

REVIEW OF NASA'S  
Longitudinal Study  
OF  
Astronaut Health

David E. Longnecker, Frederick J. Mearns,  
and Martin H. Work, Jr., Editors

Committee on the Longitudinal Study of Astronaut Health

Board on Health Sciences Policy

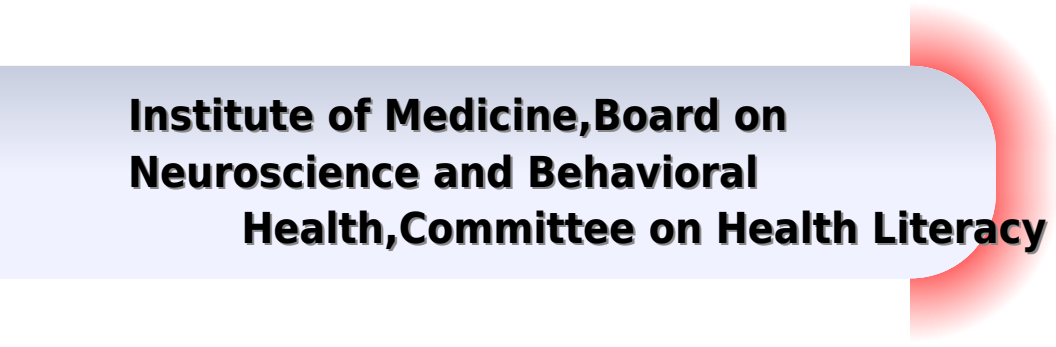
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# Review Of Nasas Longitudinal Study Of Astronaut Health

**Institute of Medicine, Board on  
Neuroscience and Behavioral  
Health, Committee on Health Literacy**



## **Review Of Nasas Longitudinal Study Of Astronaut Health:**

*Review of NASA's Longitudinal Study of Astronaut Health* Institute of Medicine, Board on Health Sciences Policy, Committee on the Longitudinal Study of Astronaut Health, 2004-05-27 As part of its ongoing commitment to the nation's space program NASA's medical leadership asked the Institute of Medicine IOM to review specific aspects of the scientific basis policies and procedures associated with the Longitudinal Study of Astronaut Health LSAH NASA created the LSAH in 1992 to address a variety of issues including both the health of astronauts during space flight and the longer term health issues that might be associated with space flight and flight training

**Review of NASA's Longitudinal Study of Astronaut Health** Committee on the Longitudinal Study of Astronaut Health, Board on Health Sciences Policy, Institute of Medicine, 2004-04-27 As part of its ongoing commitment to the nation's space program NASA's medical leadership asked the Institute of Medicine IOM to review specific aspects of the scientific basis policies and procedures associated with the Longitudinal Study of Astronaut Health LSAH NASA created the LSAH in 1992 to address a variety of issues including both the health of astronauts during space flight and the longer term health issues that might be associated with space flight and flight training

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**Review of NASA's Biomedical Research Program** National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Space Studies Board, Committee on Space Biology and Medicine, 2000-09-09 The 1998 Committee on Space Biology and Medicine CSBM report A Strategy for Research in Space Biology and Medicine in the New Century assessed the known and potential effects of spaceflight on biological systems in general and on human physiology behavior and performance in particular and recommended directions for research sponsored over the next decade by the National Aeronautics and Space Administration NASA The present follow up report reviews specifically the overall content of the biomedical research programs supported by NASA in order to assess the extent to which current programs are consistent with recommendations of the Strategy report for biomedical research activities In general NASA programs concerned with fundamental gravitational biology are not considered here The committee also notes that this report does not include an evaluation of NASA's response to the Strategy report which had only recently been released at the initiation of this study Review of NASA's Biomedical Research Program summarizes the committee's findings from its review of 1 NASA's biomedical research and 2 programmatic issues described in the Strategy report that are relevant to NASA's ability to implement research recommendations

**A Constrained Space Exploration**

**Technology Program** National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Committee to Review NASA's Exploration Technology Development Program, 2009-01-29 In January 2004 President George W Bush announced the Vision for Space Exploration VSE which instructed NASA to Extend human presence across the solar system starting with a human return to the Moon by the year 2020 in preparation for human exploration of Mars and other destinations among other objectives As acknowledged in the VSE significant technology development will be necessary to accomplish the goals it articulates NASA's Exploration Technology Development Program ETDP is designed to support develop and ultimately provide the necessary technologies to meet the goals of the VSE This book a review of the ETDP is broadly supportive of the intent and goals of the VSE and finds the ETDP is making progress towards the stated goals of technology development However the ETDP is operating within significant constraints which limit its ability to successfully accomplish those goals the still dynamic nature of the Constellation Program requirements the constraints imposed by a limited budget the aggressive time scale of early technology deliverables and the desire to fully employ the NASA workforce *Miller's Anesthesia, 2-Volume Set E-Book* Michael A. Gropper, Lars I. Eriksson, Lee A. Fleisher, Neal H. Cohen, Kate Leslie, Oluwaseun Johnson-Akeju, 2024-07-18 Selected for 2025 Doody's Core Titles with Essential Purchase designation in Anesthesiology Pain Medicine Offering up to date coverage of everything from historical and international perspectives to basic science and today's clinical practice Miller's Anesthesia 10th Edition remains the 1 reference and trusted learning resource for practitioners and trainees in this complex field Dr Michael Gropper leads a team of expert editors and contributing authors who provide current information on the technical scientific and clinical issues you face each day whether you're managing a challenging patient care situation preparing for the boards or studying for recertification Addresses timely topics alongside foundational basic science for an in depth and comprehensive understanding of the field Contains thoroughly up to date content including two new chapters The Immune System Implications for Anesthetic Management and Emergency Preparedness in Healthcare Provides new content in key areas such as sustainability global health equity the effect of anesthetics on immune function anesthesia for special populations coverage of infectious diseases including COVID 19 and occupational exposure and safety Offers state of the art coverage of anesthetic drugs guidelines for anesthetic practice and patient safety new techniques step by step instructions for patient management the unique needs of pediatric patients and much more all highlighted by more than 1 200 full color illustrations 300 new to this edition for enhanced visual clarity Includes 40 video clips demonstrating patient positioning ultrasound echocardiograms and other imaging and anesthetic procedures in real time [NCRP Report](#) National Council on Radiation Protection and Measurements, 1966 **Team Dynamics Over Time** Eduardo Salas, William B. Vessey, Lauren B. Landon, 2017-08-22 This volume focuses on the temporal adaptations of teams An increase in the use of teams has led to more team research throughout the fields of cognitive science human factors organizational psychology and behavioral

science This book serves as a resource to researchers who study teams managers who lead teams and those who work in teams

**The Meaning of Liberty Beyond Earth** Charles S. Cockell, 2014-09-24 The purpose of this book is to initiate a new discussion on liberty focusing on the infinite realms of space The discussion of the nature of liberty and what it means for a human to be free has occupied the minds of thinkers since the Enlightenment However without exception every one of these discussions has focused on the character of liberty on the Earth The emergence of human space exploration programs in the last 40 50 years raise a fundamental and new question what will be the future of liberty in space This book takes the discussion of liberty into the extraterrestrial environment In this book new questions will be addressed such as Can a person be free when the oxygen the individual breathes is the result of a manufacturing process controlled by someone else Will the interdependence required to survive in the extremities of the extraterrestrial environment destroy individualism What are the obligations of the individual to the extraterrestrial state How can we talk of extraterrestrial liberty when everyone is dependent on survival systems

*Review of NASA Plans for the International Space Station* National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Review of NASA Strategic Roadmaps: Space Station Panel, 2006-05-05 In January 2004 President Bush announced a new space policy directed at human and robotic exploration of space In June 2004 the President's Commission on Implementation of United States Space Exploration Policy issued a report recommending among other things that NASA ask the National Research Council NRC to reevaluate space science priorities to take advantage of the exploration vision Congress also directed the NRC to conduct a thorough review of the science NASA is proposing to undertake within the initiative In February 2005 the NRC released Science in NASA's Vision for Space Exploration the first report of the two studies undertaken to carry out these requests The second report focuses on NASA's plan for the ISS This report provides broad advice on programmatic issues that NASA is likely to face as it attempts to develop an updated ISS utilization plan It also presents an assessment of potentially important research and testbed activities that may have to be performed on the ISS to help ensure success of some exploration objectives

**Aerospace Health and Safety: Today and the Future** Irina Mordukhovich, Mardi A. Crane-Godreau, Eileen Mcneely, Christopher Scheibler, 2023-11-20 Aviation plays vital roles in commerce defense science and leisure travel Irrespective of the purpose of flight crew and passengers are challenged by exposure to a variety of environmental conditions that can differ widely from work and travel environments on the surface of the Earth With anticipated changes in aviation and space technology new challenges to health and safety of crew and passengers can be expected In this Research Topic we welcome contributions from those whose work and interests are relevant to the health and safety of crew and passengers This includes but is not limited to health and safety professionals FAA examiners corporate medical officers aerospace and occupational physicians physiologists military and scientific team members public health professionals as well as engineers who are tasked with crew and passenger health and safety design projects While 4 1 billion passengers fly on commercial

airlines annually and this figure is even higher when taking into account privately owned aircraft and military flight for the most part aviation is safe Passengers do arrive at their destinations with little concern to their own well being and flight is generally well tolerated However older flyers people with diagnosed or undiagnosed preexisting disease and other vulnerable passengers such as young children and pregnant women may be at risk of complications and crew may be at special risk due to the frequency and duration of their many flight related exposures Health and safety issues for crew and passengers include but are not limited to potentially severe circadian rhythm disruption potential health effects of low level cosmic ionizing radiation exposure at altitude reduced oxygen delivery and tissue hypoxia at cabin pressurization cabin air contamination by engine gases toxic materials used in uniforms and some cabin seat materials occupational noise pesticides used for cabin disinsection lack of adequate crew rest on layovers or between flights cardiovascular demands of flight and effects of flight related dehydration the current absence of screening protocols especially in the context of a rising number of elderly and vulnerable flyers lack of healthy nutrition at airports and in flight availability of food and hydration as well as adequate cabin temperature under delay conditions effects of alcohol use on flight related physiological and behavioral health risks anxiety and psychological distress associated with air travel the effects of long haul or ultra long haul flights on thromboembolic events as well as smoking cessation efforts and related psychological outcomes job related stress and harassment among crew Cosmic ionizing and non ionizing radiation exposure have drawn attention as have historic exposures of crew and passengers to second hand cigarette smoke The threat of political and interpersonal violence and altercations involving aviation cannot be overlooked On board medical emergencies run a wide gamut and the capacity to respond becomes more problematic as the duration of flights becomes longer or in the case of flight over oceans and the poles In addition in flight and post flight embolisms and myocardial infarctions are more prevalent than might be expected We hence encourage manuscripts that address in flight medical response including the capabilities on different types of aircraft on potential interventions by crew and medical volunteers In addition aviation as a vector for the carriage of disease is a significant concern to public health and security of populations world wide and we welcome submissions regarding infectious disease epidemiology and medicine as it relates to air travel Insects and occasional unplanned travel by birds and rodents can present additional public health concerns We are approaching an era where space travel may soon be increasingly common Future flights for near Earth orbit by leisure travelers and as well as travel to the moon and Mars raise a host of new questions with health and safety implications What are the proposed health and safety accommodations going to be Who will be allowed to travel Perhaps the most interesting question is who will make the rules

**Health Literacy**

Institute of Medicine, Board on Neuroscience and Behavioral Health, Committee on Health Literacy, 2004-07-29 To maintain their own health and the health of their families and communities consumers rely heavily on the health information that is available to them This information is at the core of the partnerships that patients and their families forge with today s

complex modern health systems This information may be provided in a variety of forms ranging from a discussion between a patient and a health care provider to a health promotion advertisement a consent form or one of many other forms of health communication common in our society Yet millions of Americans cannot understand or act upon this information To address this problem the field of health literacy brings together research and practice from diverse fields including education health services and social and cultural sciences and the many organizations whose actions can improve or impede health literacy Health Literacy Prescription to End Confusion examines the body of knowledge that applies to the field of health literacy and recommends actions to promote a health literate society By examining the extent of limited health literacy and the ways to improve it we can improve the health of individuals and populations

**Human Health and Performance Risks of Space Exploration Missions** Jancy C. McPhee, John B. Charles, United States. National Aeronautics and Space Administration, 2009

**NIH Extramural Center Programs** Institute of Medicine, Board on Health Sciences Policy, Committee for Assessment of NIH Centers of Excellence Programs, 2004-04-21 Grants for research centers located in universities medical centers and other nonprofit research institutions account for about 9 percent of the National Institutes of Health budget Centers are popular because they can bring visibility focus and increased resources to bear on specific diseases However congressional debate in 2001 over proposed legislation directing NIH to set up centers for muscular dystrophy research highlighted several areas of uncertainty about how to decide when centers are an appropriate research mechanism in specific cases The debate also highlighted a growing trend among patient advocacy groups to regard centers as a key element of every disease research program regardless of how much is known about the disease in question the availability of experienced researchers and other factors This book examines the criteria and procedures used in deciding whether to establish new specialized research centers It discusses the future role of centers in light of the growing trend of large scale research in biomedicine and it offers recommendations for improving the classification and tracking of center programs clarifying and improving the decision process and criteria for initiating center programs resolving the occasional disagreements over the appropriateness of centers and evaluating the performance of center programs more regularly and systematically

*Cord Blood* Institute of Medicine, Board on Health Sciences Policy, Committee on Establishing a National Cord Blood Stem Cell Bank Program, 2005-10-26 With the potential for self renewal and differentiation the possibilities for stem cells are enormous One specific type of stem cell the hematopoietic progenitor cell HPC which is derived from umbilical cord blood as well as adult bone marrow and mobilized peripheral blood holds particular promise To make the most of these HPCs the Institute of Medicine was asked to consider the optimal structure for a national cord blood program and to address pertinent issues related to maximizing the potential of stem cell technology Cord Blood Establishing a National Hematopoietic Stem Cell Bank Program examines The role of cord blood in stem cell transplantation The current status of blood banks already in existence The optimal structure for the cord blood program The current use and utility of cord blood for stem cell transplants The best

way to advance the use of cord blood units and make them available for research Expert advice from leaders in the fields of economics public health medicine and biostatistics combine to make this very timely and topical book useful to a number of stakeholders

*A Risk Reduction Strategy for Human Exploration of Space* National Research Council, Institute of Medicine, Aeronautics and Space Engineering Board, Space Studies Board, Board on Health Sciences Policy, Committee on Review of NASA's Bioastronautics Roadmap, 2006-03-16 Extending the spatial and temporal boundaries of human space flight is an important goal for the nation and for the National Aeronautics and Space Administration NASA However human space flight remains an endeavor with substantial risks and these risks must be identified managed and mitigated appropriately to achieve the nation's goals in space The Bioastronautics Roadmap BR is the result of extensive commendable efforts on the part of NASA to prioritize research efforts to meet these challenges In 2003 NASA asked the Institute of Medicine IOM in collaboration with the Division on Engineering and Physical Sciences of the National Academies to conduct a review of the BR Specifically NASA asked the committee to 1 conduct a comprehensive assessment and report of the strengths and weaknesses of the content and processes of the Bioastronautics Roadmap as applied to the missions described in the President's exploration initiative and 2 identify the unique challenges for accomplishing its goals and objectives In September 2004 the committee released its preliminary report to NASA entitled Preliminary Considerations Regarding NASA's Bioastronautics Critical Path Roadmap That document presented the committee's preliminary conclusions about the strengths and weaknesses of the April 2004 version of the BR This report A Risk Reductions Strategy for Human Exploration of Space builds on those preliminary conclusions and provides recommendations to NASA about how to address the issues identified by the committee

*Life and Physical Sciences Research for a New Era of Space Exploration* National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Space Studies Board, Committee for the Decadal Survey on Biological and Physical Sciences in Space, 2010-08-23 In response to requests from Congress NASA asked the National Research Council to undertake a decadal survey of life and physical sciences in microgravity Developed in consultation with members of the life and physical sciences communities the guiding principle for the study is to set an agenda for research for the next decade that will allow the use of the space environment to solve complex problems in life and physical sciences so as to deliver both new knowledge and practical benefits for humankind as we become a spacefaring people The project's statement of task calls for delivery of two books an interim report and a final survey report Although the development of specific recommendations is deferred until the final book this interim report does attempt to identify programmatic needs and issues to guide near term decisions that are critical to strengthening the organization and management of life and physical sciences research at NASA

Selected Topics in DNA Repair Clark Chen, 2011-10-26 This book is intended for students and scientists working in the field of DNA repair focusing on a number of topics ranging from DNA damaging agents and mechanistic insights to methods in DNA repair and insights into therapeutic



strategies These topics demonstrate how scientific ideas are developed tested dialogued and matured as it is meant to discuss key concepts in DNA repair The book should serve as a supplementary text in courses and seminars as well as a general reference for biologists with an interest in DNA repair

*Preliminary Considerations Regarding NASA's Bioastronautics Critical Path Roadmap* Institute of Medicine, Board on Health Sciences Policy, Committee on Review of NASA's Bioastronautics Critical Path Roadmap, 2005-01-28 Extending the spatial and temporal boundaries of human space flight are important goals for the National Aeronautics and Space Administration NASA yet human space flight remains an endeavor with substantial risks Potential hazards include exposure of the crew to space radiation degraded crew performance related to human behavioral and other health changes failure of life support systems and the adverse effects of space flight on human biological systems The Bioastronautics Critical Path Roadmap BCPR is designed to provide summary assessments of the importance of each risk and the current state of science and technology with respect to minimizing them Preliminary Considerations Regarding NASA's Bioastronautics Critical Path Roadmap assesses the strengths and weaknesses of the content and processes of the BCPR as applied to the missions described in the President's exploration initiative and identifies the unique challenges for accomplishing its goals and objectives

**An Assessment of Balance in NASA's Science Programs** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on an Assessment of Balance in NASA's Science Programs, 2006-06-30 When the space exploration initiative was announced Congress asked the NRC to review the science NASA proposed to carry out under the initiative It also asked the NRC to assess whether this program would provide balanced scientific research across the established disciplines supported by NASA in addition to supporting the new initiative In 2005 the NRC released three studies focusing on a portion of that task but changes at NASA forced the postponement of the last phase This report presents that last phase with an assessment of the health of the NASA scientific disciplines under the budget requests imposed by the exploration initiative The report also provides an analysis of whether the science budget appropriately reflects cross disciplinary scientific priorities

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