

9TH CLINICAL DERMATOLOGY CONGRESS &

2nd International Conference on

PSORIASIS, PSORIATIC ARTHRITIS & SKIN INFECTIONS

October 16-18, 2017 New York, USA



Woo KOUNG Lee

Root Hair Transplantation Center
Korea



Hak KYU Lee

Gangnam Theme Dermatologic Clinic
Korea



Sungin CHO

Root Hair Transplantation Center
Korea

The visualization of hair follicles by means of NIR(near infrared radiation) induced follicoscope and ultrasound scanner to reduce damage for hair follicles during FUE(follicular unit extraction)

Follicular unit extraction has many advantages which is minimal scar, quicker recovery time but definitely have disadvantages as well. One of them include potential for high hair follicle transection rate. The disadvantage is mostly due to blind harvesting technique. Thus we had been looking for imaging methods which make visible technique possible. One of them is the ultrasound scanner which is 22MHz in frequency and shows structures within the dermis. Through it we found out that there were angle differences between hair shaft out of the skin and hair follicle on the occipital scalp. The results were in 2.8-40.3 degree range and 12.8 degree of average. In addition there were significant differences in the average follicle angle depending on the area of occipital region. Therefore we employed it's data in order to reduce transection rate for graft. But despite ultrasound's great ability, we was not able to harvest the grafts simultaneously while seeing the hair follicle. So we were searching for something to be capable of resolving the problem and lights gave us good idea. NIR is one kind of lights which is 700-2500 nm in wavelength and it is absorbed and reflected by the melanin of the hair shaft, so we could obtain the image of hair follicle. As a result, we can harvest the grafts while looking at the hair follicles through the monitor simultaneously. Conclusion and significance While harvesting the hair follicle, we always have potential for transection of it when just depend on blind technique. We have been making much effort to lower transection rate of the follicle and at last we found out NIR follicoscopy and ultrasound skin scanner. They consequently make visible technique possible. Sincerely I hope that you will provide a chance to demonstrate these equipments to participants.

Biography

Dr. Woo KOUNG Lee has been working as a dermatologic surgeon since 2011. He has participated in lots of domestic and international conferences as a lecturer. He has performed hair transplantation through FUE(follicular unit extraction) or FUSS(Follicular Unit Strip Surgery) for about 1,500 patients during last 6years and most of them were satisfied with their results.

lwkafro@hanmail.net

Dr. Hak KYU Lee is director of Gangnam Thema Dermatology Clinic. March 1990 ~ Feb. 1991 : Intern, Affiliate Hospital of College of Medicine, Chungang University. March 1991 ~ Feb. 1995 : Resident, Affiliate Hospital of College of Medicine, Chungang University. Adjunct professor, College of Medicine, Chungang University. Korea Society for Laser Medicine and Surgery, regular member. Korean Dermatological Association, regular member. Korean Society for Hair Restoration Surgery, regular member. Korean Society for Dermatological Surgery, regular member. American Society for Laser Medicine and Surgery, regular member. International Society of Hair Transplantation, regular member. European Association of Hair Transplantation, regular member.

hak64@hanmail.net

Dr. Sungin CHO has been active since 1995 as a Dermatologist. Since 1993, he has been a Lecturer or participant at various national and international conferences. He is currently a Member of the Korean and American Academy of Dermatology and is a Member of the International Society of Hair Restoration Surgery. He has specialized and showed excellent results in transcutaneous lower eyelid laser blepharoplasty, ablative or non-ablative laser skin resurfacing, and nonsurgical hair loss treatment and hair transplantation. He has been a Clinical Professor of Dermatology at Chung-Ang University Medical School until recently. He is currently practicing group practice in Seoul, Korea.

edrcho@hanmail.net