



The use of botulinum toxin in aesthetic procedures

A utilização da toxina botulínica em procedimentos estéticos

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ABSTRACT

Introduction: Botulinum toxin is a protein produced by the bacterium *Clostridium botulinum*. When administered orally in large amounts, it blocks nerve signals from the brain to the muscle, causing widespread paralysis, called botulism. However, by injection, in very small amounts, into a specific facial muscle, only the impulse that guides this muscle will be blocked, causing local relaxation. In this way, botulinum toxin acts as a blockage of the underlying muscles of unwanted lines. In recent years there has been an increase in the application of botulinum toxin in aesthetic procedures and it is of great importance to know about it. Objective: The aim of this study was to demonstrate the use of botulinum toxin in aesthetic procedures. Methodology: This is a Literature Review study. Results: Botulinum toxin has been widely used in aesthetic procedures to temporarily reduce painful wrinkles, such as expression lines on the forehead,

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around the eyes (crow's foot) and between the eyebrows (glabella). In addition, botulinum toxin is also used in the treatment of gummy smile, hyperhidrosis (excessive sweating) and facial asymmetry. Its aesthetic use provides a rejuvenated and smoothing appearance from the marks of facial aging. Clinical studies have shown positive results regarding improved facial appearance and increased patient satisfaction with botulinum toxin procedures. (CARRUTHERS, A., & CARRUTHER, J 2009). Conclusion: Botulinum toxin is of paramount importance in aesthetic procedures and requires a lot of attention from professionals, as it brings great benefits if used correctly and in the correct dose.

Keywords: Botulinum toxin, Aesthetic procedures, Wrinkles and expression lines, Facial rejuvenation, Safety and dosage.



REFERENCES

- SBD - Sociedade Brasileira de Dermatologia. (n.d.). Toxina botulínica tipo A. Retrieved June 28, 2024, from <https://www.sbd.org.br/tratamentos/toxina-botulinica-tipo-a/#:~:text=Toxina%20botul%C3%ADnica%20%C3%A9%20uma%20prote%C3%ADna,causando%20paralisia%20generalizada%2C%20chamada%20botulismo.>
- Carruthers, J., & Carruthers, A. (2001). Botulinum toxin type A: History and current cosmetic use in the upper face. *Seminars in Cutaneous Medicine and Surgery*, 20(2), 71-78. Retrieved from <https://scmsjournal.com/wp-content/uploads/2016/08/v20i2-Carruthers.pdf>