

## Therapeutic Pearl: A Chemically Locked Syringe for Intralesional Injection into Keloids and Hypertrophic Scars

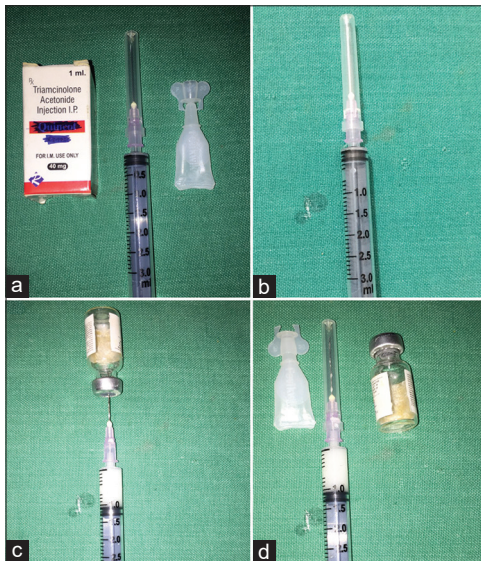
### Problem Faced

Intralesional injection of triamcinolone acetonide for treating keloids and hypertrophic scars is preferably done with security using Leur locked syringe.<sup>[1,2]</sup> However, this syringe is not readily and easily available in many places. The disposable Leur slip syringe is not suitable for intralesional therapy because of a higher incidence of spillage and thus wastage of the drugs during the injection. Here a simple, interesting and innovative technique is described to get a locked disposable syringe.

### Solution Proposed

To solve this problem, the disposable Leur slip syringe and cyanoacrylate glue are used which are readily available in the clinic. The needle is locked with the help of glue. The locking is done before loading the drug for a better sense of security and safety. For

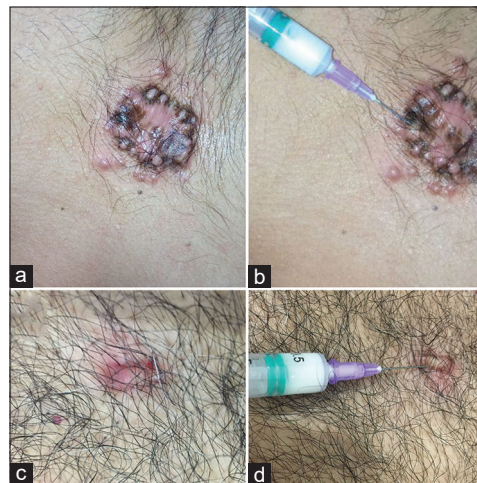
this, 1 to 2 drops of cyanoacrylate glue is applied on the proximal half to two-third part of the syringe hub/adaptor keeping the hub in a horizontal or slightly inclined plane. Just after this, the needle is to be capped tightly with rotating movement on its glued hub [Figure 1a-d]. After this, 1 to 2 drops of the glue is dropped on the remaining part of the syringe hub in a little declined plane to secure better locking of the needle with the syringe. The glue gets dried in 1 to 2 minutes and its dryness is can be checked after 2 minutes. Then the locking of the needle is checked by rotating it in clock and anti-clockwise and by a mild to moderate effort for detaching it from its hub to avoid give away during the procedure. Following this, triamcinolone acetonide solution (40 mg/ml) is withdrawn in the syringe and is injected in the keloid without any fear of leakage and wastage of the drug [Figure 2a-d]. Thus, a chemically locked Leur slip syringe is a readily available and a good alternative to Leur lock syringe for injection into the scar tissue.



**Figure 1:** (a-d) Disposable Leur slip syringe, cyanoacrylate glue, and injection Triamcinolone acetonide, and after locking the needle, triamcinolone acetonide solution is withdrawn in the syringe

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**Figure 2:** (a-d) A chemically locked syringe for injecting triamcinolone acetonide into keloid

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### ***Conflicts of interest***

There are no conflicts of interest.

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