



## **Benefits, Side Effects, and Complications of Laser Treatment**

### **1. Laser treatment**

- 1.1 Pigmented lesions: the treatment effect varies depending on the degree and depth of the pigmented lesions. Shallow pigmented spots may be removed in one or more treatments, while deeper pigmented spots usually require multiple treatments to be removed.
- 1.2 Vascular lesions: laser light is used to shrink or destroy dilated vascular lesions. The treatment effect varies depending on the location, depth, and characteristics of the vascular lesion.
- 1.3 Laser hair removal: laser hair removal only has a destructive effect on hair follicles in the growth phase. A single treatment can only remove 1/3 to 1/4 of the hair, so multiple laser hair removal treatments are necessary.
- 1.4 Other laser treatments, such as stretch mark removal, have different treatment effects and recovery periods depending on individual skin recovery capabilities.
- 1.5 Some patients who receive laser treatment may experience the following side effects and complications:
  - 1.5.1 Pain.
  - 1.5.2 Bruising: most severe on the second to third day, gradually subsiding with appropriate care.
  - 1.5.3 Blistering: may occur within two to three days, gradually subsiding about two weeks later with appropriate care.
  - 1.5.4 Pigment deposition: often seen in areas exposed to ultraviolet radiation, usually disappearing after about six months, but some patients may have permanent changes that cannot naturally fade.
  - 1.5.5 Hypopigmentation: often seen in areas of repeated treatment, usually disappearing after about six months, but some patients may have permanent changes that cannot naturally fade.



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- 1.5.6 Wound infection: 1-5% of patients may experience symptoms such as redness, swelling, and pain due to wound infection, which may require continued medical or even surgical treatment.
- 1.5.7 Scar hypertrophy: often seen in areas of repeated treatment or wound infection, may not naturally disappear.
- 1.5.8 Color change reaction: due to differences in the pigments used in tattoos, the particles may undergo color changes when exposed to heat.
- 1.5.9 Persistent pigmentation: due to differences in depth, residual pigmentation may still exist after laser treatment, and even multiple treatments may not completely remove it. Surgical assistance may be necessary at this time.
- 1.5.10 Other extremely rare unforeseeable complications.