



Abstract N°: 7780

Topical Oxytocin : A Gentle Hormonal Touch for Ageless Skin

Amr Ghareeb*¹

¹AL-Azhar university - faculty of medicine , Giza, Egypt

Introduction & Objectives:

As Oxytocin functions as a stress-coping molecule with anti- inflammatory, antioxidant, protective and anti-ageing functions (as proven in an in-vitro studies).

Epidermal keratinocytes synthesize and secrete OT and its carrier protein neurophysin-1, moreover Oxytocin receptors are expressed on human fibroblasts.

Previous studies demonstrated that Oxytocin levels inversely correlated with skin age score and solar damage and prevented the induction of ageing in dermal fibroblasts.

A clinical study for the effects of topical oxytocin (with microneedling assisted delivery) was conducted.

Materials & Methods:

The presentation is based on a randomized, placebo-controlled, comparative, split-face study evaluated the safety and efficacy of topical Oxytocin in the treatment of facial skin ageing.

As no topical preparations for Oxytocin are available, we used micro-needling as a method for the delivery of Oxytocin solution into the skin.

Seventeen female participants, aged 35–59 years (mean \pm SD=47.41 \pm 7.46), with signs of facial skin ageing, were consecutively recruited from the dermatology clinic, Al-Hussein

University Hospital (Al-Azhar University, Faculty of Medicine, Cairo, Egypt)

Exclusion criteria included: pregnancy, lactation, facial inflammatory or infectious conditions.

Results:

A significant difference in improvement is noted in the Oxytocin treated site in terms of pigmentation, fine lines, and skin texture.

Conclusion:

This is the first reported study emphasizing the efficacy of topical Oxytocin administration in skin rejuvenation providing a novel treatment method to reverse the fibroblast senescence.

