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THE SPACE MEDICAL CENTRE

Abstract

The outer space is an unquestionable resource for improving life on Earth. Advances of space technologies (such as telecommunications and earth observation data) are known for benefiting services of Communities and Society. Applications in public health practice arise by leveraging such technologies in prevention, preparedness, response and recovery of health-related hazards and issues. It has benefits in public health management, but it also has limitations when looking at practical ways to implement such information in local health practice readily. Then, advances in space medicine and space medical technology are being translated for use in terrestrial fields, including private consumers, use in remote locations and use in natural disasters. Such a scenario has more benefits in local health practice than at the global level. The Space Medical Centre (SMC) built on the idea of using existing space infrastructure for providing practical solutions on health and health management at the global level and in clinical practice. The SMC is thought as a Part connecting services and addressing limitations of on-going works on global health and translation science. Indeed, the space environment has the potential of becoming the perfect place for boosting medical research for producing alternative medications and pharmaceutical drugs. Shortly, space travellers may travel to space for exploration or may travel to find a cure for medical conditions by taking the advantages of space and its resources. Also, the SMC has the potential to become the only Entity assigned to elaborate big data for redirecting health information from space to Earth. This work is designed to bring disruptive innovation within the field of health, suggesting a practical solution with a multiscale impact on Society. The analysis aims at raising the awareness of alternative strategies for promoting good health and well being.