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EFFECT OF NON GRAVITY ON MENSTRUATING ASTRONAUTS AND NEW DESIGN OF SPACE
SUIT TO SUPPLEMENT THEIR LIFESTYLE

Abstract

Menstruation is one of the many human physiological cycles which is not affected in space. Concept of female astronaut was frowned upon because of this reason. Availability of menstrual pad and tampons etc have been made available in space as the number of female astronauts increased. In this paper we try to redesign the EMU in order to supplement the physical conditions of female when they are menstruating. Problems like severe back pain, stomach cramps, leg muscle pain are the topics that we are addressing in this research paper. This paper would focus on the biological impact of non gravity on female body especially hormone and bone structure while menstruating and also a proposed idea for a newly designed suit which would showcase extra add on for the females, modified in a way that it remains a uni sexual suit, but extra additional could be added while necessary, like menstruating time period