

CHAC technology

CELLBOOSTER®

CELLBOOSTER® Hair

Results of the clinical trial
on healthy subjects





Rationale of the clinical trial

***Fighting hair loss & Strengthening hair follicles
to improve hair density and quality***

Hair aging: and if restoring nutrients into the scalp may help to fight against hair loss and stimulate their growth by acting on hair follicles?

THE FOUR MAIN CAUSES OF HAIR LOSS¹

Hormonal

- thyroid imbalance
- high testosterone
- dihydrotestosterone (DHT)
- polycystic ovarian syndrome (PCOS)
- insulin resistance
- estrogen dominance
- high cortisol

Micronutrient Deficiencies

- vitamin B12
- biotin
- iron
- zinc
- silica
- gamma linolenic acid (GLA)
- lack of protein

Environmental

- heavy metal toxicity
- chemical treatments
- mites

Autoimmunity

- alopecia areata

HORMONESBALANCE.COM

If a product that contains these nutrients can be injected into the scalp, it should be possible to reduce hair loss and stimulate their growth.

1. <https://hormonesbalance.com/articles/causes-of-hair-loss-in-women-and-potential-treatments/>

CELLBOOSTER® HAIR



BOX 6 X 3 ml vials

Device designed for **strengthening hair follicles**,
improving **hair growth** and **microcirculation**.
It restores scalp skin structure and provides **hair
fiber restructuring**.

- ✓ Hair growth acceleration
- ✓ Nourishes the scalp and fortifies follicles
- ✓ Prevents hair loss and graying

In a few more details

CHAC technology
CELLBOOSTER®

HAIR

INDICATIONS:

- Non cicatricial alopecia,
- Alopecia areata,
- Androgenic alopecia,
- Damaged hair shaft (brittle, dull color, split ends),
- Premature graying,
- Seborrhea, psoriasis.

TREATMENT AREAS:

- Epidermis and dermis of:
- The scalp (near hair roots according to the mesotherapy applied technique).

COMPOSITION:

Stabilized
HYALURONIC ACID 18 mg

VITAMINS

- Niacin
- Pantothenic Acid (B5)
- Pyridoxine (B6)
- Biotin (B7)
- Cyanocobalamin (B12)
- Rutin



AMINO-ACIDS

- Arginine
- Cysteine
- Glutamine
- Glycine
- Lysine

COPPER

ZINC

STRENGTHENING COMPLEX
CHAC technology



- ✓ Nourishes the scalp and fortifies follicles,
- ✓ Accelerates hair growth,
- ✓ Prevents hair loss and graying.



*CELLBOOSTER® Hair clinical trial
Methodology*

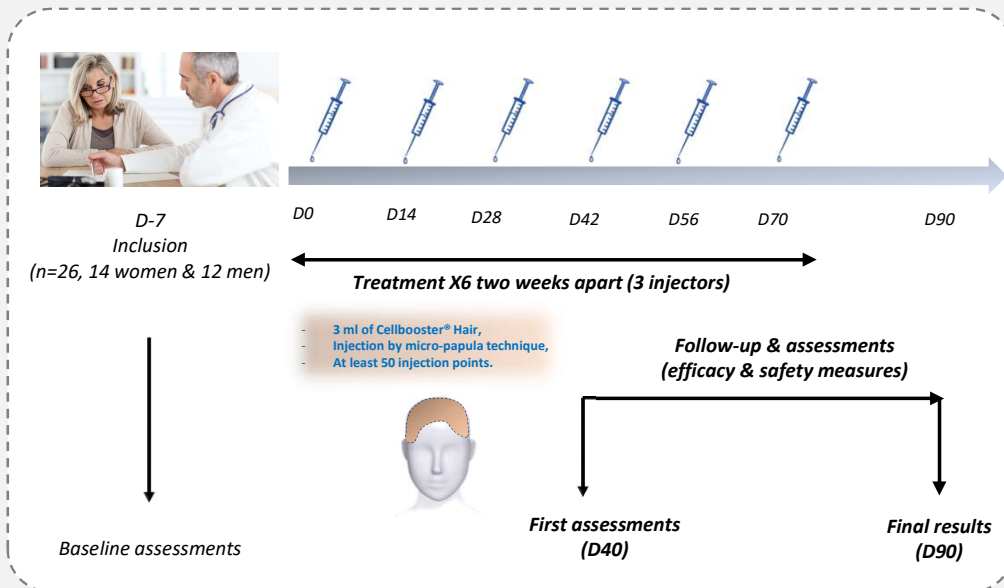
suissele 
beauty • science • innovation

CELLBOOSTER® Hair Clinical trial: methodology¹

Study purpose

- ✓ The objective of this study was to clinically assess the effect on hair density and hair quality after 6 sessions of CELLBOOSTER® HAIR injections on 26 healthy subjects, equally shared between men and women.

Patient treatments, follow-up & assessments



Assessments

- **Hair quality clinical analysis:**
 - Thickness,
 - Shine,
 - Hair loss
- **Hair density & thickness improvement:**
 - Scoring on macrophotography with Proscope x30
- **Hair Shine:**
 - Measurement with Glossymeter
- **Effect of the product:**
 - Scalp photographs by LifeViz 2D mini®
- **Subject satisfaction (self assessment) and GAIS (global aesthetic improvement scale)**
- **Tolerance**
 - Check of the absence of undesirable events at each visit.
 - Each adverse event was reported within 48 hours and was included in the study report.

CELLBOOSTER® Hair Clinical trial: methodology¹

Patient inclusion

✓ Inclusion criteria

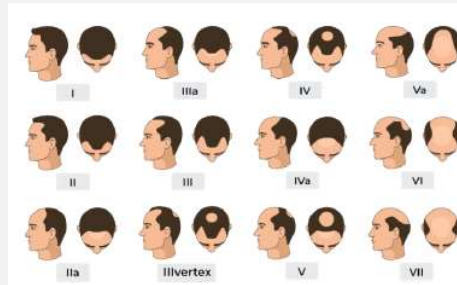
General criteria:

- Subjects able to follow the trial procedures,
- Subjects giving their free and written consent after oral and written information about the study,

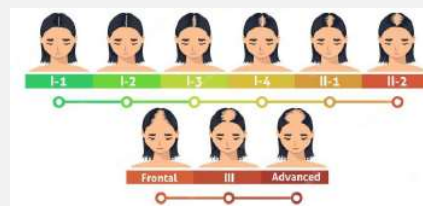
Specific criteria:

- Women or men, age over 18 years old,
- For men, qualification by the **Norwood-Hamilton scale**: class 2a, 3, 3a or 3a vertex,
- For women, qualification by the **Ludwig scale**: type 1 or 2,
- Women agreed to perform a pregnancy test (for women who can procreate a pregnancy test will be performed before each injection),
- Low to moderate capillary density,
- Subject not using care (topical or systemic) intended for hair growth/improvement,
- Subject agreeing not to be exposed to the sun for the duration of the study.

Norwood-Hamilton scale



Ludwig scale



✓ Principal exclusion criteria - subjects with:

General criteria:

- Currently participating in another clinical study related to pharmaceuticals or medical devices or subject in a period of exclusion from a clinical study,
- Facial injections/implants of any non-absorbable filler in his or her lifetime,
- Pregnant or lactating woman,
- Often exposed to the sun or UV during the last 15 days.

Allergies & inflammatory condition or other risk of infections:

- History of multiple severe allergies or anaphylactic shock,
- Known hypersensitivity to hyaluronic acid or to chlorhexidine,
- Tendency to develop inflammatory skin reactions or hypertrophic scars,
- An inflammatory skin reaction on or near the area to be treated (according to the opinion of the investigator),
- History of streptococcal disease (recurrent angina, rheumatic fever),
- Skin pathology, or an acute inflammatory reaction or bacterial or viral infection, at the study area level, or seen 6 weeks after the end of such an episode,
- Epilepsy not controlled by treatment,
- General pathology, skin pathology, dermatosis, acute or chronic systemic disease, and/or taking general or topical treatment that in the opinion of the investigator may interfere with the treatment or compromise the subject's participation in the study,
- Dermatological diseases that can reach the scalp (for example: pelade or lichen planus),
- Endocrine disruption mainly affecting the thyroid and more specifically hypothyroidism.

Concomitant treatments:

- Oral/injectable corticosteroid (or not stopped for ≥ 3 months). Inhaled corticosteroids are allowed as well as topical corticosteroid therapy not involving study areas,
- Concomitant treatment (or not stopped for ≥ 1 year) of immunosuppressant or chemotherapy - A history of less than 12 months of radiation therapy at the study area level or of autoimmune pathology or connective tissue,
- Aspirin or anti-coagulants in regular doses during the past 15 days.



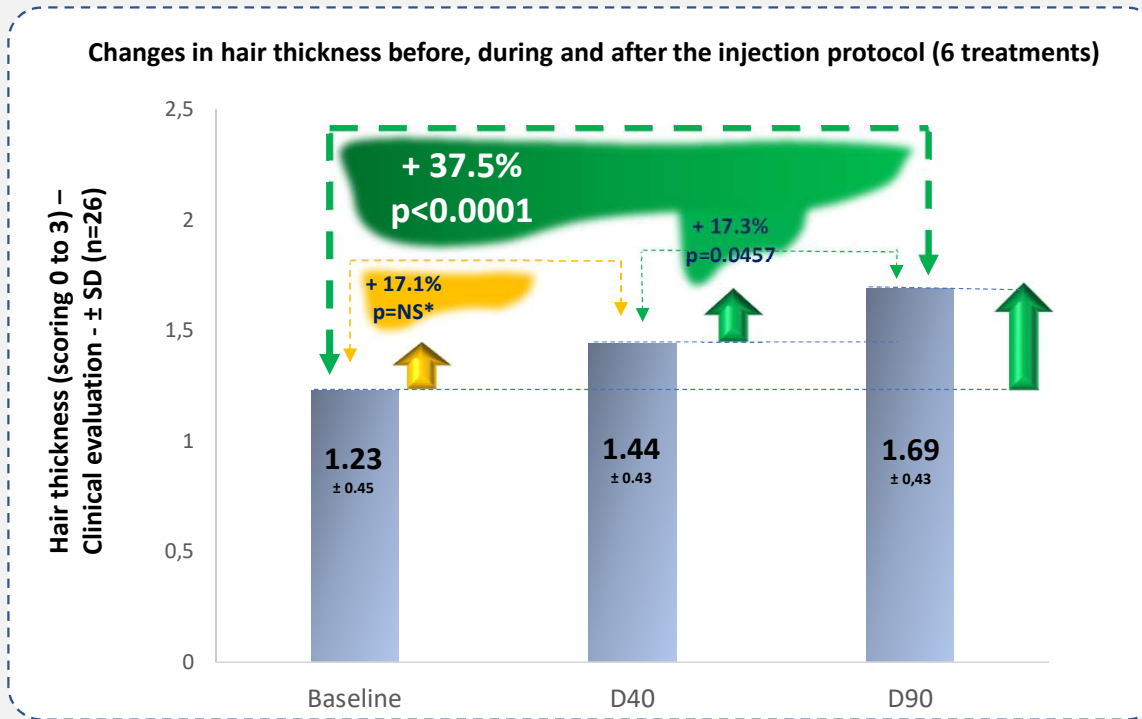
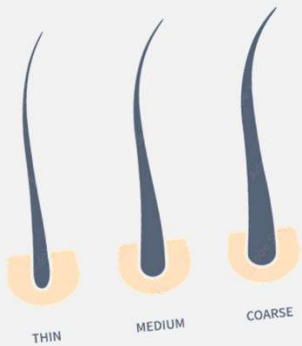
*CELLBOOSTER® Hair clinical trial
Results*

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CELLBOOSTER® Hair: for more strength and resistance of their hair

A significant improvement of hair thickness 3 weeks after the injection protocol (6 treatments)

Clinical Evaluation



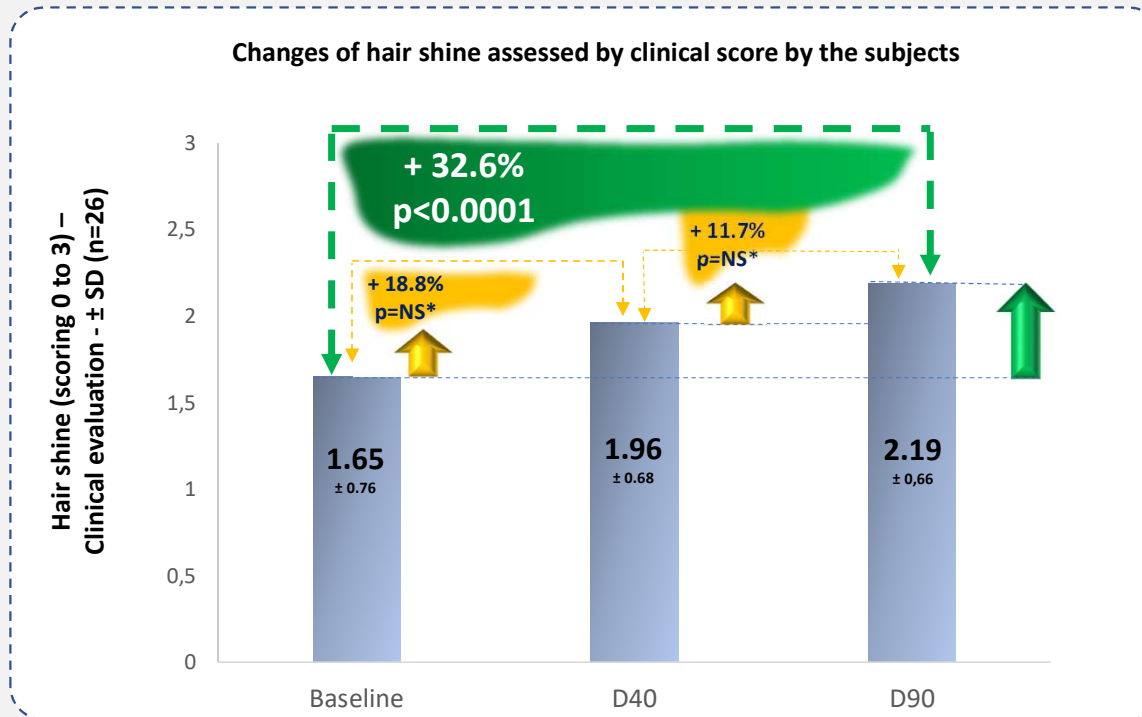
A continuous & additive improvement in hair STRENGTH after injections of CELLBOOSTER® Hair
 with a more and more SIGNIFICANT & beneficial effect

* Not significant
 Statistical analyses were performed with the Friedman test.

CELLBOOSTER® Hair: for shiny hair

A significant improvement of hair shine 3 weeks after the injection protocol (6 treatments)

Clinical
Evaluation



+32.6%
SHINE

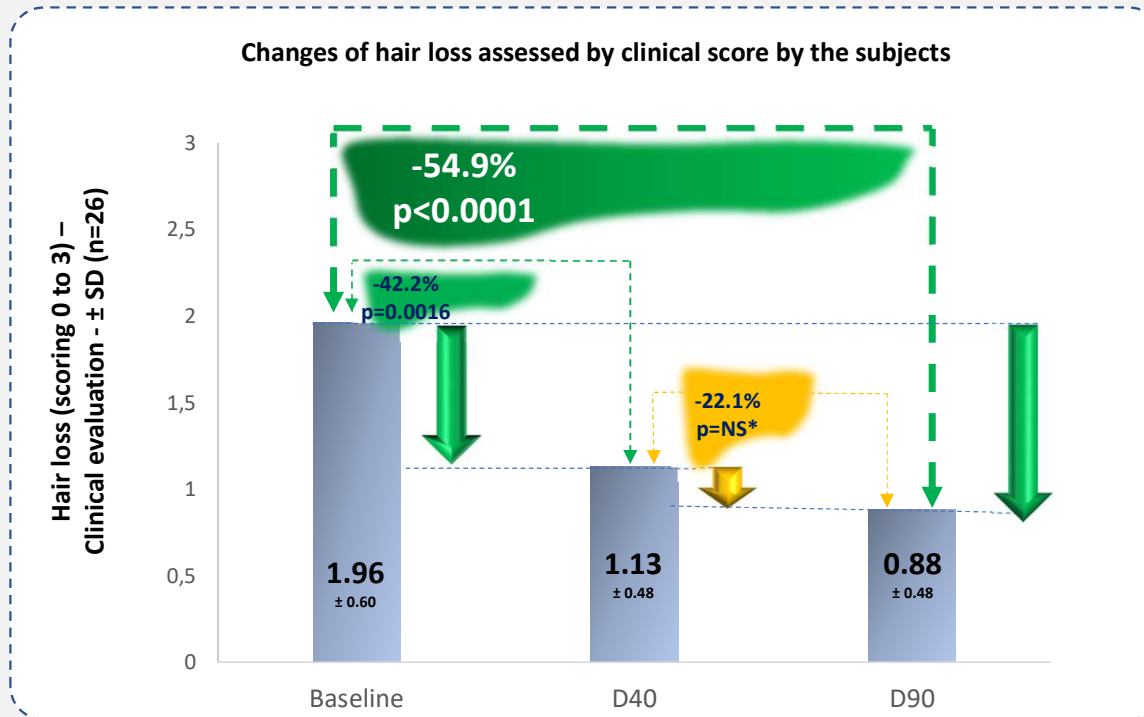
CELLBOOSTER® Hair for more shiny and beautiful hair
with a **SIGNIFICANT** benefit after 6 injections

* Not significant
Statistical analyses were performed with the Friedman test.

CELLBOOSTER® Hair: for significantly less loss

A significant reduction in hair loss 3 weeks after the injection protocol (6 treatments)

Clinical
Evaluation



-54.9%
LOSS

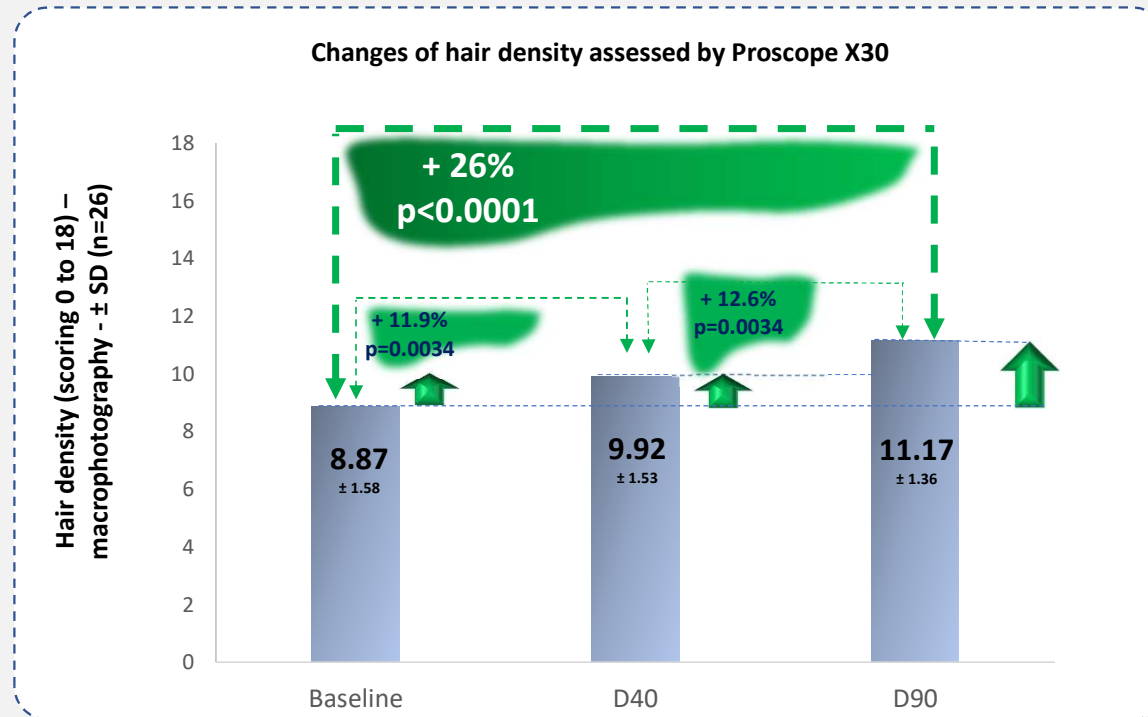
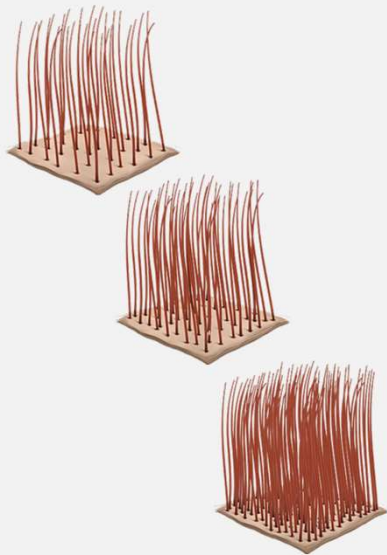
CELLBOOSTER® Hair for a SIGNIFICANT reduction of hair loss
After 3 injections and even more after a full protocol of 6 injections

* Not significant
Statistical analyses were performed with the Friedman test.

CELLBOOSTER® Hair: for more density

A significant improvement of hair density 3 weeks after the injection protocol (6 treatments)

Macrophotography
(Proscope X30)



+26%
DENSITY

CELLBOOSTER® Hair for more DENSITY of the hair in all assessed areas
(posterior & middle central line, vertex, occiput, left & right temple)

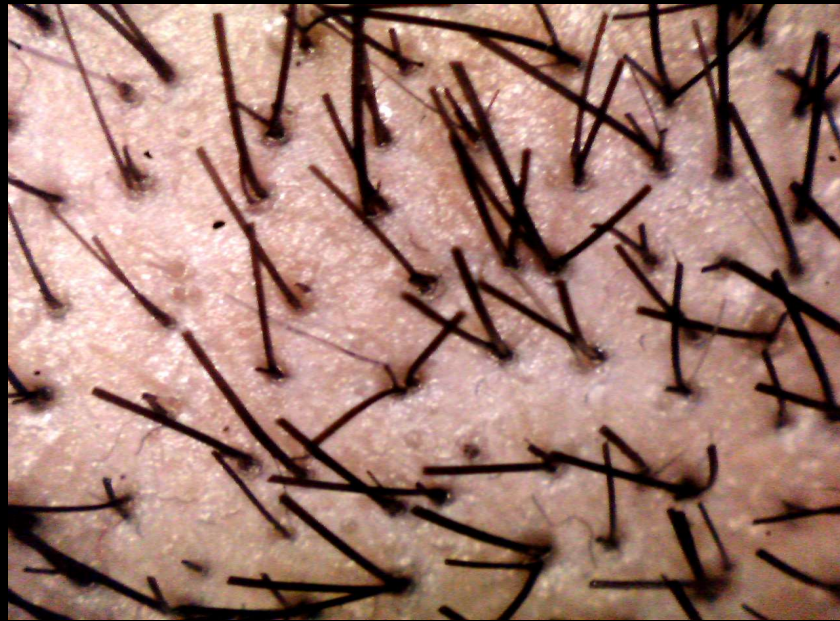
with a SIGNIFICANT benefit after 3 injections and an even more pronounced effect after a full protocol (6 injections)

CELLBOOSTER® Hair: for more density

A significant improvement of hair density 3 weeks after the injection protocol (6 treatments)

*Example of
obtained results*

J0



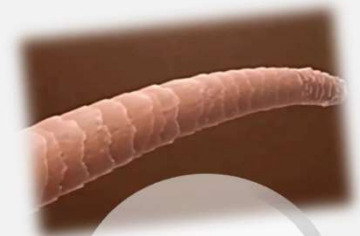
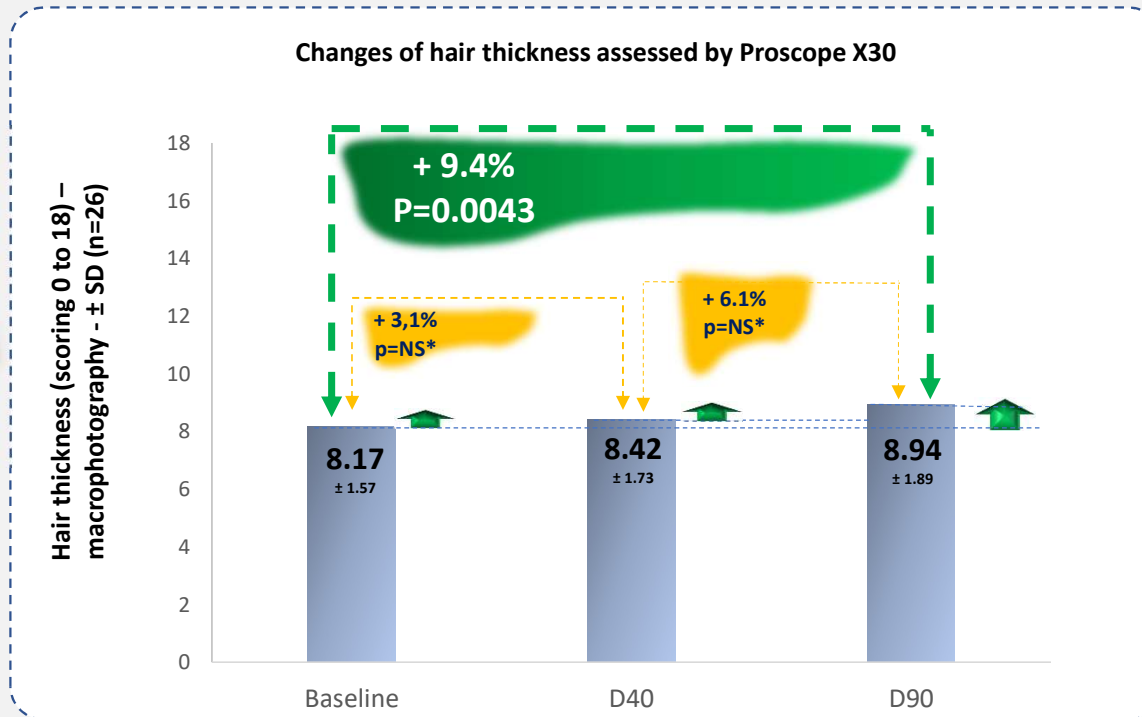
J90



CELLBOOSTER® Hair: a confirmation of the improvement of hair thickness by Proscope X30

A significant improvement of hair thickness 3 weeks after the injection protocol (6 treatments)

Macrophotography



+9.4%
THICKNESS

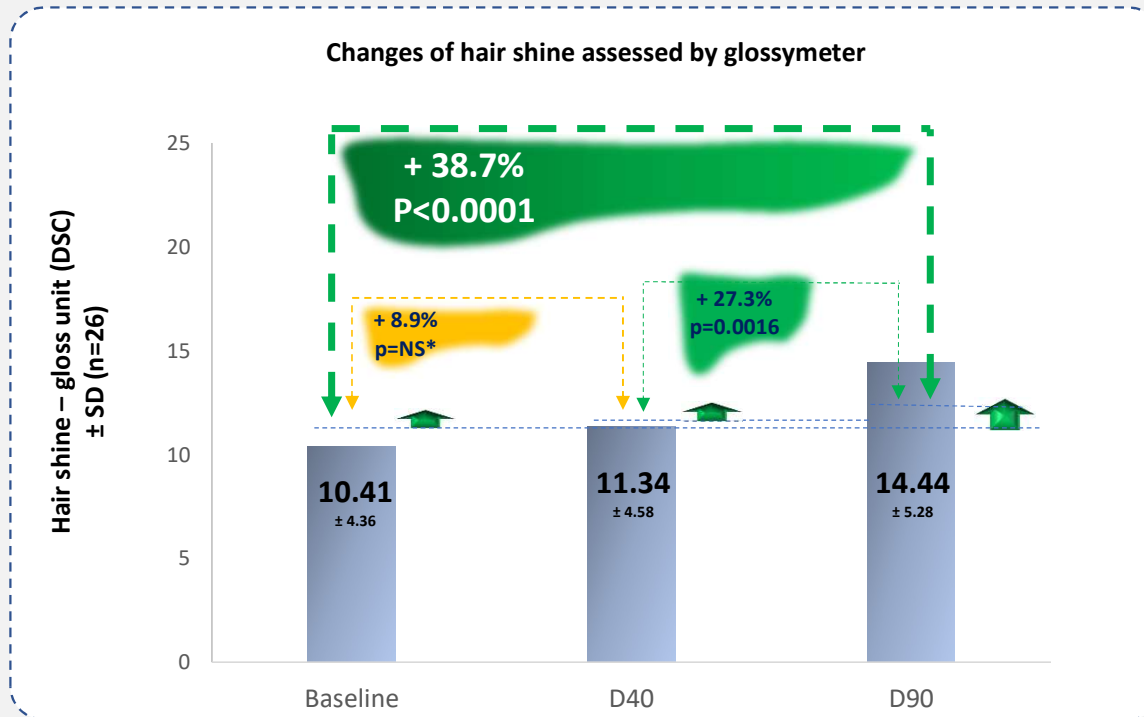
A biometric confirmation of hair THICKNESS improvement with CELLBOOSTER® Hair with a SIGNIFICANT benefit after a full protocol (6 injections)

* Not significant
Statistical analyses were performed with the Friedman test.

CELLBOOSTER® Hair: a confirmation of the improvement of hair shine by glossymeter

A significant improvement of hair shine 3 weeks after the injection protocol (6 treatments)

Biometric
assessment
(glossymeter)



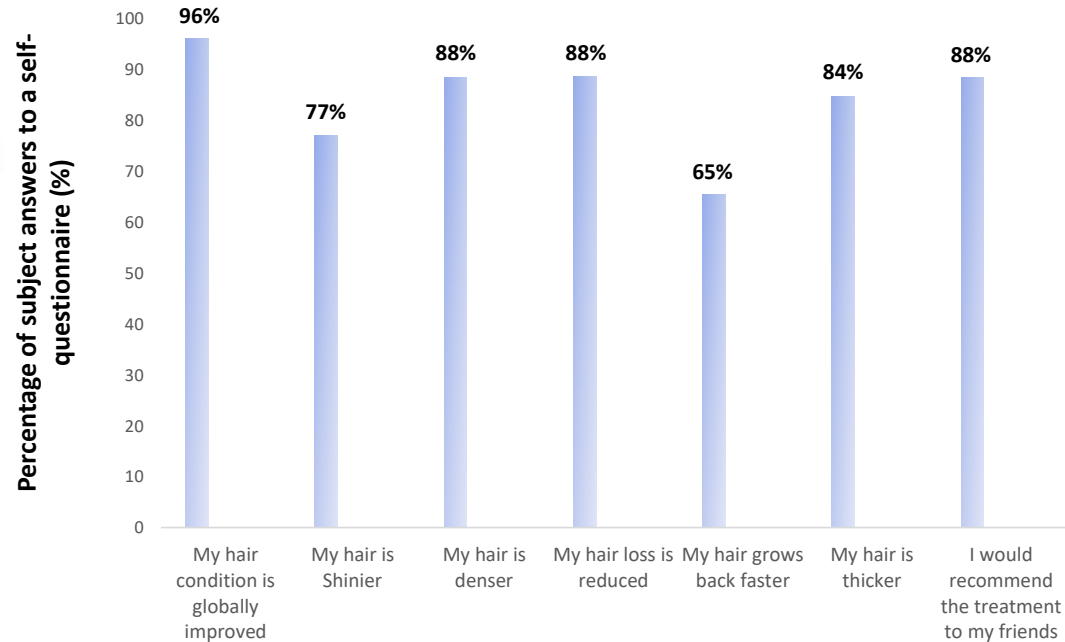
+38.7%
SHINE

A biometric confirmation of hair SHINE improvement with CELLBOOSTER® Hair
with a **SIGNIFICANT** benefit a full protocol (6 injections)

* Not significant
Statistical analyses were performed with the Friedman test.

CELLBOOSTER® Hair: a high satisfaction of subjects after 6 injections

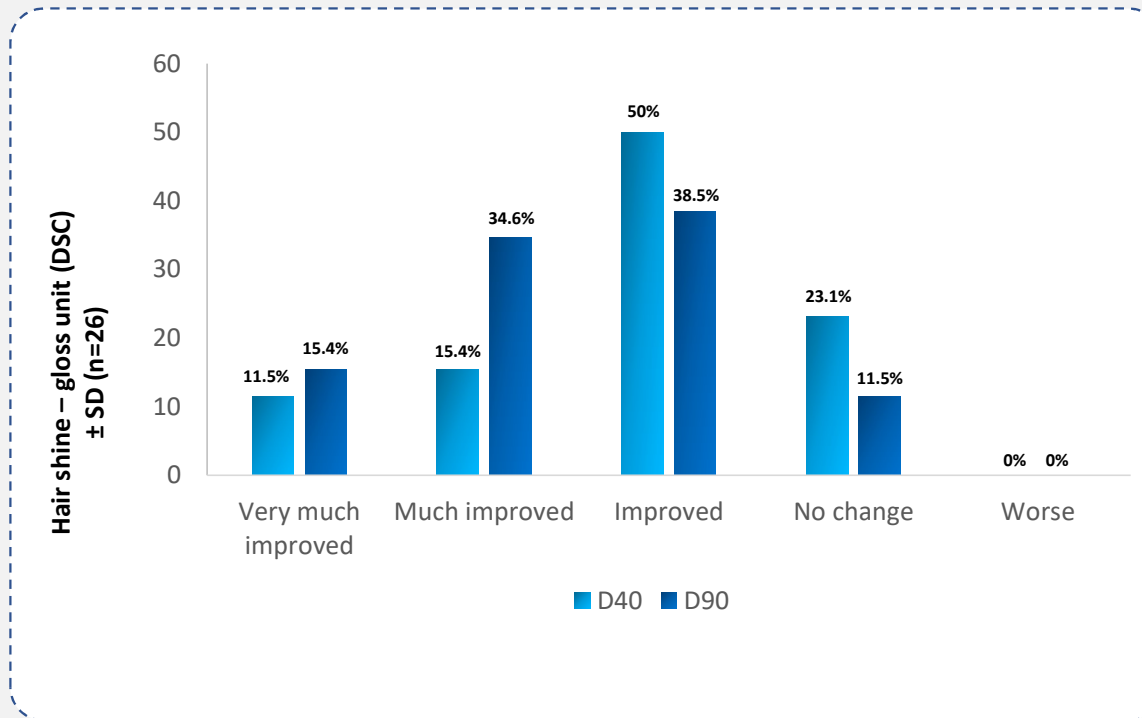
Patient appraisal on product benefits after 6 injections (% of patients who “completely agree” or “rather agree” on quality of their hair – answer gathered with a self questionnaire)



A very high satisfaction of the subjects regarding the benefits of CELLBOOSTER® Hair

CELLBOOSTER® Hair: a huge improvement of the hair appearance

Patient opinion on the GAIS* asking about the improvement of their hair

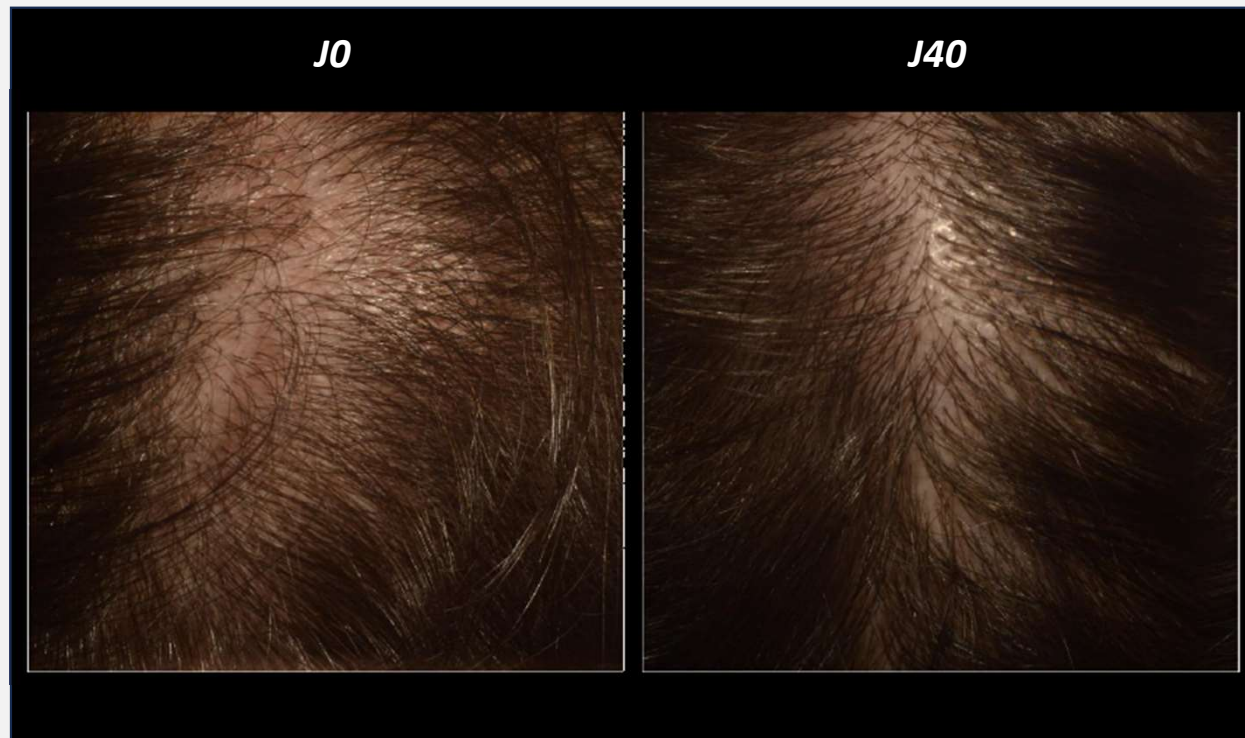


89% of patients found their hair improved or even much improved/very much improved after 6 injections of CELLBOOSTER® Hair

GAIS: Global aesthetic improvement scale. **Very much improved:** Optimal cosmetic result for the implant in this subject. **Much improved:** Marked improvement in appearance from the initial condition, but not completely optimal for this subject. **Improved:** Obvious improvement in appearance from the initial condition. **No change:** The appearance is essentially the same as baseline. **Worse:** Obvious degradation in appearance from the initial condition.

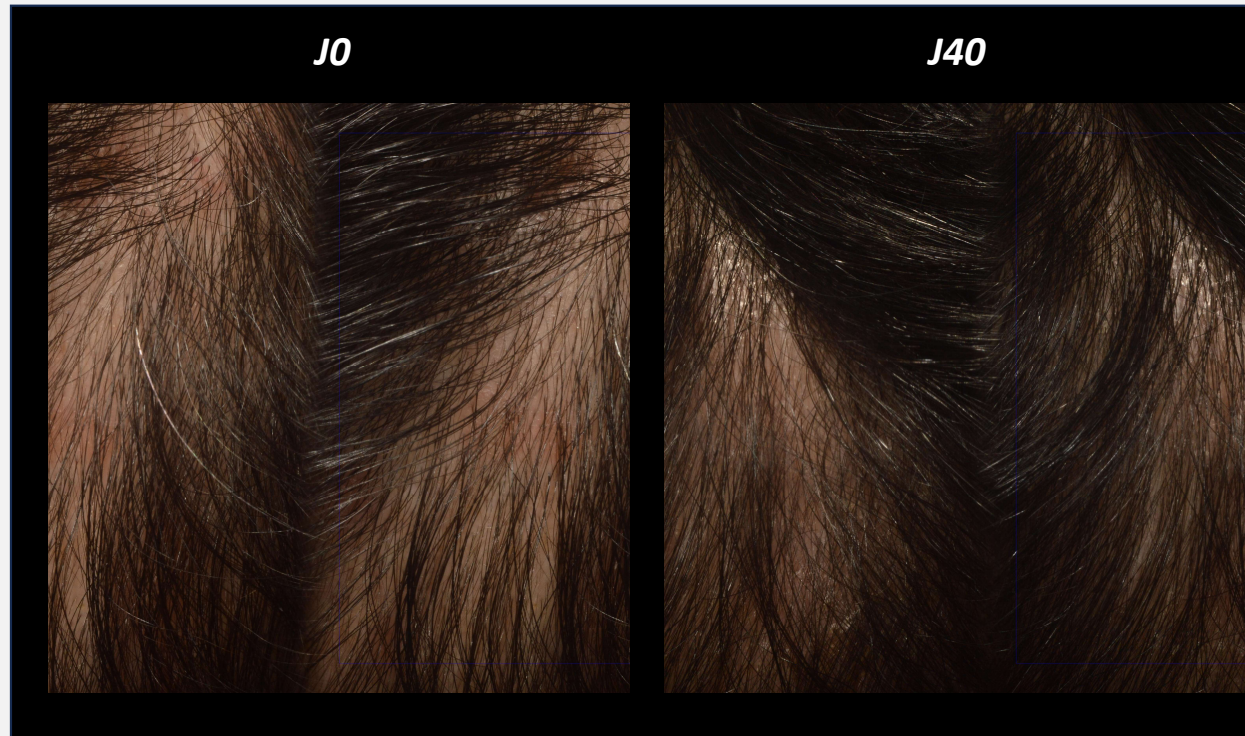
CELLBOOSTER® Hair: a significant improvement of patient hair

A visible result from the 3rd injection



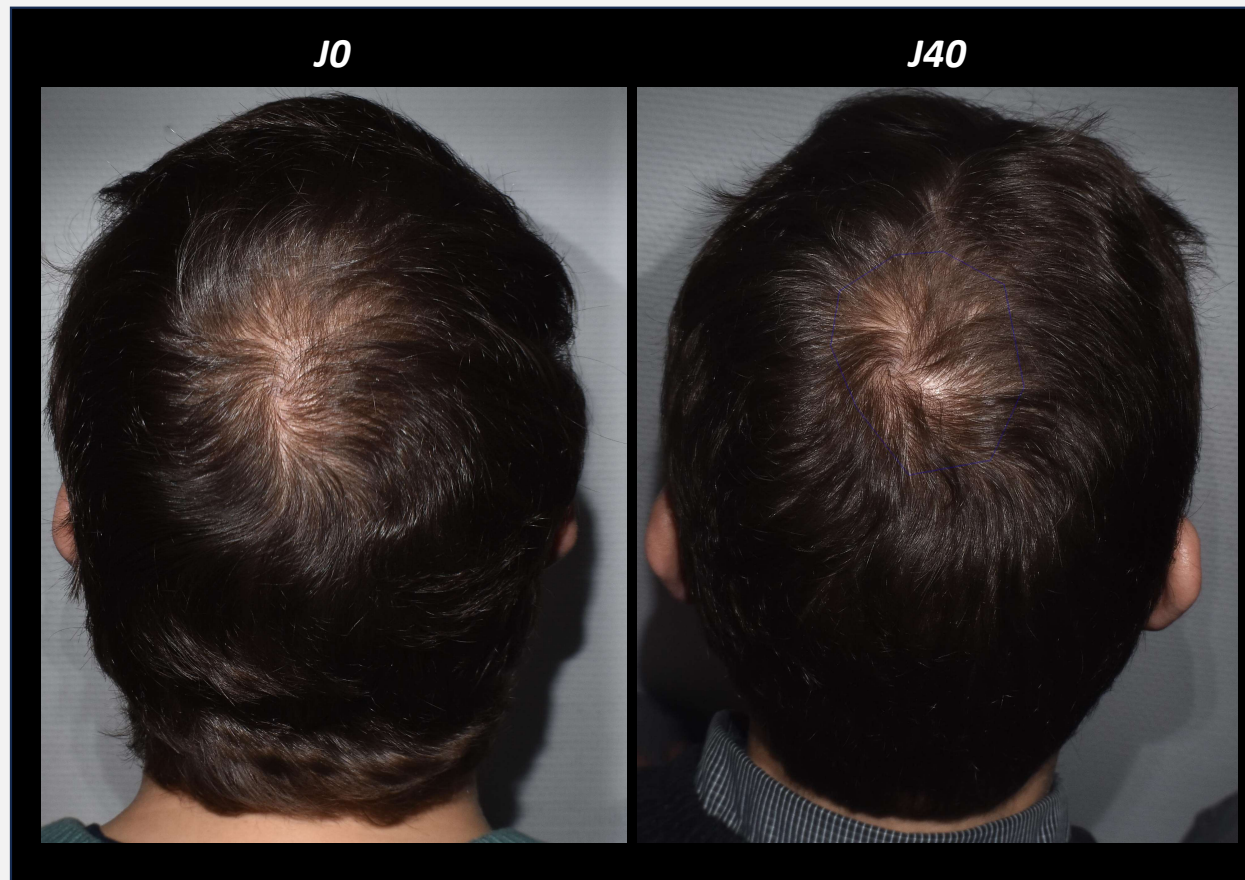
CELLBOOSTER® Hair: a significant improvement of patient hair

A visible result from the 3rd injection



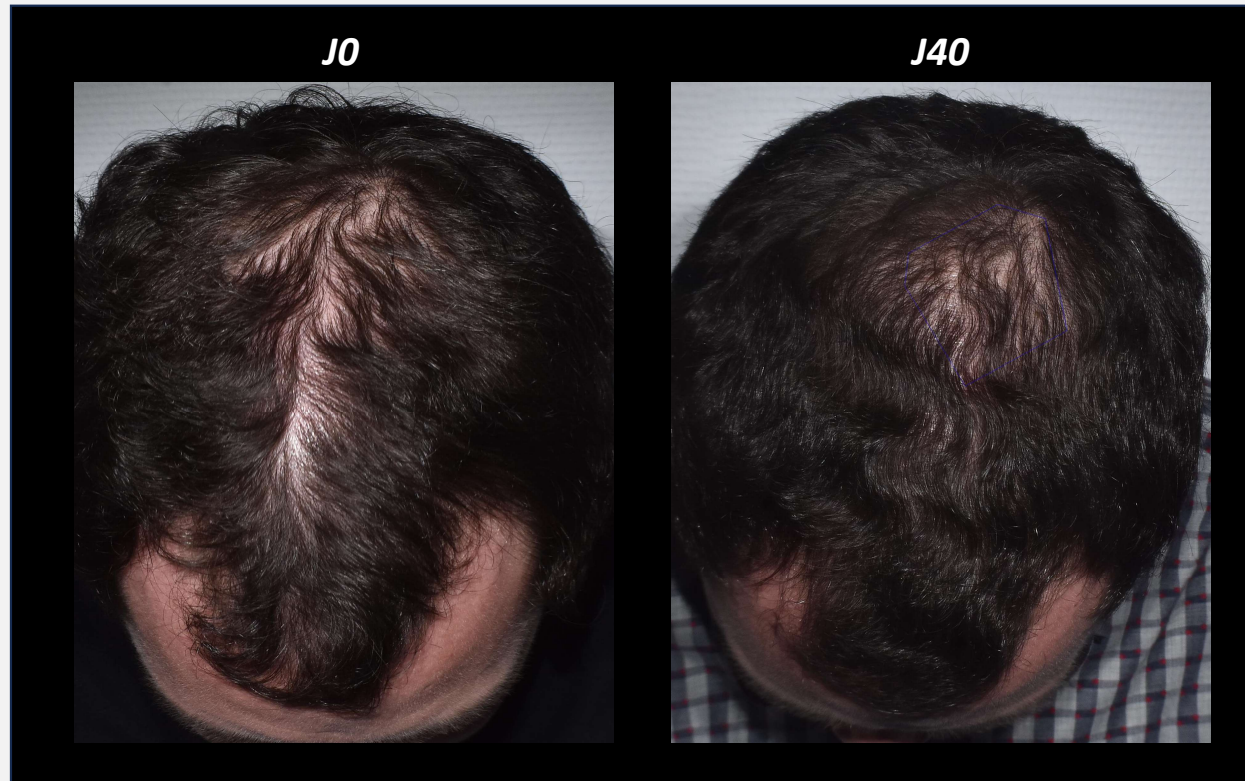
CELLBOOSTER® Hair: a significant improvement of patient hair

A visible result from the 3rd injection



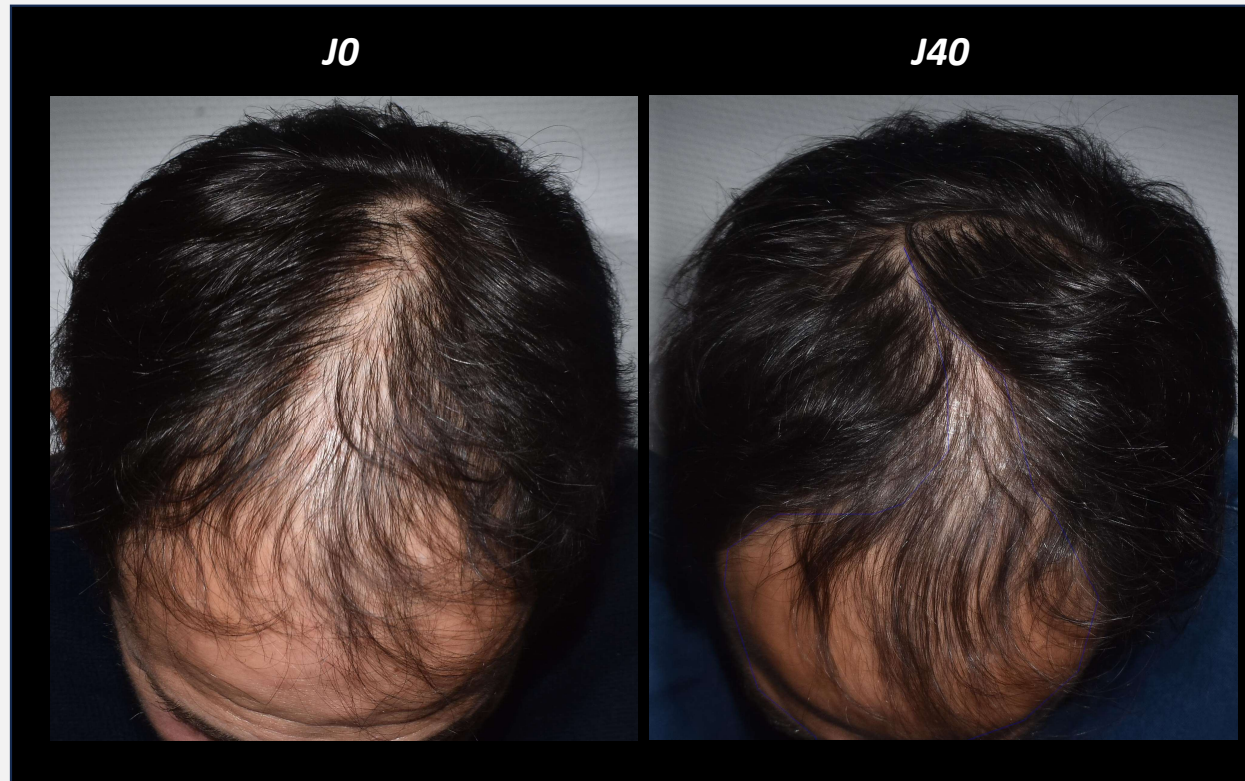
CELLBOOSTER® Hair: a significant improvement of patient hair

A visible result from the 3rd injection



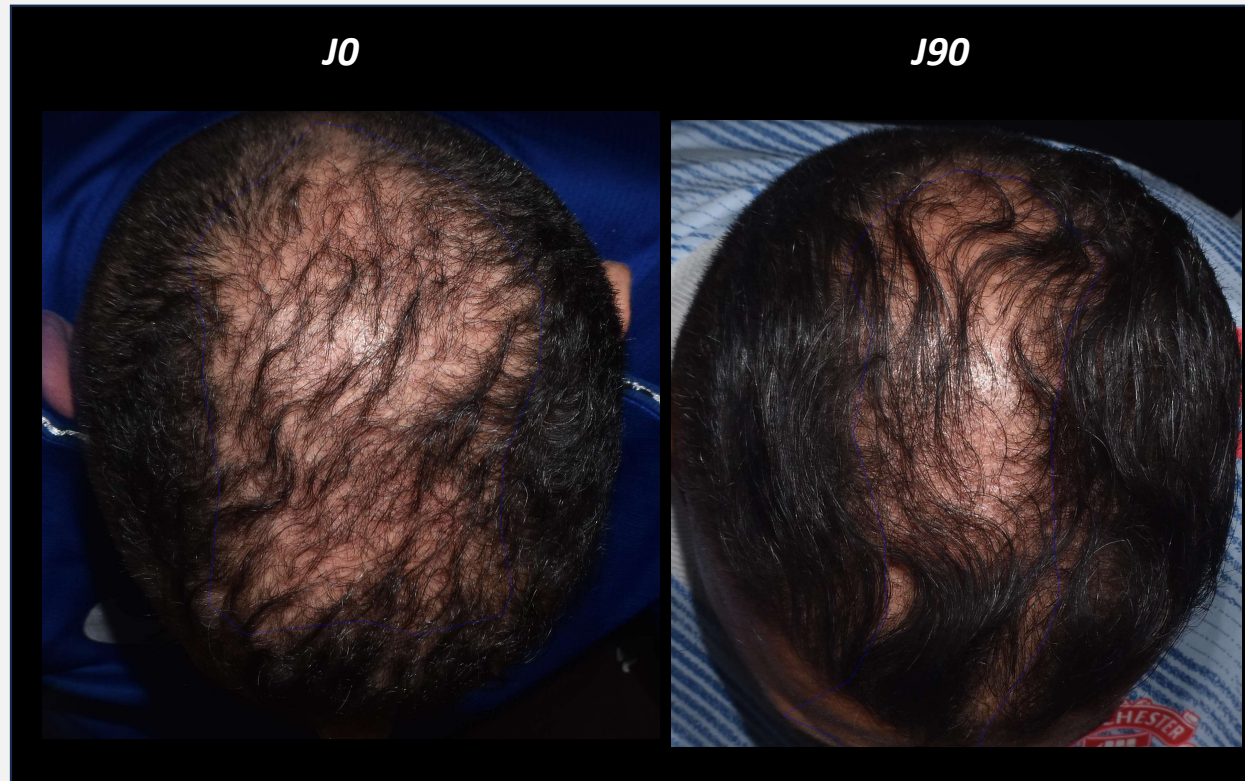
CELLBOOSTER® Hair: a significant improvement of patient hair

A visible result from the 3rd injection



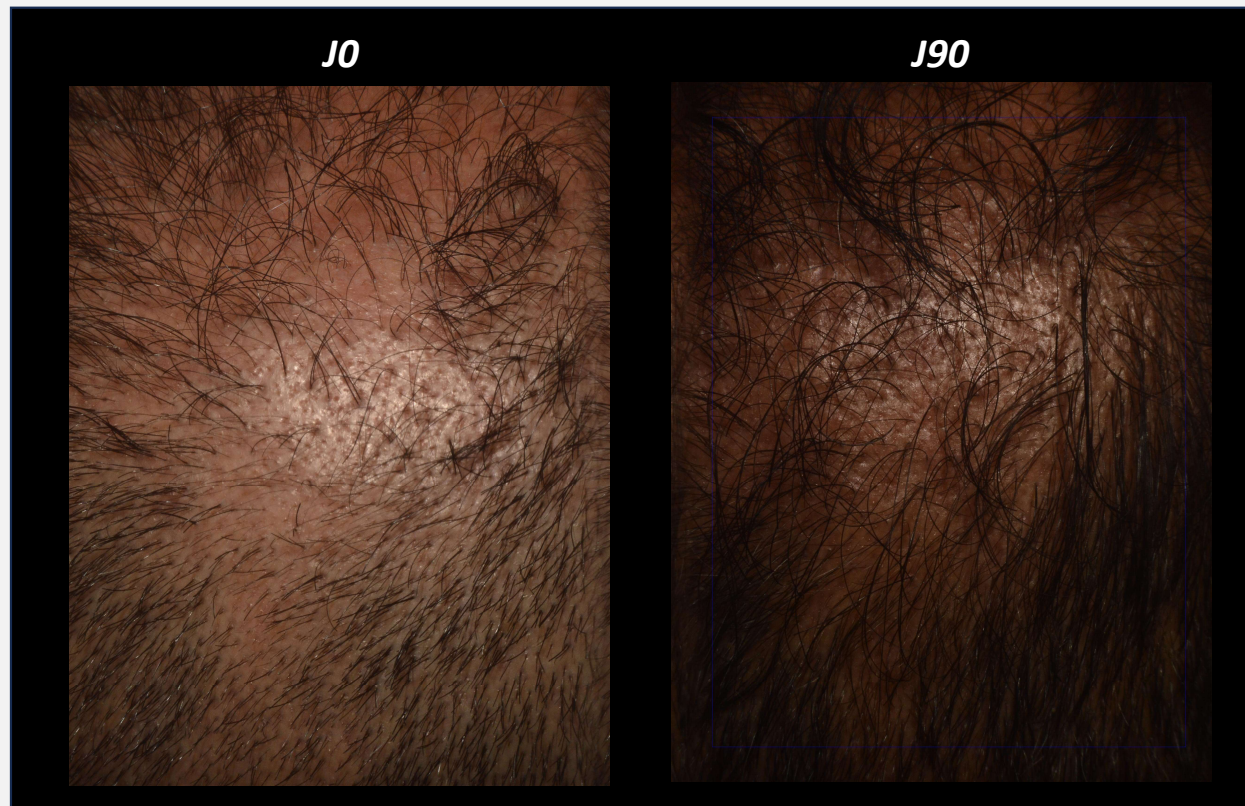
CELLBOOSTER® Hair: a significant improvement of patient hair

A huge benefit after the 6th injection



CELLBOOSTER® Hair: a significant improvement of patient hair

A huge benefit after the 6th injection



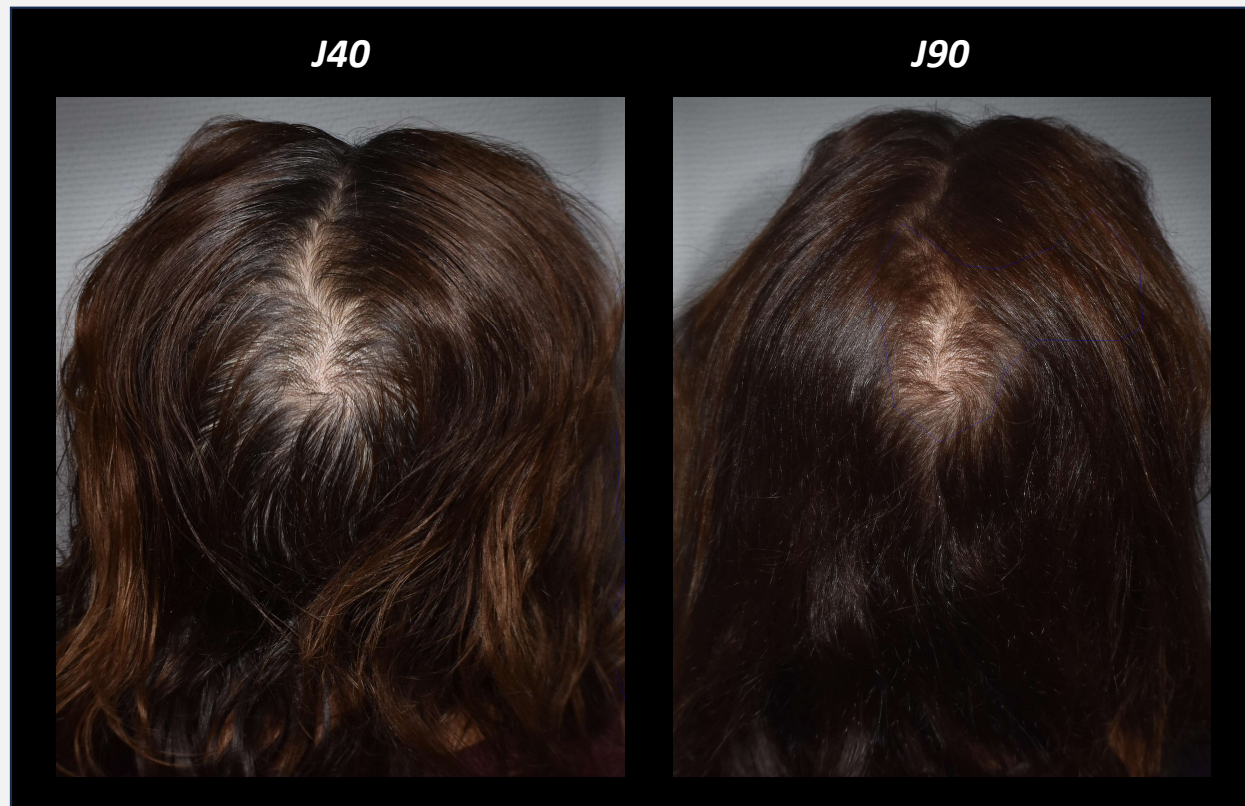
CELLBOOSTER® Hair: a significant improvement of patient hair

A huge benefit after the 6th injection



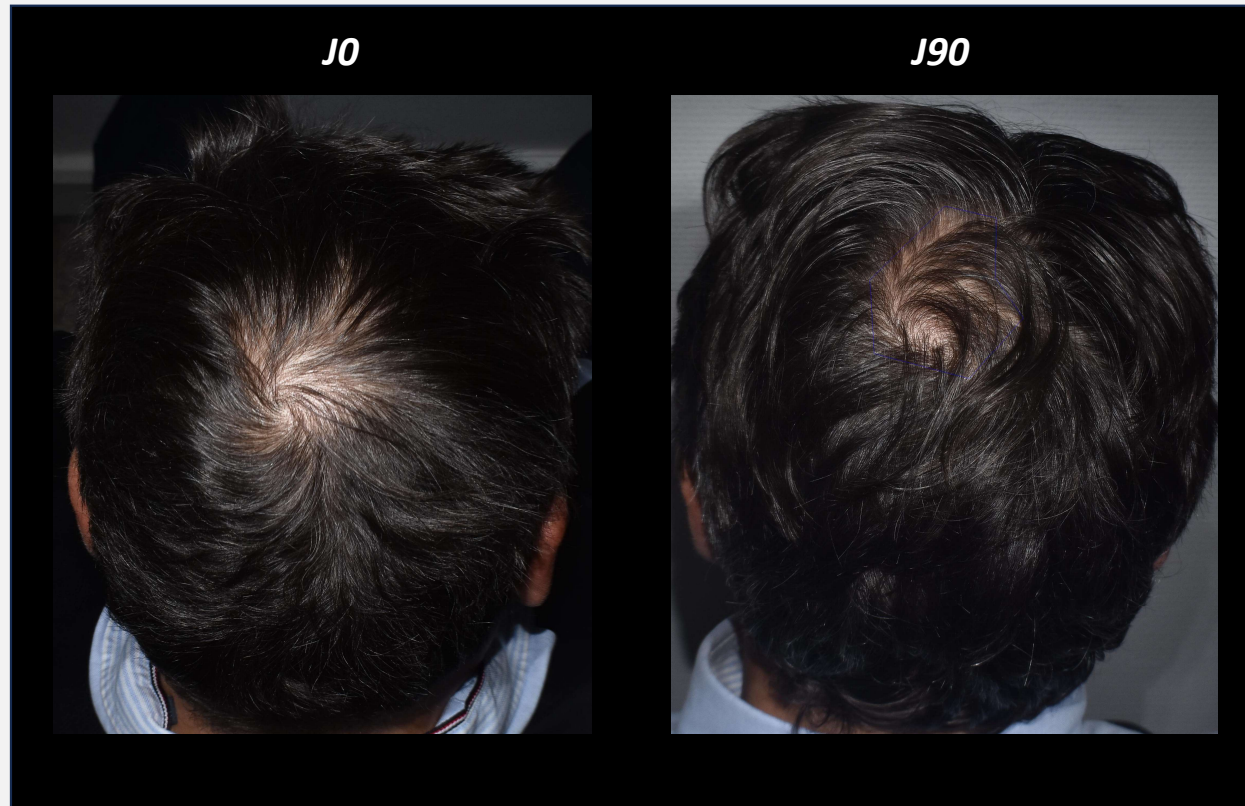
CELLBOOSTER® Hair: a significant improvement of patient hair

A huge benefit after the 6th injection



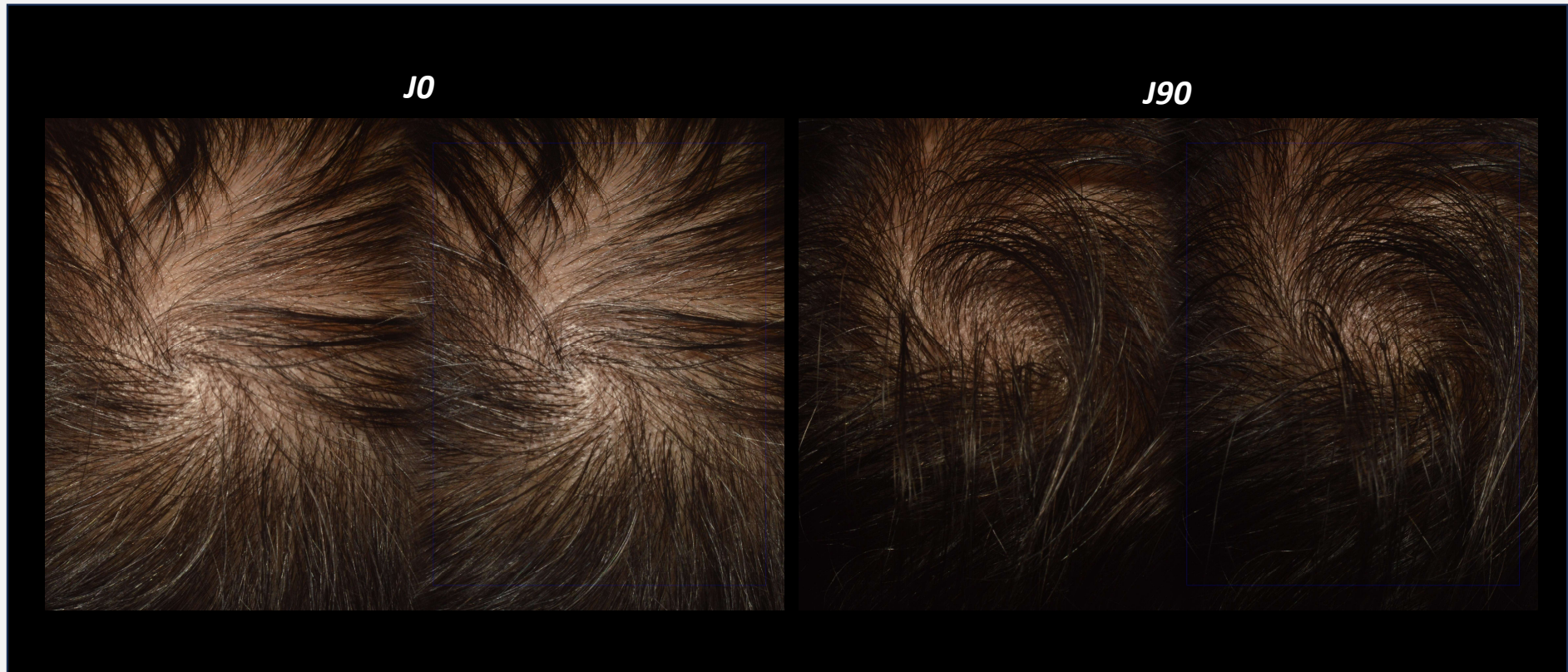
CELLBOOSTER® Hair: a significant improvement of patient hair

A huge benefit after the 6th injection



CELLBOOSTER® Hair: a significant improvement of patient hair

A huge benefit after the 6th injection



CELLBOOSTER® Hair: Conclusion

A strong clinical trial that allows 3 weeks after a 6 injections protocol to observe that CELLBOOSTER® Hair leads to :



For a very high patient satisfaction

- ✓ 9 patients out of 10 found their hair at least improved to very much improved),
- ✓ 88.4% find an improvement of the hair density
- ✓ 88.6% find a slow down in hair loss
- ✓ 84.7% find their hair thicker