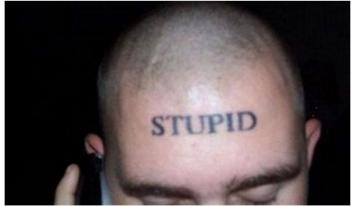
Laser tattoo removal

Introduction

- . WHY?
- Recent Break-up
- Change in Interests
- Maturity
- Career
- Poor Quality





https://en.wikipedia.org/wiki/Tattoo_removal#Laser_removal

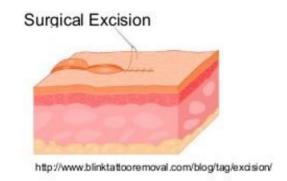
http://emedicine.medscape.com/article/1121212-overview#

Tattoo removal

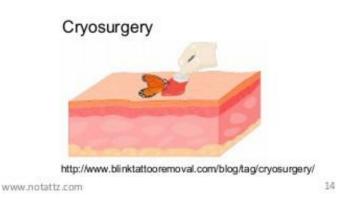
Lasers have become the standard treatment for tattoo removal because they offer a bloodless, low risk, effective alternative with minimal side effects.

Current removal methods



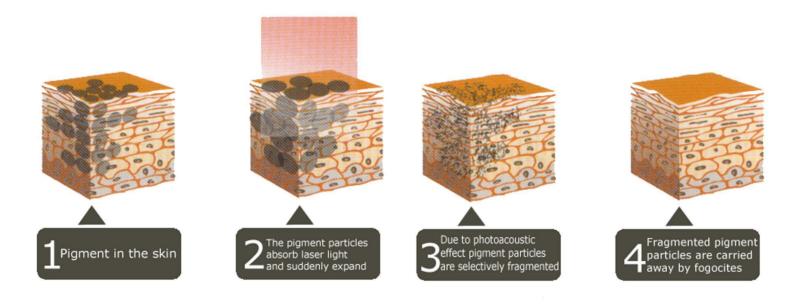






Laser removal

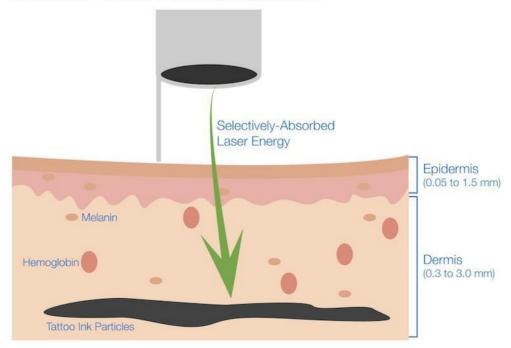
 Laser treatment causes tattoo pigment particles to heat up and fragment into smaller pieces. These smaller pieces are then removed by normal body processes.



Laser-Skin-Ink interaction

- Properties
- deep ink placement
- melanin's ability to absorb light decreases with increasing wavelength
- tattoo-removing lasers must be absorbed by the tattoo granules to effect removal.
- ink may become resistant to certain wavelengths of light

Laser-Skin Interaction



https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2884836

Lasers

- Q-switched Frequency-doubled Nd:Yag: a green light which is highly absorbed by red and orange targets.
- Q-switched Ruby: a red light which is highly absorbed by green, blue and dark tattoo pigments.
- Q-switched Alexandrite: a red light which is highly absorbed by green, blue and dark tattoo pigments.

Q-switched Nd:YAG: a near-infrared light, suitable for darker skin and

dark pigments



Summary

Tattoo removal is most commonly performed using lasers that break down the ink particles in the tattoo.

- + a low risk of scarring
- + and it does not require any incisions to be made near the tattoo.
- + the most effective
- troubles with removing colored tattoo
- skin depigmentation
- various lasers are required