

Title : Artificial hair grafting Biofibre in 2 cases of alopecia totalis and experimental test in eyebrows

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The problem of alopecia affects both sexes and all ages with significant psychological discomfort. Along with androgenic alopecia there are forms of alopecia of various origin: traumatic, surgical, pharmacological and others.

Biofibre Hair Implant is a soft surgery technique which is performed under local anaesthesia by manual planter or automatic machine that enables an immediate aesthetic result and the desired quantity of hair without pain, scars or hospitalization. It can be used on the frontline and on the parietal scalp area for diffuse hair loss or hair thinning. Biofibre hair implant is also used as integration for other hair restoration procedures to supply more volume on donor depleted cases

Correct hair implant procedure need to keep into consideration: safe medical fibers, suitable implant instruments ,appropriate medical protocols, proper after care.

Biofibre® hair is a CE and TGA approved medical device for hair restoration. It is made of special biocompatible co-polyamide and shown their features of biocompatibility, absence of bacterial adhesion, flexibility and durability. It allows a very low tissue trauma ensuring a natural aesthetic result. Available in 13 colors in smooth, wavy or curly shape and in 15cm,30cm and 45 cm length. Have to be washed and dry like natural hair.

The reversible knot of Biofibre can be pulled out entirely . This contributes to the implant safety, allowing to complete remove the fiber if necessary.

Tissue trauma is minimized not only by the type of fiber but also by using suitable instruments. Automatic hair implant machine minimize implant trauma, speeds up cicatrisation and implant procedure ensuring a higher degree of fixation and a perfect implant even after many hours of work.

Biofibre hair Implant safety and effectiveness is also validated by vast clinical trials and histological studies at 3 years after implant. The histopathology study shown that new pseudo infundibulum forms a keratin layer which surrounds this biocompatible implanted fibers reducing risk of external contamination. No inflammatory infiltrate is noticed.

Our patients are brother and sister having a total alopecia and have been treated with Biofibre hair implant. Also a Biofibre implant on eyebrows was performed as experimental application for Biofibre. Patients were informed about large number of fibers required and possible risks.

Preliminary tolerance implant test of 50 fibers was performed 4 weeks before first session. Every patient received 16 implant sessions shared during 4 months after the test. Average quantity of implanted fibers per session was 1560 in the female and 935 fibers in the male. Systemic and local antibiotics were administered after every session. Small additional implant session will be scheduled every 6 -12 month to replace the fallen fibers and keep the expected result. Yearly falls expected in this case of massive treatment is around 15-20%. Strict respect of after-care prescription and frequent medical checks is required.

Aesthetic result obtained with this procedure was very encouraging for male and female patient. They recovered many self-esteem and benefits from great psychological comfort. It is encouraging steps to enlarge the use of this technique also in case like that despite it doesn't remain the best application for this technique cause the very high number of implanted fibers.

The female benefited of 25,000 Biofibre long hair.



The male received 15,000 Biofibre hair.



On the male was also experimented eyebrows implant despite that is not considered as main indication for Biofibre hair.

