

REVIEW OF NASA'S
Longitudinal Study
OF
Astronaut Health

David E. Longnecker, Frederick J. Murning,
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 Health
Sciences Policy, Committee on the
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Health**

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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

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 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 **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 *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 **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 **Space Physiology and Medicine** Arnauld E. Nicogossian, James F. Parker, 1982 2009 life science book award from IAA *Principles of Clinical Medicine for Space Flight* Michael R. Barratt, Ellen S. Baker, Sam L. Pool, 2020-01-02 In its first edition *Principles of Clinical Medicine for Space Flight* established itself as the authoritative reference on the contemporary knowledge base of space medicine and standards of care for space flyers It received excellent notices and is used in the curricula of civilian and military training programs and used as a source of questions for the Aerospace Medicine Certifying Examination under the American Board of Preventive Medicine In the intervening few years the continuous manning of the International Space Station has both strengthened existing knowledge and uncovered new and significant phenomena related to the human in space The Second Edition incorporates this information Gaps in the first edition will be addressed with the addition new and revised chapters This edition is extensively peer reviewed and represents the most up to date knowledge **NASA 50th Anniversary Proceedings: NASA's First 50 Years: Historical Perspectives** Steven J. Dick, National Aeronautics and Space Administration, 2010-07-07 On 29 July 1958 President Dwight D Eisenhower signed the National Aeronautics and Space Act creating the National Aeronautics and Space Administration NASA which became operational on 1 October of that year Over the next 50 years NASA achieved a set of spectacular feats ranging from advancing the well established field of aeronautics to pioneering the new fields of Earth and space science and human spaceflight In the midst of the geopolitical context of the Cold War 12 Americans walked on the Moon arriving in peace for all mankind Humans saw their home planet from a new perspective with unforgettable Apollo images of Earthrise and the Blue Marble as well as the pale blue dot from the edge of

the solar system A flotilla of spacecraft has studied Earth while other spacecraft have probed the depths of the solar system and the universe beyond In the 1980s the evolution of aeronautics gave us the first winged human spacecraft the Space Shuttle and the International Space Station stands as a symbol of human cooperation in space as well as a possible way station to the stars With the Apollo fire and two Space Shuttle accidents NASA has also seen the depths of tragedy In this volume a wide array of scholars turn a critical eye toward NASA s first 50 years probing an institution widely seen as the premier agency for exploration in the world carrying on a long tradition of exploration by the United States and the human species in general Fifty years after its founding NASA finds itself at a crossroads that historical perspectives can only help to illuminate NASA's Fiscal Year 2007 Budget Proposal United States. Congress. House. Committee on Science,2006

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