

Special Issue

Botulinum Neurotoxin Injection

Message from the Guest Editor

Despite not only the safety but also the reversible clinical procedures of botulinum toxin injections in the fields of therapeutics or cosmetics, various clinical side effects have been reported. The background of these side effects includes not only inappropriate injection techniques but also a lack of anatomical knowledge, contrary to clinical experience. Recently, clinical practices, such as ultrasonography-guided injection, have been used to prevent the side effects known to be associated with botulinum toxin injection. This enables precise injection with accurate doses of toxins, but recently, clinical anatomical knowledge has been lacking in the clinical use of botulinum toxins, making further clinical development impossible. This Special Issue includes safety guidelines for the most desired outcome related to botulinum toxin injection, as well as an introduction to new injection techniques using supplementary equipment.

Guest Editor

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Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

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