

ESHRS

European Society of Hair Restoration Surgery

Paris - France

MAY 24 - 27, 2007

**10th Annual Congress
and Live Surgery Workshop**

PROGRAM



INVITED GUEST

PROFESSOR BARRANDON YANN
ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE - SUISSE
FACULTÉ DES SCIENCES ET DE LA VIE
LABORATOIRE DE DYNAMIQUE DES CELLULES SOUCHES

FACULTY AND SPEAKERS

GUEST OF HONOUR :
DR. SHAPIRO RONALD USA

DR. ABDALI HOJATHOLA	Iran	DR. NEIDEL FRANK	Germany
DR. BASTO FERNANDO	Brazil	DR. NORELSIN AHMED ABEL	Egypt
DR. CIVAS EKREM	Turkey	DR. PARRAUD PHILIPPE	France
DR. DEVROYE JEAN	Belgium	DR. PARSELY WILLIAM	USA
DR. DI STEFANO MARK	USA	DR. PITCHON MARCELO	Brazil
DR. FERIDUNI BIJAN	Belgium	DR. ROSE PAUL	USA
DR. FRECHET PATRICK	France	DR. SEO KYLE KOOIL	South Korea
DR. GAVIRIA JORGE	USA	DR. SHIAO TSENG-KUO	USA
DR. HABER ROBERT	USA	DR. DE SIO CIRO	Italy
DR. HAGLUND PYRA	Sweden	DR. STRAUB PAUL	USA
DR. ILTER DEMIR	Sweden	DR. UNGER WALTER	Canada
DR. IMAGAWA KENICHIRO	Japan	DR. VELASCO DE ALIAGA CARLOS	Peru
DR. IRFAN RANA MUHANAD	Pakistan	DR. VILA ROVIRA RAMON	Spain
DR. KEENE SHARON	USA	DR. WASHENIK KEN	USA
DR. LEONARD ROBERT	USA	DR. WESTWOOD COLIN	United Kingdom
DR. LEONHARDT KARIN	Germany	DR. WONG JERRY	Canada
DR. NAKATSUI THOMAS	Canada	DR. YAGYU KUNIYOSHI	Japan

Scientific Session III

02.00 pm – 03.00 pm

Cell Therapy & Pharmacology for Hair Loss

MODERATOR : DR. KEN WASHENIK (USA)

02.00 pm – 02.15 pm

Cell Therapy
DR. KEN WASHENIK (USA)

02.15 pm – 02.40 pm

Special Presentation on Stem Cells
PROF. YANN BARRANDON (Switzerland)

02.40 pm – 02.55 pm

Special Presentation on Stem Cells
DR. KEN WASHENIK (USA)

02.55 pm – 03.00 pm

Question & Answer

Scientific Session IV

03.00 pm – 03.20 pm

New Instrumentation

MODERATOR : DR. PAUL STRAUB (USA)

03.00 pm – 03.10 pm

New Implanter
DR. TSENG-KUO SHIAO (USA)

03.10 pm – 03.20 pm

New Instrumentation for Lateral Slits
DR. JERRY WONG (Canada)

03.20 pm – 03.40 pm

Coffee Break

04.45 pm Meeting Point : "Palais Garnier",
the Paris Opera, in the Hall

05.00 pm Private guided tour of

Palais Garnier

Place de l'Opéra - 75009 Paris



08.30 pm

Black Tie Dinner at

Maxim's de Paris

3, Rue Royale – 75008 Paris

Evening Wear (long or short dress) will be highly appreciated.



Micro-implanters for megasesion and dense packing

Tseng-Kuo (T.K.) Shiao, M.D.
I-sen Shiao, M.D.



Conflict of Interest

- Patent Pending
- Commercially available outside of the U.S.

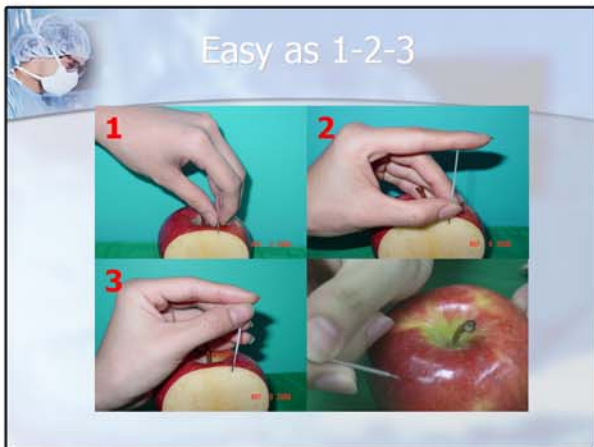


Past Efforts

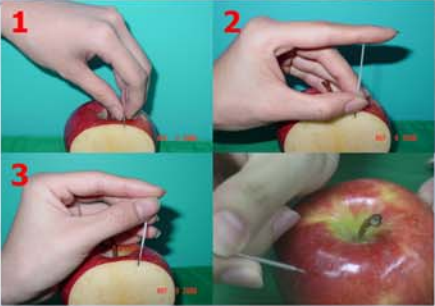
- Forum 1999-present
 - Dr. Choi's Choi Implanter
 - Dr. Kim KNU Implanter
 - Dr. Rassman's Rapid Fire Implanter Carousel
 - Hair Implanter Pen
 - Boudjema Implanter
- Prior to 1999
 - Dr. Rose and others



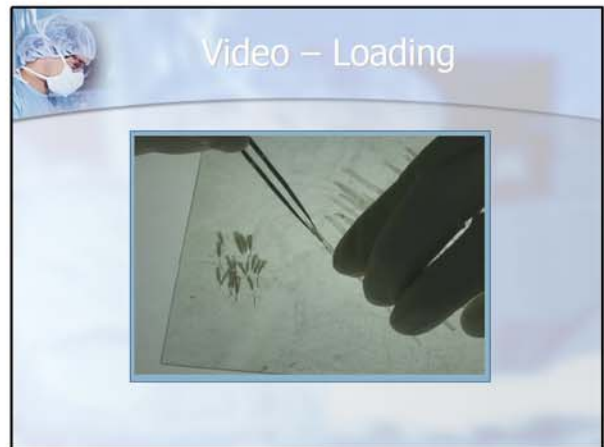
Shiao Micro-implanter


Easy as 1-2-3



1. Inserting the needle into the apple core.
2. Pushing the needle through the core.
3. Removing the needle, leaving a hole in the apple core.



Video - Loading





A Typical Session with Shiao Micro-implanters

- 4 assistants and 30-40 micro-implanters
- 1 loader, 2 placers, and 1 transporter

Questions

- Did using micro-implanter with forceps made placement faster?
- Can the micro-implanters be used effectively in dense packing?
- How fast can the micro-implanters be loaded?

Rate of Placement-Design

- Consecutive patients
- Same number of grafts by forceps and micro-implanters
- Two assistants
- Left vs. Right

Rate of Placement-Result

Patient	Forceps				Micro-implanters				Difference	
	Left	Right	Total	Rate	Left	Right	Total	Rate	Rate	
160907	5.22'	5.13'	10.35'	6.96	5.18'	4.52'	9.70'	7.42	0.47	
210816	4.20	5.13	9.33	7.71	3.70	3.17	6.87	10.49	2.77	
080813	6.65	5.97	12.62	5.71	4.25	4.55	8.80	8.18	2.47	
180611	5.33	7.20	12.53	5.74	4.20	5.07	9.27	7.77	2.03	
110714	4.80	4.32	9.12	7.90	4.18	3.17	7.35	9.80	1.90	
081408	4.80	4.62	9.42	7.65	3.60	3.25	6.85	10.51	2.86	
151014	8.25	6.15	14.40	5.00	4.33	3.88	8.22	8.76	3.76	
111710	4.33	4.27	8.60	8.37	3.83	4.08	7.92	9.09	0.72	
Avg.				6.88			7.92	9.00	2.12	
s.d.				1.82				2.19	1.11	

Rate of Placement-Analysis

- The data is analyzed by paired t test
- Mean of the differences: 2.12 (grafts/min)
- std. dev. of the differences: 1.11
- standard error: 0.39
- t: 5.434
- degree of freedom: 7
- p<0.001

Rate of Placement-Conclusion

- In terms of rate of placement, micro-implanter aided placement outperforms forceps alone by an average of 30% in 8 patients.
- This does not represent an overall reduction in assistant labor because a loader must be employed in the process.

Update on Implanter

- New 19-G and 20-G implanters
- Harder pushrod and better tubing



Update on Speed

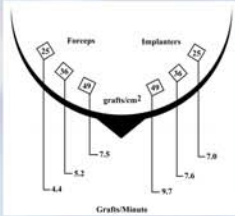
Improved implanters and experienced staff
 Assistants were timed for 2 minutes in this simple test.

Patient ID	Ms. Ye	Ms. Li	Ms. Wang	Comments
041206	15	22	27	<i>Pops out easily</i>
101520	24	28	30	
111510	16	19	23	<i>Pt's second session</i>
110415	21	22	22	<i>Pops out easily + existing hair</i>
180310		24	24	
130816		22	24	
050407		17	28	
Average	9.5	11	12.7	

A new assistant with very little experience was timed and achieved 22 grafts in 4 minutes → **Average 5.5 grafts/minute**

Other experiments-Dense Packing

- 5x5, 6x6, 7x7 graft matrix for 25, 36, and 49 grafts/cm²
- Forceps on one side, micro-implanter on the other




Other experiments-Dense Packing



Other experiments-Dense Packing


Patient	25		36		49	
	Implanters	Forceps	Implanters	Forceps	Implanters	Forceps
160912	3'32"	---	5'00"	---	4'56"	---
111307	2'48"	4'11"	3'40"	5'38"	5'09"	6'34"
080912	5'26"	8'46"	6'35"	10'07"	---	---
120512	3'27"	5'46"	4'35"	6'26"	---	---
Average	3.80'	6.24'	4.99'	7.39'	5.04'	6.57'
Rate	6.96/min	4.39/min	7.56/min	5.18/min	9.72/min	7.46/min



Other experiments-Loading


- A concern with any implanter is how fast it can be loaded

	Result (implanters/min)		Average
Miss Shen	14	15	14.5
Miss Kao	13	13	13



Closing Statement

- An aid to make placement faster
- Potentially less traumatic to grafts
- Much shorter learning curve for assistants (5 days or less)
- Particularly great for start-up clinics




Contact Information

- website: www.microimplanters.com
- email: tkshiao@yahoo.com

