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EFFICACY AND SAFETY OF A SUCTION-ENHANCED FILTERED IPL SYSTEM FOR HAIR MANAGEMENT

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Background and Objective: Removal of unwanted hair using selective photothermolysis is an established procedure. In this study, we investigated the feasibility of increasing the efficacy of photothermal treatment by applying negative pressure to the treatment site.

Materials and Methods: A specially designed suction implement was attached to a Palomar Starlux Lux Rs handpiece (Palomar Medical Technologies, Inc., Burlington, MA). 12 subjects with axillary hairs were included and received a single treatment. Four 3×4 cm areas were mapped. Three areas were treated: one site with a LuxRs handpiece with suction, one site with LuxRs handpiece without suction, and one site with a 800 nm diode laser as a benchmark. The fourth area was left as a control. Evaluation of the % hairloss was done at the 1, 3 and 6 month follow-up visits. **Results:** Treatment was well tolerated with all treatment parameters. At 1 month follow-up, all subjects demonstrated significant hair growth reduction in all treated sites. There was a tendency that the greatest hair reduction occurred at the site treated with the LuxRs handpiece without suction at high fluence. **Conclusion:** Subjects continue to be followed to assess if the suction attachment could increase the efficacy of the IPL hair reduction, without compromising safety of the procedure.

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