

Article history:

Received: 02.06.2025

Revision requested: 05.06.2025

Revision received: 15.11.2025

Accepted: 25.12.2025

Published: 30.12.2025

**ANALYSIS OF MODERN SCIENTIFIC LITERATURE ON COMBAT LIMB INJURIES:
TYPOLOGY, CONSEQUENCES, AND TREATMENT PERSPECTIVES
(literature review)**

Baida M. V., Derkach S. O.

Bogomolets National Medical University Kyiv, Ukraine

Aim: to systematize modern scientific publications on combat-related limb injuries, particularly explosive trauma, in order to identify classification, tactical, and therapeutic gaps, and to outline directions for future research and improvement of treatment approaches.

Materials and methods. This study is based on an analytical review of more than 70 scientific sources published between 2000 and 2025, using databases such as PubMed, Scopus, Google Scholar, and ResearchGate. Publications were selected using keywords related to combat limb trauma, explosive injuries, treatment tactics, and reconstructive surgery.

Results. The literature review revealed that explosive limb injuries differ significantly from firearm-related injuries in mechanisms of damage, clinical manifestations, and surgical requirements. The lack of a unified international classification of combat trauma hinders comparative data analysis and the development of effective treatment protocols. At the same time, modern research emphasizes the need to combine reconstructive surgery with regenerative medicine principles and multistage rehabilitation. The analysis demonstrated that explosive limb injuries differ from gunshot wounds in terms of injury mechanisms, clinical presentation, and surgical needs. The absence of a unified international classification of combat trauma complicates the creation of effective treatment standards.

Conclusion. Recent studies highlight the importance of integrating reconstructive surgery with regenerative medicine and staged rehabilitation protocols.

Key words: blastotrauma, combat trauma, explosive injuries, reconstructive surgery, military medicine.