

عنوان مقاله:

Comparative treatment with HBO in a model of systemic loxoscelism in rats

محل انتشار:

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خلاصه مقاله:

Objective(s): Spiders of the *Loxosceles* genus, known as violin spiders, produce venom with dermonecrotic and systemic effects, as it is a species widely distributed in the world, its study represents a high medical relevance. Systemic loxoscelism, which occurs in 1 in 5 cases and is the most frequent in children, can be fatal, so the study of effective therapy is of great relevance. In the present study, we compared different therapeutic options to mitigate the

systemic effects of *Loxosceles boneti* venom in a model in which prepubertal rats were used. Materials and Methods: A model of systemic intoxication by *L. boneti* venom was provoked in male Wistar rats. Study groups were formed: healthy control, with venom and untreated control, treatment with N-acetylcysteine, and/or hyperbaric oxygenation therapy. Subsequently, pathological analysis of the kidney and lung was performed. The oxidant-antioxidant response was evaluated, and molecular analysis of the COX-1 and COX-2 enzymes was performed. Results: Regenerative changes were observed at the cellular level in both treatments, being more noticeable in the HBO group. The antioxidant response was outstanding in the same group. Conclusion: Both treatments offer considerable benefits, however; further studies are needed to provide adequate therapeutics.

کلمات کلیدی:

Antioxidant therapy, Cyclooxygenases, Hyperbaric oxygen therapy, Spider venoms, Systemic inflammatory-response

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