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Aeronautic dentistry is specialized branch of dentistry (Rai. B). As NASA is planning missions for the life on mars, but the gravity on mars is less as compared to earth. So it not only effects the body but also the oral cavity. Many series adverse changes occur during spaceflight. Some of these include fluid redistribution, increased kidney filtration, sensory input changes, cardiovascular deconditioning , bone deterioration, muscle loss, and impaired immune system function. Many of these physiological adjustments cannot be balanced with physical exercise or nutritional supplementation, suggesting addition molecular mechanisms are responsible for these changes. To develop highly effective countermeasures and prevent spaceflight-induced diseases, there is a critical

need to understand the mechanisms of how microgravity cause these problems . Understanding the mechanisms of spaceflight-induced heath problems may also help to provide insight to the path physiology of diseases occurring on Earth, such as osteoporosis, muscle atrophy, cardiovascular disease, and immune system dysfunction. So far, the most prominent microgravity-induced cellular responses have been focused on bone, muscle, and immune system cells. The production of stimulated saliva reduces due to microgravity, because stress on muscles for keeping and moving of submandibular jaw is reduced in microgravity. The formation of oral bio films in microgravity change in reduced gravity as compared to earth. The risk of periodontal diseases is also increased in Mars as compared to earth due of osteoporosis. Therefore, attention to oral hygiene including professional care may diminish the risk of disease. These findings may be usually beneficial for continued health of the pilots and Aeronauts . Further, NASA and other space agencies should include the expert dentists in team for further research on these facts and to prevent the adverse effects on oral cavity.

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