PERMANENT HAIR REMOVAL: Fact vs. Fiction (part II)



The Tweezer Method

This method, first patented in 1959, passes an electric current through tweezers, which grasp the hair on the surface of the skin. Electricity enters through the hair to its root and 'permanently' damages it. Although the U.S. Federal Trade Commission Order barred electric tweezers in 1985, a loophole remained regarding DC tweezers. The scientific community has doubts because hair is a poor conductor of electricity and therefore believes it merely dissipates on the skin, rather than passing through the hair.

Any product, claiming to remove hair permanently simply by treating the problem on the surface of the skin, without entering the hair follicle, is questionable and has potential to damage the skin. Electrolysis is different because a needle is inserted directly into the hair follicle below the surface of the skin to the dermal papilla, then the current is targeted exactly where it is needed for the optimum success rate.

Transcutaneous & Transdermal **Techniques**

Following the barring of AC tweezers some modifications were made. The electric tweezers were replaced by an electrified cotton swab/adhesive patch and called transdermal electrolysis. This uses direct current (DC) passed through a conductive gel on the surface of the skin for transdermal delivery without the use of a needle. To date, no clinical data is available to support the claims made by the manufacturers.

Ultrasound Technology

These systems claim that ultrasound waves are channelled precisely down the hair shaft and in the process transform to thermal energy, which then super heats the hair growth areas and inhibits regrowth. It states the waves are bound to the hair shaft and do not dissipate into the skin, and its marketing suggests 'total hair removal'. It reports on a

ten of whom reported benefits Launched in 1969, this was including hair reduction, developed from laser hair slowing of hair growth and removal research. After a finer hair. Further test results, chequered start, the FDA documented on 36 men and women for a period of several months, were evaluated by Professor Kassuto who concluded that the efficacy is similar to the top commercial light based systems. Some machines offer the option of a needle probe which, according to the manufacturer, delivers an additional boost of

total of only 46 test subjects,

sound energy to remove the

stubborn hair. One ultrasonic

hair removal device has applied

to the FDA but no results are

available to date.

Microwave

Technoloav

The safety and effectiveness of

microwave technologies has

Microwaves are radio waves

with a short frequency range.

The indiscriminate heating is

its biggest drawback and the

reason the FDA has cleared it

for body use only.

not been proven scientifically.

finally issued clearance to one company in 1999 for manufacture and marketing Photoepilators use a burst of filtered light aimed at individual hairs which are then tweezed. The method is comparatively slow and time-consuming and there is no clinical data published, to date, to support any of the permanency claims.

Photoepilator

Oral **Medications**

Some retarding hair growth medicines are found to be effective, for example Spironolactone and Flutamide. Athough some can have serious side effects.

Vaniqa is an FDA approved prescription only topical cream which claims to help reduce unwanted hair growth. The best results are demonstrated when used in conjunction with Laser, IPL or electrolysis.

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In the previous issue of Vitality we put a number of 'permanent' hair removal technologies under the microscope, including electrolysis, Laser and IPL. In the second and final part of this feature we look at how the Tweezer Method; Ultrasound technology; Transdermal Techniques; Microwave; Photoepilator and Oral Medications measure up.

As a therapist or consumer, tempted to try or buy into some of these methods of hair removal, thoroughly research and carefully consider any new, exciting or 'next generation' device. It is very easy to be seduced by sexy images, clever technical jargon and white coats. If a hair removal method makes promises that seem too good to be true...they probably are!