

Terapia anti-distrofica a base di Polinucleotidi altamente purificati (PN-HPT®) nelle sequele a lungo termine dopo Polimetilmacrilato (PMMA)

Isabella Pia Palmieri (1)

Università degli Studi Federico II, Chirurgia plastica ricostruttiva e medicina estetica, Napoli, Italia (1)

Obiettivi

Nel recente passato, le complicanze da corpo estraneo rappresentavano un problema frequente dopo gli impianti semipermanenti di polimetilmacrilato (PMMA). Viene qui descritta una storia ventennale di complicanze ricorrenti post-PMMA intervallate da lunghi periodi di quiescenza, con effetti collaterali edematosi acuti evoluti in problematiche distrofie cutanee con cutis laxa persistente. Il caso analizza il rationale per trattare con successo la lassità cutanea a lungo termine dell'ultimo episodio edematoso attraverso l'uso dei Polinucleotidi altamente purificati PN-HPT® (Highly Purified Technology).

Materiali e Metodi

I PN-HPT® possiedono note proprietà rigenerative ed anti-distrofiche, e sono una scelta terapeutica sempre più utilizzata nel contrasto alle carenze estetiche dovute al deperimento dei tessuti molli e nel miglioramento della qualità della pelle e della sua struttura. Sono utilizzati in un protocollo rigenerante con sedute infiltrative intradermiche.

Risultati

Vengono esposti i benefici del trattamento anti-distrofico e di rimodellamento dermico a seguito del trattamento con PN-HPT® sulla paziente e del conseguente miglioramento cutaneo in termini di recupero funzionale della cute e di ripristino del tono.

Conclusioni

I PN-HPT® si confermano una valida opzione terapeutica nel trattamento delle condizioni distrofiche, supportano il trofismo cutaneo e migliorano skin quality e skin texture, ottenendo un effetto naturale ed una estetica piacevole.

Anti-dystrophic therapy based on highly purified polynucleotides (PN-HPT®) in long-term sequelae after polymethylmethacrylate (PMMA)

Goals

In the recent past, foreign body complications were a frequent problem after semi-permanent polymethyl methacrylate (PMMA) implants. I describe here a twenty-year history of recurrent post-PMMA complications interspersed with long periods of quiescence, with acute edematous side effects evolving into problematic cutaneous dystrophies with persistent cutis laxa. The case analyzes the rationale for successfully treating the long-term skin laxity of the last edematous episode through the use of highly purified polynucleotides PN-HPT® (Highly Purified Technology).

Materials and methods

PN-HPT® have well-known regenerative and anti-dystrophic properties, and are an increasingly used therapeutic choice in contrasting aesthetic deficiencies due to the deterioration of soft tissues and in improving the quality of the skin and its structure. They are used in a regenerating protocol with intradermal infiltrative sessions.

Results

The benefits of the anti-dystrophic treatment and dermal remodeling following treatment with PN-HPT® on the patient and the consequent skin improvement in terms of functional recovery of the skin and restoration of tone are shown.

Conclusions

PN-HPT® are confirmed as a valid therapeutic option in the treatment of dystrophic conditions, they support skin trophism and improve skin quality and skin texture, obtaining a natural effect and pleasant aesthetics.

- 1) Palmieri IP, Raichi M. Clinical commentary about foreign body complications over 20 years after polymethyl-methacrylate face implants and control of late sequelae with Polynucleotides Highly Purified Technology (PN-HPT ®). *J Cosmet Dermatol.* 2022;00:1-6. doi:10.1111/jocd.14950
- 2) Solomon P, Sklar M, Zener R. Facial soft tissue augmentation with Artecoll®: a review of eight years of clinical experience in 153 patients. *Can J Plast Surg.* 2012;20:28-32.
- 3) Cavallini M, Bartoletti E, members of The Polynucleotides HPT® Priming Board, Italian College of the Aesthetic Medicine Scientific Societies (SIME, AGORÀ, SIES). Consensus report on the use of PN-HPT ® (polynucleotide highly purified technology) in aesthetic medicine. *J Cosmet Dermatol.* 2021;20:922-928.
- 4) Lemperle G, Gauthier-Hazan N, Wolter M, et al. Foreign body granulomas after all injectable dermal fillers: part 1. Possible causes. *Plast Reconstr Surg.* 2009;123:1842-1863.
- 5) Cavallini C, De Luca C, Prussia G, Raichi M. PN-HPT® (polynucleotides highly purified technology) in facial middle third rejuvenation. Exploring the potential. *J Cosmet Dermatol.* 2021;21(2):615-624.
- 6) Limongi RM, Tao J, Borba A, et al. Complications and management of polymethylmethacrylate (PMMA) injections to the midface. *Aesthet Surg J.* 2016;36:132-135.
- 7) Guizzardi S, Uggeri J, Belletti S, Cattarini G. Hyaluronate increases polynucleotides effect on human cultured fibroblasts. *J Cosm Dermatol Sci Applic.* 2013;3:124-128.
- 8) Colangelo MT, Govoni P, Belletti S, et al. Polynucleotide biogel enhances tissue repair, matrix deposition and organization. *J Biol Regul Homeost Agents.* 2021;35:355-362.