

Dental emergencies during space mission: Proposed models

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Microgravity and space environment during short and long duration space missions have important medical emergencies including dental and health implications in astronauts. Dental emergencies are real medical emergencies during short and long term space mission. Till date, very few studies were conducted on oral health and space mission. So, it is very important to study this issue by taking different proposed study models such as ground-based simulations and analogs, earth orbital missions such as low earth orbital such as ISS, lunar orbit and surface missions and missions to mars. This symposium will review the possible dental emergencies during space mission and possible treatments and further the role of different models in exploring the oral health issues.

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. He 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". He 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 mark on space programs using non-invasive diagnostic technology.

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