

Ready-to-Use Device for Dermabrasion in Vitiligo Surgery

Karalikkattil T. Ashique, Feroze Kaliyadan¹, Puravoor Jayasree²

Department of Dermatology, Amanza Skin Clinic, Perinthalmanna, Kerala, India, ¹Faculty of Dermatology, College of Medicine, King Faisal University, Al Ahsa, Saudi Arabia, ²Medical Trust Hospital, Kochi, Kerala, India

Abstract

Adequate dermabrasion of recipient site is a crucial step in vitiligo surgery. We suggest the use of a commercially available mechanized abrader as an economical and efficient tool for dermabrasion especially in resource poor settings.

Keywords: Cellular grafting, dermabrasion, vitiligo, vitiligo surgery

CHALLENGE

Vitiligo surgery is now being taken up in many centers even where resources are poor, and various simple

techniques have been described for the preparation of the recipient skin.^[1,2] Optimal dermabrasion is the key to good results, and it is cumbersome when large lesions need to be operated.



Figure 1: (A) Dermabrasion device after ethylene oxide sterilization. (B) The mechanism ready and connected to a power bank

All videos available online

Access this article online

Quick Response Code:



Website:
www.jcasonline.com

DOI:
10.4103/JCAS.JCAS_28_20

Address for correspondence: Dr. Karalikkattil T. Ashique,
Department of Dermatology, Amanza Skin Clinic,
Perinthalmanna 679322, Kerala, India.
E-mail: ashique@amanzadermatology.in

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

For reprints contact: reprints@medknow.com

How to cite this article: Ashique KT, Kaliyadan F, Jayasree P. Ready-to-use device for dermabrasion in vitiligo surgery. J Cutan Aesthet Surg 2020;13:338-9.



Figure 2: (A) Vitiligo patch on the right forehead. (B) Appreciable pin point bleeding on the dermabraded site. (C) Lesion recovering with normal pigmentation

SOLUTION

We use a mechanized abrader, which is readily available in online stores. It is intended primarily for pedicures (called electric callus remover) and can be easily sterilized by ethylene oxide method [Figure 1A]. The machine works on 5 V, and it can be operated by power banks used for mobile phone charging [Figure 1B]. It can easily dermabrade the surface, and prepare the bed for cellular grafting and similar procedures [Figure 2, Video 1]. It is cheap, easily sterilizable, and battery operated. Also, it does not run as fast as the motorized dermabrader, so even amateurs can take up procedures at ease.

Financial support and sponsorship

Nil.

Conflicts of interest

There are no conflicts of interest.

REFERENCES

1. Al-Hadidi N, Griffith JL, Al-Jamal MS, Hamzavi I. Role of recipient-site preparation techniques and post-operative wound dressing in the surgical management of vitiligo. *J Cutan Aesthet Surg* 2015;8:79-87.
2. Ashique KT, Kaliyadan F, George RR. Dermabrasion of the recipient skin in vitiligo surgery: an easier way out. *Indian J Dermatol Venereol Leprol* 2018;84:498-9.