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*Articles*

### **OVERVIEW OF THE CURRENT METHODS OF SKELETAL MUSCLE INJURY TREATMENT**

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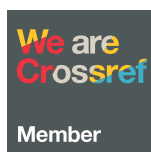
## Abstract

*Voluntary contractions of skeletal muscle made up of striated muscle tissue cause body movements and are well controlled. One of the most characteristic features of skeletal muscle is its high in vivo and in vitro regeneration capacity, but with greater muscle loss, the regeneration process is exhausted and requires intervention support. It follows that muscle injury is a constant challenge for the clinic. In the last century, especially in the last few decades, a number of techniques have been developed to promote muscle regeneration, including various surgical techniques, physical therapy, biomaterials, muscle tissue cultivation, cryotherapy, magnetic field application and cell therapy. At the same time, there is still a great need to develop new methods and materials that promote skeletal muscle improvement and functional regeneration. In this study we give a comprehensive picture of the epidemiology of muscle tissue loss, highlight current strategies for clinical management, and discuss new methods of muscle regeneration and the challenges of their future clinical transformation.*

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