



LASERS

## NON-ABLATIVE WRINKLE TREATMENT USING 1060NM DIODE LASER

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**Introduction:** Non-ablative laser treatment affect the dermis, which induces an inflammatory cascade that stimulates the dermal fibroblasts and eventually promotes neocollagenesis.

**Objective:** To observe wrinkles treatment with a 1060nm diode laser.

**Materials and Methods:** Subjects underwent 3 monthly facial treatments using LightSheer 1060nm diode laser system, Lumenis Ltd. Each subject had up to three treatment areas: (Area 1: Glabellar Frown lines + Horizontal Forehead lines, Area 2: Periorbital lines, Area 3: Nasolabial folds, Cheek lines, Corner of mouth lines). Subjects were asked to return for a follow-up assessments one and three month after their final treatment.

Wrinkles were assessed based on before and after images using a 5 point Facial Wrinkle Classification. Facial improvement was assessed by the subject and the clinic expert one and three months following the last treatment as compared to baseline using a five-point improvement scale. Subject satisfaction was evaluated by using a 5-point Likert scale .

**Results:** At the interim analysis, a total of eighteen patients (mean age  $49.6 \pm 7.57$ , Fitzpatrick skin type II-IV) were evaluated .For all treated areas, the wrinkles classification improved following treatment and was statistically significant as compared to baseline. Subjects experienced “Moderate” to “very Good” improvement in 56% of the treated areas at the one month follow up visit. Subjects were “moderately satisfied” to “very satisfied” from the treatment in >61% of the treated areas. Wrinkles improvement as observed by the investigator showed that 49% of the areas demonstrated some degree of improvement at one month follow-up visit. The laser procedures were well tolerated with no side effects. Immediate responses included erythema or/and edema.

Additional evaluations by blinded evaluators will be added following final analysis.

**Conclusion:** Treatment using 1060nm diode laser was safe and showed favorable outcomes for wrinkle treatment and skin rejuvenation without any complications.

