ABSTRACT BOOK ABSTRACTS



A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

LASERS

EFFECTIVE TREATMENT OF EAR KELOIDS BY CARBON DIOXIDE LASER-ASSISTED RESECTION COMBINED WITH TOPICAL MITOMYCIN-C APPLICATION

Sang Ju Lee⁽¹⁾ - Tae-gyun Kim⁽²⁾

Yonsei Star Skin & Laser Clinic, Dermatology, Seoul, Republic Of Korea⁽¹⁾ - Department Of Dermatology, Severance Hospital, Cutaneous Biology Research Institute, Yonsei University College Of Medicine, Seoul, Republic Of Korea⁽²⁾

Background: Treating keloids on the exposed areas, especially ears, is challenging and needs further effective therapeutic strategies to produce an optimal treatment outcome.

Objective: We investigated the efficacy and safety of combination treatment with carbon dioxide (CO2) laser and subsequent topical mitomycin C (MC) application on ear keloids.

Materials and Methods: A total of 16 ear keloids in 15 patients (female N = 14) were subjected to the bulk resection with CO2 laser, and MC (1mg/mL) was subsequently applied to the resected bed for 5 minutes. All patients were assessed 1, 2, and 3 months after the procedure to evaluate the cosmetic results, recurrence, and postsurgical complications.

Results: An overall clinical improvement of ear keloids was ~95% of all treated lesions. There were no differences in treatment outcome according to the anatomical locations of the ear (ear helix vs earlobe, P=0.244) and the existence of history of previous treatment (yes vs no, P=0.835). Only one recurrence occurred (on the earlobe) and the patients were satisfied with the cosmetic outcomes. Two of 16 cases of ear keloids (one earlobe and one ear helix) revealed mild side effect of hypopigmentation which was generally tolerable.

Conclusions: The combination therapy with CO2 laser and topical MC to ear keloids was successful in preventing recurrences and providing an acceptable cosmetic outcome.





International League of Dermatological Societies *Skin Health for the World*

