

Conclusion of medical study Hair removal with Powerlite600

Study is conducted by Dr. Justin Dobrescu, specialist in Dermatology at Borås Hospital
Previous studies show the effectiveness of IPL systems when it comes to permanent or long term hair removal. Our purpose was to examine if the effect was the same on all areas of the body, or if it differs depending on anatomic region.

Volunteers

The patients were examined and treated in a private reception. In total 30 people were included in our study. Ages varied, between 17 – 70 years, as did gender. This also applies to skin types II-IV, according to Fitzpatrick, with varying hair colors, from blond to dark-brown. We have treated hair in face, arm pit, groin, legs and back.

Methods and material

Patients were treated with even intervals of 5-6 weeks. This was to catch as many strands of hair as possible in the active phase. The patients were photographed before the first treatments began and again before each new visit. The number of hairs were counted each time on a standardized area of 2,5 x 2,5 cm.

Disregarding part of the body, the treatment was begun with shaving, so that more energy could reach the follicle of the hair. Thereafter cool gel was applied on the area of skin that was to be treated.

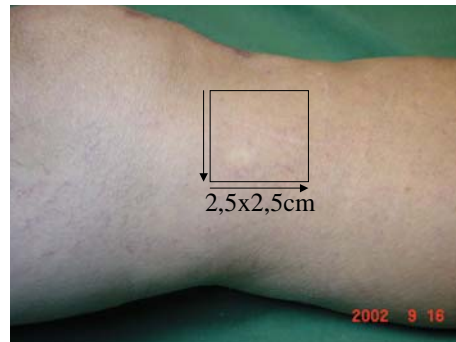


Before Treatment

The gel counter effects burns, moistures the skin and prevents reflection of the IPL-beams that shall penetrate deep into the skin, to the hair follicle.

The gel was removed after a few minutes, so that it could absorb all thermal energy from the skin. The treatment was given with variable flash duration between 30-50 milliseconds depending on skin type. The number of treatments given was with an average of 2,8. After the treatments the patients

used sun block on the treated areas during the summer.



After Treatment

Results

74% of the volunteers found the results as good, which also was shown on the clinical evaluation: 70-100% hair removal. The remaining 26% had a clinical hair removal of over 50%.

Treatments were given in 2-4 sessions, so the hair disappeared gradually. The best results were reached where the hair was thick and dark. In these cases 81,6% of the hair was removed. In cases where the hair was blond and thin more treatments were needed. There were no differences in results between men and women.

Still it is the thickness and color of the hair that matters. The best results were achieved when the contrast between skin color and hair color was the greatest.

Side effects

There were no major side effects, neither directly after the treatment nor later. Some redness has been noticed shortly after the treatment on a few patients. However there were no large subjective ailments. The side effects were considered mild and reversible. We did however have one case of hyper pigmentation (a patient with skin type IV).

Conclusion

Our study is so far a short time study. The results that we achieved are coherent with other studies that have been done previously in the world. It proves that IPL is a modern, comfortable and safe alternative with few side effects for those whom wish for permanent hair removal.