The Laser and Health Academy (LA&HA®) is a not-for-profit organization, originally established by Fotona d.d., dedicated to the promotion of research, education and publishing in the field of laser medicine. LA&HA® has since become a coordinator of the EU regional Competency Center for Biomedical Engineering (CC BME), connecting five industrial and seven academic research partners. LA&HA is also a member and coordinator of the technology platform Fotonika 21.

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QX MAX in Accelera Mode for Treatment of Cherry Angioma

Zdenko Vizintin

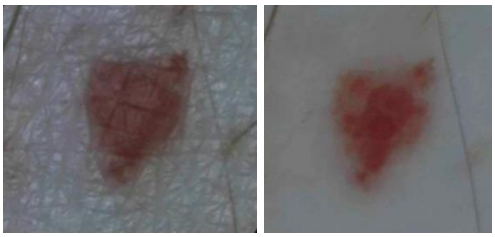
Parameters:

Laser source:	Accelera Nd:YAG (1064 nm)
Fluence:	140 J/cm2
Spot size:	2 mm
Pulse duration	250 µs
No. of shots	5

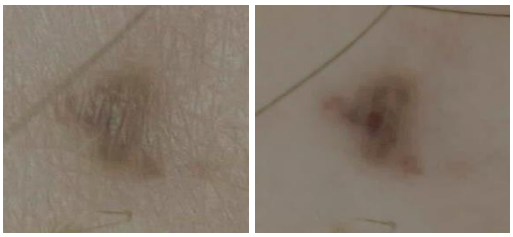
Treatment procedure:

Cherry angiomas are the most common vascular lesions, characterized as cherry red papules on the skin and consisting of an abnormal proliferation of blood vessels. They appear spontaneously in many people and although painless and harmless, many people desire to remove them for cosmetic reasons.

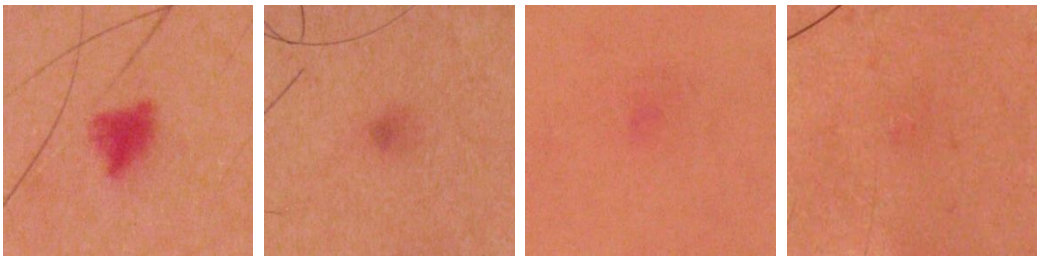
In order to test the effectiveness of the Q-Switched 1064 nm Nd:YAG laser in Accelera mode on small vascular lesions, a cherry angioma was treated with a QX-MAX laser (Fotona, Slovenia). After five shots with a fluence of 140 J/cm2, coagulation of the blood vessels was observed and the lesion started to fade. A similar effect is also observed with long-pulsed Nd:YAG lasers, which represent the common laser treatment for vascular lesions. One month after the treatment, a complete removal of the cherry angioma was observed with no adverse effects.



Dermatoscopic non-polarized (left) and polarized (right) appearance of the lesion before the treatment.



Dermatoscopic non-polarized (left) and polarized (right) appearance of the lesion immediately after the treatment.



Before | 14 days after | 25 days after | 1 month after