24 470

CAA, Division of Research

REPORT ON CAA-NATIONAL TESTING SERVICE (PHASE II AUG. 3-SEP. 15, 1942 PHASE III SEP. 16-NOV. 15, 1942 PHASE IV NOV. 16, 1942-JAN. 31, 1943) by National Research Council, Committee on Selection and Training of Aircraft Pilots. 1943 26 p.  
Research Report #19

Aptitude tests Pilots Selection  
Statistical analysis

MED 25 471

CAA, Division of Research

A COURSE IN TRAINING METHODS FOR PILOT INSTRUCTORS by M. S. Viteles, R. Y. Walker, R. S. Rodgers, E. S. Ewart, H. S. Odbert, A. S. Thompson. 1943 179 p.  
Research Report #20

Instructors Learning Pilots Psychology  
Training

MED 26 472

CAA, Division of Research

ANALYSIS OF RATINGS IN THE PRELIMINARY PHASE OF THE CAA TRAINING PROGRAM

by H. M. Johnson and M. L. Boots. 1943 23 p.  
Research Report #21

Instructors Pilots Standards  
Statistical analysis Training

MED 27 473

CAA, Division of Research

THE FLIGHT INSTRUCTOR'S VOCABULARY by E. L. Kelly. 1943 57 p.  
Research Report #22

Instructors Pilots Training devices  
Vocabulary

MED 28 474

CAA, Division of Research

AN ANALYSIS OF GRAPHIC RECORDS OF PILOT PERFORMANCE OBTAINED BY MEANS OF THE R-S RIDE RECORDER PART I by M. S. Viteles, O. Backstrom, Jr., A. S. Thompson, 1943 214 p.  
Research Report #23

Flight paths Performance tests Recording devices  
Ride recorder

MED 29 475

CAA, Division of Research

A MICRO-RECORDER FOR MEASURING SKIN TEMPERATURE AND SWEATING IN AIRPLANE PILOTS

by W. R. Miles. 1943 43 p.  
Research Report #24

Perspiration Recording devices Skin Temperature

MED 30 476

CAA, Division of Research

EVALUATION OF RESPIRATORY MEASURES FOR USE IN PILOT SELECTION

by R. Franzen and L. Blaine. 1944 45 p.  
Research Report #25

Oxygen consumption Pilots Respiration Selection

MED 31 477

CAA, Division of Research

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

by D. R. Brimhall and R. Franzen. 1944 80 p.  
Research Report #26

Physical fitness Pilots Selection Standards  
Statistical analysis

MED 32 478

CAA, Division of Research

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.  
1944 93 p.  
Research Report #27

Aptitude tests Physiology Pilots Psychology

MED 33 479

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A STUDY OF THE SLEEP MOTILITY OF STUDENT PILOTS  
by F. A. Geldard. 1944 15 p.  
Research Report #28

Motion Pilots Selection Sleep

MED 34 480

CAA, Division of Research

THE EFFECT OF DISTRACTION LIGHTS UPON PERFORMANCE ON THE MASHBURN SERIAL COORDINATION TEST  
by R. D. Nance, C. E. Buxton, K. W. Spence.  
1944 33 p.  
Research Report #29

Flight simulators Motor reactions  
Psychomotor tests

MED 35 481

CAA, Division of Research

REPORT OF CAA-NATIONAL TESTING SERVICE PREVIOUS FLIGHT TRAINING PREFERENCES AS RELATED TO PILOT SCREENING TEST SCORES  
by National Research Council, Committee on Selection and Training of Aircraft Pilots. 1944 70 p  
Research Report #30

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.  
Research Report #31

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.  
1944 50 p.  
Research Report #32

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

CAA, Division of Research

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

CAA, Division of Research

THE CAA-NATIONAL TESTING SERVICE SUMMARY OF TEST  
RESULTS AND COMPARISONS WITH SUCCESS IN FLIGHT  
TRAINING  
by National Research Council, Committee on Selection  
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Research Report #39

Aptitude tests Factor analysis Pilots Selection

MED 45 491

CAA, Division of Research

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  
by R. Franzen and R. A. McFarland. 1945 45 p.  
Research Report #41

Naval aviation Physiology Pilots Psychology  
Statistical analysis

MED 47 493

CAA, Division of Research

ANALYSIS OF THE PERSONAL HISTORY INVENTORY  
by L. S. Kogan, M. J. Wantman, J. W. Dunlap.  
1945 34 p.  
Research Report #42

Aptitude tests Personality Pilots Selection  
Statistical analysis

MED 48 494

CAA, Division of Research

INVESTIGATIONS OF THE RELATIVE AMOUNT OF TIME SPENT  
ON THE GROUND AND IN THE AIR BY CIVILIAN PILOT  
TRAINING STUDENTS  
by National Research Council, Committee on Selection  
and Training of Aircraft Pilots. 1945 36 p.  
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

THE EFFECT OF MASSING AND DISTRIBUTION OF PRACTICE  
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

CAA, Division of Research

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

MED 54 500

CAA, Division of Research

"ABILITY-TO-TAKE-IT" TESTS EXAMINER DIFFERENCES AND VALIDATION

by H. S. Odbert, L. Festinger, S. Wapner. 1945 38 p. Research Report #49

Fatigue (physiology) Pain Performance tests Pilots Psychometrics Thresholds

MED 55 501

CAA, Division of Research

ANALYSIS OF THE DESIRE TO FLY (D-F) INVENTORY

by L. S. Kogan, M. J. Wantman, J. W. Dunlap. 1945 27 p. Research Report #50

Attitudes Personality tests Pilots Statistical analysis

MED 56 502

CAA, Division of Research

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. Research Report #51

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. 1945 23 p.

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, J. G. Jenkins. 1946 43 p.

Research Report #54

Motor reactions Physiology Pilots Psychology Stress (physiology)

MED 60 506

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by O. Backstrom, Jr. and M. S. Viteles. 1946 84 p. 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.

Research Report #56

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

CAA, Division of Research

AN ANALYSIS OF INSPECTORS' RATINGS OF CHECK FLIGHTS  
AS RECORDED ON FORM ACA 342Z  
by L. Festinger, L. S. Kogan, H. S. Odbert,  
S. Wapner. 1946 72 p.  
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  
131 p.  
Research Report #59

Flight instruments Performance tests  
Photographic analysis Pilots Students

MED 65 511

CAA, Division of Research

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

CAA, Division of Research

THE ROLE OF FATIGUE IN PILOT PERFORMANCE  
by National Research Council, Committee on Selection  
and Training of Aircraft Pilots. 1946 120 p.  
Research Report #61

Aviation accidents Fatigue (physiology)  
Hypoxia Motor reactions Noise Pilots

MED 67 513

CAA, Division of Research

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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Research Report #62

Cardiovascular system Medical examination  
Pilots Space perception Training Vision

MED 68 514

CAA, Division of Research

EVALUATION OF INSTRUCTIONAL TECHNIQUES DESCRIBED AS  
EFFECTIVE BY FLIGHT INSTRUCTORS  
by E. S. Ewart, A. S. Thompson, M. S. Viteles.  
1946 111 p.  
Research Report #63

Instructors Pilots Standards Training

MED 69 515

CAA, Division of Research

AN APPRAISAL OF CERTAIN TESTS OF PILOT APTITUDE  
by C. E. Buxton and K. W. Spence. 1946 124 p.  
Research Report #64

Aptitude tests Motivation Pilots  
Psychomotor tests Selection Statistical analysis

MED 70 516

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A PARTIAL ANALYSIS OF A THREE-MAN INTERVIEW  
TECHNIQUE FOR PREDICTING AIRPLANE PILOT SUCCESS  
IN THE CIVILIAN PILOT TRAINING PROGRAM  
by C. J. Hill, Jr., D. L. Russell, G. R. Wendt.  
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Research Report #65

Decision making Motion sickness Pilots  
Selection Statistical analysis

MED 71 517

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STUDIES IN MOTION SICKNESS SERIES C  
by G. R. Wendt, J. S. Helminck, S. J. Alexander,  
J. H. Taylor, C. J. Hill, Jr. 1946 63 p.  
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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

by R. Y. Walker, S. Wapner, D. Bakan, E. S. Ewart. 1946 62 p.  
Research Report #67

Instructors Performance tests Pilots  
Selection Statistical analysis

MED 73 519

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EFFECT OF TRAINING ON ACUITY OF PERIPHERAL VISION  
by F. N. Low. 1946 94 p.  
Research Report #68

Landings Pilots Training Vision Visual acuity

MED 74 520

CAA, Division of Research

THE EFFECTIVENESS OF DIRECTED ATTENTION TO INSTRUMENTS AS A TRAINING AID

by R. Y. Walker, S. Wapner, D. Bakan, E. S. Ewart. 1946 34 p.  
Research Report #69

Flight instruments Learning Pilots  
Statistical analysis Students Training devices

MED 75 521

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THE HISTORY AND DEVELOPMENT OF THE BIOGRAPHICAL INVENTORY

by National Research Council, Committee on Selection and Training of Aircraft Pilots. 1946 47 p.  
Research Report #70

History Personality Pilots Selection Students

MED 76 522

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A STUDY OF THE EFFECT OF TRAINING IN SLOW FLIGHT ON LANDING PERFORMANCE  
by D. Bakan, R. Y. Walker, S. Wapner. 1947 41 p.  
Research Report #71

Airplane landings Analysis of variance Pilots  
Stalling Training

MED 77 523

CAA, Division of Research

ANALYSIS OF CAA RECORDS ON AIRLINE TRANSPORT PILOTS  
by H. O. Present. 1947 40 p.  
Research Report #72

Aviation accidents Performance tests Pilots  
Transport planes

MED 78 525

CAA, Division of Research

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

by T. Gordon. 1947 127 p.  
Research Report #73

Aviation accidents Job analysis Physiology  
Pilots Transport planes

MED 79 526

CAA, Division of Research

A STUDY OF THE ACCURACY OF RECOGNITION OF THE INCIPENT STALL IN FAMILIAR AND UNFAMILIAR PLANES  
by P. J. Rulon. 1947 136 p.  
Research Report #74

Flight paths Pilots Stalling  
Vertical indicators Warning systems

MED 80 572

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AN INVESTIGATION OF THE LEARNING OF STALL PERCEPTION  
by F. C. Dockeray and D. Bakan. 1948 51 p.  
Research Report #75

Learning Pilots Sensory mechanisms Stalling  
Warning systems

MED 81 528

CAA, Division of Research

PSYCHOLOGICAL PROBLEMS IN COCKPIT INSTRUMENTATION FOR THE OMNI-DIRECTIONAL RANGE (ODR) AND DISTANCE MEASURING EQUIPMENT (DME)

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Cockpits Display systems  
Distance measuring equipment Human engineering  
Instrument panels

MED 82 529

CAA, Division of Research

A STUDY OF SERIOUS AND FATAL ACCIDENT RECORDS DURING  
1939 AND 1940

by R. Franzen and D. R. Brimhall. 1948 63 p.  
Research Report #77

Aviation accidents Pilots Records Stalling  
Statistical analysis

MED 83 530

CAA, Division of Research

AN INVESTIGATION OF THE RELATIONSHIP BETWEEN  
VISUAL ABILITY AND FLIGHT PERFORMANCE

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Research Report #78

Aptitude tests Pilots Standards Training  
Vision

MED 84 531

CAA, Division of Research

THE INCONSISTENCY OF PILOT PERFORMANCE IN  
APPROACHING THE STALL RELATIONSHIP TO FLIGHT  
CONDITIONS, EXPERIENCE, AND AGE

by P. J. Rulon. 1948 184 p.  
Research Report #79

Aging (physiology) Flight paths Performance tests  
Pilots Stalling

MED 85 532

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THE EFFECT OF TRAINING AND OF STRUCTURAL AIDS ON  
PERFORMANCE IN THREE TESTS OF SPACE ORIENTATION

by H. A. Witkin. 1948 85 p.  
Research Report #80

Performance tests Pilots Proprioception  
Space perception Training

MED 86 533

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AN INVESTIGATION OF PREDICTION OF SUCCESS IN NAVAL  
FLIGHT TRAINING (SQUANTUM AND WILLIAMS STUDIES)

by J. E. Finesinger, S. Cobb, E. D. Chapple,  
M. A. B. Brazier. 1948 313 p.  
Research Report #81

Factor analysis Naval aviation Physiology  
Pilots Training

MED 87 534

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APPENDICES TO "AN INVESTIGATION OF PREDICTION OF  
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Naval aviation Pilots Psychometrics  
Statistical analysis Training

MED 88 535

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PROFICIENCY OF AIR ROUTE TRAFFIC CONTROLLERS

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Air traffic controllers Fatigue (physiology)  
Job analysis

MED 89 536

CAA, Division of Research

EVALUATION OF AIRCRAFT INSTRUMENT DISPLAY FOR USE  
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Cockpits Display systems Pilots  
Radio equipment

MED 90 537

CAA, Division of Research

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AIRLINE TRANSPORT RATING BASED ON THE CRITICAL  
REQUIREMENTS OF THE AIRLINE PILOT'S JOB

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Commercial planes Job analysis Pilots  
Standards Transport planes

MED 91 538

CAA, Division of Research

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Utility planes

MED 92 539

CAA, Division of Research

AVIATION PSYCHOLOGY (TRANSLATION FROM THE JAPANESE)  
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MED 93 546

CAA, Division of Research

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Flight-check Performance tests Pilots  
Transport planes

MED 94 541

CAA, Division of Research

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CAA, Division of Research

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Warning systems

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MED 97 544

CAA, Division of Research

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Training devices

MED 98 545

CAA, Division of Research

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AIRLINE PILOTS  
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Training

MED 99 546

CAA, Division of Research

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Research Report #94

Aviation accidents Pilots Statistical analysis  
Training Vision

MED 100 547

CAA, Division of Research

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PRIVATE PILOT CERTIFICATION  
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Aviation safety Flight-check Job analysis  
Performance tests Pilots

MED 101 548

CAA, Division of Research

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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

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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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Anxiety Physical fitness Pilots Psychomotor tests Selection Students

MED 106

CAA, Division of Research

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Aptitude tests Motor reactions Performance tests Pilots Standards Training

MED 107

CAA, Division of Research

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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

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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

AN OBJECTIVE MEASURE OF BODILY STEADINESS IN THE SELECTION OF PILOTS, PROGRESS REPORT  
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Body Motor reactions Physical fitness Pilots  
Posture Test construction (psychology)

MED 113

CAA, Division of Research

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Attitudes Personality tests Pilots Psychometrics  
Selection

MED 114

CAA, Division of Research

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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

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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  
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Published in Public Health Reports 64 12 373-82,  
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

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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

AIRCRAFT EMERGENCY EVACUATION--CONVAIR 240  
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MED 124 327

CAA, Medical Service

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OPERATING EXPERIENCE AND INDUSTRIAL TRIALS  
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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

by B. G. King. Sept. 1952 25 p.

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MED 127 305

CAA, Medical Service

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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  
University Medical College, Crash Injury Research  
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  
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Aug. 29, 1949 4 p.

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

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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  
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Cockpits Human engineering visibility Vision

MED 134

CAA, Medical Service

ASYMPTOMATIC MYOCARDIAL INFARCTION  
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Diagnosis Diseases Electrocardiography Heart

MED 135 402

CAA, Medical Service

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JUNE 21, 1956  
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Cornell University, Aviation Crash Injury Research.  
Technical report issued under Contract # Nonr-401(21)  
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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  
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Aviation accidents Civil aviation Errors  
History Medical research Pilots

MED 137

CAA, Medical Service

(AVIATION ACCIDENTS) an address  
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Abnormal psychology Aviation accidents  
Medical examination Psychiatry

MED 138

CAA, Medical Service

AVIATION MEDICAL RESEARCH FOR AIRMAN SAFETY  
by B. G. King. April 1962 6 p.

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  
SUBJECT AND A HANDBOOK OF DATA  
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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

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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

Reprinted from Am. Heart J. Vol. 46, No. 5, Nov. 1953 12 p.

Ballistocardiography Disease Heart  
Measuring devices (electrical and electronic)

MED 153 409

CAA, Medical Service

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Aviation safety Hatches Specifications  
Transport planes

MED 154 384

CAA, Medical Service

CRASH INJURY AS RELATED TO THE CIVIL AERONAUTICS  
ADMINISTRATION  
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Presented at Crash Injury Conference, Committee on  
Aviation Medicine, National Research Council,  
Washington, D. C., June 1949 9 p.

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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Contract # United Air Lines 7100, Report No.  
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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  
Presented at Flight Safety Foundation International  
Air Safety Seminar, Florida, Dec. 1956 12 p.

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)  
T-15

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  
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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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Reprinted from Medical Annals of the District of  
Columbia, Vol. XIX, No. 9, Sept. 1950, 484-490 5 p.

Blood circulation Diagnosis Disease Heart

MED 162 415

CAA, Medical Service

DYNAMIC VISUAL FIELDS  
by B. G. King and P. J. Sutro  
Printed in Highway Research Board Bulletin 152,  
NAS/NRC, Pub. #487, "Driver Characteristics"  
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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  
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Hypoxia Performance tests Poisonous gases  
Toxic tolerances

MED 164 375

CAA, Medical Service

ELECTROCARDIOGRAPHIC CHANGES IN FULMINATING ANOXIA  
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Presented at Aero Medical Assoc. 17th Annual Meeting,  
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Reprinted from J. Aviation Med., Vol. 18, No. 1,  
Feb. 1947 15 p.

Electrocardiography Hypoxia Oxygen consumption  
Respiration

MED 165 374

CAA, Medical Service

ELECTROCARDIOGRAPHIC RESPONSE IN EXERCISE TOLERANCE  
TESTS  
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Presented at Aero Medical Assoc. 21st Annual Meeting,  
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Disease Electrocardiography Exercise Heart  
Tolerance (physiology)

MED 166 414

CAA, Medical Service

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EVACUATION OF PASSENGERS FROM AIRPLANES  
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Presented at Air Safety Seminar of Flight Safety  
Foundation, Ltd. Nov. 1952, Bermuda  
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Safety devices

MED 167 367

CAA, Medical Service

EMERGENCY ESCAPE PROCEDURES, A REPORT OF JOINT  
STUDIES WITH THE MILITARY AIR TRANSPORT SERVICE  
AND THE CIVIL AERONAUTICS ADMINISTRATION ON THE  
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  
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Abandonment Tests Time Transport planes

MED 169

CAA, Medical Service

EMERGENCY EVACUATION OF TRANSPORT AIRPLANES  
(APPENDIX D)  
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Abandonment Aviation accidents Hatches  
Transport planes

MED 170 393

CAA, Medical Service

EVALUATION OF THE CALIBRATED DISPLACEMENT, VELOCITY,  
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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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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)  
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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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11-15, 1957 14 p.

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  
Annual Meeting, I. A. S., New York, Jan. 28-31,  
Feb. 1, 1952  
Reprinted from Aeronautical Eng. Rev. 11 6  
June 1952 9 p.

Anthropometry Cockpits Design  
Human engineering Visibility Vision

MED 177 368

CAA, Medical Service

THE FUTURE IN AVIATION MEDICINE

by W. R. Stovall  
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  
Reprinted from J. Industrial Hygiene and Toxicology,  
Vol. 31, No. 6, Nov. 1949 11 p.

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 Occup. 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 PO<sub>2</sub> 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

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Altitudes Aviation personnel  
Fatigue (physiology) Etiology  
Physical fitness

MED 500

University of Minnesota

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Medical research Ozone Pilots Vision  
Visual acuity

MED 501 407

University of Oklahoma

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Contract # FA-1765

Aging (physiology) Cardiovascular system  
Fatigue (physiology)

MED 502

University of Utrecht

THE USE OF AN ANALOG COMPUTER IN A CIRCULATION MODEL  
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Contract # FA-2021

Analog computers Blood circulation Design  
Diagnosis Mathematical models

MED 503



## SUBJECT INDEX

Abandonment						Adaptation (physiology)					
123	124	125	126	127	128	353	364	372	382	383	398
132	133	147	157	160	167	424	435				
168	169	170	173	182	192						
201	206	210	250	266	330						
356	399					Adhesion					
						251	252				
Abnormal psychology						Adjustment (psychology)					
138						297	424	435			
Abstracts						Aerial rudders					
1	371					41					
Acceleration						Aerodynamic forces					
41	439					222					
Acceleration tolerance						Aeronautics					
156	217	259	345	364	366	406	444				
382	383	384	398	399	420						
421	422	423				Afterimages					
						339					
Accidents						Aging (physiology)					
150						66	85	121	146	148	203
Acclimatization						350	387	402	405	407	414
445						415	416	446	447	449	458
Acoustic insulation						459	461	463	466	469	478
324						486	494	502			
Acoustics						Agriculture					
324						188					
Acuity						Ailerons					
358						41					

Air burst										Airports					
240	378									308	316	320			
Air carriers										Airspeed					
121	193	233	234	291	292					41					
302															
Air traffic control system										Altimeters					
485										96					
Air traffic controllers										Altitudes					
89	97	300	347	349	350					500					
400	418	427	428	479	480										
481	484	485								Amphetamines					
Air transportation										46					
205	281									Analog computers					
Aircraft										487	503				
143	144	219	268							Analysis of variance					
Aircraft cabins										77					
317	324									Anthropology					
Aircraft equipment										406					
260										Anthropometry					
Aircraft fires										144	155	158	177	187	219
125	128	205	356	396						220	251	253	254	255	256
Aircraft seats										260	266	271	348	360	361
136	348	354								366	368	406	422		
Airplane landings										Antibiotics					
20	77									198					
Airplane noise										Antihistaminics					
324	333	338								198					
										Antimotion sickness agents					
										198					

Anxiety

106 394

Approach lights

344

Aptitude tests

13 15 18 24 25 33  
36 40 45 48 52 70  
84 105 107 116 347 349  
400 433

Arrhythmia

473

Arteries

131 391 450 467 488 490

Artificial respiration

465

Atherosclerosis

486 488

Atmospheric pollution

180 243 305

Atmospheric pressure

290

Atmospheric temperature

243 392

Attention

403 439 496

Attitude indicators

61

Attitudes

56 114 298 319 484

Audiometry

386 388

Auditory nerve

376

Autonomic nervous system

72 374

Aviation accidents

9 52 67 78 79 83  
100 120 121 123 125 126  
136 137 138 147 151 155  
160 168 170 173 174 181  
184 194 201 206 210 211  
217 224 250 267 269 284  
288 289 294 299 301 302  
319 321 323 328 330 332  
337 340 341 343 351 354  
356 360 367 404 409 410  
411 418 421 437

Aviation injuries

125 129 136 144 155 211  
217 233 234 254 301 404  
411 429 437

Aviation medicine

1 2 139 140 149 176  
179 194 204 225 293 295  
302 312 328

Aviation personnel

66 168 198 296 298 303  
304 306 307 313 318 367  
375 405 409 410 433 449  
458 469 471 472 482 495  
497 498 500

Aviation psychology

10

**Aviation safety**

101	122	123	124	127	129
132	133	139	140	148	154
155	157	161	167	173	176
180	182	191	196	209	213
214	224	233	234	235	237
240	244	245	252	254	266
271	284	308	321	328	335
344	348	354	361	367	409
477	481	482	497	498	

**Awards**

444

**Ballistocardiography**

145	153	171	185	216	227
228	229	276	462	468	474
475	490	491			

**Barometric pressure**

242 243 359

**Beacon lights**

344

**Behavior**

108	173	206	294	319	322
327	343	419			

**Bibliography**

369 399 494

**Binoculars**

379

**Biochemistry**

357 492 494

**Biophysics**

474 475

**Birds**

351

**Blackout (physiology)**

156

**Blood**

4

**Blood chemistry**

452 453

**Blood circulation**

162 365 401 454 468 503

**Blood coagulation**

452 453

**Blood counts**

377

**Blood disorders**

391 460

**Blood pressure**

23 365 401 488

**Blood vessels**

451

**Body**

113 118

**Body temperature**

392 448

**Body weight**

348 414

**Brain**

393 451 463

Calibration  
145 216 377

Cardiovascular system  
23 68 72 229 236 408  
416 447 449 462 463 466  
502

Ceiling  
341

Center of gravity  
255 285 361

Certification  
293

Chemical analysis  
492

Chemical compounds  
440

Cholesterol  
425

Civil aviation  
137 173 178 183 189 199  
204 205 209 213 246 277  
278 282 294 295 299 303  
316 320 321 371 410 482

Closed cycle ecological systems  
424 435

CNS stimulants  
403 412

Cockpits  
82 90 134 158 177 253  
256 329

Coding  
312

Collisions  
188 418

Color vision  
102 287 300

Combustion  
205

Commercial planes  
91

Communication systems  
358

Concussion  
341

Configuration  
260

Confined environments  
419

Control panels  
187 220 329

Convulsive disorders  
417 471 472

Coriolis effects  
369

Correlation techniques  
13



Electroencephalography							Etiology						
19	46	390	413	423	461		455	500					
Electromagnetic waves							Excretion						
309							370						
Electronic accounting machines							Exercise						
304							63	166	175	352	375	381	
							387	402	425	432	473	487	
Electronic equipment							Exhaust gases						
377							130	142	191	243	244	245	
Embolism							Explosive decompression						
470							222	240	259	290	334	378	
							438						
Emesis							Exposure						
11							244	245					
Emotions							Eye						
112	327						16	103	239	339	359	364	
							369	372	373	382	383	398	
Enzymes							413	423	434	439	459	464	
452													
Epidemiology							Eyeglasses						
150	275	280					272	287					
Epilepsy							Factor analysis						
19	455						23	24	45	53	57	59	
							87	108	115				
Epinephrine							Fatigue (physiology)						
11							2	3	6	17	55	67	
							89	257	298	327	334	346	
Errors							381	388	415	424	425	431	
64	137	172	181	184	226		432	441	445	446	464	476	
							492	500	502				
Erythrocytes							Fibrin						
377							457	470					

<b>Job analysis</b>							<b>Man</b>						
79	89	91	95	97	101		222	255	361	378	384	420	
479	480	484	485				435	438					
<b>Kidneys</b>							<b>Management engineering</b>						
365	370	391	395	401			480	484	485				
<b>Landing gear</b>							<b>Maps</b>						
184							317						
<b>Landing impact</b>							<b>Mathematical analysis</b>						
384							18	218					
<b>Landings</b>							<b>Mathematical models</b>						
16	62	74	117	206	208		503						
231													
<b>Law</b>							<b>Measurement</b>						
144	205	301					186	310	317	394	443	478	
<b>Learning</b>							<b>Measuring devices (electrical and electronic)</b>						
22	26	50	59	75	81		145	153	185	276			
119	249												
<b>Life rafts</b>							<b>Medical examination</b>						
160	161	174	182	241			2	5	6	7	8	9	
							52	68	102	138	144	148	
							151	172	195	196	199	211	
							212	226	239	248	288	291	
							292	296	303	304	314	318	
							325	336	461	469	473	481	
<b>Light</b>							482	483					
272	459												
<b>Locking fastener devices</b>							<b>Medical facilities</b>						
354							277	283	289	303	316	456	
<b>Lungs</b>							<b>Medical personnel</b>						
448	450	454	487				5	144	149	151	172	178	
							179	183	189	204	209	211	
							213	225	226	277	282	283	
							286	294	308	316	320		
<b>Mammals</b>													
380													



Photographic analysis

21 37 65

Physical fitness

5 6 7 9 32 106  
 112 113 122 141 146 148  
 149 172 176 183 188 189  
 193 195 196 199 203 204  
 212 226 232 246 247 248  
 278 279 281 289 291 292  
 296 314 318 322 323 325  
 332 336 340 352 370 375  
 381 387 407 414 415 428  
 432 446 449 458 461 469  
 479 480 481 482 483 495  
 500

Physiology

3 4 11 33 44 46  
 47 60 63 79 87 175  
 186 197 201 313 326 339  
 352 359 370 380 387 401  
 416 448 462 476 487

Pilot elevators

41

Pilots

2 3 5 6 7 8  
 9 10 12 13 14 15  
 16 17 19 20 21 22  
 24 25 26 27 28 31  
 32 33 34 36 38 39  
 40 43 44 45 47 48  
 49 50 51 52 53 54  
 55 56 57 58 60 62  
 64 65 67 68 69 70  
 71 73 74 75 76 77  
 78 79 80 81 83 84  
 85 86 87 88 90 91  
 92 93 94 95 99 100  
 101 102 103 104 105 106  
 107 108 109 110 111 112  
 113 114 115 116 117 118  
 119 121 130 137 141 146  
 148 149 151 158 159 172  
 181 183 184 188 189 193  
 195 196 199 203 207 208  
 220 226 231 232 246 247  
 248 249 256 257 278 279

Pilots (continued)

283 288 289 291 292 293  
 294 302 314 319 322 323  
 325 326 327 329 332 333  
 335 336 340 343 344 345  
 346 407 424 427 429 431  
 441 463 476 478 493 496  
 499 501

Pilots' safety harness

214

Plasmin

452 453 470

Poisoning

142 331 385 395 408 417  
 440 465

Poisonous gases

152 164 205 237

Polarization

272

Population

230

Posture

109 113 118 255 259 271  
 285 421 422 430 438

Pressure

190 348 380 454

Pressure breathing

498

Proprioception

86



Ribonucleic acids							Sensory deprivation						
357							419						
Ride recorder							Sensory mechanisms						
29							81	93	102	130	358	431	
Rotation							Shock (pathology)						
285	339	382	383				197	366	384	406	420		
Safety							Simulation						
150	275	280	307	309	430		345	441					
Safety devices							Skin						
128	155	167	280	330	411		30	358					
Safety harness							Sleep						
129	220	223	254	271	341		34						
399	422	437					Smell						
Sanitary engineering							191						
305							Smokes						
Scientific organizations							143	245					
277							Social sciences						
Sea rescue equipment							218						
200	202						Sound						
Sea rescues							351						
161	202						Space flight						
Selection							297	434					
7	8	10	15	21	25		Space medicine						
31	32	34	39	43	45		424	435					
48	50	51	58	59	70		Space perception						
71	73	75	106	111	114		16	68	86	93	287	300	
115	116	118	246	283	318		362	379	389	397	431	442	
347	400	433					443						
Sensitivity													
103													

Specifications							Supersonic flight											
144	154						290											
Spinal cord							Supersonic transports											
393	463						290	334	353									
Stalling							Surgeon											
77	80	81	83	85	92		450											
96							Survival											
Standards							136	202	224	384								
5	7	8	27	32	64		Symposia											
69	84	91	104	107	109		144	209	213									
141	144	146	159	176	178		Syncope											
179	196	199	207	230	232		233	235	236	390	455	493						
278	279	283	293	314	325		Tables											
328	332	336	340	367	479		192	286										
480	481	482	483	495			Take-off											
Statistical analysis							208	337										
8	25	27	32	36	37		Temperature											
38	42	43	47	48	49		30	46	205	417								
53	56	57	58	61	64		Terminal flight facilities											
66	70	71	73	75	83		308	320										
88	100	323					Test construction (psychology)											
Stimulation							105	108	113	115	116							
459							Test equipment											
Stress (physiology)							259											
60	63	120	122	184	194		Test methods											
197	242	297	353	381	391		15											
394	405	427	428	429	431													
492																		
Stress (psychology)																		
120	353	394	419	441														
Students																		
65	75	76	103	106	111													
Subsonic flight																		
346																		

<b>Tests</b>							<b>Toxicity</b>						
123	124	126	127	157	160	130	142	143	144	152	180		
169	192	200	201	241	188	191	205	237	244	245			
					306	311	317	326	334	342			
					355	357	373	385	395	408			
					426	436	440						
<b>Thresholds</b>													
55													
						<b>Training</b>							
<b>Thresholds (physiology)</b>						12	13	21	22	26	27		
17	163	190	191	258	264	36	42	43	49	50	51		
265	307	388	420	57	68	69	74	77	84				
				86	87	88	99	100	104				
				105	107	109	110	119	168				
				207	249	313	329	335	349				
				350	495	499							
<b>Thrombosis</b>													
450	470												
						<b>Training devices</b>							
<b>Time</b>						28	75	98					
123	124	126	127	132	133								
157	169	192	200	201	210								
241	244	245	251	273	330								
346	435					<b>Tranquilizers</b>							
						392	412						
<b>Tissues (biology)</b>						<b>Transducers</b>							
380						474	475	486	488				
<b>Toilet articles</b>						<b>Transfer of training</b>							
396						159	208	400	499				
<b>Tolerances (physiology)</b>						<b>Transients</b>							
63	120	122	130	144	166	376							
186	194	197	222	242	297								
310	333	352	353	360	402								
403	406	410	412	415	417								
425	430	432	445	446	<b>Transport planes</b>								
					78	79	91	94	121	154			
					157	169	170	181	193	205			
					214	250	351	354	498				
<b>Torque</b>													
260	266					<b>Turbulence</b>							
						234	345						
<b>Touch</b>													
358						<b>Underwater explosions</b>							
						430							
<b>Toxic tolerances</b>													
152	164	180	237	393									

United States Government							Vision						
144	176	204					20	54	68	74	84	100	
							117	134	150	163	177	221	
							247	248	258	262	263	264	
Universities							265	267	268	269	287	300	
456							362	374	379	389	397	442	
							443	459	478	501			
Urine							Visual acuity						
370	492						74	117	249	264	287	300	
							362	389	397	442	443	463	
							478	501					
Utility planes													
92	96	129	195	217	333								
343	404	411	427	428	429		Vocabulary						
							12	28					
Vasoactive agents							Warning systems						
403	412						80	81	96				
Veins							Waste gases						
365							142	143	144	237	305		
Velocity							Water vapor						
468							186						
Vertical indicators							Weightlessness						
80							285	399					
Vertigo							Wind tunnel tests						
390							378						
Vibration							Windshield wipers						
14							221	261	269	274			
Visibility							Windshields						
134	163	177	221	258	261		163	221	261	262	267	268	
262	263	269	270	272	274		269	270	272	274			
344													

Wounds and injuries  
275 280 420

X-rays  
309





## TITLE INDEX

"Ability-To-Take-It" Tests Examiner Differences and Validation	55	Aircraft Safety Belts: Their Injury Effect on the Human Body	129
Absolute Identification of Cutaneous Stimuli Varying in Both Intensity Level and Duration	363	The Airline Pilot: A Survey of the Critical Requirements of his Job and of Pilot Evaluation and Selection Procedures	79
Abstracts of Aviation Psychology	1	The Airline Tryout of the Standard Flight-Check for the Airline Transport Rating	94
Accident Prevention Research	120	Airsickness and Vestibular Sensitivity as Related to Learning to Fly, Progress Report	103
On the Actual and Potential Value of Biographical Information as a Means of Predicting Success in Aeronautical Training	38	Alcohol and Flying, Mortal Enemies	322
Acute and Chronic Effects of the Insecticide Endrin on Renal Function and Renal Hemodynamics	395	Alcohol and General Aviation Accidents	323
An Adhesive Type Oxygen Mask	251	Alertness and Attention in Piloting Aircraft-- Proposal FAA-2 (BUAM)	496
An Adhesive Type Oxygen Mask	252	The Allowable Degree of Bodily Impairment from Toxic Gases	130
Aeromedical Research Program	405	Analysis of CAA Records on Airline Transport Pilots	78
Aerospace Anthropology in Federal Research	406	Analysis of Eye Fixations and Pattern of Eye Movement in Landing a Piper Cub J-3 Airplane	16
The Age Distribution of Captains in Air Carrier Accidents	121	An Analysis of Graphic Records of Pilot Performance Obtained by Means of the R-S Ride Recorder Part I	29
Age, Fitness, Experience and Safety	122	An Analysis of Graphic Records of Pilot Performance Obtained by Means of the R-S Ride Recorder, Part II, Quantitative Evaluation of Pilot Performance on 720 Degree Power Turns	61
Age, Response Speed, and Cardiovascular Functions	447	An Analysis of Highway Safety Strategies	275
Aging and Pilot Performance	407	An Analysis of Inspectors' Ratings of Check Flights as Recorded on Form ACA 342Z	64
The Agreement Between Inspectors' Observations as Recorded on the Ohio State Flight Inventory and Instrument Readings Obtained from Photographic Records	73	An Analysis of Photographic Records of Aircraft Pilot Performance	37
Aircraft Accident Investigation	321	Analysis of Physical Defects Found by the Armed Services in Pilot Certified to be Without Disqualifying Defect by Civil Pilot Training Examination	8
Aircraft Emergency Evacuation--A Method for Evaluating Devices, Procedures and Exit Provision	123	Analysis of Ratings in the Preliminary Phase of CAA Training Program, Progress Report	104
Aircraft Emergency Evacuation--Report No. 2 Operating Experience and Industrial Trials	125	Analysis of Ratings in the Preliminary Phase of the CAA Training Program	27
Aircraft Emergency Evacuation--Convair 240 Experimental Trials of Emergency Escape With American Airlines, Incorporated, Report No. 3, August 1952	124	An Analysis of Sitting Areas and Pressures of Man	348
Aircraft Emergency Evacuation Report No. 5-- Trials of Emergency Escape from the Pan American World Airways Boeing 377	126	Analysis of Test Data on 1938-39 CAA Students, Progress Report	105
Aircraft Emergency Evacuation Report No. 6-- Trials of Emergency Escape from the Trans World Airlines Lockheed 749	127	Analysis of the Aviation Medicine Situation and Recommendations for a Bureau Program	2
Aircraft Evacuation under Fire Conditions	128		
The Aircraft Pilot: 5 Years of Research (A Summary of Outcomes)	52		

Analysis of the Aviation Medicine Situation and Recommendations for a Bureau Program	3	Biomedical Research Studies in Acceleration, Impact, Weightlessness, Vibration, and Emergency Escape and Restraint Systems-- A Comprehensive Bibliography	399
Analysis of the Desire to Fly (D-F) Inventory	56	Le Bruit Dans le Cabine (Noise in the Cabin)	324
An Analysis of the Oxygen Protection Problem at Flight Altitudes Between 40,000 and 50,000 Feet	497	Bureau of Aviation Medicine	288
Analysis of the Personal History Inventory	48	The CAA-National Testing Service: Summary of Test Results and Comparisons with Success in Flight Training	45
Annotated Bibliography of Recently Translated Material	369	CAA-USPHS Cooperation on Problems of Public Health	144
Annual Report on Analysis of Pulse Wave Contours and Phonocardiograms by Digital Computer, July 1, 1962-September 30, 1963	486	A Calibrated Bar-Magnet Velocity Meter for Use in Ballistocardiography	145
Aortic Stenosis--A Study with Special Reference to the Use of an Indirect Carotid Pulse Recording	131	Calibration of an Electronic Counter and Pulse Height Analyzer for Plotting Erythrocyte Volume Spectra	377
Appendices to "An Investigation of Prediction of Success in Naval Flight Training," Report 81	88	Cardiopulmonary Consequences of Pyrogen-Induced Hyperpyrexia in Man	448
Application of a "Relative" Procedure to a Problem in Binaural Beat Perception	386	Cardiovascular Effects of the Insecticide Endrin	408
An Appraisal of Certain Tests of Pilot Aptitude	70	Cardiovascular Health Status, Age, and Psychological Performance	449
An Approach to the Evaluation of Emergency Exit Provisions	132	A Case of Survival of Extreme Vertical Impact in Seated Position	366
An Approach to the Selection of Regression Curves as Predictors for Emergency Exit Evaluation	133	A Central Factor in Pure Tone Auditory Fatigue	388
Areas of Vision and Cockpit Visibility	134	Central Nervous System Effects of Chronic Exposure to Organophosphate Insecticides	393
Assessment of Pulmonary Function by Analog Computer Technics and Conventional Methods	487	The Changing Age Distribution of Holders of Class I Medical Certificates	146
The Association Between Ratings on Specific Maneuvers and Success or Failure in Flight Training of RAF Cadets	43	Chronic Thrombotic Obstruction of Major Pulmonary Arteries: Report of a Case Successfully Treated by Thrombendarterectomy, and a Review of the Literature	450
Asymptomatic Myocardial Infarction	135	Chronological Summary of Events in Studies on the Emergency Evacuation of Aircraft	147
Automatic Recording of Muscular Tension During Flight, Progress Report	106	Civil Aeromedical Research--Responsibilities, Aims, and Accomplishments	367
Av-CIR Crash Survival Study, US Army Bell H-13 Accident at Monmouth County Airport, Belmar, N. J., June 21, 1956	136	Civil Aeromedical Research Progress	409
(Aviation Accidents) an address	137	Class I Medical Certificate Pilots with "Waiver" Defects (Their Age Distribution, Population Growth Trend and Accident Record)	148
(Aviation Accidents) an address	138	Comments on the Progress and Scope of the Practice of Aviation Medicine	149
Aviation Medical Research for Airman Safety	139	Commission on Accidental Trauma, Armed Forces Epidemiological Board, Annual Report, 1951-1952	150
Aviation Medical Service Bulletin	140	Comparative Evaluation of Pictorial and Symbolic VOR Navigation Displays in the 1-CA-1 Link Trainer	98
Aviation Medicine and Patient Air Travel	302	A Comparison of Accident Rates of Pilots Certificated by Trained and Untrained Medical Examiners	151
Aviation Medicine and Physical Standards for Airmen	141	Comparison of Ballistocardiographic Systems with Special Reference to the Use of a Jerkmeter	276
Aviation Psychology (Translation from the Japanese)	93		
Aviation Toxicology--An Introduction to the Subject and a Handbook of Data	142		
Aviation Toxicology Bulletins, Nos. 1-18, April 1950-July 1958 and Index to Abstracts in Bulletins Nos. 1-15, 1950-1958	143		

Comparison of Harmful Effects Produced by Carbon Tetrachloride, Methyl Bromide and Chlorobromomethane	152	Development of a Scale for Rating Pilot Competence, Progress Report	108
Comparison of Student Pilot Performance in Successive Check Flight as Measured by Photographic Records	65	The Development of "A Scale for Rating Pilot Competency"	24
Comparison of the Displacement, Velocity, and Acceleration Ballistocardiography in Coronary Heart Disease	153	The Development of a Standard Flight Check for the Airline Transport Rating Based on the Critical Requirements of the Airline Pilot's Job	91
Conference on Emergency Evacuation	154	Development of an Objective Proficiency Check for Private Pilot Certification	101
Continuation Analysis of the Direct Body Ballistocardiograph, Report No. ER-185A	474	Development of Assays for Components of Fibrinolytic Mechanism--I. Caseinolytic and Fibrinolytic Assays for Plasmin in "Fibrinolytic" Agents	453
A Course in Training Methods for Pilot Instructors	26	Development of Civil Aviation Medicine in the FAA	278
Cranial Impedance Plethysmography--Rheoencephalography as a Method of Detection of Cerebrovascular Disease	451	The Development of Reversible Hematuria and Oliguria Following Elevation of Renal Venous Pressure	370
Crash Injury as Related to the Civil Aeronautics Administration	155	The Development of Standard Flights and the Use of Time and Motion Study Techniques in the Pilot Training Program, Progress Report	109
Criteria of Flight Competence, Progress Report	107	The Development of the CAA-NRC Flight Recorder	41
Current Civil Aeromedical Research	410	Developments in Emergency Escape Problems	160
Current Resources and Primary Medical Programs	303	Developments in Emergency Escape Problems	161
Current Resources and Primary Medical Programs	277	Diagnostic Aids in Coronary Disease Using Exercise with Multiple Chest Leads	162
Current Status of Clot Dissolution Therapy	452	Diagnostic Criteria for Sub-Clinical Coronary Artery Diseases, Final Report	490
The Current Updating of Our Medical Standards	325	Drug Effects on Pilots	326
Data on the Human Requirements for Oxygen in Rapid Descent from High Altitudes Following Decompression	156	Dynamic Visual Fields	163
DC-4-66-Passenger Aircoach Evacuation Tests	157	The Effect of Distraction Lights Upon Performance of the Mashburn Serial Coordination Test	35
In Defense of Air Medicos	332	Effect of Glyceryl Trinitrate on Pulmonary Vasculature of Anesthetized Dogs	454
Describing Man for Design Development	158	Effect of Increased Venous Pressure on Renal Hemodynamics	365
Description of Experimental Design of Study in Progress with Operational Directives for its Prosecution	159	The Effect of Massing and Distribution of Practice on Rotary Pursuit Test Scores	50
Design and Construction of an Adjustable Cockpit Mockup	253	The Effect of Massing and Distribution of Practice on the S.A.M. Complex Coordination Test	59
Design and Construction of a Crash Dummy for Testing Shoulder Harness and Safety Belts, A Preliminary Report	254	The Effect of Massing and Distribution of Practice on Two-Hand Coordination Test Scores	51
Detailed Statistical Analysis of Data Obtained in the Pensacola Study of Naval Aviators	47	The Effect of Noise and Vibration on Certain Psychomotor Responses	14
Determinants of Injury Severity in Lightplane Crashes	411	The Effect of Training and of Structural Aids on Performance in Three Tests of Space Orientation	86
Determination of Centers of Gravity of Man-- Final Report	255	Effect of Training on Acuity of Peripheral Vision	74
Determination of Centers of Gravity of Man	361	The Effectiveness of Directed Attention to Instruments as a Training Aid	75
Determination of the Most Comfortable Knee Angle for Pilots	256		
The Development of a Procedure for Evaluating the Proficiency of Air Route Traffic Controllers	89		

The Effectiveness of "Patter" and "Fundamentals of Basic Flight Maneuvers" as Training Aids	12	The Evaluation of Windshield-Window Solid Angles with Respect to Human Visual Fields	258
The Effects of a Tranquilizer on Body Temperature	392	Examiner Performance on Class III Reports of Physical Examination for Student and Private Pilots	172
The Effects of Carbon Monoxide on Three Types of Performance at Simulated Altitudes of 10,000 and 15,000 Feet	164	Executive Health Guide	414
The Effects of Oxygen Deprivation (High Altitude) on the Human Organism	4	Experience with Newly Developed Medical Certification Procedures	304
The Effects of Repeated and Prolonged Exposure to High Concentrations of Ozone on the Vision of Airline Pilots	501	An Experimental Analysis of Transfer Effect Between Contact and Instrument Flight Training	499
The Effects of Simulated Altitude on Penetrating Eye Injuries	359	Experimental Evaluation of Work Capacity as Related to Chronological and Physiological Aging	387
Effects of Some Tranquilizing, Analeptic and Vasodilating Drugs on Physical Work and Capacity and Orthostatic Tolerance	403	An Experimental Plan for the Study of Emergency Evacuation of Aircraft (Copy of Program Developed and Adopted April 18, 1959)	173
Effects of Some Tranquilizing, Analeptic and Vasodilating Drugs on Physical Work Capacity and Orthostatic Tolerance	412	An Experimental Study of Escape and Survival in Aircraft Ditchings	174
Electrocardiographic Changes in Fulminating Anoxia	165	Experimentelle Untersuchungen der Organischen Anpassungsfähigkeit mit Zunehmendem Alter (Investigations on Organic Adaptability with Increasing Age)	415
Electrocardiographic Response in Exercise Tolerance Tests	166	An Explanation of Some Aspects of Breathing	175
Electroencephalogram Alpha Activity During Mild Vestibular Stimulation	413	Explosive Decompression and Postural Tolerance Studies 1955 Annual Progress Report on Navy Contract	259
Electroencephalography of Naval Aviators	19	A Factor Analysis of Some Cardiovascular-Respiratory Variables with Particular Reference to the Schneider and the McCurdy-Larson Tests	23
On the Elimination of Pulse Wave Velocity in Stroke Volume Determination from the Ultralow-Frequency Displacement Ballistocardiogram	462	Failure of Rearward Facing Seat-Backs and Resulting Injuries in a Survivable Transport Accident	354
Elimination of Some Time Losses in Emergency Evacuation of Passengers from Airplanes	167	Fatigue and Aging as Expressed in the Circulatory System, Final Report	502
Emergency Escape Procedures, A Report of Joint Studies with the Military Air Transport Service and the Civil Aeronautics Administration on the C-124 and Supplementary Data	168	Fatigue, Emotional Problems and Conditioned or Automatic Behavior in the Jet Pilot	327
Emergency Evacuation of Transport Airplanes	169	Federal Air Surgeon's Medical Bulletin	328
Emergency Evacuation of Transport Airplanes (Appendix D)	170	Federal Aviation Agency Environmental Health Program Report of Air Contamination and Other Environmental Health Factors, Charleston, West Virginia--VORTAC	305
Energy Cost of Flying Multi-Engined Aircraft	257	The Federal Aviation Agency Medical Program	279
Epilepsy and Syncope	455	Federal Aviation Agency: The Program of the Bureau of Aviation Medicine	289
Evacuation Pattern Analysis of a Survivable Commercial Aircraft Crash	356	Federal Concern with Civil Aviation Medicine	176
Evaluation of Aircraft Instrument Display for Use with the Omni-Directional Radio Range	90	Field Tryout of a Procedure for Evaluating the Proficiency of Air Route Traffic Controllers	97
Evaluation of Instructional Techniques Described as Effective by Flight Instructors	69	Final Report on the Investigation of Mask Leakage in Passenger Oxygen Masks	477
Evaluation of Respiratory Measures for Use in Pilot Selection	31	The Flammability of Lip, Face and Hair Preparations in the Presence of 100 Percent Oxygen	396
Evaluation of the Calibrated Displacement, Velocity, and Acceleration Ballistocardiograph in Angina Pectoris	171		

The Flight Instructor's Vocabulary	28	How to Prevent Air Sickness	111
Flying Boats Anyone?	329	Human Factors Aspects of ATC Incident Involvement--An Adjunct to the Report of the Near Mid-Air Collision Study Group (Consultative Report)	418
Forces That May Be Exerted by Man in the Operation of Aircraft Door Handles	260	Human Factors Aspects of Lightplane Safety	404
FSF, CAA Medical Study, A Study of Physical Qualifications for Air Traffic Control Personnel, A Preliminary Report	479	Human Factors in Supersonic Air Transport	290
FSF/CAA Medical Study, An Approach to Physical Qualifications for Air Traffic Control Personnel, A Preliminary Summary Report	480	Human Factors of Emergency Evacuation	330
FSF/CAA Medical Study, Report No. 1--Physical Qualifications of Air Traffic Control Personnel	481	Human Reliability and Confinement	419
FSF/CAA Medical Study, Report No. 2--Medical Aspects of Civil Aviation	482	Human Survivability of Extreme Impacts in Free-Fall	384
FSF/CAA Medical Study, Report No. 2--Supplement--Federal Regulation of Physical Qualifications in Motor Carriers, Merchant Marine, and Railroads	483	Human Tolerances	353
FSF/FAA Air Traffic Control Study--Effects of Activity and Environment on Air Traffic Control Personnel, Interim Report	484	Human Tolerances to Extreme Impacts in Free-Fall	420
FSF/FAA Air Traffic Control Personnel Study--Effects on Activity and Environment, Final Report	485	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	261
Functional Cockpit Design	177	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)	262
The Future in Aviation Medicine	178	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)	263
The Future of Aviation Medicine as a Specialty	179	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)	264
General Biology of Senescence	416	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)	265
Georgetown Clinical Research Institute, What Is It?	456	Human Voluntary Tolerance to Vertical Impact	421
Graphic Registration of Flight Performance, Progress Report	110	Hyperventilation, One Cause	331
Guide to Drug Hazards in Aviation Medicine	306	An Improved Method for Determining the Efficiency of Crew and Passenger Oxygen Masks, A Preliminary Report	368
Handbook for Medical Examiners	5	Improved Transducer for External Recording of Arterial Pulse Waves	488
Hearing Conservation in Noise Exposure	307	Incidence, Clarification and Nature of Errors Made by Crews in Air Carrier (Airline) Operations	181
Heat-Induced Tetany	417	The Inconsistency of Pilot Performance in Approaching the Stall: Relationship to Flight Conditions, Experience, and Age	85
Heparin Fibrinolytic Synergiesia	457	Indicators of Emotional Disturbances in Flight, Progress Report	112
High Concentration--Short Time Exposures and Toxicity	180	Inflight Loss of Consciousness: A Case Report	390
Highlights of Neurology in the Federal Aviation Agency	458	The Influence of Physiologically Effective Doses of Epinephrine on Vestibularly Induced Nausea	11
An Historical Introduction to Aviation Psychology	10		
The History and Development of the Biographical Inventory	76		
History and Development of the Ohio State Flight Inventory (Part I: Early Versions and Basic Research)	53		
History and Development of the Ohio State Flight Inventory (Part II: Recent Versions and Current Applications)	57		

Information Concerning Tests of Passenger Escape from Ditched Airplanes	182	Manipulation of Arousal and its Effects on Human Vestibular Nystagmus Induced by Caloric Irrigation and Angular Accelerations	423
The Initial Six Months' Experience with Airline Pilots' Electrocardiograms	292	Measurement of Windshield and Window Angles in Automobiles	270
Initial Eighteen Months' Experience with Airline Pilots' Electrocardiograms	291	Measurements of Man for Making Machinery	187
Institute of Civil Aviation Medicine	183	Measures of Exercise Tolerance	63
An Introduction to the Discussion of the Vehicle in Relation to Highway Safety	280	Mechanism of Autoregulation in the Intact Kidney	401
An Investigation of Prediction of Success in Naval Flight Training (Squantum and Williams Studies)	87	Mechanisms of Action of the Insecticide Endrin	385
Investigation of the Etiology of In-Flight Fatigue Factors Developing in Jet Aircraft Engineers	500	The Mechanisms of Intrarenal Hemodynamic Changes Following Acute Arterial Occlusion	391
An Investigation of the Interview as a Technique for Selecting Aircraft Pilots	39	Medical Activities Associated with the United States Supersonic Transport Program	334
An Investigation of the Learning of Stall Perception	81	Medical and Administrative Pitfalls of the Civil Aviation Flight Surgeon	293
An Investigation of the Relationship Between Visual Ability and Flight Performance	84	Medical Aspects of Airplane Dusting and Spraying	188
Investigations of the Relative Amount of Time Spent on the Ground and in the Air by Civilian Pilot Training Students	49	The Medical Aspects of Business Aviation, Final Report	495
"In Vivo" Measurement of Total Gas Pressure in Mammalian Tissue	380	Medical Criteria for Passenger Flying	281
Kinematic Behavior of the Human Body During Deceleration	360	Medical Education for Student Pilots	335
Kinematic Behavior of the Human Body During Deceleration	422	Medical Facts for Pilots	336
Landing Gear Accidents in Airline Operations A Six-Year Summary	184	The Medical Investigation of Civil Aircraft Accidents	294
Latency of Pupillary Reflex to Light Stimulation and its Relationship to Aging	459	Medical Newsletter	295
Light Aircraft Noise Problems	333	Medical Participation in Type Certification of Aircraft	144
The Low Frequency Velocity Measurement Ballistocardiograph	185	The Medical Requirements of the CAA and the Recommended Medical Requirements of the Personnel Licensing Division of the Provisional International Civil Aviation Organization	102
Low Humidity (0-20 percent); Occurrence, Measurement and Effect on Human Health and Comfort	186	Medical Services at Airports	308
The Magnitude and Direction of Forces that Man Can Exert in Operating Aircraft Emergency Exits	266	Medical Support of Civil Aviation	189
Man's Areas of Vision as a Basis for the Design of Windshields and Side Windows	267	A Method for Selecting Combinations of Tests and Determining their Best "Cut-Off Points" to Yield a Dichotomy Most Like a Categorical Criterion	18
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, Armed Forces Epidemiological Board	269	A Method for the Measurement of Physiologic Evaporative Water Loss	394
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	268	Methods and Practices in Applied Ballistocardiography	491
Manipulation of Arousal and its Effects on Human Vestibular Nystagmus Induced by Caloric Irrigation and Angular Accelerations	364	A Micro-Recorder for Measuring Skin Temperature and Sweating in Airplane Pilots	30
		Microwave (RF) and X-Radiation Hazards at High Power Radar Facilities	309
		Middle Ear Perception of Pressure and Pain in Descent from Altitude	190
		The Mitigation of Physical Fatigue with "Spartase"	381
		Motions of the Head and Trunk Allowed by Safety Belt Restraint During Impact	271

Myocardial Metabolism and High Energy Phosphate Compounds in Acutely Uremic Dogs	460	Physical Defects of Civilian Pilots Related to Aircraft Accidents	340
Neural Control of the Ciliary Muscle	374	Physical Examination and the Private Flier	195
Neurological Abnormalities in a Population Requiring Aviation Medical Certification	461	Physical Fitness	196
Night Takeoff	337	Physical Working Capacity in Medical Personnel and the Response of Serum Cholesterol to Acute Exercise and to Training	425
Noise in the Cabin	338	Physiological Effects of Mechanical Stresses	197
Nystagmus Responses of the Cat to Rotation and to Directionally Equivalent and Non-Equivalent Stimuli After Unilateral Caloric Habituation	383	Physiological Effects of Postural Disorientation by Tilting During Weightlessness	285
An Objective Measure of Bodily Steadiness in the Selection of Pilots, Progress Report	113	The Physiological Locus of the Spiral After-Effect	339
Observations on the Elicitation of Secondary and Inverted Primary Nystagmus from the Cat by Unilateral Caloric Irrigation	372	Physiological Responses of Normal and Pathological Subjects to a Modified Work Capacity Test	432
Odors, Odorants, and Deodorants in Aviation	191	Physiological Training	313
The Organization and Functions of the Office of Civil Air Surgeon, Federal Aviation Agency	282	Policies of Airlines Regarding the Use of Drugs by Flight Crews	198
The Organization and Functions of the Office of the Civil Air Surgeon of the Federal Aviation Agency	283	Policy Refresher Course No. 1, Aviation Medical Service Seminar, March 11-13, 1947	199
Outline of Procedures for FAA Aviation Medical Examiner Participation in Aircraft Accident Investigation, July 1961	284	Portrait of an Accident	341
Ozone in High-Altitude Aircraft Cabins	310	Potential Hazard of Poisoning by Chemicals Used in Agricultural Flying	144
Ozone in Jet Aircraft, Final Report	476	Prediction of Energy Cost of Treadmill Work	352
Ozone Toxicity Hazard in Cabins of High Altitude Aircraft--A Review and Current Program	311	Preliminary Draft of Notes on Simulated Ditching Trials	200
A Partial Analysis of a Three-Man Interview Technique for Predicting Airplane Pilot Success in the Civilian Pilot Training Program	71	Preliminary Draft of Report on Convair 240 Tests, Joint Trials	201
Passenger Escape from Aircraft Employing the Inflatable Slide	192	Preliminary Draft Report Upon Time Trials on Various Phases of Passenger Survival Procedures Following Ditching	202
Pathology Codes of the Aviation Medical Service	312	Preliminary Experiment of Investigations of "Tension" as a Determinant of Performance in Flight Training	60
The Pensacola Study of Naval Aviators, Final Summary Report	44	A Preliminary Study of Certain Predictors of Success in Civilian Pilot Training	13
The Perception of Depth from Binocular Disparity	379	A Preliminary Study of Physical Standards in Relation to Success in Flight Training	32
Periodic Desynchronization in Humans under Outer Space Conditions	424	Presence of Ozone in Cabins of High-Altitude Aircraft	342
Personality, Interest, and Attitude Inventories in the Selection of Civilian Pilots, Progress Report	114	Present Philosophy of Aeromedical Standards Development	314
A Personality Test to Avoid Guessing the "Right" Answers in the Selection of Pilots, Progress Report	115	Primary, Secondary, and Caloric Nystagmus of the Cat Following Habituation to Rotation	382
Physical Characteristics of the 1946 Airline Pilot Population	193	The Problem of Pilot Aging	203
Physical Characteristics, Tolerances, and Susceptibility to Accidents	194	Problems in Aerial Application--I. Some Biochemical Effects of Lindane and Dieldrin on Vertebrates	357
		Problems in Aerial Application--II. Effects of Chlorinated Hydrocarbons and Substrate-Linked Phosphorylation	373
		Problems in Aerial Application	426

Problems in Air Traffic Management--I. Longitudinal Prediction of Effectiveness of Air Traffic Controllers	347	Psychomotor Performance and Nystagmus of a Macaca Mulatta During Missile Flight	434
Problems in Air Traffic Management--II. Prediction of Success in Air Traffic Controller School	349	Pupillary Movements During Acute and Chronic Fatigue	464
Problems in Air Traffic Management--III. Implications of Age for Training and Job Performance of Air Traffic Controllers	350	The Recognition of Strictly Posterior (Infra- Atrial) Myocardial Infarction by Conventional Scalar Electrocardiography	489
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	400	Regional Medical Officers' Conference, Oct. 1950	209
Problems of Consistency Arising from CAA Medical Examinations	7	Relation of Earphone Transient Response to Measurement of Onset-Duration	376
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	498	The Relation to Accident of Physical Defects Noted in Standard CAA Medical Examinations	9
A Professional Confession	343	The Relationship of Background and Personality Factors to Pilot Competency, Progress Report	116
A Program for Civil Aviation Medicine	204	Relationships Between Operator Proficiency and Effectuated Changes in Biological Circadian Periodicity	435
Program, Functional and Physical Inter- Relationships of FAA Medical Activities	286	Report of Aviation Medical Meeting Kansas City, Missouri, Jan. 24-25, 1939	6
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	205	Report of Radiation Hazard, AN/CRT-3 Radio Transmitter (Gibson Girl)	315
Progress Report on Project No. 4: Toxic Gases and Atmospheric Conditions in Airplane Conflagrations	205	A Report of Results and Conclusions from Tests on the Effect of Size of Doors and Windows on Emergency Escape Time: Preliminary Report, Draft	210
A Progress Report on Studies on the Emergency Evacuation of Aircraft	206	Report of Survey of Medical and Related Facilities at United States Civil Airports	316
Project Presentation	463	Report on CAA-National Testing Service (First Phase July 20, 1942-August 2, 1942)	15
Project Studies Report, Dec. 1961	427	Report on CAA-National Testing Service (Phase II Aug. 3-Sep. 15, 1952 Phase III Sep. 16- Nov. 15, 1942 Phase IV Nov. 16, 1942-Jan. 31, 1943)	25
Project Studies Report, Oct. 1962	428	Report of CAA-National Testing Service Previous Flight Training Preferences as Related to Pilot Screening Test Scores	36
Project Studies Report, Jan. 31, 1963	429	Report on Ozone Measurements Conducted Within the Cabin of a KC-135 Aircraft	317
Proposed Grading Systems	207	Report on the Boston-Midwest Project	58
A Proposed Study of Take-Off and Landing with the 4th Flight Class at the Institute of Aviation Psychology	208	Research Activities of the Aviation Medical Service	318
Protection of Shipboard Personnel Against the Effects of Severe Short-Lived Upward Forces Resulting from Underwater Explosions--Final Report on Navy Contract	430	Research Activities of the Aviation Medical Service	296
Psychological Determinants of Functional Stresses in Aviation	431	Research Planning Study of Aging Criteria, Final Report	494
Psychological Problems in Cockpit Instrumenta- tion for the Omni-Directional Range (ODR) and Distance Measuring Equipment (DME)	82	Research Studies on Investigation of the Effects of Slow and Rapid Decompression Upon Humans at 45,000 Feet	493
Psychological Selection and Psychosomatic Assessment Research in the Civil Aeromedical Research Institute	433	"Respirator-Dependence" in Patients Recovering from Sedative Overdosage	465
The Psychology of Learning in Relation to Flight Instruction	22	Resume and Index of Reports of the Civil Aeromedical Research Institute 1961-1962	371
		Retinal Efficiency of FAA Pilots at NAFEC, Final Report and Analysis of Data	478
		A Revised Serial Reaction Time Apparatus for Use in Appraising Flying Aptitude	40



A Revised Two-Hand Coordination Test	42	Strain Patterns in Aircraft Safety Windshields and Visibility Through Polaroid Sun Glasses	272
Revision of the Standard Flight-Check for the Airline Transport Rating Based on the Airline Tryout	95	Structural and Medical Analysis of a Civil Aircraft Accident	437
The Role of Extra-Ocular Musculature in the Aviation Physical Examination	212	Student and Private Physical Examination	226
The Role of Fatigue in Pilot Performance	67	Studies in Motion Sickness: Series A	46
The Role of the Coroner in Aircraft Fatalities	211	Studies in Motion Sickness: Series B	66
The Rotating Beacon, Friend or Foe?	344	Studies in Motion Sickness: Series C	72
Second Annual Medical Officers' Conference 5-48	213	Studies of Air Loads on Man	438
Sensitivity of Peripheral Vision in Relation to Skill in Landing an Airplane	20	Studies of Air Loads on Man	378
Shoulder Harness and the Pilots Task in Operating Controls in Transport Type Aircraft	214	Studies of Frequency Response in Ballistocardiography	227
A Simple Field Test for the Assessment of Physical Fitness	375	Studies of Predictors of Achievement in Learning to Fly (Four Early Investigations of Aptitude and Personality Tests in Relation to Flying)	33
A Simple Method of Measuring the Q-T Ratio	215	Studies of the Effect of a Second Degree of Freedom in Ballistocardiography	228
Simulated Space Flights	297	Studies of the Instantaneous Ascending Aortic Blood Velocity in Intact Man Relative to the Acceleration Ballistocardiogram	468
Simulation and Effects of Severe Turbulence on Jet Airline Pilots	345	Studies on Aviation Personnel Aging	469
Simultaneous Calibrated Recording of Displacement, Velocity, and Acceleration in Ballistocardiography	216	Studies with the Displacement, Velocity, and Acceleration Ballistocardiograph in Aortic Insufficiency	229
The Site, Frequency and Dangerousness of Injury Sustained by 800 Survivors of Lightplane Accidents	217	A Study of Flight Surgeon Population in Relation to National and International Obligations	230
Size Cues and the Adjacency Principle	397	A Study of General Aviation Accidents	319
Slowness of Task Performance in Cardiovascular Diseases	466	A Study of Individual Differences Among Instructors in Making Spot Landings--Results	231
Social Pathology as a Medical Science	218	A Study of Individual Differences Among Flight Instructors in Making Spot Landings	62
Some Biological Factors in the Design of Civil Aircraft	219	A Study of Serious and Fatal Accident Records During 1939 and 1940	83
Some Biological Factors in the Design of Civil Aircraft	220	A Study of the Accuracy of Recognition of the Incipient Stall in Familiar and Unfamiliar Planes	80
Some Comments on Dynamic Visual Fields	221	A Study of the Effect of Training in Slow Flight on Landing Performance	77
Some Comments on Studies on Project NAONr 104-51	222	A Study of the Semi-Annual Instrument Check for Airline Pilots	99
Some Design Requirements for the Reduction of Motor Vehicle Accidents	223	A Study of the Sleep Motility of Student Pilots	34
Some Effects of Chlorinated Insecticides on Vertebrate Carbohydrate Metabolism	436	A Study of Visual and Cardiovascular Standards in Relation to Success in Flight Training	68
Some Survival Lessons Learned from Recent Accidents	224	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	232
Sonotropic Effects of Commerical Air Transport Sound on Birds	351	A Summary of Reports by Domestic Scheduled Airlines of In-Flight Unconsciousness and Death 1948-1950	235
Sources of Error in PO2 Determination	467	A Summary of Reports by Domestic Scheduled Airlines of In-Flight Unconsciousness and Death (1951-1953)	236
La Specialite de la Medecine Aeronautique	225		
Specifications for Head Clearance and Aircraft Design	144		
Stall Recognition in a Light Airplane	92		
Stall Recovery and Stall Warning Instrumentation in a Light Airplane	96		

A Summary of Reports by Domestic Scheduled Airlines of In-Flight Unconsciousness and Death (1951-1953)	233	Toxicity of the Organophosphates	440
A Summary of Reports by Scheduled Airlines of In-Flight Injury, Unconsciousness and Death (1947-1955)	234	Trends in Civil Aviation Medicine	246
Summary Report on the Biophysical Analysis of the CAA Ballistocardiograph, Report No. ER-185B	475	Unsuspected Neurologic Disease in Aviation Personnel A. Survival Following Seizures In Flight--I	471
Supplement to the Report on FAA/FEIA Study of Fatigue in Flight Engineers Assigned to Jet Operations	298	Unsuspected Neurologic Disease in Aviation Personnel A. Survival Following Seizures In Flight--II	472
A Survey of Medical and Related Facilities at United States Civil Airports	320	Urinary Elimination of Catecholamines as an Indication of Stress Response in Man, Final Report	492
Tactile Communication	358	The Use of an Analog Computer in a Circulation Model	503
Task--Control of Arousal and the Effects of Repeated Unidirectional Angular Acceleration on Human Vestibular Responses	398	The Use of Automatic Recording in Analyzing the Process of Learning to Fly, Progress Report	119
Task--Control of Arousal and the Effects of Repeated Unidirectional Angular Acceleration on Human Vestibular Responses	439	The Use of Simulators for Biomedical Research	441
Technical Data Pertinent to Aviation Toxicology	237	The Use of Standard Flights and Motion Photography in the Analysis of Aircraft Pilot Performance	21
A Technique for Recording Carotid Artery Pulsations with Special Reference to Aortic Stenosis	238	Utilization of Military Personnel in the Investigation of Civil Aircraft Accidents	299
A Test of Decision Time: Reliability and "Generality"	54	The Value of Radioelectrocardiography During the Double Master 2-Step Test Compared with the Standard Post-Exercise Electrocardiogram	473
Test Types for Measuring Accommodation	239	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	287
Tests for the Sensitivity of Peripheral Vision	117	Vision Meeting of Consultant Group, Bureau of Aviation Medicine Transcript of Discussions of Eye Standards and Eye Testing Procedures for Civil Airmen, Sept. 1960	300
Tests of Kinesthetic Sensitivity in the Selection of Pilots, Progress Report	118	Visual and Orthopedic Defects in Civil Airmen	247
Tests of the "Ability To Take It"	17	Visual and Orthopedic Defects in Civil Airmen, and Civil Aeronautics and Civil Medical Examiners Forum	248
Therapy with Thrombolytic Agents	470	Visual Deficiency and Flying Experience Following Flight Training	100
Third Annual Medical Officers' Conference August 24-26, 1949	144	Visual Deficiency and Flying Experience Following Flight Training--A Follow-Up Study of Student Pilots Who Participated in the Visual Study	249
Time Factors in Passenger Utilization of Emergency Oxygen, A Preliminary Report	273	The Visual Perception of Size and Distance	362
The Time Zone Fatigue Syndrome	346	The Visual Perception of Size and Distance	442
I. Times Available for Protective Measures in Emergencies at High Altitude. II. Protection of Passengers and Air Crew from Blast Effects of Explosive Decompression	240	The Visual Perception of Spatial Extent	389
Times for Launching Military Life Rafts Manually from the C-121 and C-54 Airplanes	241	Visual Perception of Spatial Extent	443
Tolerance of Men Breathing Air at Various Barometric Pressures	242	Who's On First?	301
Toxic Fumes and Aviation	144	Wiley Post's Aerospace Achievements	444
Toxic Gases and Aviation	243	Windshield Visibility Clearance	274
Toxic Gases and Civil Aircraft	244	Work Capacity and Its Limiting Factors at High Altitude	445
Toxic Hazards in Aerial Application	355		
Toxic Hazards in Air Transport Operations	245		

Work Tolerance: Age and Altitude

402

Work Tolerance: Age and Altitude

446

Working Group Report on Evaluation of  
Emergency Exit Provisions in Relation  
to Type and Location of Exits

250



PERSONAL AUTHOR INDEX

Adams, T.	392 394	Brimhall, D. R.	7 8 9 32	Daugherty, J. W.	357 373 436
Albers, W. R.	284 314 323		83 111	Davis, H.	19
Alexander, S. J.	72	Britton, J. H.	291 292 293 302	Davis, M.	488
Ardam, I. H.	473			Davis, P. A.	19
Ashe, W. F.	333 495	Bromer, J.	16	De Haven, H.	129 217
Backstrom, O., Jr.	29 61	Bruyere, P. T.	158	De Leon, A. C.	489
Balkan, D.	73 75 77 81 100	Bryan, S.	185 216 227	Dellinger	207
Balke, B.	353 375 381 387 403 412 415 425 432 445 446	Buxton, C. E.	35 50 51 59 70	Dill, D. B.	402 446
		Capps, M. J.	369	Dille, J. R.	359 371 390 393 396 437
Barron, C. I.	493	Carlson, W. S.	20	Dockeray, F. C.	81
Bellows, R. M.	110	Carpousis, A.	322	Dorcus, R. M.	11
Bennett, S. W.	62	Chambers, R. M.	345	Duncan, F.	399
Berer, J.	474 475	Channell, R. C.	40 42	Dunlap, J. W.	17 39 48 56
Berry, C. A.	290	Chapple, E. D.	87 88	Earley, J. C.	354
Billings, C. E.	495	Cherry, J. C.	190 319	Edgerton, H. A.	53 107
Birren, J. E.	164 447	Cobb, B. B.	349 350 400	Emerson, T. E., Jr.	370 385 401 408
Blaine, L.	31	Cobb, S.	87 88	Ericksen, S. C.	101
Blockley, W. V.	497 498	Collins, W. E.	364 369 372 382 383 398 413 423 439	Estes, H. D.	277 303 310 311 320 342
Boom, H. B. K.	503			Evans, J. M.	131
Boots, M. L.	27 38 104	Crane, C. R.	396	Ewart, E. S.	12 13 26 62 69 73 75 100
Brabets, R. I.	476	Crane, J. E.	327 346	Feinberg, R.	459 464
Brake, C. M.	365 370 385 391 401 408	Crosbie, R. J.	345		
		Culver, J. F.	359		
Brazier, M. A. B.	87	Cutting, W. C.	306		

Festinger, L.	54	Hall, M. V.	134	Johnson, G. R.	272
	55	Hanes, L. F.	499	Johnson, H. M.	27
	64	Hanifan, D. T.	497		38
	65				104
Finesinger, J. E.	87	Harper, C. R.	321	Josenhans, W. K. T.	462
	88		323		
Foley, J. P.	33		340	Kane, C. L.	501
	113	Hart, W. M.	478	Kellogg, W. N.	119
Forbes, A.	19	Hasbrook, A. H.	136	Kelly, E. L.	12
Fowler, P. R.	377		354		13
Fox, S. M., III	468		356		24
			360		28
Franzen, R.	7		422		33
	8	Hauty, G. T.	437		105
	9				108
	18		297		116
	31		419	Kendall, W. W.	394
	32		424		
	43		431	King, B. G.	120
	44		435		122
	47	Hawkes, G. R.	358		123
	63		363		124
	83	Hawkins, W. R.	290		125
Freis, E.	488				126
Freud, S. L.	339	Helminck, J. S.	72		127
Frey, M. B.	453	Henson, M.	165		128
Funkhouser, G. E.	394	Herbolsheimer, A. J.	137		132
			212		139
Ganslen, R. V.	381	Higgins, E. A.	392		147
	403				155
	412	Hill, C. J., Jr.	71		157
			72		158
Garner, J. D.	348	Hinshaw, L. B.	365		160
	356		370		161
	421		385		163
	430		391		164
Geldard, F. A.	34		395		165
			401		167
Gilford, D. M.	247		408		168
	248	Hitchcock, F. A.	257		169
					170
Gilmore, B.	488	Holmes, D. D.	395		173
Goddard, J. L.	275	Hosea, H. R.	483		174
	280	Houk, V. N.	450		175
	283				177
	289	Hsu, I.	131		180
	309	Hufnagel, C. A.	450		182
	320				187
Gogel, W. C.	362	Hunt, T.	33		194
	379		114		197
	389	Iampietro, P. F.	352		200
	397		365		202
	442		392		205
	443		417		206
Goldman, R. F.	352				214
					219
Gordon, T.	79				220
	91	Ice, J.	399		221
					222
Green, C. D.	434	Jaffe, L. S.	310		223
			311		224
Greenbaum, L. J.	134		342		240
Gregg, P. G.	465	Jeffress, L. A.	376		241
Guggenheimer, H. R.	136	Jenkins, J. G.	41	Knowlan, D. M.	454
			60		460
Haddon, W.	275	Johnson, B. E.	98		473
	280				

Kogan, L. S.	48 56 64	Macri, S.	129	Otto, W.	300
Komhyr, W. D.	317	Mandes, J. C.	171	Page, B. B.	391
Kontz, C. E.	182	Marrazzo, R. M.	305	Pairn, J. T.	136
Korty, P.	357 373 436	Melton, A. W.	50 51 59 82	Parmenter, R.	112
Kot, P. A.	454	Melton, C. E., Jr.	374	Pearson, R. G.	404 411 418 441
Kraft, M. A.	479 480 481 482 484 485	Miles, W. R.	30	Peckham, R. D.	478
Kydd, G. H.	261	Miller, W. H.	2 3	Pendergrass, G. E.	313 396
Lacey, D. E.	257 373 436	Mochizuki, M.	93	Perloff, J. K.	489
Lagerwerff, J. M.	501	Mohler, S. R.	330 336 351 367 371 407 409 410 414 416 444	Perry, R. B.	448
Larson, L. A.	23	Morrow, D. J.	144 155 271	Pinkerson, A. L.	454
Lategola, M. T.	380	Moser, K. M.	448 450 452 453 457 465 467 470	Pipberger, H.	486
Lazarsfeld, P. F.	18	Muehlen, F. H.	483	Platt, P. C.	196
Leamer, B. V.	500	Nagay, J. A.	89 94 95 97 99	Podolak, E.	459
Lederer, L. G.	171	Nagle, F. J.	381 403 412	Preston, H. O.	78
Lepley, W.	33 118	Nance, R. D.	35	Raeke, J. W.	368
Lewis, D.	14	Naughton, J.	425 432	Ragland, S.	345
Lindsley, D. B.	46	Newton, J. L.	402	Razran, G.	1
Lopez, C. O.	278	Newton, N. L.	359	Reighard, H. L.	276 287 308 319
Low, F. N.	74	Noordergraaf, A.	503	Reins, D. A.	395
Lowenstein, I. E.	464	O'Connor, J. F.	291	Rhodes, P. G.	467
Lowenstein, O.	464	O'Connor, W.	418	Richardson, M. C.	168 174
Luchsinger, P. C.	448 487	Odbert, H. S.	26 55 64 65	Ritchie, M. L.	499
Lyne, P. J.	377	O'Doherty, D. S.	451	Roberts, L. B.	333
McCormick, M. Y.	138	Ostrich, R.	133 168 192 229	Robinson, S.	402 446
McFadden, E. B.	260 266 273 330 368 378 421 430 438			Rodahl, K.	492
McFarland, R. A.	4 40 42 44 47 150			Rodgers, R. S.	26
McKay, W.	41			Rogers, R. C.	24 43
McKenzie, J. M.	377			Roscoe, S. N.	90 98
MacMillan, J. W.	60			Rosenbaum, R.	228 229
				Ruby, A. P.	169 170
				Rulon, P. J.	80 85 92 96
				Russell, D. L.	71
				Scarborough, W. R.	462 468

Seipel, J. H.	451 461 471 472	Steinkamp, G. R.	290 296 297 318	Tiffin, J.	16
Sevelius, G.	432	Stovall, W. R.	141 142 149 176 178 179 183 189 195 203 204 225 230 246 247 248	Tinker, M. A.	20 117
Siegel, P. V.	304 336			Tobias, J. V.	369 376 386 <del>388</del>
Simmons, M. C.	320			Tourin, B.	129
Slavin, J. G.	210			Townsend, C. A.	264 265
Smith, J. E.	131 135 145 153 162 166 171 185 215 216 227 228 229 238 276 279 281 282	Sutro, P. J.	163 221 258 261 262 263 264 265 267 268 269 270 274	Trites, D. K.	347 350 400 <del>418</del> 433
Smith, J. F.	98			Huttle, A. D.	66
Smith, P. W.	355 393 426	Swearingen, J. J.	144 158 219 220 <del>240</del> 251 252 253 254 255 256 259 260 266 271 272 330 348 351 360 361 378 421 422 430 438	van Brummelen, A.G.W.	462
Snow, C. C.	356			Van de Water, M.	111
Snyder, R. G.	360 366 384 399 406 420 422			Vaughn, K. W.	96
				Vendouw, P. D.	503
Sollami, B. J.	477			Viteles, M. S.	21 26 29 37 41 43 52 61 69 109
Spealman, C. R.	130 144 156 181 184 186 188 190 191 205 243 244 245			Vitol, J.	182
				Vollmer, E. P.	164
Spence, K. W.	35 50 51 59 70	Talbot, S. A.	490 491	Walker, R. Y.	26 53 62 73 75 77 107 159 207 208
				Wantman, M. J.	39 48 56
Spieth, W.	447 449 466	Tang, P. C.	390 434	Wapner, S.	54 55 64 65 73 75 77
		Taylor, C.	63	Warbasse, J. R.	468
Starr, W. G.	192	Taylor, J. H.	72	Ward, H. O.	262 263 264 265
Stavinoha, W. B.	440	Thomas, S. A.	211	Weinmann, R. A.	473
		Thompson, A. S.	21 26 29 37 69		



Wendt, G. R.	46	Whitehead, H. G., Jr.	291	Wolff, G.	218
	66				
	71	Wick, R. L.	324	Young, J. W.	368
	72		326		
	103		329	Ziemnowics, S. A.	451
	111		331		
			332		
			333		
Wentz, A. E.	455		335		
	458		337		
	469		338		
	471		341		
	472		343		
			344		
Wernick, J. S.	388	Wilbur, C. E.	294		
			299		
Wheelwright, C. D.	266		319		
	348				
Wherry, R. J.	24	Williams, A. C., Jr.	60		
	38		90		
	115		106		
White, M. S.	325	Witkin, H. A.	86		
	334				

NOTES

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