

Novel application of silicone sheets for separating the adhesive skin on fingers and toes



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Key words: bacterial infection; fingers and toes; separate the adhesive skin; silicone sheet; silver-containing oil gauze.

SURGICAL CHALLENGE

Long-term adhesion of damaged wounds can lead to bacterial infections, scar formation, and also delay the process of wound healing on the fingers and toes. Therefore, how to separate the adhesive skin on fingers and toes is a clinical surgical challenge.

THE SOLUTION

A novel application of a silicone sheet can be used to solve this problem (Fig 1). First, cut a suitable size of silicone sheet according to the length of the patient's fingers and toes. Then, wrap the surface of the silicone sheets in silver-containing oil gauze and place them on the adhesive skin between the fingers and toes (Fig 2).

This method has 3 advantages. First, these materials are inexpensive, soft, and can be disinfected with 75% alcohol. Second, this method can separate the patient's fingers and toes to protect the skin from adhering and promote wound healing. It can effectively prevent the wound from developing a bacterial infection and can alleviate the pain when changing dressings. Finally, this method is safe and has no adverse effects to the wounds. Further, it can be tailored to different shapes and sizes individually. Thus, it is convenient, practical, and comfortable to use.

Conflicts of interest

None disclosed.

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Funding sources: None.

IRB approval status: Not applicable.

Reprints not available from the authors.

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J Am Acad Dermatol 2021;84:e251-3.

0190-9622/\$36.00

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<https://doi.org/10.1016/j.jaad.2020.12.017>



Fig 1. Cut a suitable silicone sheet according to the length of the patient's fingers or toes and then wrap the surface of the silicone sheet in silver-containing oil gauze.



Fig 2. Place the silicone sheets on the adhesive skin between the fingers or toes, and fix them well with bandages.