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THE INNOVATION MEANS OF REHABILITATION

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The rehabilitation of servicemen and women in Ukraine after war-related injuries is extremely relevant and vital for the physical, psychological and social well-being of veterans and has significant implications for their successful reintegration into civilian life. The purpose of the study is to reveal the accessibility, ergonomics and application of universal design in the equipment that fills rehabilitation centers in Ukraine. Additionally, the work aims to study, analyze and solve various aspects related to the infrastructure and equipment in these centers, as well as present a personal development. Given that the institutions are aimed at effectively meeting the needs of their diverse clientele, including military personnel and veterans.

Keywords: rehabilitation, universal design, innovations.

Introduction. The rehabilitation of military personnel is a critical aspect of psychological and physiological recovery after completion of service. The wards and specialized equipment need to be replaced with innovation and more accessible equipment for people with different physical needs. Understanding the structure and goals of these institutions is important to improve the quality of care and support provided to veterans. To provide an overview on the current situation with the interior design of institutions and discuss the benefits of placing specialized equipment in terms of ergonomics and universal design.

Results. The integration of universal design principles into the physical layout and equipment selection of rehabilitation centers is a key factor. This involves ensuring that facilities and equipment are adapted and suitable for use by people with different needs and abilities. Rehabilitation centers can, and ideally should, tailor equipment and facilities, adaptation to the different specific needs of service members and veterans, taking into account factors such as age, gender, type of disability and nature of injuries sustained during service. Thus, integrating the innovation technologies and developments into rehabilitation centers is extremely important, as they have the potential to improve treatment outcomes, personalize care, reduce healthcare costs, and enhance the overall patient experience. These technologies not only support the physical recovery of patients, but also improve their emotional and psychological well-being, leading to a more holistic and effective rehabilitation.

Taking into account the research conducted, it was found that the most relevant is the development of an ensemble to facilitate the nutrition of people who are in hospital or rehabilitation, have special needs, motor and cognitive impairments. Before starting the development, was formed a technical task for the design and explication of each object in the ensemble. A stand and a service tray were designed (Fig. 1). The product is designed for people in the hospital or the elderly who find it difficult to eat at a table. Due to its sturdy design, the structure can be leaned on, for example, to stand up, and the top has a 90-degree rotation angle. The ensemble is transformable and transportable.



Fig. 1. Visualization of development

Conclusion. Means to improve rehabilitation outcomes are identified, focusing on accessibility, ergonomics and universal design. Accessible and well-designed facilities and the latest, practical equipment can increase the effectiveness of rehabilitation programs, leading to better recovery and overall well-being of patients.

References

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