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Appendix S1

The triamcinolone used in this report was Flamicort 40[®] (DexaMedica, Tangerang, Indonesia). Each milliliter of the sterile aqueous suspension provides 40 mg triamcinolone acetonide with 1.5% benzyl alcohol for preservative. The protocol used for the administration of intralesional triamcinolone administration using the electroporation microneedling device is as follows:

1. Application of lidocaine-prilocaine cream 30 minutes before the injection.
2. After 30 minutes, the remaining cream was wiped off and antisepsis of the injection site was done with alcohol swab.
3. One milliliter of 40 mg/mL triamcinolone suspension is drawn with a syringe and the needle is removed afterwards
4. The suspension is subsequently applied topically drop-by-drop with a needleless syringe on the keloid. Intralesional injection with the electroporation microneedling device was simultaneously performed on the keloid for approximately five minutes. The device was set at 4,500 rpm and the needle exposed at 0.5 mm, while the electroporation system was set at level 2–3.
5. Any bleeding was dabbed off and antiseptic gel containing 40% polyhexanide was applied on the wound.
6. The patient was directed to take paracetamol as needed.

We performed this protocol every 2–3 weeks until the desired outcome was achieved.

However, the patient did not always come to the clinic as planned, especially due to the pandemic in 2021. The table below records the patient’s visit throughout the treatment period.

No.	Date	Year	Action performed at meeting
1.	7 August	2020	- Photograph and informed consent taken - Intralesional triamcinolone injection
2.	28 August		- Follow up and consultation - Intralesional triamcinolone injection
3.	22 October		
4.	4 November		
5.	4 December		
6.	5 March	2021	- Follow up and consultation - Intralesional triamcinolone injection
7.	11 March	2022	- Follow up and consultation - Intralesional triamcinolone injection with electroporation microneedling device
8.	25 March		
9.	8 April		
10.	22 April		
11.	6 May		
12.	20 May		
13.	3 June		
14.	1 July		
15.	15 July		
16.	21 October		- Follow up and consultation - Final photograph taken

The amount of time the patient was routinely under treatment (which we defined as 7 August–4 December 2020, 11 March–15 July 2022) was 245 days (approximately 8 months).