A CUMULATIVE INDEX
TO THE 1976 ISSUES OF
A CONTINUING BIBLIOGRAPHY ON
AEROSPACE MEDICINE
AND BIOLOGY
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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SPECIAL NOTICE

The abstract sections of the monthly supplements of *Aerospace Medicine and Biology* can be bound separately. Individual abstracts can be located readily by means of the page numbers given at each entry, e.g., p0255 N76-27815. To assist the user in binding Supplements SP-7011(151)through SP-7011(162), a title page is included in the back of this Cumulative Index.
This Cumulative Index supersedes the indexes contained in supplements [SP-7011 (151) through SP-7011 (162)], published by NASA during 1976.
This Index is available from the National Technical Information Service (NTIS), Springfield, Virginia 22161 for $9.00 domestic; $18.00 foreign.
INTRODUCTION

WHAT THIS CUMULATIVE INDEX IS

This publication is a cumulative index to the abstracts contained in NASA SP-7011(151) through NASA SP-7011(162) of Aerospace Medicine and Biology: A Continuing Bibliography, NASA SP-7011, by means of supplements, serves as a current abstracting and announcement journal for references on bioscience and biotechnology. It has been compiled through the cooperative efforts of the American Institute of Aeronautics and Astronautics (AIAA), and the National Aeronautics and Space Administration (NASA). Entries prepared by the two contributing organizations are identified as follows:

1. NASA entries by their STAR accession numbers (N76-10000 series)
2. AIAA entries by their IAA accession numbers (A76-10000 series)

HOW THIS CUMULATIVE INDEX IS ORGANIZED

This Cumulative Index includes a subject index, a personal author index, and a corporate source index.

HOW TO USE THE SUBJECT INDEX

Two types of cross-references appear in the subject index:

1. Use (U) references indicate that the subject term is not "postable," i.e., not a valid term, and that the following term or terms are used instead. For example:

   DOSE
   U DOSAGE

   AIRLINERS
   U COMMERCIAL AIRCRAFT
   U PASSENGER AIRCRAFT

2. Narrower Term (NT) references refer the user to more specific headings in the same subject area, under which additional material on the subject may be found. For example:

   FATIGUE (BIOLOGY)
   NT AUDITORY FATIGUE
   NT FLIGHT FATIGUE
   NT MUSCULAR FATIGUE

In addition, a searcher may use the title or title and title extension in the index to narrow further his quest for particular items, this is because subject terms can readily include more than one class of document. For example:

   BIOLOGICAL EFFECT
   Vibratory force effect upon biological systems, particularly human organism.
   Biological effect of cosmic and solar radiations on human body at high altitudes.

illustrates a case where two references on different topics are listed under the same subject term.
HOW TO USE THE PERSONAL AUTHOR INDEX

All personal authors used in the abstract-section citations in the individual Supplements appear in the index. Differences in translation schemes may require multiple searching of the index for variants of an author's name. For example:

EMELIANOV, M. D.
and
YEMELYANOV, M. D.

HOW TO USE THE CORPORATE SOURCE INDEX

The corporate source index entries are abridged versions of the corporate sources used in the abstract-section citations in the individual Supplements. The corporate source supplementary (organizational component) does not appear in the index. For example:

NEW MEXICO STATE UNIV., LAS CRUCES. DEPT. OF BIOLOGY. (Source citation entry)
NEW MEXICO STATE UNIV., LAS CRUCES. (Source index entry)

IDENTIFICATION OF DESIRED SUPPLEMENT

The abstract and descriptive cataloging for any accession number selected from the indexes may be found in the appropriate Supplement. The page-number range of each Supplement appears on the inside front cover of this index. Once the range of page numbers containing the selected accession number is located in the second column, the desired Supplement number will be found in the first column. For example:

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AVAILABILITY OF DOCUMENTS

Information concerning the availability of documents announced in Aerospace Medicine and Biology supplements is found in the Introduction to the most currently issued monthly supplement.
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The title is used to provide a description of the subject matter. When the title is insufficiently descriptive of the document content, a title extension is added, separated from the title by three hyphens. The NASA or AIAA accession number is included in each entry to assist the user in locating the abstract in the abstract section of this supplement. If applicable, a report number is also included as an aid in identifying the document.

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Design of an experimental apparatus for the study of capillary hemodynamics.

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[NASA-CR-137795] p0132 N76-18788

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U FLOW VELOCITY

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HT HYDRAULIC DRAG

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FLOW THEORY

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FLOW VELOCITY

On the procedure of noninvasive evaluation of blood flow rate.

Transmural quantitative measurement of blood flow.

[PB-246822/1] p0159 N76-20811

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HT HYDROMETERS

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Pathological-anatomical studies involving vascular stenoses.

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HYDRAULIC DYNAMICS

HYDRODYNAMICS

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[AD-A00216] p0287 N76-29919

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HT LUMINANCE

HT NEUTRON FLUX DENSITY

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FOSSIL HETEORITE CRATERS

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Rod-shaped food for high-altitude feeding

INfluences of food and exercise on endocrine functions

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Maximum forces exerted by men in the zone of movement of the arms and legs

Maximum forces exerted by men in the zone of movement of the arms and legs

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U FORCED VIBRATION

FORCED VIBRATION

Cross-modality determination of the subjective growth function for whole-body vertical, sinusoidal, vibration

A new method to determine frequency characteristics of the respiratory system

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U FORCED VIBRATION

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U FOSSILS

FOSSILS

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Nonrelevance of biochemical fossils in kerogen from pre-Phanerozoic sediments

Microfossils in Conophyton from the Soviet Onion

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Are the oldest 'fossils', fossils

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Velocity-time reciprocity in the perception of motion - Foveal and peripheral determinations

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Maximum carbon isotope fractionation in photosynthesis by blue-green algae and a green alga

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Nitrogen exchange across the lungs in resting man. Flying Personnel Research Committee
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RT FLOW
GAS LASERS
RT CARBON DIOXIDE LASERS
GAS LIQUID EQUATION
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Changes in hemodynamic indices under conditions of hemorrhage induced by transfusion of blood substitutes and after acute hemorrhage

Cardiac pathology associated with high sustained G/zt. I - Subendocardial hemorrhage

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Hemostatics

Fibrinolytic and hemostatic changes during and after maximal exercise in males

Verification of hemostasis disorders in air force personnel

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NT ACETOSALAMIDS
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NT ADENOSINE TRIPHOSPHATE
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NT ATPS
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Questionnaire theory: Modelling of the pilot's mental load [ONERA-MT-230]

Hibernation

Stress, temperature, heart rate, and hibernating factors in hamsters -- pathological conditions resulting from exposure to zero gravity [NASA-CR-146665]

Hierarchies

Hierarchical level and leadership style: On the resolution of a contradiction [AD-A013353]

High Altitude

Sustained venoconstriction in man supplemented with CO2 at high altitude [AD-A019119]

High Altitude Breathing

Sustained venoconstriction in man supplemented with CO2 at high altitude

Intracardial bubbles during decompression to altitude in relation to decompression sickness in man

Circulatory response to acute hypobaric hypoxia in conscious dogs

Limiting factors to oxygen transport on Mount Everest

Relative role of environmental and genetic factors in respiratory adaptation to high altitude

Interface characteristics of oxygen regulators

Hypoxia - Acceptable limits and its prevention

Seat-mounted oxygen regulator systems

Respiratory, circulatory, and ECG changes during acute exposure to high altitude

Mechanical activity of the papillary muscles in the heart of a rat under high-altitude conditions

High Altitude Environments

Effect of altitude exposure on platelets

Changes in the single-breath nitrogen washout curve on exposure to 17,600 ft

Biochemical aspects of acclimatization of man to high altitude stress

Effect of active acclimation to Pamir Highlands on endurance of physical loads

High altitude, indigenous origin, and continuous cardiac monitoring

Depressed myocardial function in the goat at high altitude

Intravascular bubbles associated with intravenous injections and altitude

Some hemodynamic indices at high altitude at rest and after intense physical exercise [NASA-TP-F-16639]

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High Altitude Tests

Variations in psychomotor efficiency during prolonged stay at high altitude

Ethnic variations in psychological performance under altitude stress

High Energy Interactions


The biological effects of high-energy radiation

High Frequencies

Determination of power absorption in man exposed to high frequency electromagnetic fields by thermographic measurements on scale model

Neural coding of high-frequency tones [NASA-TP-F-13764]

High Gravity (Acceleration)

U High Gravity Environments

High Gravity Environments

Changes in Clinical Cardiologic Measurements associated with high +G/zt. stress

Hypogastric effects on normal and avulsed developing avian radii

Accumulative effects of 2 weeks' exposure to a 2-G hypergravity state and estrogen treatment upon intact and fractured radii of young female birds

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High Pressure

Effects of very high pressure on organic and biological systems

Biological indices of stress [AD-A012490]

The influence of increased nitrogen tensions on properties of identified neurons in Aplysia Californica [AD-A013272]

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Work capacity and cardiovascular adjustments of non-diving mammals in hyperbaric environment

The ventilatory apparatus under water and in compressed gas environments: Abstracts of translated studies

The effect of hyperbaric oxygen and helium on virus replication and host pathology

Cardiac output and its distribution under hypersonic conditions

HIGH PRESSURE OXYGEN

Electrochemical oxygen concentrator as an oxygen compressor

Effects of long term hyperbaric oxygen exposure on lung tissue: An ultrastructural evaluation

HIGH SPEED

Vision from a moving car (no.1)

HIGH SPEED FLIGHT

HIGH SPEED TRANSPORTATION

HIGH VOLTAGES

Biological effects of high voltage electric fields: State-of-the-art review and program plan

Biological effects of high voltage electric fields: Bibliography and survey of ongoing work, 1975

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H INDUSTRY

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Hippocampus

Signal dispersion within a hippocampal neural network

Neural activity of the hippocampus in certain types of behavior

Effect of low-frequency electrical stimulation of the caudate nucleus on the cortical electrical activity and the wakefulness-sleep cycle

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Anatomical configuration of the His bundle and bundle branches in the human heart

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Histamine H2 receptor - Involvement in gastric ulceration

HISTOLOGY

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Pathology of the peripheral vestibular system in the human

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Thermal homostasis in rats after intrahypothalamic injections of 6-hydroxydopamine

Humoral-hormonal mechanisms of adaptation of the human organism to athletic activity

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Effect of noradrenaline on the central control of thermoregulation associated with temperature adaptation

The gastrin antibody /IgG/ in the blood of healthy humans and animals

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Metabolic and endocrine studies - The second manned Skylab mission

Effects of changing levels of glucocorticosteroids on heat exposure in rabbit

Prolactin, thyrotropin, and growth hormone release during stress associated with parachute jumping

Role of thyroid and adrenal medulla hormones in thermoregulation reactions

Functional state of adrenal cortex of rats after cooling in the hermetically sealed chamber and during adaptation to cooling

Changes in glucose, insulin, and growth hormone levels associated with bedrest

Physiology of emotion --- Russian book

Metabolic and hormonal mechanisms of mineral, metabolic adaptation to induced hypokinetics in rats

Biological rhythms and endocrine function --- Book

Sympathetic neural control of indoleamine metabolism in the rat pineal gland

Humoral-hormonal mechanisms of adaptation of the human organism to athletic activity

Metabolic effects of prolonged restriction of physical activity in rats

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H SURGICAL EXHAUST

H JET EXHAUST

H HELICOPTER

H G/ Helicopter

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H MILITARY AIRCRAFT

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Intellectual and perceptual mental factors
Psychophysiological investigation of group interaction
Dynamic behaviour of man in case of difficult controlled elements and determinisitic disturbances
Behavioral data in the design of aircrew training devices
Behavioral taxonomy of undergraduate pilot training tasks and skills
Motivational problems in candidate pilots
Notes on flight-related psychosyndromes in particular phobic syndromes
Physiology of emotion — Russian book
Neurophysiological approach to the analysis of behavior in a species — Russian book
Conditioned reflex as a technique for studying complex forms of motivation in man
Correlation of characteristics or perceptive activity in emotion-evoking situations of different types and some personality traits
Short-term and long term memory — Validity of division and organization in time
The skin galvanic response as an indicator of changes in psychic state
The effect of writing and reading habits and of handedness on the asymmetry of visual perception
The theoretical and experimental analysis of retractive and morphical inhibition
Effects on the information processing capacity which are obtained by taking into account the subjective organization
Attitudes on en route air traffic control training and work: A comparison of recruits initially trained at the FAA academy and recruits initially trained at assigned centers
Hierarchical level and leadership style: On the resolution of a contradiction
Biological correlates of cognitive, sensory and motor abilities
A model of human cognitive behavior in writing code for computer programs, volume 1
Behavioral enhancement
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Physiologic responses to water immersion in man: A compendium of research
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Effects of alteration of spatial frequency content of complex scenes on human visual scan patterns

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Comparative analysis of biological rhythms in the human electroencephalogram
Physiological effects of noise — human reactions of human body
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Nitrogen exchange across the lungs in resting man
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Development of an improved computer model of the human body and extremity dynamics
Zero liquid carryover whole-body shower vortex liquid/gas separator
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Effect of information feedback upon intertrial consistency of time judgment
Effect of background constraint on visual search times
Gradient detection and contrast transfer by the human eye
An experimental study of geometric properties of the visual space
Pursuit eye movements and visual localization
Stimulus density limits the useful field of view
Imagery, affective arousal and memory consolidation
Seven design methods for psychophysiological variables
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Effects of colored lenses on visual performance
The effects of extended missions on the performance of airborne command and control teams
Human force capabilities for operating aircraft controls at 1, 3, and 5 Gz
Laboratory assessment of the AB/PFS-5 night vision goggle --- for infrared reconnaissance
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The effects of similarity and dissimilarity on group performance
Adaptive modifications in the thermoregulatory system of long-distance runners

Effect of active acclimation to Pamir Highlands on endurance and physical loads

Effect of altitude adaptation on human tolerance to some disturbing factors — acute hypoxia, physical and orthostatic loads

Injury criteria and human tolerance for the neck

Standardization and interpretation of spinal injury criteria and human impact acceleration tolerance

On quantizing ride comfort and allowable accelerations

Mathematical model of man's tolerance to cold using morphological factors

Long-duration exposure to intermittent noises

Alterations on orthostatic tolerance after myocardial infarction and in congestive heart failure

Individual differences in human annoyance response to noise

Special analysis of community annoyance with aircraft noise reported by residents in the vicinity of JFK Airport, 1972

TTS in man from a 24-hour exposure to an octave band of noise centered at 4 kHz — noise thresholds, human tolerances to sound waves

Studies of asymptotic TTS — noise threshold — human tolerances to noise hazards (industrial safety)

Asymptotic behavior of temporary threshold shift during exposure to long duration noises — for flying personnel

Effects of noise exposure — human tolerances and human reactions to noise pollution

Mechanisms of adaptation of the organism to high-altitude hypoxia and the problem of prophylaxis

A comprehensive analysis of head and neck dynamics arising from impact and inertia forces

Review of studies investigating human response to commercial aircraft noise

Temperature regulation training in a cooling environment

Prolonged linear and radial accelerations

Impact accelerations

Noise and vibration

Long-wavelength analysis of electromagnetic power absorption by prolate spheroidal and ellipsoidal models of man

Measurements of the temperature profiles in the forearm skin of a nude resting subject exposed to a range of thermally neutral environments

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Evaluation of technology for spacecraft water-waste processing systems

Shuttle era waste management and biowaste monitoring

Waste management system

Epidemiological risk factors of flush-recycle toilets in aircraft

Automatic biowaste sampling

Modular biowaste monitoring system

Modular biowaste monitoring system conceptual design

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Acclimatization in a hot, humid environment — energy exchange, body temperature, and sweating

Acclimatization in a hot, humid environment — Cardiovascular adjustments

Acclimatization in a hot, humid environment — Body fluid adjustments

A prototype carbon dioxide and humidity control system for Shuttle mission extension capability

A multiple chamber humidity apparatus

Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment — spacecraft cabin atmospheres

Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment — spacecraft cabin atmospheres

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Status report on electronic identification

HYBRID COMPUTERS

Remote real-time parallel acquisition and analysis of noninvasive cardiac parameters using hybrid computer system

Medical applications — of hybrid computer controlled CRT display system

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Reduction of pulsatile hydraulic power in the pulmonary circulation caused by moderate vasoconstriction

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Effects of monomethylhydrazine on red blood cell metabolism

The effects of 6-month chronic low level inhalation exposures to hydrazine on animals

Recent advances in the toxicology of N-nitroso and hydrazine compounds

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New jet engine fuels

Cardiophysiological studies with stressed animals

HYDROCARBON POISONING

Effects of monomethylhydrazine on red blood cell metabolism

HYDROCARBONS

MT ALKANES

MT CICLICINC

MT NITROGEN

MT NITROGEN

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Participation of microorganisms oxidizing gaseous hydrocarbons in the biospheric carbon cycle

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Cyanogenic compounds in nature and their possible significance concerning the origin of life

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Toxicity of solid rocket motor exhaust — Effects

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- Hydrogen Peroxide
- Hydrogen Cyanides
- Hydrogen Fluorides
- Hydrogen Iodides

Hydrogen Isotopes
- Hydrogen Deuterium
- Hydrogen Tritium

Hydrogen-Based Energy
- Solar energy utilization in photosynthesis

Hydrogenomerons
- Microorganisms as producers of hydrogen

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Hydrology
- Studies on human urinary arylamidases
- Analysis of the substrate specificity of cathepsins B1 and B2 including a new fluorogenic substrate for cathepsin B1
- Therodynamic properties of polyphosphoinositides in the brain
- Cyanogen induced phosphorylation of D-fructose

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- Signal transformation by the semicircular canals of the vestibular apparatus

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- Assessment of tolerance limits in subjects tested on human centrifuge

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Hyperbaric Chambers
- Reaction of erythrocytes and granulocytes in the peripheral blood of rats to hyperbaric oxygenation during oxygen deficiency in the organism

Application of hyperbaric oxygen therapy to cases of prolonged cerebral hypoxia following rapid decompression

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- Central ventilatory responses to O2 and CO2 at three levels of carotid chemoreceptor stimulation

Effects of hypercapnia on mouth pressure during airflow occlusion in conscious man

Effects of hypercapnia and flow-resistive loading on tracheal pressure during airflow occlusion

Vascular responses to short-ter systemic hypoxia, hypercapnia, and asphyxia in the cat

Blood flow and relative tissue PO2 of brain and muscle - Effect of various gas mixtures

Local regulation of collateral ventilation by oxygen and carbon dioxide

Functional state of the pancreas under the joint influence of hypoxia, hypercapnia, and cooling

Threshold temperatures for shivering in acute and chronic hypercapnia

Pattern of breathing during hypoxia or hypercapnia of the awake or anesthetized cat

Respiratory frequency control during hypercapnia in vagotomized, anesthetized cats

Gas exchange during hypercapnia under conditions of different oxygen content

Body fluid distribution in acute hypercapnia - (body measurement (biology) using radioactive isotopes)

Hyperglycemia
- The effect of 2-deoxy-D-glucose and D-glucose on the effluent discharge rate of sympathetic nerves

Hyperosmia
- Effects of 100% oxygen on cell division in lung alveoli of squirrel monkeys
Method for estimating degree of hyperoxia in an experiment

Histopathological pulmonary changes occurring in rats with prolonged exposure to 100 per cent oxygen at one atmosphere. I

Effect of dietary 'antioxidant' supplementation on the susceptibility to oxygen toxicity in mice

Associations between psychological factors and pulmonary toxicity during intermittent oxygen breathing at 2 ATA

Effect of oxygen on lipid composition and triglyceride-lipase activity in lung tissue

Functional changes of hypothalamic neurosecretory centers after hyperbaric oxygenation

Ventilatory response to CO2 at rest and during exercise in normal and hyperoxic rats

The influence of C5F4 and magnesium on the ventilatory response to carbon dioxide during hyperoxia

Oxygen and trauma: Studies on pulmonary oxygen poisoning and the role of oxygen in repair processes

Effects of oxygen and reduced glutathione on the oxygen consumption of mouse liver

Antidote effects of atropine, toxogonin, SAD 128 and isoprenaline in rats poisoned with paraoxon

Effects of long term hyperoxic oxygen exposure on lung tissue: An ultrastructural evaluation

Hypoxemia

Posthyperventilation isocapnic hyperpnea

Role of the carotid chemoreceptors in the hypopnea of exercise in the cat

Hypertension

Reflex limb dilatation following noradrenaline and angiotensin II in conscious dogs

Hypertension -- pilot fitness

Arterial pressure contour analysis for estimating human vascular properties

Sjogren arrhythmia and heart rate in hypertensive disease

A study of comparative blood pressure measures in predicting risk of coronary heart disease

Structure of hemodynamic shifts during hypoxic hypoxia in dogs with experimental arterial hypertension

In vitro contractility of the hypertrophied right ventricle of rats with pulmonary hypertension due to confinement in 'hypoxic cage'

Orthogonal electrocardiograms, apex cardiograms, and atrial sound in normotensive and hypertensive 50-year-old men

Neurophysiology of the carotid sinus receptors in normal and hypertensive animals and man

Effects remaining after withdrawal of long-term beta-receptor blockade -- Reduced heart rate and altered haemodynamic response to acute propranolol administration

Ocular hypertension and chronic open-angle glaucoma in USSP pilots and navigators

Neurophysiological mechanisms of arterial hypertension in experimental emotional stress

The mechanism of selective lesions to the cardiovascular system in psychoemotional stress

Hypertension

Heart metabolism in man under various degrees of body overheating

Critical remarks on the theory of 'set-point' in thermoregulation

Head and neck cooling by air, water, or air plus water in hyperthermia

Ion-osmotic hyperthermia during exercise in dogs

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Cellular viability, metabolism and growth kinetics during hyperthermia in the physiological range

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Hyperventilation

Some standard characteristics of 'electroencephalographic response to hyperventilation' from data on frequency and correlation analysis

Effects of hypocapnia and hypocapnic alkalosis on cardiovascular function

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Absorption, metabolism and excretion of hypnotic drugs

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Neutological alterations and response to acute hypobaric stress

Depressed myocardial function in the goat at high altitude

Incidence of decompression sickness in Navy low-pressure chamber

Report on computation of repetitive hyperbaric-hypobaric decompression tables

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Sustained venoconstriction in man supplemented with CO2 at high altitude

Effects of hypocapnia and hypocapnic alkalosis on cardiovascular function

Local regulation of collateral ventilation by oxygen and carbon dioxide

Hypodinamia

Erythropoietic properties of the plasma in hypodinamia
Mineral metabolic adaptation to simulated hypogravics
Dynamics of sleep patterns during prolonged simulated hypogravics
Effect of long-term hypodynia and hypokinesia on the functional state and ultrastructure of striated muscles
Adaptation to prolonged bedrest in man: A compendium of research — bibliographies on clinical medicine and human pathology (NASA-TM-X-3307)
Evaluation of plasma hypokinesia (NASA-TT-F-17019)

Hypokinesia
Use of Sr-85 as an indicator of bone mineral replacement in dogs after disease demineralization
Effect of space flight factors on the mammal — Experimental-morphological study
LDH isoenzymes of skeletal muscles of rats after space flight and hypokinesia — Lactic Dehydrogenase
Metabolic and hormonal mechanisms of mineral metabolic adaptation to induced hypokinetics in rats
Effect of prolonged restriction of physical activity in rats
Effect of long-term hypodynia and hypokinesia on the functional state and ultrastructure of striated muscles
Space Biology and aerospace Medicine, volume 9, no. 4, 1975 — closed ecological systems, hypokinesia, acceleration tolerance, radiation protection (JCES-65988)
Changes in the content of free amino acids in the organs and tissues of rats under hypokinetic conditions
Effect of hypokinesia on the ventricular function under modified microclimate conditions
Effect of hypokinesia in an integrated experiment
Change in hemoglobin mass during prolonged hypokinesia
Body functions and metabolism during prolonged hypokinesia in an integrated experiment (NASA-TT-F-18682)
Physiologic responses to water immersion in man: A compendium of research (NASA-TM-X-3108)
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- Adaptation alters perceived direction of motion --- psychophysical vision experiments

- Configurational effects in visual information processing

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- The psychophysiological behavior of pilot trainees during their first flight missions and piloting fitness

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- Psychophysical efficiency of specialist personnel in military aviation following prolonged exposure to high-intensity noise

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- Differential adaptivity of the brain --- individual typological characteristics

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- Psychophysiological research on pilots' performance level when flooded by information of different kinds in different forms

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- Measuring the duration of perception --- judgment of transient visual stimuli

- Eye movements and psychological processes; Proceedings of the Symposium, Princeton, N.J., April 15-17, 1974

- Voluntary saccades, eye position, and perceived visual direction

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Eye movements and psychological processes; Proceedings of the Symposium, Princeton, N.J., April 15-17, 1974
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