

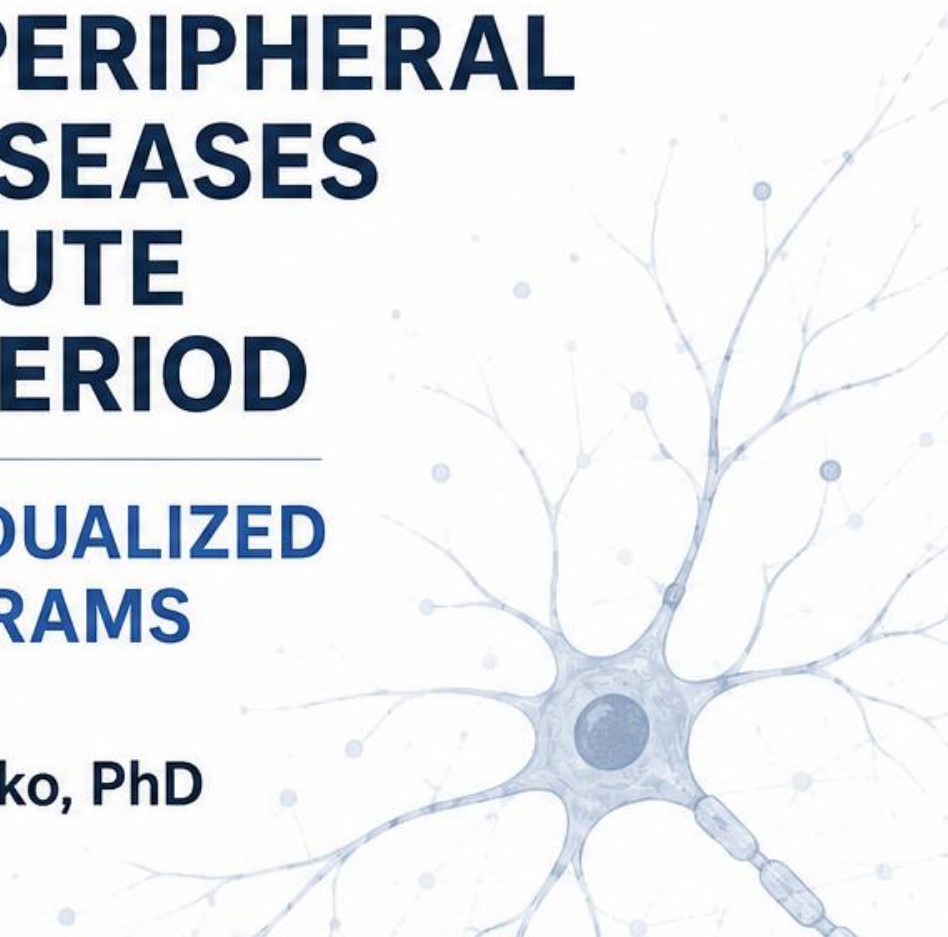


State Institution Kundliev Institute of Occupational Health
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CLINICAL VARIABILITY OF STRESS-ASSOCIATED SYMPTOMS IN COMBATANTS WITH PERIPHERAL NERVOUS SYSTEM DISEASES IN THE POST-ACUTE REHABILITATION PERIOD

JUSTIFICATION FOR INDIVIDUALIZED REHABILITATION PROGRAMS

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BACKGROUND

War is among the most **powerful and dangerous social stressors** in Ukraine's modern history.



MARKED INCREASE

- stress-related disorders in both the general population and specific subgroups
- growing burden in combatants during rehabilitation



CLINICAL COMPLEXITY

- considerable symptom polymorphism
- variable pathodynamics
- overlap of somatic and psychological manifestations



CURRENT LIMITATION

Despite intensive research in recent decades, the **effectiveness** of corrective interventions **remains limited**.

AIM



This study aimed to identify the **clinical and psychopathological features of stress-associated symptoms** in combatants with peripheral nervous system diseases during the post-acute rehabilitation period and to determine **targets for individualized rehabilitation**.

MATERIALS AND METHODS



Study site: Clinic of Occupational Diseases and Comprehensive Rehabilitation, SI Kundiev Institute of Occupational Health, NAMS of Ukraine



Participants: **72** combatants with peripheral nervous system diseases



Design: assessment at the beginning and end of the standard rehabilitation program



Methods:

- clinical psychiatric interview
- psychometric assessment

PSYCHOMETRIC TOOLS



PCL-5
PTSD symptoms



PHQ-9
depressive symptoms



GAD-7
anxiety symptoms



SSS-8
somatic symptom burden



72
combatants with peripheral nervous system diseases



Baseline assessment
(clinical interview + psychometric scales)



Standard rehabilitation program



Final assessment
(clinical interview + psychometric scales)



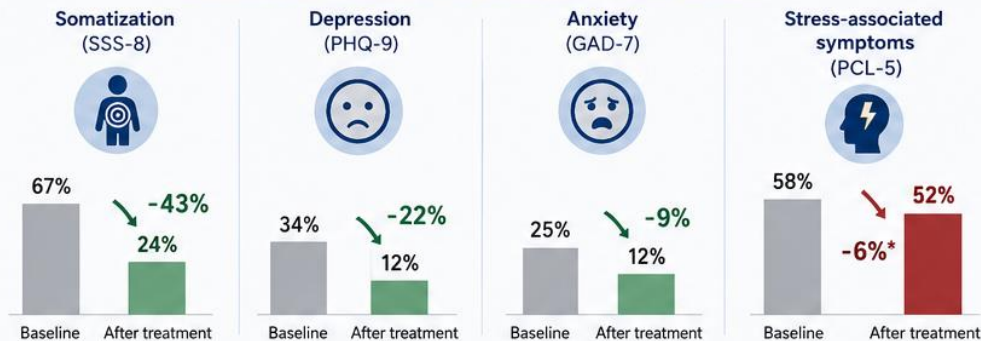
RESULTS

In the post-acute rehabilitation period, the majority of combatants exhibited a high prevalence of **somatized (67%)** and **stress-associated (58%)** psychopathological symptoms. By contrast, classical **depressive (34%)** and **anxiety (25%)** symptoms were observed significantly less frequently ($p < 0.05$).

Following comprehensive treatment in accordance with the standard rehabilitation protocol, improvement was documented in overall somatic condition as well as in psychometric indicators: **reduction of somatization by 43%**, **depression by 22%**, and **anxiety by 9%**.

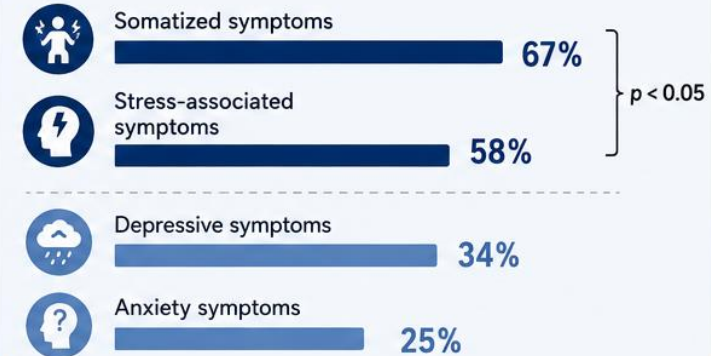
Nevertheless, the prevalence of **pathological stress responses** remained high, reaching **52%** of the examined cohort, which substantially limits the effectiveness of standard rehabilitation approaches.

CHANGES AFTER STANDARD REHABILITATION PROGRAM



Note: values represent prevalence (% of examined cohort). *Non-significant change.

PREVALENCE OF PSYCHOPATHOLOGICAL SYMPTOMS (POST-ACUTE PERIOD)



KEY TAKEAWAY

The high prevalence of pathological stress responses (**52%**) substantially limits the effectiveness of standard rehabilitation approaches.

RECOMMENDATION

- Move beyond uniform treatment strategies and implement **personalized rehabilitation programs**.
- Integrate not only neurological and somatic rehabilitation but also **targeted psychological interventions**.
- Adjust interventions for **individual psychotraumatic experiences, stress-response typology, and personality characteristics**.



The results underscore the need to move beyond uniform treatment strategies and to implement **personalized rehabilitation programs** for combatants with **peripheral nervous system pathology**. Such programs should integrate not only neurological and somatic rehabilitation but also targeted psychological interventions, adjusted for individual psychotraumatic experiences, stress-response typology, and personality characteristics.



CONCLUSION

The study provides **clinical justification** for the development of **individualized rehabilitation protocols**, which may enhance treatment **effectiveness**, **support recovery**, and improve the **long-term quality of life** of combatants affected by **war-related stressors**.



Individualized rehabilitation protocols based on clinical and psychopathological assessment



Enhanced treatment effectiveness through targeted interventions



Support recovery of physical, psychological, and social functioning



Improved long-term quality of life for combatants affected by war-related stressors