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Author: Ms. Elza Salimli
Baku State University, Azerbaijan, salimli.elza.24@gmail.com

Mr. Alizada Ravan
Baku State University, Azerbaijan, elizade.revan.2004@gmail.com

Ms. Nargiz Aliyarli
Baku State University, Azerbaijan, aliyarli.nargiz25@gmail.com

Ms. Fidan Huseynzada
Baku State University, Azerbaijan, fidanhuseynzada5@gmail.com

COGNITIVE BEHAVIORAL THERAPY FOR LONELINESS AND ISOLATION OF ASTRONAUTS IN
SPACE MISSION

Abstract

During extended space missions, loneliness and isolation pose significant challenges to the mental well-being of astronauts. Astronauts are physically separated from their support networks in the vacuum of space, which leads to feelings of loneliness and isolation. The psychological strain experienced by astronauts is due to factors such as the long duration of confinement, restricted interactions with friends, and a lack of familiarity. Cognitive behavioral therapy has emerged as a promising intervention to address these psychological stressors. The use of CBT techniques to mitigate loneliness and isolation among astronauts in space is reviewed in this abstract.

This abstract considers the special stresses experienced in space and proposes targeted CBT strategies based on available literature and insight from psychological research into space. These strategies range from cognitive retraining, behavioral activation, training of social skills, and mindfulness techniques that are suited to the space environment. In addition, considering factors such as limited resources, communication delays, and the restricted living quarters of a spacecraft, this abstract analyzes the feasibility and implementation challenges of providing CBT intervention in space. In spite of these challenges, CBT holds promise as an effective and non-pharmacological approach to enhancing the psychological resilience of astronauts during extended space missions.

Further research and innovation in psychological interventions will be vital to preserving the mental health of astronauts as space exploration ventures continue to expand, improving their performance in a challenging environment on space exploration.