



LASERS

## TREATMENT OF DARIER DISEASE USING FRACTIONAL ABLATIVE CO2 LASER: 3 CASES

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**Background:** Darier-white disease (DD) or keratosis follicularis is a common genodermatoses. The disease is inherited in an autosomal dominant manner with high penetrance but variable expressivity. The use of ablative fractional CO2 laser in the treatment of DD has been rarely reported in the literature. Herein, we report 3 cases of DD successfully improved with ablative factional CO2 laser.

**Observation:** Three female patients were followed-up at our department of dermatology for histologically confirmed DD. They were aged respectively 35, 32 and 47 years old. Treatment with ablative fractional CO2 laser was performed as an experimental approach. Acyclovir prophylaxis had been prescribed before and after the session because of the risk of developing Kaposi-Juliusberg syndrome, due to CO2 laser and the disease itself. Laser therapy was performed using 125 mm handpiece, 10-mm spot, 25% density and 6 to 10 W energy. One single pass was performed. Three sessions were performed with a 2-month-interval. One month after laser treatment, results were satisfying. Neither recurrence nor pigmentary disorders nor scars were noted in our patients after one year of follow-up.

**Key message:** DD could be very unpleasant with an impairment of the patient's quality of life. These cases illustrate that fractional resurfacing appears to be a new promising therapeutic method with a safe and acceptable side effect profile. Although further studies are necessary to determine the true efficacy and safety of ablative fractional resurfacing for DD, this relatively non invasive treatment should be considered in patients who have failed or have contra-indications to traditional treatment modalities.

