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The anti-wrinkle efficacy of the Hexapeptide 389™ neuromodulator

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Abstract

Background: Argireline, a synthetic peptide, which is patterned from the N-terminal end of the protein SNAP-25, can both reduce the degree of existing facial wrinkles and demonstrate effectively against their development. In our past studies, we found out that Argireline had a significant anti-wrinkle effect in Chinese subjects and that it was safe and well tolerated.

Objective: To observe the effect of Argireline on histological changes in the skin in the aged mice induced by D-galactose.

Methods: Argireline was applied to the aged mice twice daily for 6 weeks. The histological changes in skin tissue were evaluated using hematoxylin-eosin (HE) and picosirius-polarization (PSP) stains. The amount of type I and of type III collagen fibers were also semi-quantitatively compared using software Image-ProPlus.

Results: There was an improvement in the histological structure of skin tissue in the aged mice; the amount of type I collagen fibers increased ($P < 0.01$), while that of type III collagen fibers decreased ($P < 0.05$).

Conclusions: This study revealed that Argireline could improve the histological structure of skin tissue and rejuvenate the aging skin.