GDBALL MY

2007 ISHRS (International Society of Hair Restoration Surgery) in Las Vegas

"Different Etiology, Different Solution"



탈모환자창출 프로젝트 제안서 1Day 1Patient II



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Introduction

Mesotherapy, as broadly defined, represents a variety of minimally invasive techniques, in which medications are directly injected into the skin and underlying tissue, in order to improve local medical and cosmetic conditions.

Although mesotherapy was traditionally employed for pain relief, its cosmetic applications

such as fat and cellulite removal, facial skin rejuvenation, and hair loss restoration have recently received attention. However, there is no clinical study evaluating the efficacy of mesotherapy in hair loss.

Material and Methods

Eight subjects underwent mesotherapy involving multiple injections of our formula. Treatment was performed at one or two weeks intervals for 3-6 months. All subjects were diagnosed with male pattern hair loss [Norwood's classification III and more] and did not receive any treatment. Before and after-treatment photographs were taken. After the 10th treatment, the changes of hair follicle diameter, hair density and vellus/terminal hair ratio were evaluated by trichotogram in all the subjects, After the 20th treatment, 2 subjects had before and after-treatment scalp skin biopsies.

Our formula

Lidocaine

Buflomedil [Vasodilator]

Bio Solution A [Copper peptide, Zinc sulfate, Pyridoxine HCL, Biotini, D-Panthenol, Nicotinamide]

Bio Solution B [16Vitamins, 4 minerals and 22 amino acids, 3 Coenzymes, Hyaluronic acid, and Glutathion]

Injection Technique

Injection Technique Meso Gun with 5ml syringe and 30G 13mm needle.





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Trichophotogram: Folliscope

8 patients took Meso-pecia after 4 points were tattooed. We measured [1] the change of hair diameter, [2] the change of hair density, FU density, and Vellus/Terminal Ratio at before and after the 10th treatment

Biopsy

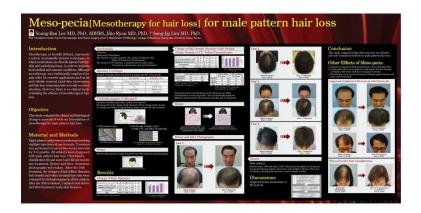
After the 20th treatment, 2 subjects had before and after-treatment scalp skin biopsies

Results

Mesopecia is the most efficatious on the frontal area on which miniaturization is more progressive. There is statistically significant difference between before the treatment and after only 10 treatments.

Side effects

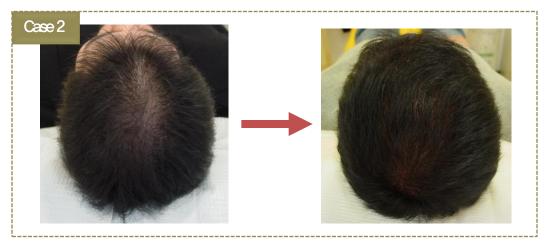
Between July 1, 2004 and Aug 31, 2007, Meso-pecia was applied to 372 patients. Among the follow-up patients, there was 1 case of slight erythema. There was no infection, shedding phenomenon or severe allergic reaction.







































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Injection Technique
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Injection	Our Method	Original Method
Site	IDS(Intra Dermal Superficial)	IDS(Intra Dermal Superficial)
Technique	Point by Point	Point by Point
Depth(mm)	1~2	3~4
Pain	Less painful	May have pain
Erythema, Fibrosis or Allergic Rx.	Rare	May induce

Change of Hair Diameter

	Frontal	Middle	Vertex	Occipital
Change of Mean DM(µm)	13.8	7.7	11.8	1.0
Standard Deviation(µm)	5.6	4.0	10.1	2.7
Change in %	24.3	13.0	20.8	1.3
T test	P<0.01	P<0.096	P<0.05	P<0.775





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Change of Hair Density

	Frontal	Middle	Vertex	Occipital
Increased Number(No./cm²)	19	8	10	2
Standard Deviation(No./cm²)	7.1	4.3	6.3	4.2
Change in Hair Density (%)	13.7	5.6	6.8	1.2
T test	P<0.01	P<0.108	P<0.144	P<0.820

Transition of V/T ratio on Frontal Points

	Before Treatment	After 10 treatmens
Terminal Hair(%)	49.0	79.4
Vellus Hair(%)	51.0	20.6
V/T ratio	1.04	0.26





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Change of FU composition on Frontal Points

	Before Treatment		After 10 Treatment	
	No./11.2mm ²	%	No./11.2mm ²	%
1 hair FU	81	79.4	74	67.9
2 hair FU	20	19.6	32	29.4
3 hair FU	1	1.0	3	2.8
Total	102	100.0	109	100.0

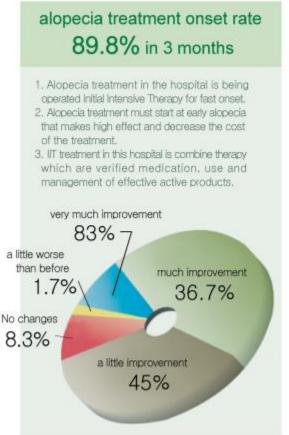
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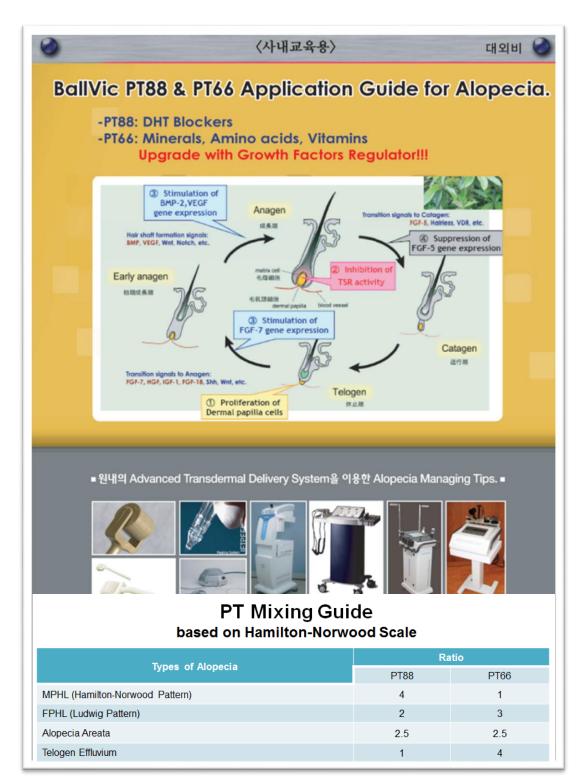
average time for onset of alopecia treatment 5.82 Weeks

effect of treatment	time for onset	
Feel the hair strength		
Decreased number of the hair lose	3.98 w	
Certainly thickened the hair	5.69 w	
Find new vellus hair	7.20 w	
average	5.82w	

*It was reported after IT patients felt the hair healthy average 5.82 weeks later.











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