DR.CYJ
HAIR FILLER
Hair cell and scalp revitalization

“Sustained Release & Peptide Technology”
The 1st Hair Filler in the World

Hair Filler developed by Innovative peptide complex for Hair re-growth, Scalp re-construction

Specialized Peptide Complex for Hair Re-growth

**Description**
1 cc gel in prefilled syringe

**Indication**
Promotes blood circulation in the scalp and revitalizes hair follicles. Induces hair growth by increasing the size of hair follicle and stops hair loss.

**Protocol**
1) Apply topical anesthetic cream on the target scalp area
2) After 30 min, clean the applied cream then sterilize with alcohol swab
3) Inject DR.CYJ Hair Filler on the target area with 30G Needle
   ① Injection Technique: Point Injection
   ② How to inject
      ● Injection point every 0.2~0.3 cm
      ● 1.0 cm per line
      ● Inject 0.02~0.05 ml per point

Treatment: 1 session every 2 weeks for 8 weeks (Total: 4 Session)

**Application**
- Alopecia Patients for Man and Woman.
- Man & Woman who have a general thinning hair.
- Hair transplant recipients who want to increase survival rate.
- Alopecia patients who want to have Synergic effect combining with other application for anti-hair loss / hair re-growth.

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1. Expression of Hair Growth Related Genes

Cell: HHFDPC cell p8 (Human Hair Follicle Dermal Papilla Cells)
Culture time: 24 hrs
Method: RT-PCR analysis
Positive Control: Minoxidil 1ug/ml

Expression of growth factors related to growth of hair follicle by Hair Filler Complex on Human Hair Follicle Dermal Papilla Cell
We observed HGF and VEGF expression are regulated by treatment with Hair Filler Complex. Hair Filler Complex promotes hair growth through stimulatory effect on HGF and VEGF gene expression in HHFDPC.
2. Expression of Hair Growth Related Proteins

Cell: HHFDP cell p8 (Human Hair Follicle Dermal Papilla Cells)
Culture time: 24 hrs
Method: Western blot analysis
Positive Control: Minoxidil 1ug/ml

Expression of growth factors related to growth of hair follicle by Hair Filler Complex on Human Hair Follicle Dermal Papilla Cell
Hair Filler Complex promotes hair growth through stimulatory effect on IGF-1 and FGF-7 protein expression in HHFDPC.

3. Inhibition of DHT-induced Hair Loss Related Gene Expression

Cell: HHFDP cell p8 (Human Hair Follicle Dermal Papilla Cells)
Culture time: 24 hrs
Method: RT-PCR analysis
Positive Control: Minoxidil 1ug/ml
Stimulator: DHT 5ug/ml

Inhibition of hair loss related gene expression
DHT-induced expressions of hair loss-related genes, DKK-1, IL-6 and TGF-β1 were reduced by Hair Filler Complex treatment.

4. Inhibition of DHT-induced Cell Apoptosis

Cell: HHFDP cell p6 (Human Hair Follicle Dermal Papilla Cells)
Culture time: 3 days
Method: SRB staining
Positive Control: Minoxidil 1ug/ml
Stimulator: DHT 5ug/ml

Cell growth assay after treatment of Hair Filler Complex on Human Hair Follicle Dermal Papilla Cell
Hair Filler Complex inhibits DHT-induced hair cell apoptosis
Human Clinical Study Before vs After

CASE# 01.  Sex.M/Age.29
Before  After(2month)

CASE# 02.  Sex.M/Age.45
Before  After(2month)

CASE# 03.  Sex.M/Age.28
Before  After(2month)
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