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| Thesis Title   | The efficacy of microdermabrasion and vitamin C solution in the treating of Solar lentigine |
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### ABSTRACT

The aim of this study was to evaluate the efficacy of microdermabrasion and vitamin C solution in the treating of Solar lentigine. 18 participants who had solar lentigine on the skin of the right arm and / or the right hand were treated with microdermabrasion and applying vitamin C solution which the concentration of 500 milligrams in 2 milliliters solution. 0.025 milliliters of the solution were applied on the treated lesion. This treatment was performed every 2 weeks in the total of 6 treatments for each participant. Photographs were taken before and after treatment. The resulting photographs were evaluated by five unrelated physicians as well as by The visual analog scale. Comparing before and after photograph revealed that the solar lentigines showed the significant decrease in pigmentation with  $p$ -value  $< 0.05$  (CI = 95%). One participant revealed erosion and the other one revealed ulcer.