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Salivary oral microbial and oral immunity: Space exploration analog and simulation space mission

Balwant Rai

Kepler Space Institute, USA

Abstract

Very few studies were conducted on space missions considering oral health conditions. So, this study was planned to explore effect of long duration Space Exploration Analog and Simulation on oral health and possible cause of compromised oral health. It is mainly required to consider the oral health during long duration mission by means of noninvasive studies on oral cavity immunity and oral microbial. Microbiological analyses of the oral flora and salivary biomarkers have been suggested as a suitable method for evaluating oral health. Further study is needed to prove this fact in real space mission.

Biography

Balwant Rai is the founder of curriculum aeronautical (2006) and space Dentistry and JBR group association of space and aeronautical dentistry (2006). He is Program Director and Associate Professor of Aeronautic Dentistry at KSI. He is also consultants and adviser of different companies. He is also the President and Founder of the JBR Institute of Health Education Research and Technology. Dr Rai has more than 25 published articles in international and national journals, has written seven books, and is Editor-in-Chief of three international journals He is also founder of the BR formula and BR regression equation used in forensic technology. His current work involves the effect of micro-gravity on the oral cavity, human physiology and psychology and non-invasive biomarkers, including the elaboration of technologies to prevent the adverse effects of microgravity on the human physiology including oral cavity. His biography has been published in Who's Who in Health and Medicine and Who's Who in the World, USA. He is invited Editor of Mars Quarterly. He is an invited reviewer to NRF, South Africa, reviewer of more than 10 different journals, and has seven pending patents. He is an invited reviewer of many national and international indexed journals. He was selected as part of Crew 78, Crew on the Mars Desert Research Station [MDRS] as Health and Safety Officer and appointed as Commander for 100 B and Commander 114 crew on MDRS. He is principal investigator cum researcher on a project entitled "simulated micro-gravity and human factors including oral cavity: non invasive technology". Dr Rai is working with different space related research projects and has been an invited judge for different space related programs. He has a strong belief in leaving a