


EBCA Meeting
 Brussels, Friday November 26th, 2010

hair
science
institute®

Leading through research

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Subjects

- Hair Science Institute
- Partial Longitudinal - Follicular Unit Transplantation (PL-FUT) (HairStemcell Transplantation (HST))
- Partial Longitudinal - Follicular Unit Transplantation (PL-FUT) in burns.

Hair Science Institute

- Locations
 - Maastricht, the Netherlands
 - Amsterdam, the Netherlands
 - London, the United Kingdom
 - Vienna, Austria
- Divisions
 - Outpatient department
 - Research & Development
 - Academy

Outpatient department

- Partial Longitudinal - Follicular Unit Transplantation (PL-FUT) (HairStemcell Transplantation (HST))
- 4 Medical Doctors & 18 technicians
- Cosmetic & medical indications
 - Androgenetic Alopecia :
 - Men
 - Women
 - Restorations (with limited donor area)
 - Scarring Alopecia :
 - Non-active scarring alopecia
 - Progressive fibrosing alopecia (Frontal Fibrosing Alopecia)
 - Burn victims.
 - Other :
 - Transsexuals (Male <->Female)

Research & Development

- Development of new treatments and techniques
 - Hair Restoration
 - Dermatology
 - Burns
 - Cardiology
 - Neurology
- Collaboration with :
 - Erasmus University of Rotterdam, the Netherlands
 - Maastricht University, the Netherlands
 - Burn Centres

Hair Science Academy

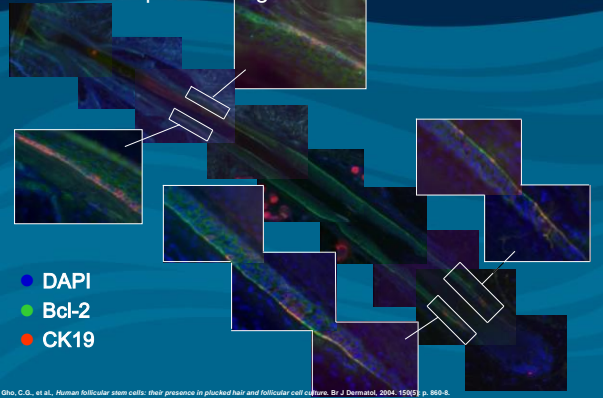
- Medical
 - Presentations, training and educational programs
 - Medical doctors
 - Technicians
 - Clinics
 - Institutes
- Non-Medical
 - Presentations, training and educational programs
 - Hairdressers / Hairstylists
 - Skin therapists
 - Beauticians
 - Skin institutes
 - Persons active in the hair (care) industry.

Partial Longitudinal - Follicular Unit Transplantation

➤ Technique

➤ Results

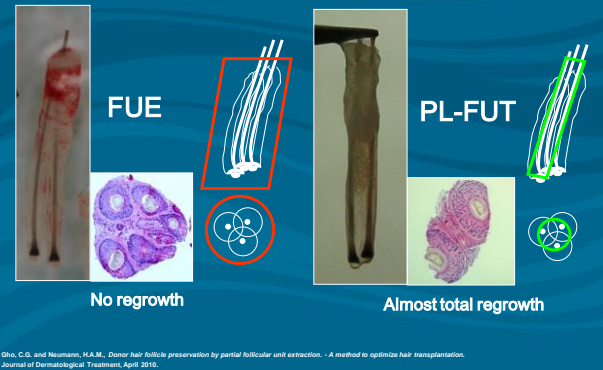
Hairtransplantation graft : Bcl-2 / CK19



Transversal section of the donorarea



Comparison Follicular Unit Extraction (FUE) vs PL-FUT



Comparison techniques – donor area

Follicle Unit Extraction (FUE)

Partial Longitudinal - Follicular Unit Transplantation (PL-FUT)

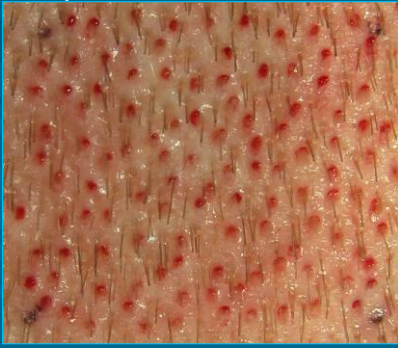


Results - Donor Area – close-up

Before treatment



Results - Donor Area – close-up
Directly after treatment



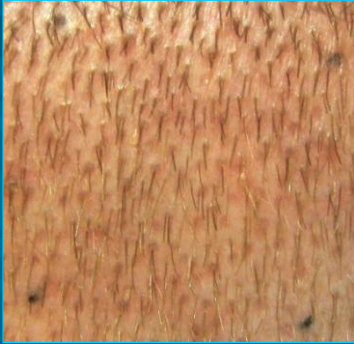
Gho, C.G. and Neumann, H.A.M., Donor hair follicle preservation by partial follicular unit extraction. - A method to optimize hair transplantation. Journal of Dermatological Treatment, April 2019.

Results - Donor Area – close-up
9 Days after treatment



Gho, C.G. and Neumann, H.A.M., Donor hair follicle preservation by partial follicular unit extraction. - A method to optimize hair transplantation. Journal of Dermatological Treatment, April 2019.

Results - Donor Area – close-up
1 Month after treatment



Gho, C.G. and Neumann, H.A.M., Donor hair follicle preservation by partial follicular unit extraction. - A method to optimize hair transplantation. Journal of Dermatological Treatment, April 2019.

Results - Donor Area



Directly after treatment

One week after treatment.

One month after treatment.

Three months after treatment.

Results - Donor Area – close-up



Directly after treatment



One week after treatment.



One month after treatment.



Three months after treatment.

Results

- Androgenetic Alopecia :
 - Men
 - Women
 - Restorations (with limited donor area)
- Scarring Alopecia :
 - Non-active scarring alopecia
 - Progressive fibrosing alopecia (Frontal Fibrosing Alopecia)
 - *Burn victims.*
- Other :
 - Transsexuals (Male <->Female)

Recipient area (Caucasian) – Frontal area

Before Treatment

3 months after treatment

9 months after treatment



Recipient area (Caucasian) - Woman

Before treatment

8 months after treatment



Recipient area – Restoration

Before treatment

Design of the hairline

After making the holes



Recipient area – Restoration

Before treatment

24 months after treatment



Scarring Alopecia – Brocq's Pseudopelade

Before treatment

After treatment

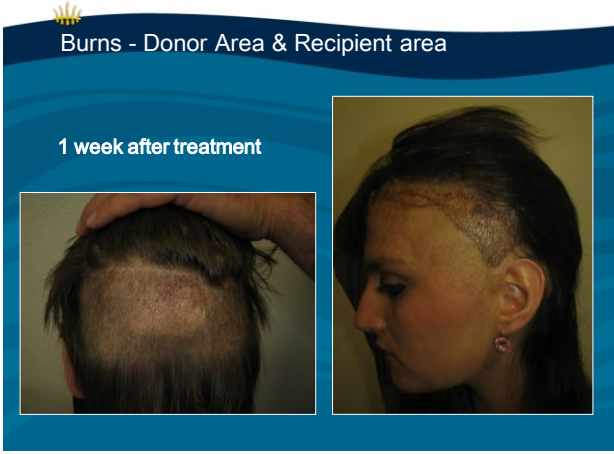


Scarring Alopecia – Alopecia Parvi Maculata

Before treatment

After treatment





Burns - Donor Area – After 6 consecutive treatments

Before treatment **After 6 treatments**
Total 3858 grafts

Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns - scalp

Before treatment **After treatment**

Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns - scalp

Before treatment **After treatment**

Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns - scalp

Before treatment **After treatment**

Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns – before treatment

Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns – Directly after treatment

Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns – 1 wk after treatment



Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns – 8 months after treatment



Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns - eyebrows

Before treatment



After treatment



Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns - eyebrows

Before treatment



After treatment



Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns - eyebrows

Before treatment



After treatment



Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns

Burns - eyebrows

Before treatment



After treatment



Gho, C. G. and H. A. M. Neumann (2010), "Improved hair restoration method for burns." Burns



Burns – After treatment



Advantages over conventional hair transplantation

- General :
 - Less pain during as well as after the procedure

- Donor area :
 - Preservation of donor follicular units
 - No scars in the donor area
 - No density loss
 - No stitches
 - Faster wound healing
 - The donor area can be used again for consecutive treatments

- Recipient area :
 - Faster / Better wound healing
 - Higher density possible in the recipient area

Acknowledgements

- Erasmus Medical Center
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 - Prof.dr. Frans C.S. Ramaekers

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Department of Surgery / Burn Center
 - Prof.dr. Robert W. Kreis