Treatment of Infantile Hemangiomas Using a Novel 650-microsecond Pulsed Nd:YAG 1064nm Laser

David Goldberg, MD, Gulia Kasimova, MD
Skin Laser & Surgery Specialists, Hillsborough, NJ; Laser Medicine and Cosmetic Clinic, Kirov, Russia

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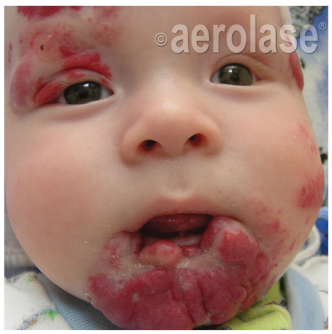
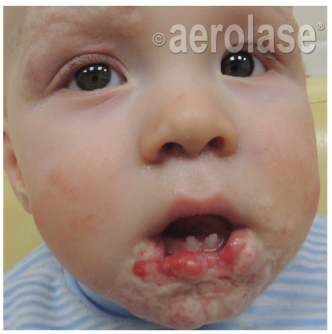
Background: This study was conducted to evaluate the safety and clinical efficacy of a 650-microsecond Short Pulsed Nd:YAG 1064nm Laser for treatment of Infantile Hemangiomas.

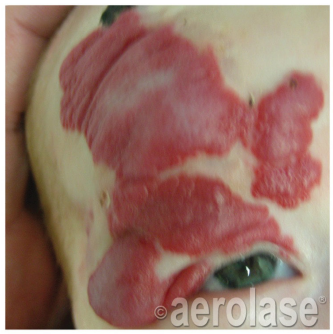
Study: A total of 250 subjects with infantile hemangiomas were treated over a study period of 5 years, mostly aged 1-4 months, 60% female, skin types I-II. An Nd:YAG 1064nm laser was used with a 2-3 mm spot size, 650-microsecond pulse duration and fluence of 42-64 J/cm^2. Consecutive treatments were performed in 1-4 month intervals. Photos were taken before, immediately after, 30 and 180 days after each treatment session.

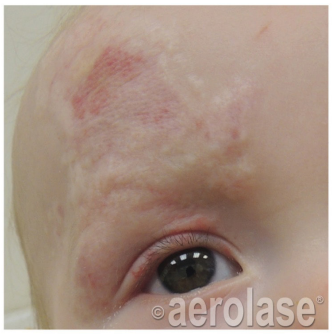
Results: 100% of the subjects exhibited substantial improvement after just on treatment. Treatment time was fast and did not exceed 3-5 minutes for treatment of areas up to 3 cm^2. Patients tolerated the treatment very well with the youngest subjects appearing to tolerate it best. Parents were highly satisfied with the treatment results. No complications were observed.

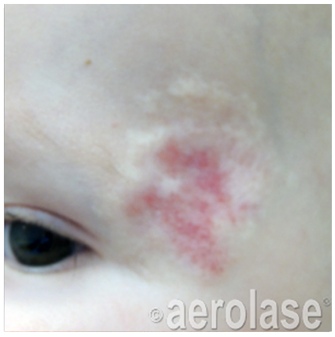
Conclusion: A 650-Microsecond Pulsed Nd:YAG 1064nm Laser delivers a high rate of clearance of infantile hemangiomas with no adverse skin effects.



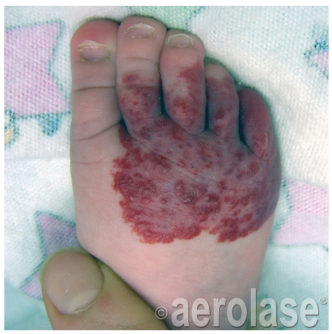
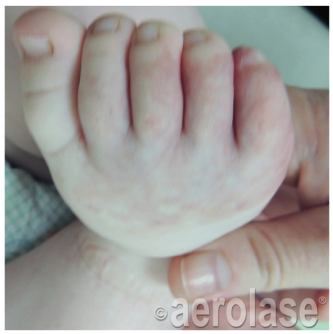
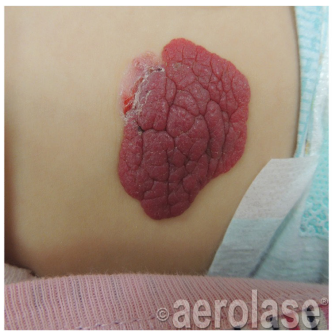
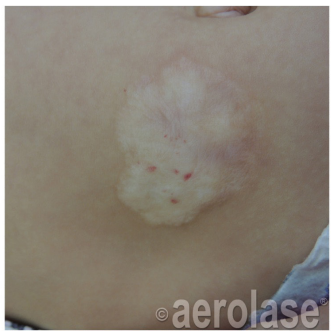


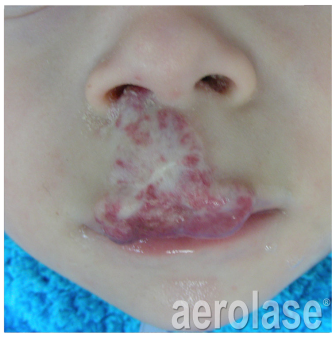




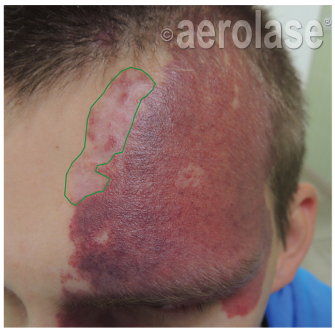
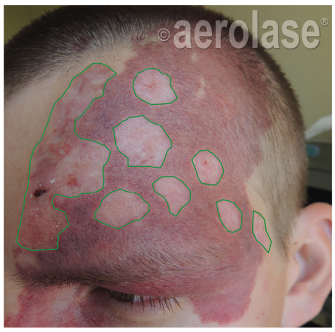


For All Before and After Images:
(1064nm, 650-microsecond pulse duration, 3mm spot size, 42-57 J/cm^2, one full pass across treatment site divided into multiple treatments of approx. 2cm dia. zones)



Special Case: Adult Port Wine Stain (in progress)

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