-SWAI

CERTIFICATE

THIS IS TO CERTIFY THAT

DR. dr. Ago Hartim, MARS., SpKK

HAS ATTENDED

8th INTERNATIONAL SEMINAR & WORKSHOP IN AESTHETIC MEDICINE 2017

89

Speaker 12 SXXP, CONVENTION EXHIBITION, BSD CITY - TANGERANG Speaker 12 SXXP, Convention 15 SXXP, Moderator 4 SXXP, Convention 2 SXXP NOVEMBER 2414 - 2614, 2017

Speafer

Prof. DR. Dr. Abdul Razak Thaha, MSc, SpGK Chairman of Perdaweri

Dr. Teguh Tanuwidjaja, M. Biomed (AAM) Chairman of Committee

Nurcholis ė,

FW: Letter Speaker of International SWAM 2016

Top DV harden id al al. Jessica Argelica

Kepada Yth.

DR.dr.Ago Hartim MARS., SpKK

Indonesia Convention Exhibition (ICE) BSD - Tangetang, sebagai berikut : Berikut ini kami lampitkan undangan untak DR dr.Ago Harlim MARS., SpKK. Sebagai pembicara pada acara SWAM INTERNATIONAL - ANTI AGING EXHIBITION 2016 yang berlangang di

--- Temput --- Hari & Tunggal --- Walto : Minggu, 4 Desember 2016 : 15.45 - 16.30 WIBB : Classroom D

Terimakash buryak ana perhatian dan kerjasamanya yang balk.

Nurcholis Kurulawan Best regards,

and the second

Tel : +62-21-56946137 / 38 Pantal Indah Kapuk, Jakarta 14470 Rukan Eksklusif Blok E No. 7, Bukit Golf Mediterania PT EUTHICA UNOGUL JAYA

Fax: +62-21-56946136

Hp : 0856-4005 4004, 021-26199980, 0812-9544 5828

Ennil: sales Leuthica@pmail.com, chois.kuruleman@cuthicaunggul.com



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Interior - Wheel 30 November 2016 00,50

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From: Juli Njoto scientile inversitigmeit.com

Subject: (SWAM Speaker's Invitation) Date: 16 June 2017 11 22



To: appharking/partos com

De: Sant The contradicitie (I grad con, Film Materi Menorin/I grad corr, a) bays changes a baywe (I grad con, kindersterjays illyshoo com, sull per lityshoo com, Jerry Melloawsty jennytämiligetal com, toput 550 illyshoo com

Dear Dr. Ago Harlim, Sp. KK,

My name is Dr. Kristian Sanjaya, S.H., M.Biomed-AAM, the chief of Scientific Committee of International SNAM. As you may know, International SWAM is one of the biggest aesthetic medicine theme event in Asia Paolite which has over 2,000 participants.

The reason Lam writing to you to in regards to follow up the institution from Dr. Teguh Tanuwidses M.Storned-AAM, GEO (SWAM). to be one of our speakers and faculties in our upcoming event International Seminar and Workshop in Aesthetic Medicine which will be held.

In: November 24th 26th 2017

At Indonesian Convention Exhibition (ICE), Burni serpong dama), Jakarta-Indonesia.

We would appreciate it if you could present scientific presentation as follows.

- 1. Day
- : Friday, November 24, 2017

Time. 111.20 - 11.45

: Combination of Otherent Type of Laser for Aone Scer. Topic .

Verse : Pienary

- 2 Day : Sunday, November 26, 2017
 - .: 15.45 16.30 Time

Topic. : Invitatiology Bahind Donnal Filler

Venue :: Class Room C.

Please do not heatate to contact mo if you wish to discuss any of the above or to suggest different topics to present in this big event. The pleasure will be mine to discuss about it.

I have enclosed the consent later and I look forward to receiving your signed consent later maximum of 7days since you receive this email. Thank you for your custom.

Sincerely,

Dr. Kristian Saniava, S.H.: M.Biomed (AAM) Scientific Department **Perdesti Giobal Medicore** Ph. no.1+12.8172851512



consent letter 134.docx

From: Ago Hartins agoharianiifyatoo.com Sobject: Re: Last Reminder - International SWAM Indonesia

Dete: 20 November 2017 13:36

To: SWAM scientific inward/sprail corn.



Ok thanks but on Friday the title to : Different type of laser for acre scar. Thanks. Dr dr Age Harlim, MARS, Spick.

Sent from my Phone

i.

On 20 Nov 2017, at 10.55, SWWM -countrie over of course wrote:

Deer Dr. App Startin,

I would like to them, you once again for your willingnois in helping us to ranke it nappen for international SWAM independent. This the last remember of your pericipation in International System indonesits. Here are the details of your ecourorsodation and · your speaking time schedule.

1. Speaking	Time Schedule
Date 8 Time	Friday 14:30 - 14:55
Vonue	Noom Norantara S (Plenary)
Topic	- Different types of taskes

Date & Time	: Sunday 14:00 - 15:15
Versie	Poore Numeriana 3 (Classroom A)
Topia	Innunslopy before Demail Feler

For further mouds, please do not hearters to contact Adirets through WhatsApp or out at +62 813 3231 9067. I hope this Information will help you while your stay in indonesia. I am booing forward to beeing you in international SAWM

Best neglards,

Dr. Kristlan Sanjaya, S.H., M. Biomed (AAM)

International SWAM Indocesia.

SWAM

bth international Seminar & Workshop in Aesthetic Medicine

Indonesia Convention Exhibition BSD City - Tangerang Navennes 24th - 20th 2017

SPEAKER FORM

No. : 134/PGM/VI/2017

Name : Dr. dr. Ago Harlim MARS, Sp.KK

Address : Jl. Gajah mada 193 A Jakarta 11120

Phone number : 0816854083

Email : agoharlim@yahoo.com

I would like to give my lectures at 8th International Seminar & Workshop in Aesthetics Medicine 2017., with the topics :

- 1. Different Type of Laser for Acne Scar Treatment
- 2. Immunology Behind Dermal Filler

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Jakarta, 17 Juni 2017,

Dr. dr. Ago Harlim MARS, Sp.KK

Pada Jum, 16/017, Juli Njoto kodentito (swam@proditions-menufat-

Judus (SWAM Speaker's Invitation

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Dear Dr. Ago Hurlim, Sp.XX,

Pacific which has over 2000 periodpents chief of Scientific Committee of International SWAM, As you My name is Dr. Kristian Sanjaya, S.H., M.Biomed AAM, the theme event in Asia International SWAM is one of the biggest aresthetic medicine may know.

you is in regards to totiow up the invitation from Dr. Teguh Tenuedoja,M.Biomed-AAM, CEO our speekers and faculties in our upcoming event Workstop in Aesthetic Medicine which will be International Seminar and SWAM, to be one of The reason liam writing to

2405-2605,2017 In: November Jukarta-Indonesia. Exhibition (ICE). Burni serpong damai, At Indonesian Convention

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you could present scientific presentation as follows: We would appreciate it if

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Dey Friday, November 24, 2017

Feore: SWAM scientific toward/Figural.com Subject: Re: Dele: 5 October 2017 14:43

Tel: Ago Hartim agonation Styphoo com

Dear Dr. Ago Harlim,

I'm attaid that we can't reschedule your speaking time since everybody have continued their availabilities. These you still can make it,

Sest.

Adinda Kinesih International SWAM Indonesia

On 5 October 2017 at 14:38, Age Harlim <<u>ceptholini-Over-cers</u>>-wrate: Dear Ms. Adinda,

There you for to inform about my schedule upgate on Internationi, SWAM 3017. Behalf on my schedule, can ineschedule time on Friday, November 24, 2017.7

my previous schedule was change to ;

1. Day : Friday, November 24, 2017

Time : 13.00 - 13.25 Will

Topic : Different Types of Lasers for Acris Scar.

Vence Plenary

2. Day ; Suriday November 26, 2017

Time:: 13.00 - 15.15 WIS:

Topic : Immunology Bahind Dermit Filler

Venue : Class Romm A

Thank you for your cooperation,

Regard 6

DR. dr. Ago Harlim, MARS, SpKK

Pade Solma, 3 Oktober 2017 11:41, SWAM scontile.hvvint@amail.com> merulis:

Dear,

International SWAM is approaching soon and I would like to inform you that, there is an update on your speaking time in International SWAM 2017. Your previous schedule was:

- Day: Friday, November 24, 2017 Time: 11.20-11.45 Topic: Combination of Different Type of Laser for Acne Scar Venue: Plenary
- Day: Sunday, November 26, 2017
 Time: 15.45-16.30
 Topic: Immunology Behind Dermal Filler Venue:Class Room C

It has changed to:

- Day: Friday, November 24, 2017 Time: 14.05 - 14.30 Topic: Different types of lasers Venue: Plenary
- Day: Sunday, November 26, 2017 Time: 13.00 - 15.15 Topic: Immunology Behind Dermal Filler Venue:Class Room A

For any inquiries, please do not hesitate to contact us by simply reply to this email or through Adinda Kinasih via WhatsApp/call at +62 813 3331 9087. Thanks a ton for your cooperation and we are looking forward to seeing you in International SWAM 2017.

All the best,

Adinda Kinasih International SWAM Indonesia.



Deer DR. Dr. Ago Hartim, MARS, Spick

How are you? I am Dr. Kristian Sanaya, SWAM Bolentific Director, speaking on behalt of the committee and SWAM participants. We would like to thank you for attending International SWAM and giving such a great presentation to add extra value in our knowledge as a coctor, especially indonesian doctors.

International SWAM has passed and it was such a big success over though I'm sure there must be some missed here and Piere. However, international SWAM was a big achievement because of your presence as one of our speakers.

We, as the committee, are velociting any suggestions, completes and advices from you in order to be able to serve everyone better in our next events and getting better in time. Also, we would like to here suggestions on scientific topics for 9th International SWAM 2016. Please feel free to submit an abstract to scientific, ewarn@gmail.com

Thank you once again for your presence and I am looking forward to receiving abstracts for International SixAM next year.

Best regard,

Dr. Kristian Sanjaya, S.H., M.Biomed Scientific Director of SWAM



WE VALUE YOUR FEEDBACK

SATISFICATION

Overall, how satisfied were you with the conference 7

USEFULNESS

How useful was this conference compared to other conferences you have attended ?

SOCIAL EVENTS

Overall, do you think the conference provided too much, too little, or about the right amount of time for networking ?

FOOD

In general, how would you rate the food at the conference ?

BUILIDING How satisfied were you with the venue ?

×.

How likely are you recommending this event to your colleagues ?

Prote: el-creterial/stpt-pgra.com # Subject: International SWAM 2017



Date: 2 October 2017 16.47

To: Insula melligmal con, aerient/Pychoo.com, y25 Addi yahoo.com, di desinita Oyahoo.com, cathematicate 1224 (Constitution, Fyand Conglete (Constitution, Townspate), watercare (Constitution, Objectanto Constitution) , evanianshill yahoo oo id, calbadrespetrolo liyahoo com, Sunianana Signal.com, shatakusumaataan tigmas com, nachisty restaringly as if great com, matters angenerat? Gryence pers, and megawaty/69/8 panes on id, data 3d 8 years com, anggureextassifyahea.com, naris 340 yahaa.com, doktareti/m@yahaa.com, wastumithiann@gmail.com, doitestailett Ograal com, tubi 2906 Ohomail.com, rahaatayutiligmat.com, withijoaathai Egnal com, dyserktaniswan Ognak con, hemynensenelbysine con, duudysdigstrallignasi con, sonra sedara/Agnal con, ineida dravidi Evatos con, meviesa Estra-nici con, nesta, munici Evatos co ki, prelis Egnis con. asiahasyin thyshoo cold, keimed assisticiliyateo con, inisiegovo liignat con, shendy hedyli grad con, beatry issocial Operation, regenetative 2101 Buston corr, sinds, relativated corr, sachiest01 Sprint corr, dusa mojnetriliyetxo son, kestara wayiliyatxo.con, oʻritabiligmat.con, dramydmiracle cinic con, hendywjaya50/Pprzaticom, jopywki/Pgrzaticom, nichoła, 1952/Pyaneo.com, widziyach/Dyahon.com, da hartantibbili yakoo oon, cannolishwat sigmat oon, dashirannirah liiyahao oon, vachar liipatat oon, rusydriigmat oon, johan, hrenwentligenen com, jennder patra ligmail com, docks ill climed co.id, drokoy lithe com, opert/4 ligenco com, consideration and an exercit grant corr, by some of parts on at a prosent grant corr, dedearacate sales corr , nown inedector digmaticons, and allock graditions, controls, 06-0 graditions, anotypanger ligenal cons, allos beinstycare il grant coro, foreneargiti il grant coro, migaraumelinda il grant coro, e inferoari divence coro, usranch and pulliqueal core, ontita nursitability abox core, best pirander illigneal core, dr. danpk Rigmail core, isoprof. pr@yohoo.com, dt.hema@yahoo.com, camaau/y@yahoo.com, ar_sam@yahoo.co.id, sumaau.d7@gmail.com,

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it is that time of the year!

27/0AM will be held.

At IOE - BSD City, Tangarang In November 24th 26th, 2017

You will meet (

- * Phance Veroesi, MD (Plastic Surgeon Raly)
- * Luca Piovano, MD (Plainto Surgion Italy)
- * Matcheu Stataneli (Plasto Surgeon France)
- * Pierro Crabel, MD (Plastic Surgeon UAE)
- * Roteba Rueto, MD (Surgeon Rely)
- * Arthur Switt MD (Plastic Surgeon Canada)
- * Lis Shangli, MD (Derinatorogist Talwari)
- * Anoop Chaturied, WD (Antilaging Physician USA)

And many more. ... Host : Pendaweri For doctors only. IDI accreditation

Early Registration (until Oilt 23nd, 2017) IDR 3,500.000 I tartient as their purp we were this tarte to deal medicany.

For more info, please contact ! Or. Tel: +62 812 2465 2464 Perry +02 857 9084 2199

Website: www.sweet.id

REGISTRATION FEE

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I-SWAM 2017 COMMITTEE

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INTRODUCTION

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International SWAM

The window of aesthetic medicine in Asia

In the American Science of Control of Contro







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REGISTRATION FORM

IDI Membership No :

Registration No :

TOTAL.

Name :	and the second
Address :	
City :	
Phone :	Mobile Phone :
Fax :	Email :

REGISTRATION FEE	Early Bird (Betom Oct 22, 2017)	Late (Oct 23 - Nov 23, 2017)	Co Site (Nov 24, 2017)
	IDR 3.500,000.	IDR 4,000,000	12R 4.500,000
SANTIKA PREMIERE HOTEL	Check in data	Check out date	Quarithy Boom
Deluxe Type	IDR 090.000 / right	Include Breakfast for max 2 person	
Premiere Type	IOR 728.000 / night	Include Breakfust for max 2 person	
Suite Type	IDR 1 950.000 / night	Include Breakfast for max 2 person	
		REGISTRATION	
		HOTEL	

Registration transferred to :

Bank BCA, Branch : Ngagel Java Selatan, Surabaya Acc No : 5075 42 9899 (Acc Name : Perdesti Global Medicom)

Reach or at pr Hotel Accomodation : PT. Perdesti Global Methons Harvene Teer & Travel Phone : +62,31,555 a199 II. Kebon Sinh Raya 94 - Jakarta Pusat Phone: +62 21 192 1111 scientific invani@gmail.com Fax :-0271 :140891 Registration online : Mymedicom com Emel mice-jexarta@tharvonctours.com

V-lobsite: swamud,

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CP: Dr. Tub (162 812 2465 2496)

Reny 1:62,857 9084 2100

Stefania (+62 815 9003 904), Natrio (+62 813 8334 0266)

CP.

2nd International Anti Aging Conference IntAAC 2017 Jumat, 14 Juli 2017 Hotel Sahid Jaya Jakarta RUNDOWN WORKSHOP

WORKSHOP I	100	Update in Fat Loss Management	
(09.00 - 11.00)		Moderator: Prof. Dr. Antonius Kurniawan, Sp.PA (K)	
09.00 - 09.30	30	Hunger Craving Weight Gain its all in The Brain	
		Dr. Anoop Chaturvedi, BSc, MBBS, DA, MD, PhD	
09.30 - 10. 00	30	Homone Diet How To Do a Good Hormonal Diet	
Concernance -		DR.med, Dr. Maya Surjadjaja, M.Gizi, SpGK	
10.00 - 10.30	30"	Bioidentical Hormones for Fat Loss	
		Dr. Anoop Chaturvedi, BSc, MBBS, DA, MD, PhD	
10.30-11.00	30	QnA	
11 00-11 15		Coffee Break dan Registrasi WS II	
WORKSHOP N		Dysbicsis Fact - Relationship of Gut with Skin Health	
11. 15 - 12.15		Moderator: Dr. Freddy Wilmana, MFPM, SpFK	
11.15 - 11.45	30	Overview of Gut-Brain-Immuno	
	1.4	Dr. Anoop Chaturvedi, BSc, MBBS, DA, MD, PhD	
11.45 - 12 15	30'	Intestinal Barrier Dystunction (Leaky Gut)	
		DR. Dr. Aris Wibudi, SpPD	
12 15 - 13 00		ISHOMA	
WORKSHOP II (Inniven)	100	Dyablesis Fact - Relationship of Gut with Skin Health	
13 00 - 14 00		Moderator: Dr. Freddy Wilmana, MFPM, SpFK	
13.00 - 13.30	30	Relevance of Hormonal Thorapy with Dysbiosis	
10.00		Dr. Anoos Chaturyedi, BSc. M88S, DA, MD, PhD	
13.30 - 14.00	30	QnA	
14.00-14.15		Coffee Break dan Registrasi WS III	
WORKSHOP III	1980	Update On Minimal Invasive Acne Management	
14,30 - 16,30	F	Moderator : Dr. Erdina Pusponegoro, SpKK	
14.30 - 15.00	30	Etopatogenesis Acne	
		DR. Dr. Irma Bernadette, SpKK(K) FINS DV	
15 00 - 15.30	30	Update on Aone Treatment (Management Akne Update di Indonesia)	
	12	Dr. Lili Legiawati, SpKK(K) FINSDV FAADV	
15.30 - 16.00	30	Managemen HPA dan SPA update	
		Dr.Lilik Norawati, SpKK FINSDV FAADV	
16.00 - 16.30	30	QnA	

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2nd International Antiaging Conference InSAC 2017 RUNDOWN SIMPOSIUM Day 1 8ASTU, 15 JULI 2017 HOTEL SAHID JAYA JAKARTA

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Seei 1 (68.30-69.20)	12	Netracouticals
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		Prof.OR.dr. Nurped) Askati Taslim, MPH, BpOK(K)
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Pembukaan (99,30-18-25)		Per-buksen
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\$ 30-0840	10	Banibakas Kotua Pandasven
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8.15.19.25	32	Particulture dan Kinyode Speech Manten Kesehutan
	1.22	Kebijskan Pernerintah datam Upaya Pengembangan Antiacing Medicing and Health Tourism di Indonesis sada Pra 8894
		Bapak Bambang Wibovo, Sp0000, MAR3 (Diden Pelavanan Kasebatan)
Panel (10.25-12.08		Panel : Future Challenges for Auti Aging Presidiana
	100	Noderstor : Dr. dr. Suprivations, So.P. MARS
025-1045	28	Koneep dat ittplementeel Pettherias Kewetsenas Tantabas niet Keine Kei
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2nd International Antiaging Conference IntAAC 2017 MUNDOWN SIMPOSIUM Day 2 MINDOW 15 JULI 2017 ROTEL BARID JAYA JAKARTA

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Combination of Different Type of Laser for Acne Scar

ISWAM 2017 Fakultas Kedokteran Universitas Kristen Indonesia

Introduction : Laser is used for acne scar therapy, but there is many kind of laser that cause hyperpigmentation post inflammation, particularly in as Asian skin or Fitzpatrick type 4-6. Indeed need basic knowledge about many kind of laser that good for Asian skin for acne scar therapy.

Methods : In fewer acne scar cases of Asian skin, we tried to therapy with many kind of ablative laser and nonablative laser. And then, we compared the result and the adverse effect (fraxional CO2 laser, erbium yag laser, Neddle RF)

Results : Non ablative laser more compatible with Asian skin for acne scar therapy, but the result is minimum. Ablative laser giving the best result although the hyperpigmentation effect is higher.

Conclusions : Ablative superfisial laser combination and nonablative collagen stimulation is the best for acne scar therapy in Asian skin.

Introduction: Laser bisa digunakan untuk mengobati akne scar, tetapi banyak jenis laser yang menimbulkan hiperpigmentasi post inflamasi terutama pada kulit asia atau Fitzpatrick tipe 4-6. Karena itu diperlukan pengetahuan tentang jenis laser apa saja yang baik digunakan pada kulit asia dalam terapi akne scar

Methods: Beberapa kasus akne scar pada kulit asia, kami coba terapi dengan berbagai macam laser ablative dan nonablative, kemudian kita bandingkan hasil dan efek sampingnya (laser fraxional CO2 laser, Erbium yag laser, Neddele RF)

Result: Laser nonablative lebih cocok pada kulit Asia utk terapi akne scar, tetapi hasil lebih minimal. Laser ablative lebih memberikan hasil terapi yang lebih baik tetapi efek samping hiperpigmentasi lebih tinggi

Conclusions: Kombinasi laser ablative superfial dan nonablative stimulasi kolagen adalah yang terbaik untuk kulit asia dalam terapi akne scar.

Introduction

Scar formation is the normal and natural response of tissue to wound healing following an injury that is significant enough to elicit this host tissue response. The incidence of acne scarring may be increased above the background injury with manipulation or "picking" by the patient. These scars may be aesthetically unappealing, and if hypertrophic, they may be painful as well.

Even relatively minor scarring can have a profoundly adverse psychological impact on the patient. Some patients with acne scarring may become despondent, and the emotional impact can last a lifetime.

Acne scarring, which occurs in 95 percent of all people with acne vulgaris, can be challenging to treat. Severely inflamed lesions may leave permanent scars, which can be associated with psychological pain, low self-esteem, and reduced quality of life. Moreover, the clinical severity of acne scars is not necessarily an accurate measure of the patient's distress (i.e., mild scarring

may result in significant distress), just as the clinical severity of the acne vulgaris may not be correlated to the incidence or severity of scarring. General dermatologists are frequently presented with acne scarring and asked to counsel patients with regard to their treatment options. As acne scars often worsen over time, many of these patients are beyond the "acne age" of late teens into the early

Classification of acne scars Ice pick,box scar, rolling



Figure 1. Classification of acne scar

So the problem in acne scar is atrophy and hypertrophy such as keloid

Common scar removal treatments include: dermabrasion, microdermabrasion, chemical peel, retinoic acid, laser, punch excision, filler, skin graft

- Demabrasion. This very effective scar removal treatment uses a high-speed brush or other instrument to resurface your skin and remove or reduce the depth of scars. You will typically need several days to heal afterward.
- Micro-dermabrasion. For this less intensive type of dermabrasion, a dermatologist or aesthetician uses a spray of very small crystals instead of a high-speed brush to remove surface skin. More than one treatment may be required, and there is no downtime.
- Trichloroacetic acid (TCA) Chemical peels. Chemical peels can reduce the appearance of shallow acne scars and post-inflammatory hyper-pigmentation around a healed acne lesion. A chemical peel may be administered by a doctor, nurse, nurse practitioner, or spa aesthetician and involves applying a chemical to your skin to remove its outer layer, giving it a smoother, more even appearance. Depending on the strength of the acid used, you may experience redness and peeling for a few days afterward.
- Retinoic acid. Certain tissue scars should not be treated with traditional acne scar removal treatments. Instead, retinoic acid cream applied directly to the scar can help reduce its appearance, especially in the case of keloid scars.

- Lasers. Your dermatologist can use a laser to remove the outer layer of your skin, contour areas of acne scars, or lighten redness around healed acne lesions. Various types of lasers are used, depending on whether the acne scar is raised or flat. More than one laser treatment may be required and, depending on the laser used, you may need to several days to heal.
- Fillers. A substance such as collagen, hyaluronic acid, or fat can be used to "fill out" certain types of acne scars, especially those that have resulted in a depressed appearance of the skin. Since fillers are eventually absorbed into your skin, you will have to repeat filler injections, usually every few months, depending on the type of product used. There is no downtime for recovery from this treatment.
- Punch excisions. This type of skin surgery removes acne scars by individually excising, or cutting out, the scar. The hole left by the incision can be repaired with stitches or a skin graft. This technique is most often used to treat pitted acne scars.
- Skin grafting. With skin grafting, your doctor will use a small piece of normal skin to fill in an area of scarred skin. Skin grafts are usually taken from skin behind your ear. This technique may also be used when an acne scar removal treatment, such as dermabrasion, leaves a large tunnel in your skin.
- For hypertrophic scar we can use triamconon injection, silicone gel, cryo therapi, long pulse NdYag laser, Pulse day laser



Figure 2. Different kind of acne scar treatment

TCA Cross Method (chemical peel)

The TCA CROSS procedure involves depositing small amounts of **TCA** at high concentration (70–100%) onto the surface of the atrophic scar. The aim is to improve the appearance of the scar by increasing collagen reflectance and reducing shadows cast over scar depressions. TCA CROSS is useful in the following types of atrophic scar:boxcar acne scars, rolling acne scars, Ice-pick acne scars. , TCA cross is the best for Ice-pick acne scars





Figure 3. TCA peeling

LASER

Significant advances in laser technology have occurred in the past 2 decades, making laser therapy a valuable and highly versatile treatment for a number of skin conditions. We will review how and why lasers work, and what lasers can be used for the treatment of various skin condition.

Nd:YAG, or neodymium-doped yttrium aluminum garnet, is one of the more advanced types of laser technology now commonly used for the treatment of a wide range of skin and eye disorders. It is marketed under different brand names, including Cutera, RevLite

Q-Switched, and Fotona, among others. Each machine is uniquely designed to treat specific problems.

Some important thing , we have to know

Light Photon's Energy chromophore is Absorption of light photon's energy is absorbed by transferred to a chromophore.

A chromophore is an atom or molecule that gives color to a substance and can absorb light at a certain wavelength. Two major chromophore in the skin are melanin and oxyhemoglobin. Our body have a lot of water. Water absorb light in the near infrared portion of the electromagnetic spectrum.

Thermal relaxation time = time it tikes for a target substance to cool to half the tempeature to which it was heated without in creasing the temperature of surrounding tissues. The fluence is high enough to heat the target to and pulse duration shorter than the target's TRT

The principle acne scar laser therapy

Laser works to remove the top layer of your skin where a scar has formed. As this top layer of your scar peels off, your skin appears smoother, and the appearance of the scar is less noticeable or you can uses ablative laser such as Erb Yag, CO2 laser fraxional

As the scar tissue breaks apart, heat and light from the laser also encourage new, healthy skin cells to grow. Blood flow is drawn to the area by the heat of the laser, and inflammation is reduced as blood vessels in the scar are targeted.

All of this combines to make scars look less raised and red, giving them a smaller appearance. It also promotes the healing of your skin.

Best Combination akne scar treatment, first we have to removed the top laser, we can uses ablative laser, demabrasion, subcision, neddling and second, you need to do collagen stimulation for deep layer such as heat device, growth factor, low power laser or non ablative laser such as IPL, fraxional erbium Yag laser, long pulse Nd yag laser.

Some laser already have 2 kind of this combination. Remove the top uses Erbium yag laser with short duration pulse with but when we lengthening the pulse with, it can make heat to stimulate the collagen. In 42 $^{\circ}$ C, we can stimulate the tissue for collagen stimulation.



Figure 4. Examples of skin effects with different ablative Er: YAG fractional settings

Pre-treatment Ablative Laser procedures

- Antiviral prophylaxis againts cutaneous HSV
- A typical 6-week preparation regimen before laser resurfacing is as follow (controversial):
- Retinoic acic cream (0.05-0.1%): Apply 0.5-1g in the evening for avoid hiperpigmentation
- Hydroquinone cream (2-4%): Apply 0.5-1g twice daily for avoid hiperpigmentation
- Alpha-hydroxy acid cream (2-4%): Apply 0.5-1g in the morning



I pass: E 800 mJ, PW 600, spot 4mm, Fr 10 Hz II pass: E 700 mJ, PW 1500, spot 4mm, Fr 10 Hz, 3 treatments





Day 1





Pipi kanan	Pipi kiri
Rf Needle	Fraxional CO2
+ GF	+ GF
70 2,5	pin 3 18







Day 5



Day 6



Day 7





Before

Day 8

After

Figure 6. Comparation between CO2 laser and microneedle RF for acne scar



Figure 7. Fraxional RF for acne scar

Erbium Yag



BEFORE



Immediately after laser

1 week

Figure 8. Erbium Yag laser with cold and heat setting for acne scar

Before





Terapi : Punch surgery

Figure 9. Punch surgery for acne scar

Conclusion

Best treatment for roiling, boxcar acne scar is combination therapy between superficial ablative laser and nonablative/collagen stimulation laser. TCA cross is best for ice pick scar.

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