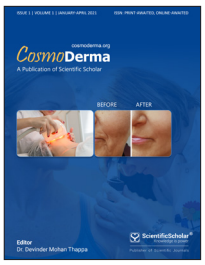
ScientificScholar®
Knowledge is power
Publisher of Scientific Journals

www.cosmoderma.org

CosmoDerma



Innovations

Tunneling technique for ease of intralesional injection in keloids

Divya Santoshkumar Bhangdiya[1], Rachita S. Dhurat[1], Richa Sharma[1]

[1]Department of Dermatology, Lokmanya Tilak Municipal Medical College and General Hospital, Mumbai, Maharashtra, India.

***Corresponding author:**
Rachita S. Dhurat,
Department of Dermatology,
Lokmanya Tilak Municipal
Medical College and
General Hospital, Mumbai,
Maharashtra, India.

rachitadhurat@yahoo.co.in

Received : 20 March 2023
Accepted : 12 April 2023
Published : 24 April 2023

DOI
10.25259/CSDM_70_2023

Videos available online at
https://doi.org/10.25259/
CSDM_70_2023

Quick Response Code:

PROBLEM

Intralesional injections are the mainstay of the treatment for keloids. However, injecting through thick keloidal tissue is a challenge as a result of excessive proliferation of dermal fibroblasts and haphazardly arranged thick hyalinized collagen.

To overcome the difficulty of injection, clinicians use dermajet[1] to deliver intralesional drugs, although it is expensive and has deeper penetration. Another method of making keloid tissue soft is cryotherapy; however, it can give rise to bullae, ulceration, secondary infection, and dyspigmentation.[2]

SOLUTION

To soothe the process of injecting pharmacological agent into hard keloids, we propose that a 26G needle be inserted into keloid tissue and moved in a to and fro manner in different directions to create multiple tunnels. Thereafter, the intended drug is injected with ease owing to creation of these tunnels [Video 1]. A 26G needle was found to be suitable for tunneling [Figure 1].

This simple technique allows drug delivery into keloids with ease due to the tunnels created. On account of this, we have termed this technique as "tunneling technique."

Figure 1: Tunneling in keloids with 26G needle and 1 mL syringe.

Video 1: File demonstrating conventional injection technique followed by tunneling technique in keloid.

Declaration of patient consent

The authors certify that they have obtained all appropriate patient consent.

Financial support and sponsorship

Nil.

Conflicts of interest

There are no conflicts of interest.

REFERENCES

1. Barolet D, Benohanian A. Current trends in needle-free jet injection: An update. Clin Cosmet Investig Dermatol 2018;11:231-8.
2. Ojeh N, Bharatha A, Gaur U, Forde AL. Keloids: Current and emerging therapies. Scars Burn Heal 2020;6:2059513120940499.

How to cite this article: Bhangdiya DS, Dhurat RS, Sharma R. Tunneling technique for ease of intralesional injection in keloids. CosmoDerma 2023;3:70.