

# Efficacy of Intradermal Injection of Polydeoxyribonucleotides (PDRN) for the Treatment of Striae Distensae: A Case Series

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## BACKGROUND

Striae distensae (stretch marks) are common dermatological concerns caused by rapid skin stretching due to pregnancy, weight changes, or hormonal shifts. These lesions are often resistant to traditional therapies. Polydeoxyribonucleotides (PDRN), derived from DNA fragments, exhibit regenerative and anti-inflammatory properties, offering a novel approach to skin repair.

## OBSERVATION

Three patients received biweekly intradermal PDRN injections over a three-month period. Evaluations using visual and clinical grading revealed: improved skin texture and hydration; reduction in striae severity from Grade 3 (severe) to Grade 1 (mild); and better skin tone integration. No adverse effects were reported throughout treatment.

## KEY MESSAGE

Intradermal PDRN injections demonstrate potential as a safe and minimally invasive treatment for striae distensae. Patients showed significant improvement in striae appearance and skin quality. Further large-scale studies are recommended to confirm long-term efficacy.

## REFERENCE IMAGES

SUBJECT 1



Week 1



Week 6

SUBJECT 2



Week 1



Week 6

SUBJECT 3



Week 1



Week 6

## REFERENCES:

1. Kim, H. K. (2016). "The Effect of Polydeoxyribonucleotide (PDRN) on Wound Healing." *Archives of Plastic Surgery*, 43(4), 407-415.
2. Savoia, A., et al. (2016). "Evaluation of the Effectiveness of Polynucleotides in the Treatment of Skin Aging." *Journal of Cosmetic and Laser Therapy*, 18(4), 206-212.
3. Lee, Y., et al. (2020). "Efficacy of Polydeoxyribonucleotide (PDRN) in Dermatologic Conditions: A Systematic Review." *Dermatologic Therapy*, 33(6), e14230.