



# Sertifikat

Certificate  
Given to

**Dr. dr. Ago Harlim, MARS, Sp.KK**

For the participation as

**SPEAKER**

On:

**National Symposium**

**INDONESIAN CONFERENCE OF LASER - AESTHETIC - DERMATOSURGERY**

**Denpasar - Bali, Indonesia**

**26 - 27 April 2019**

SKP IDI : Participant 10 SKP, Speaker 12 SKP, Moderator 4 SKP, Committee 2 SKP

dr. Tjokorda Dalem Pemayun, Sp.KK  
Ketua Perdoski Cabang Denpasar

Prof.dr.Made Swastika Adiguna, Sp.KK(K), FINS DV, FAADV  
Ketua Panitia



*First Annual Meeting of*  
**ICLAD**  
Indonesian Conference of Laser - Aesthetic - Dermatosurgery

**INNOVATION IN DAILY PRACTICE WITH  
THE POWER OF BASIC SCIENCE  
IN DERMATOLOGY**

**PRIME PLAZA HOTEL SANUR, DENPASAR  
APRIL 26-28, 2019**



## PROCEEDING BOOK



### **Innovation in Daily Practice with the Power of Basic Science in Dermatology**

Denpasar  
April 26-28, 2019

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Published by collaboration between two study groups (Indonesian Laser Dermatology Study Group and Indonesian Tumor and Skin Surgery Study Group) with Indonesian Society of Dermatology and Venereology (INSADV) Denpasar Branch.

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## ACKNOWLEDGEMENT

*Assalamualaikum Wr Wb  
Om Swastyastu  
Namo Buddhaya  
Salam sejahtera untuk kita semua*



Puji dan syukur ke hadirat Tuhan Yang Maha Esa atas terselenggaranya symposium dan workshop "Indonesian Conference on Laser and Aesthetic Dermatosurgery" (ICLAD) pada tanggal 26-28 April 2019. Kegiatan ilmiah dengan tema "Innovation in Daily Practice with the Power of Basic Science in Dermatology" ini diselenggarakan oleh Kelompok Studi Dermatologi Laser Indonesia (KSDLI) dan kelompok Studi Tumor dan Bedah Kulit Indonesia (KSTBKI) bersama PERDOSKI cabang Denpasar. Melalui seminar ini diharapkan para partisipan dapat meningkatkan pengetahuan dan keterampilan dalam bidang dermatologi Laser dan Tumor Bedah Kulit pada praktik sehari-hari berdasarkan keilmuan dasar/ *Basic science*.

Acara ilmiah ini akan diisi dengan kehadiran para pembicara dari luar maupun dalam negeri yang akan memberikan penyegaran pengetahuan dan keterampilan dalam bidang dermatologi Laser dan Tumor Bedah Kulit dimana PERDOSKI Denpasar mendapat suatu kehormatan sebagai penyelenggara.

Akhir kata, saya mengucapkan suksema/ terima kasih atas kerja keras seluruh panitia dalam mempersiapkan acara besar ini, juga kepada seluruh mitra kerja, karena dengan dukungannya dapat dihasilkan kegiatan yang sempurna, dan tidak lupa juga kami mengucapkan selamat datang di Bali kepada peserta seminar yang telah berpartisipasi mengikuti acara ilmiah ini, dan selamat menikmati keindahan alam, budaya dan kulinernya.

*Om Shanti Shanti Shanti Om*

**Prof. Dr. Made Swastika Adiguna, Sp.KK(K), FINSDV, FAADV**  
Ketua Panitia ICLAD 2019

**Speaker's Abstract**  
Friday, 26 April 2019

From: **iclad 2019** icladdenpasar2019@gmail.com  
Subject: Undangan Partisipasi ICLAD 2019 (revisi)  
Date: 7 February 2019 13.05  
To: agoharlim@yahoo.com  
Cc: ilmiahiclad2019@gmail.com



Kepada Yth,  
DR. Dr. Ago Harlim, MARS, Sp.KK  
Di tempat

Dengan hormat,

Kelompok Studi Dermatologi Laser Indonesia (KSDLI) dan Kelompok Studi Tumor dan Bedah Kulit Indonesia (KSTBKI) bersama PERDOSKI Cabang Denpasar bermaksud menyelenggarakan *Symposium & Workshop "Indonesian Conference on Laser and Aesthetic Dermatosurgery" (ICLAD) 2019* dengan topik *"Innovation in Daily Practice with The Power of Basic Science Dermatology"* pada hari Jum'at – Minggu, 26 – 28 April 2019 di Hotel Prime Plaza, Sanur & Rumah Sakit Umum Pemerintah (RSUP) Sanglah, Denpasar, Bali.

Bersama ini kami mengundang DR. Dr. Ago Harlim, MARS, Sp, KK untuk menjadi:

I. Pembicara di *symposium* pada :

| Hari/ tanggal        | Jam         | Durasi   | Sesi                                                                 | Topik                                                                                |
|----------------------|-------------|----------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Sabtu/ 27 April 2019 | 08.45-09.00 | 15 menit | <i>Session XIV: Scar and Granuloma</i>                               | <i>Classification of Silicone Foreign Body Reaction: Difficulties and Management</i> |
| Sabtu/ 27 April 2019 | 11.45-12.00 | 15 menit | <i>Sesi XVII: Skin Rejuvenation &amp; Body Contouring</i>            | <i>Body Contouring with New Technology</i>                                           |
| Sabtu/ 27 April 2019 | 15.15-15.30 | 15 menit | <i>Session XXI : Collaboration of Dermatologic Laser and Surgery</i> | <i>Circumcision: with Surgery or Laser?</i>                                          |

Besar harapan kami, Sejawat bersedia berpartisipasi dalam acara ini. Formulir kesediaan dan *curriculum vitae* kami lampirkan dalam surat ini.

Demikian surat permohonan ini kami sampaikan. Atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Hormat kami,

Ketua Panitia ICLAD 2019/ Sie Ilmiah ICLAD 2019



DR. Dr. Ago  
Harlim,...n.docx



## **CIRCUMCISION: WITH SURGERY OR LASER?**

Ago Harlim

### **Abstract**

#### **Objectives\* (describe the learning outcomes)**

How to do Male Laser Circumcision using 2940 nm Er:YAG Laser and the benefit of Er: Yag laser for circumcision

#### **Introduction**

Male circumcision is the surgical removal of the foreskin (prepuce) from the penis. The word 'circumcision' comes from the Latin *circumcidere*, meaning 'to cut around'. Infant male circumcision dates back more than 6000 years as indicated in pharaonic drawings and circumcised Egyptian mummies. Some historians even suggest that the procedure started some 15,000 years ago.

#### **Materials / method**

The method of circumcision used was similar to the manual guillotine technique, but instead of a scalpel the Er:YAG laser (2940 nm). Using the R08 handpiece with a pulse duration of MSP (100 us), 50 Hz and 140 mJ, we could remove the preputial skin with minimal surrounding tissue damage. For the more vascularized parts we used the R08 with a pulse duration of LP (600 us), 20 Hz and 180 to 200 mJ, which cuts and coagulates at the same time.

#### **Results**

The Er:YAG laser is an ideal device to remove epithelium of the glans penis without risk of scarring and faster healing than manual or CO laser

#### **Conclusion**

An alternative for circumcision: We can use Er:YAG laser as a low risk, replacing more thermally destructive CO2 laser or manual knife

## SIMPOSIUM

Day/ Date: Friday, 26<sup>th</sup> 2019

| Time        | Schedule                                                                             | Speaker                                                          | Time        | Schedule                                                   | Speaker                                                      |
|-------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------|------------------------------------------------------------|--------------------------------------------------------------|
| 07.30-08.00 | Registration                                                                         |                                                                  |             |                                                            |                                                              |
|             | <b>Session I:<br/>Fundamentals of Laser &amp; Other Energy Based Devices: Update</b> | <b>Moderator: David Sudarto Oeiria, Dr. Sp.KK, FINSDV, FAADV</b> |             | <b>Session II: Wound Healing in Dermatologic Procedure</b> | <b>Moderator: Larisa Paramitha Wibawa, Dr. Sp.KK, FINSDV</b> |
| 08.00-08.20 | Biophysics of Laser and Other Energy Based Devices                                   | David Sudarto Oeiria, Dr. Sp.KK, FINSDV, FAADV                   | 08.00-08.15 | Basic Wound Healing in Reducing Scar                       | Theresia L. Toruan, Sp.KK(K), Prof. Dr. FINSDV, FAADV        |
| 08.20-08.40 | Skin Conditioning Regimen for Laser and Other Energy Based Devices Treatment         | Aryani Sudharmono, Dr. Sp.KK(K), FINSDV, FAADV                   | 08.15-08.30 | Silicone Gel Usage in Invasive Dermatologic Procedure      | M. Akbar Wedyadhana, Dr. Sp.KK, FINSDV                       |
| 08.40-08.50 | Discussion                                                                           |                                                                  | 08.30-08.45 | Silicone Gel for Keloid and Hypertrophic Scar              | Yuli Kurniawati, DR. Dr. Sp.KK(K), FINSDV, FAADV             |
|             |                                                                                      |                                                                  | 08.45-08.50 | Discussion                                                 |                                                              |

| Time        | Schedule                                                                   | Speaker | Schedule                                                             | Speaker |
|-------------|----------------------------------------------------------------------------|---------|----------------------------------------------------------------------|---------|
|             | <b>Plenary Session I</b>                                                   |         |                                                                      |         |
|             | <b>Moderator: Made Swastika Adiguna, Prof. Dr. Sp.KK(K), FINSDV, FAADV</b> |         | <b>Co moderator: Luh Made Mas Rusyati, DR . Dr. Sp.KK(K), FINSDV</b> |         |
| 08.50-09.10 | To be confirmed                                                            |         | To be confirmed                                                      |         |
| 09.10-09.40 | Dermatologic Surgery: The History, Present, and Future                     |         | Lawrence M. Field, Prof. MD                                          |         |

|             |                                                                                                                                           |                                                                      |                                            |                                                                  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------|
| 09.40-10.10 | Lillis Tumescant Anesthesia                                                                                                               | Patrick J. Lilis, MD                                                 |                                            |                                                                  |
| 10.10-10.20 | Discussion                                                                                                                                |                                                                      |                                            |                                                                  |
| 10.20-10.30 | Opening                                                                                                                                   | Welcome Speech:                                                      |                                            |                                                                  |
|             |                                                                                                                                           | 1. Chairman of ICLAD                                                 |                                            |                                                                  |
|             |                                                                                                                                           | 2. Chairman of PERDOSKI                                              |                                            |                                                                  |
| 10.30-10.45 | Coffee Break                                                                                                                              |                                                                      |                                            |                                                                  |
|             | <b>Sesi III: Stem Cell and Growth Factor: New Concepts in Dermatology Treatment</b>                                                       | <b>Moderator: Amaranila Lalita Drijono, Dr. Sp.KK, FINSDV, FAADV</b> | <b>Session IV: Malignancy</b>              | <b>Moderator: Made Wardhana, DR. Dr. Sp.KK(K), FINSDV, FAADV</b> |
| 10.45-11.00 | Growth Factors Induced Therapy in Laser and Dermatosurgery Procedure                                                                      | Ahmed Al-Qahtani, Dr. PhD                                            | Fundamental of Mohs Micrographic Surgery   | Patrick J. Lilis, MD                                             |
| 11.00-11.15 | PRP in Acne Scar                                                                                                                          | Sondang A Pandjaitan Sirait, Dr. Sp.KK(K), MPd.Ked, FINSDV, FAADV    | Cutaneous Lymphoma: Experience in Practice | Yulia Farida Yahya, DR. Dr. Sp.KK(K), FINSDV, FAADV              |
| 11.15-11.30 | Aging skin : Treatment Using Fractional Erbium YAG laser Combined with Topical Amniotic Membrane Stem Cell - Metabolite Product (AMSC-MP) | Ni Putu Susari Widianingsih, Dr. Sp.KK, FINSDV, FAADV                | Survival of Melanoma Cases                 | Aida SD Hoemardani S, DR.dr. Sp.KK(K), FINSDV, FAADV             |
| 11.30-11.45 | Discussion                                                                                                                                |                                                                      |                                            |                                                                  |
| 11.45-12.45 | Lunch and Pray/ Lunch Symposium                                                                                                           |                                                                      |                                            |                                                                  |



|             |                                                                                                       |                                                                          |                                                                               |                                                                  |
|-------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------|
|             | <b>Session V: All About Pigment</b>                                                                   | <b>Moderator: Ni Putu Susari Widianingsih, Dr. Sp.KK, FINS DV, FAADV</b> | <b>Session VI: Liposuction, The Office Procedure</b>                          | <b>Moderator: Gunawan Budisantoso, Dr. Sp.KK, FINS DV, FAADV</b> |
| 12.45-13.00 | Treating Melasma: Challenges in Asian Skin Personal Experience                                        | Aryani Sudharmono, Dr. Sp.KK(K), FINS DV, FAADV                          | Getting the Best Result from Tumescent Liposuction                            | Edwin Djuanda, Dr. Sp.KK, FINS DV                                |
| 13.00-13.15 | What's New in Melasma Treatment Using Laser and Energy Based Device in Indonesia                      | Abraham Arimuko, Dr. MARS, Sp.KK, FINS DV, FAADV                         | Thigh Reshaping with Liposuction                                              | I.G.N Dharmaputra, DR. dr. Sp.KK, FINS DV                        |
| 13.15-13.30 | Breakthrough in PIH (Post Inflammatory Hyperpigmentation) Management Using The Newest Whitening Agent | Joyce Lim Teng Ee, Dr.                                                   | Lipo-curettage for Bromhidrosis                                               | Moerbono Mochtar, DR. Dr. Sp.KK, FINS DV, FAADV                  |
| 13.30-13.40 | Discussion                                                                                            |                                                                          |                                                                               |                                                                  |
|             | <b>Session VII: All About Acne</b>                                                                    | <b>Moderator: Indah Handayani, Dr. Sp.KK, FINS DV, FAADV</b>             | <b>Session VIII: Scar and Granuloma</b>                                       | <b>Moderator: Adhimukthi T. Sampurna, Dr. Sp.KK, FINS DV</b>     |
| 13.40-13.55 | Overview of Acne Vulgaris and New Concepts of Acne Treatment                                          | Natalia Wahyudi, Dr. Sp.KK, FINS DV                                      | Scar Revision                                                                 | Gunawan Budisantoso, Dr. Sp.KK, FINS DV, FAADV                   |
| 13.55-14.10 | Pulsed-Dye Laser for Active Acne                                                                      | Puspita Ningrum, Dr. Sp.KK, FINS DV                                      | Classification of Silicone Foreign Body Reaction: Difficulties and Management | Ago Harlim, DR. Dr. MARS, Sp, KK                                 |
| 14.10-14.25 | Can We Treat Acne and Prevent Acne Scar with Single Laser Modality                                    | Amaranila Lalita Drijono, Dr. Sp.KK, FINS DV, FAADV                      | Botulinum Toxin Experience on Keloid                                          | Arief Widiatmoko, Dr. Sp.KK, FINS DV                             |
| 14.25-14.35 | Discussion                                                                                            |                                                                          |                                                                               |                                                                  |

|             |                                                                                           |                                                                                                                     |             |                                                                            |                                                                  |
|-------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------|------------------------------------------------------------------|
|             | <b>Sesi IX: Acne Scar &amp; Stretch Marks</b>                                             | <b>Moderator: R. W Nanda Dewi, Dr. Sp.KK, FINSDV, FAADV</b>                                                         |             | <b>Session X: Orbital Rejuvenation</b>                                     | <b>Moderator: To be confirmed</b>                                |
| 14.35-14.50 | Update on Stretch Marks                                                                   | Amaranila Lalita Drijono, Dr. Sp.KK, FINSDV, FAADV                                                                  | 14.35-14.55 | Upper Blepharoplasty for Asian                                             | Gunawan Budisantoso, Dr. Sp.KK, FINSDV, FAADV                    |
| 14.50-15.05 | Clinical Evaluation for Treating New Scar and Old Scar Using Fractional CO2 Laser         | Yuli Kurniawati, DR. Dr. Sp.KK(K), FINSDV, FAADV                                                                    | 14.55-15.10 | Inferior Blepharoplasty: Lower Transconjunctival vs Transcutaneous         | David Sudarto Oeiria, Dr. Sp.KK, FINSDV, FAADV                   |
| 15.05-15.20 | Optimizing Acne Scar Treatment Using Cold and Hot Ablation by Fractional Erbium YAG Laser | André Steps C.,MD, Ph.D                                                                                             | 15.10-15.25 | Filler for Orbital Region                                                  | Lis Surachmiati Suseno, Dr. SpKK, FINSDV, FAADV                  |
| 15.20-15.35 | Update on Acne Scar Treatment Using The Latest Fractional Erbium YAG Laser                | Teddy Sutrisna, Dr. Sp.KK, FINSDV                                                                                   | 15.25-15.40 | Periorbital Wound Closure                                                  | Khairuddin Diawad, DR. Dr. Sp.KK(K), FINSDV, FAADV               |
| 15.35-15.45 | Discussion                                                                                |                                                                                                                     |             |                                                                            |                                                                  |
| 15.45-16.00 | Coffee break                                                                              |                                                                                                                     |             |                                                                            |                                                                  |
|             | <b>Session XI: Live Demo of Laser Devices</b>                                             | <b>Moderator: Amaranila Lalita Drijono, Dr. Sp.KK, FINSDV, FAADV Aryani Sudharmono, Dr. Sp.KK(K), FINSDV, FAADV</b> |             | <b>Session XII: Panel Discussion: Aesthetic and Dermatologic Procedure</b> |                                                                  |
| 16.00-16.30 | Fotona                                                                                    | To be confirmed                                                                                                     |             | I. Difficult Tumor Cases in Referral Hospital                              | Moderator: Theresia L. Toruan, Sp.KK(K), Prof. Dr. FINSDV, FAADV |

|             |                                                             |                                            |                    |                                                                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------|--------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |                                                             |                                            |                    | <p><u>Expert:</u></p> <ol style="list-style-type: none"> <li>1. Aida SD Hoemardani S, DR.dr. Sp.KK(K), FINS DV, FAADV</li> <li>2. Yulia Farida Yahya, DR. Dr. Sp.KK(K), FINS DV, FAADV</li> <li>3. to be confirmed</li> </ol>   |
|             |                                                             |                                            |                    | <p><u>Panelis:</u></p> <ol style="list-style-type: none"> <li>1. Remenda Siregar, Dr. Sp.KK</li> <li>2. To be confirmed</li> <li>3. To be confirmed</li> </ol>                                                                  |
| 16.30-17.00 | How you treat varicose vein patient with Endovascular laser | Andrej Sikovec, Prof. MD (To be confirmed) | II. Liposuction    | Moderator: Moerbono Mochtar, DR. Dr. Sp.KK, FINS DV, FAADV                                                                                                                                                                      |
|             |                                                             |                                            |                    | <p><u>Expert:</u></p> <ol style="list-style-type: none"> <li>1. Edwin Djuanda, Dr. Sp.KK, FINS DV</li> <li>2. Lis Surachmiati Suseno, Dr. SpKK, FINS DV, FAADV</li> <li>3. I.G.N Dharmaputra, DR. dr. Sp.KK, FINS DV</li> </ol> |
|             |                                                             |                                            |                    | <p><u>Panelis:</u></p> <ol style="list-style-type: none"> <li>1. To be confirmed</li> <li>2. Henry Tanojo, Dr. SpKK</li> <li>3. Ennesta Asri, Dr. Sp.KK</li> </ol>                                                              |
| 17.00-17.30 | To be confirmed                                             |                                            | III. Scar Revision | Moderator: I.G.N Dharmaputra, DR. dr. Sp.KK, FINS DV                                                                                                                                                                            |

|  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  |  | <p><u>Expert:</u></p> <ol style="list-style-type: none"><li>1. Gunawan Budisantoso, Dr. Sp.KK, FINS DV, FAADV</li><li>2. Budi Harjandi Widjaja, Dr. Sp.KK, FINS DV, FAADV</li><li>3. Arief Widiatmoko, Dr. Sp.KK, FINS DV</li></ol> <p><u>Panelis:</u></p> <ol style="list-style-type: none"><li>1. To be confirmed</li><li>2. Kartika Ruchiatan, Dr. Sp.KK, M.Kes</li><li>3. Irmadita Citrashanty, Dr. SpKK</li></ol> |
|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Day/ Date: Saturday, 27<sup>th</sup> 2019

| Time        | Schedule                                                                                | Speaker                                                               | Schedule                                                                                 | Speaker                                                               |
|-------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|             | <b>Plenary Session II</b>                                                               |                                                                       |                                                                                          |                                                                       |
|             | <b>Moderator: Made Wardhana, Prof. Dr. dr. Sp.KK(K), FINS DV, FAADV</b>                 |                                                                       | <b>Co- Moderator: To be confirmed</b>                                                    |                                                                       |
| 08.00-08.30 | Adipose Derived Stem/Stromal Cells: Basic Biology and Future Application in Dermatology |                                                                       | Indah Julianto, DR. Dr. Sp.KK(K), FINS DV, FAADV                                         |                                                                       |
| 08.30-09.00 | Ethic and Legal Aspect in Dermatology Intervention                                      |                                                                       | M.Yulianto Listiawan, DR. Dr. Sp.KK(K), FINS DV, FAADV                                   |                                                                       |
|             | <b>Session XIII: All About Tattoo</b>                                                   | <b>Moderator: M. Akbar Wedyadhana, Dr. Sp.KK, FINS DV</b>             | <b>Session XIV: Flap: Method to Make it Successful</b>                                   | <b>Moderator: Khairuddin Djawad, DR. Dr. Sp.KK(K), FINS DV, FAADV</b> |
| 08.30-08.45 | Biology of Tattoo                                                                       | Leonardo M. Marini, Prof. MD                                          | A Systematic Approach to Proper Flap Design                                              | Budi Harjandi Widjaja, Dr. Sp.KK, FINS DV, FAADV                      |
| 08.45-09.00 | Challenging Cases and Complications of Tattoo Removal                                   | Leonardo M. Marini, Prof. MD                                          | Designing Nose Flap                                                                      | Nugrohoaji Dharmawan, Dr. Sp.KK(K), M.Kes, FINS DV                    |
| 09.15-09.30 | To be confirmed                                                                         | To be confirmed                                                       | How to Manage Flap Complication                                                          | To be confirmed                                                       |
| 09.30-09.45 | Discussion                                                                              |                                                                       |                                                                                          |                                                                       |
| 09.45-10.00 | Coffee break                                                                            |                                                                       |                                                                                          |                                                                       |
|             | <b>Sesi XV: Vascular Laser</b>                                                          | <b>Moderator: Amaranila Lalita Drijono, Dr. Sp.KK, FINS DV, FAADV</b> | <b>Session XVI: Injectables &amp; it's Complication Management</b>                       | <b>Moderator: Lis Surachmiati Suseno, Dr. SpKK, FINS DV, FAADV</b>    |
| 10.00-10.15 | Leg Varicose Vein Treatment with Laser                                                  | Andrej Sikovec, Prof. MD                                              | Using The Botulinum Toxin for The Best Result and It's Correlation with Clinical Anatomy | Edwin Djuanda, Dr. Sp.KK, FINS DV                                     |

|             |                                                                       |                                                                                                                                                                                   |                                                                         |                                                     |
|-------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------|
| 10.15-10.30 | Vascular Specific Lasers for Nonvascular Lesions                      | Woraphong Manuskiatti, Prof. MD                                                                                                                                                   | Threadlift on Face and How to Manage The Complication                   | Adhimukthi T. Sampurna, Dr. Sp.KK, FINSADV          |
| 10.30-10.45 | Laser Treatment for Vascular Lesions                                  | Ni Putu Ary Widhyasti Bandem, Dr. M.Kes, Sp.KK, FINSADV, FAADV                                                                                                                    | New Management of Hyaluronic Acid Filler Complication: Focus on The Eye | Yunia Irawati, Dr. SpM(K)                           |
| 10.45-11.00 | Discussion                                                            |                                                                                                                                                                                   |                                                                         |                                                     |
|             | <b>Sesi XVII: Skin Rejuvenation &amp; Body Contouring</b>             | <b>Moderator: Teddy Sutrisna, Dr. Sp.KK, FINSADV</b>                                                                                                                              | <b>Session XVIII: Melanocytic Lesion</b>                                | <b>Moderator: Edwin Djuanda, Dr. Sp.KK, FINSADV</b> |
| 11.15-11.30 | Picotoning: A Game Changer of Facial Rejuvenation?                    | Woraphong Manuskiatti, Prof. M.D                                                                                                                                                  | Acral Lentiginous Melanoma: Early Detection with Dermoscopy             | Adhimukthi T. Sampurna, Dr. Sp.KK, FINSADV          |
| 11.30-11.45 | Skin Tightening and Lipolysis Using Non-Invasive Technology           | Sri Ellyani, Dr. Sp.KK, FINSADV, FAADV                                                                                                                                            | Challenges in Nevi Removal                                              | Roro Inge Ade Krisanty, Dr. Sp.KK, FINSADV, FAADV   |
| 11.45-12.00 | Body Contouring with New Technology                                   | Ago Harlim, DR. Dr. MARS, Sp.KK                                                                                                                                                   | Nail Pigmentation: Malignant vs Benign                                  | Larisa Paramitha Wibawa, Dr. Sp.KK, FINSADV         |
| 12.00-12.15 | Discussion                                                            |                                                                                                                                                                                   |                                                                         |                                                     |
| 12.15-13.30 | Lunch and Pray/ Resident's Quiz                                       |                                                                                                                                                                                   |                                                                         |                                                     |
|             | <b>Sesi XIX: Meet the Expert</b>                                      | <b>Moderator: Amaranila Lalita Drijono, Dr. Sp.KK, FINSADV, FAADV</b>                                                                                                             | <b>Session XX: Miscellaneous</b>                                        | <b>Moderator: Henry Tanojo, Dr. SpKK</b>            |
|             | <b>How to Deal with Complication of Laser and Energy Based Device</b> | <b>Expert: Andrej Sikovec, Prof. MD; Aryani Sudharmono, Dr. Sp.KK(K), FINSADV, FAADV; Woraphong Manuskiatti, Prof. M.D; M.Yulianto Listiawan, DR. Dr. Sp.KK(K),FINSADV, FAADV</b> |                                                                         |                                                     |
| 13.30-13.45 | Pigment                                                               | Ni Putu Ary Widhyasti Bandem, Dr. M.Kes, Sp.KK, FINSADV, FAADV                                                                                                                    | How to Develop Office Setting for Liposuction                           | Rachel Djuanda, Dr. Sp.KK                           |

|             |                                                                                         |                                                                             |                                                                                  |                                                     |
|-------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------|
| 13.45-14.00 | Scar                                                                                    | Inneke Jane H, Dr. M. Kes, Sp.KK                                            | Photosetting in Dermatology                                                      | Edwin Djuanda, Dr. Sp.KK, FINS DV, FAADV            |
| 14.00-14.15 | Vascular                                                                                | Irmadita Citrashanty, Dr. Sp.KK                                             | Benign Skin Tumor Office Procedure Treatment: Surgical vs Non- Surgical Approach | Larisa Paramitha Wibawa, Dr. Sp.KK, FINS DV         |
| 14.15-14.30 | Body Contouring                                                                         | Puspita Ningrum, Dr. Sp.KK, FINS DV                                         | Discussion                                                                       |                                                     |
|             | <b>Session XXI : Collaboration of Dermatologic Laser and Surgery</b>                    |                                                                             | <b>Moderator: Gunawan Budisantoso, Dr. Sp.KK, FINS DV, FAADV</b>                 |                                                     |
| 14.30-14.45 | Antibiotic Prophylaxis in Dermatology Intervention                                      |                                                                             | Susanti Budiamal, Dr. Sp.KK(K), FINS DV, FAADV                                   |                                                     |
| 14.45-15.00 | Acne Scar Treatment Using Combination Laser and Dermatologic Surgery: Holistic Approach |                                                                             | Aryani Sudharmono, Dr. Sp.KK(K), FINS DV, FAADV                                  |                                                     |
| 15.00-15.15 | Acne Scar Treatment by Surgery: Holistic Approach                                       |                                                                             | Susanti Budiamal, Dr. Sp.KK(K), FINS DV, FAADV                                   |                                                     |
| 15.15-15.30 | Circumcision: with Surgery or Laser?                                                    |                                                                             | Ago Harlim, DR. Dr. MARS, Sp,KK                                                  |                                                     |
| 15.30-15.45 | Discussion                                                                              |                                                                             |                                                                                  |                                                     |
| 15.45-16.00 | Coffee Break                                                                            |                                                                             |                                                                                  |                                                     |
|             | <b>Sesi XXII: Brief Communication</b>                                                   |                                                                             |                                                                                  |                                                     |
|             | <b>Moderator 1: Tjokorda Dalem Pemayun, Dr. Sp.KK</b>                                   | <b>Co-Moderator: Ni Luh Putu Ratih Vibriyanti Karna, Dr. Sp.KK, FINS DV</b> | <b>Moderator: To be confirmed (Panitia Bali)</b>                                 | <b>Co-Moderator: To be confirmed (Panitia Bali)</b> |
| 16.00-16.50 | Topic 1:                                                                                |                                                                             | Topic 1:                                                                         |                                                     |
|             | Topic 2:                                                                                |                                                                             | Topic 2:                                                                         |                                                     |
|             | Topic 3:                                                                                |                                                                             | Topic 3:                                                                         |                                                     |
|             | Topic 4:                                                                                |                                                                             | Topic 4:                                                                         |                                                     |
|             | Topic 5:                                                                                |                                                                             | Topic 5:                                                                         |                                                     |
|             | Topic 6:                                                                                |                                                                             | Topic 6:                                                                         |                                                     |
|             | Topic 7:                                                                                |                                                                             | Topic 7:                                                                         |                                                     |
|             | Topic 8:                                                                                |                                                                             | Topic 8:                                                                         |                                                     |
|             | Topic 9:                                                                                |                                                                             | Topic 9:                                                                         |                                                     |
|             | Topic 10:                                                                               |                                                                             | Topic 10:                                                                        |                                                     |

|                 |                               |                                      |
|-----------------|-------------------------------|--------------------------------------|
| 16.50-<br>17.00 | Discussion                    |                                      |
| 17.00<br>-17.15 | Doorprize & Clossing Ceremony | Chairman of PERDOSKI Branch Denpasar |



# **Circumcision : with Surgery or Laser**

**Ago Harlim**

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## **PENDAHULUAN**

Sirkumsisi atau khitan adalah tindakan pembuangan prepusium atau kulit penutup depan dari penis. Kata sirkumsisi berasal dari bahasa latin *circumcaedere*, yang artinya memotong melingkar. Sirkumsisi pada bayi laki-laki sudah dimulai sejak 6000 tahun yang lalu, hal ini tergambar dari gambaran firaun dan sirkumsisi pada mumi mesir. Beberapa peneliti beranggapan tindakan tersebut dimulai sejak 15.000 tahun yang lalu. Prevalensi sirkumsisi pada laki-laki di Amerika saat ini kurang lebih 71%, dibandingkan dengan di Prancis 15%, berkisar 92% di Indonesia, dan 26% di Australia. Di Inggris sebanyak 20,7% laki-laki di sirkumsisi. Sirkumsisi dengan indikasi terapi sebanyak 2,5% sirkumsisi pada neonatus pada pasien dengan inflamasi pada preputium seperti fimosis, balanitis dan penyakit sekitar preputium. Keuntungan yang didapat pada laki-laki yang telah disirkumsisi adalah mengurangi resiko infeksi saluran kencing pada anak-anak, menurunkan resiko ulkus infeksi menular seksual pada dewasa, melindungi dari kanker penis, menurunkan resiko kanker serviks pada partner seks wanita, dan mencegah terjadinya balanitis, prostatitis, fimosis, dan parafimosis.

Banyak teknik sirkumsisi yang dapat dilakukan baik dengan pisau ataupun alat bantu. Saat ini teknik sirkumsisi banyak menggunakan alat bantu yang dapat meningkatkan proses penyembuhan seperti elektrokauter dan Er:YAG atau CO<sub>2</sub> laser. Pada laporan ini kami melaporkan penggunaan laser Er:YAG (2940 nm) yang dibandingkan dengan CO<sub>2</sub> laser dan pisau untuk sirkumsisi.

## **Metode**

Teknik Sirkumsisi yang digunakan menyerupai guillotine technique, dengan pisau maupun laser. Pemotongan kulit dengan laser menggantikan scalpel dengan menggunakan laser CO<sub>2</sub> (10600 nm, cutting 8 watt, Pentagon) dibandingkan dengan pisau dan Er:YAG laser.(2940 nm, SP Synamis, Fotona, Slovenia). Er;Yag laser

menggunakan R08 handpiece dengan durasi pulse MSP (100us), 50 Hz dan 140 mJ, kita melepaskan kulit prepusium dengan meminimalkan kerusakan jaringan. Pada bagian yang memiliki vaskularisasi lebih banyak kami menggunakan R08 dengan durasi pulse LP (600 us), 20 Hz dan 180 hingga 200 mJ, dimana akan terjadi pemotongan dan koagulasi bersamaan. Setelah itu akan dilakukan jahitan simple dengan teknik simple dikombinasi interrupted pada bagian yang dirasa perlu menggunakan Vicryl 3.0. Setelah tindakan akan diberikan salep antibiotic (Otogenta) selama 5 hari. Pasien juga diberikan antibiotic minum sefadroksil 500 mg. Kami merekomendasikan agar pasien menjaga kebersihan area tindakan menggunakan cairan steril, karena air tanah di Indonesia terkontaminasi bakteri. Benang jahit tidak perlu diangkat karena menggunakan material yang dapat diabsorpsi oleh tubuh, meskipun terkadang dapat dilakukan pengguntingan agar pasien merasa lebih nyaman pada hari 10-14 setelah tindakan.



Gambar 1. Prosedur Er:YAG

### Hasil

Menggunakan laser Er:Yag, penyembuhan luka berlangsung lebih cepat yaitu sekitar 7-10 hari, dan pasien dapat melakukan aktifitas kesehariannya kembali dalam waktu 2 hari setelah operasi dibanding dengan laser CO<sub>2</sub> atau pisau/ *knife* biasa, penyembuhan luka akan lebih lama yaitu sekitar 2 minggu. Inflamasi dan *nekrotik tissue* yang terjadi lebih banyak dengan menggunakan laser CO<sub>2</sub>.



**Gambar 2. Hasil Er:YAG laser (setelah 5 hari tindakan)**

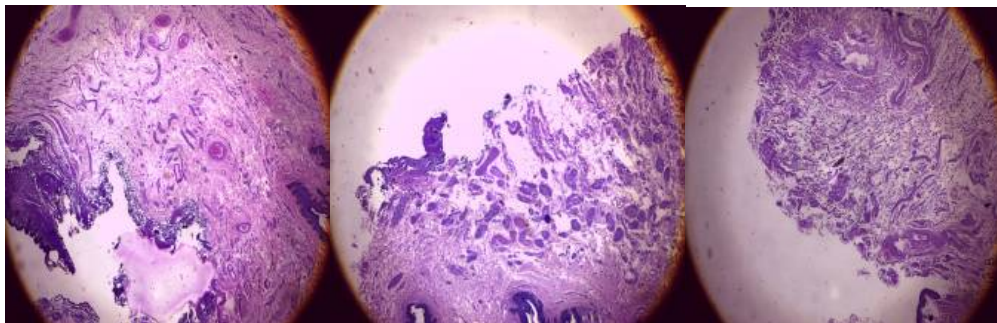


Erbium Yag , MSP after 5 days

CO2 Laser after 5 days

**Gambar 3. Perbedaan secara klinis antara laser Erbium Yag dan CO2.**

Pada hasil penyembuhan secara klinis sirkumsisi, inflamasi yang terjadi dengan Erbium Yag laser, lebih kecil dari pada CO2 laser



A: CO2 laser

B: Erbium Yag laser

C: Knife

**Gambar 4. Perbedaan hasil potongan kulit secara histologi dengan 3 macam teknik pada pembesaran 25 X**

Hasil potongan kulit sisa sirkumsisi secara histologi terlihat jelas nekrotic zone (biru tua) pada laser CO2 lebih besar daripada laser Erbium Yag. Sirkumsisi menggunakan pisau tidak ditemukan nekrotik zone

## **PEMBAHASAN**

Metode sirkumsisi dapat diklasifikasikan menjadi tiga tipe atau kombinasi diantaranya. Metode terbaru yang digunakan saat ini adalah elektrokauter, CO2 laser, atau Er:YAG laser yang digunakan untuk mencapai hemostasis dengan mengurangi jahitan setelah sirkumsisi. Penggunaan kauter dapat menunjukkan efek luka bakar. Er:YAG dan CO2 menunjukkan luka akibat panas pada sekitar area insisi.

Sebelumnya kami mencoba melakukan sirkumsisi menggunakan CO2 laser dan penyembuhan membutuhkan waktu yang cukup lama (10-14 hari menggunakan CO2 laser dan 7-10 hari menggunakan Er:YAG) Kami juga menemukan bahwa penggunaan Er:YAG dapat mengurangi hematoma, inflamasi dan jaringan nekrotik pada cold ablation 2940 nm laser disbanding 10600 nm (CO2 Laser). Kerugian yang ditemukan pada Er:YAG adalah dibutuhkannya lebih banyak jahitan pada pembuluh darah besar pada pasien dewasa. Pada pembuluh darah yang lebih kecil, untuk menghentikan pendarahan dapat menggunakan Er:YAG, LP pulse duration 600 us.

Secara histologi hasil potongan kulit sisa sirkumsisi pada pembesaran 25x, terlihat jelas *nekrotic zone* (biru tua) pada laser CO2 lebih banyak dan terjadi disepanjang potongan kulit bekas sirkumsisi. Pada laser Erbium Yag hanya sebagian terdapat *nekrotik zone*. Sirkumsisi menggunakan pisau tidak ditemukan nekrotik zone karena tidak menggunakan termal atau tidak ada termal efek, tetapi pendarahan selama operasi lebih banyak dari lainnya dan penyembuhan luka juga lebih lama dari pada sirkumsisi dengan laser Erbium Yag (Tabel 1).

**Tabel 1. Erbium YAG / CO2 Laser / Manual Guillotine Difference**

|                                         | <b>Erbium YAG<br/>(MSP / Cold)</b> | <b>CO2 Laser</b>    | <b>Pisau / Manual<br/>Guillotine</b> |
|-----------------------------------------|------------------------------------|---------------------|--------------------------------------|
| Pendarahan waktu operasi                | (+)                                | (±)                 | (++++)                               |
| Inflamasi                               | (±)                                | (+++)               | (+++)                                |
| <i>Necrosis tissue spot</i>             | (±)                                | (+++)               | (+)                                  |
| Penyembuhan luka                        | <b>7 - 10 days</b>                 | <b>10 - 14 days</b> | 10-14 days                           |
| Histopathologi:<br><i>Necrotic zone</i> | (+)                                | (+++)               | (-)                                  |

## **KESIMPULAN**

Hasil operasi sirkumsisi dengan laser Er:Yag lebih baik dari pada pisau ataupun CO2 laser

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