

LUTRONIC[®]

SPECTRA

It is “The Extended Platform”

A New Nd:YAG-based Multiplatform

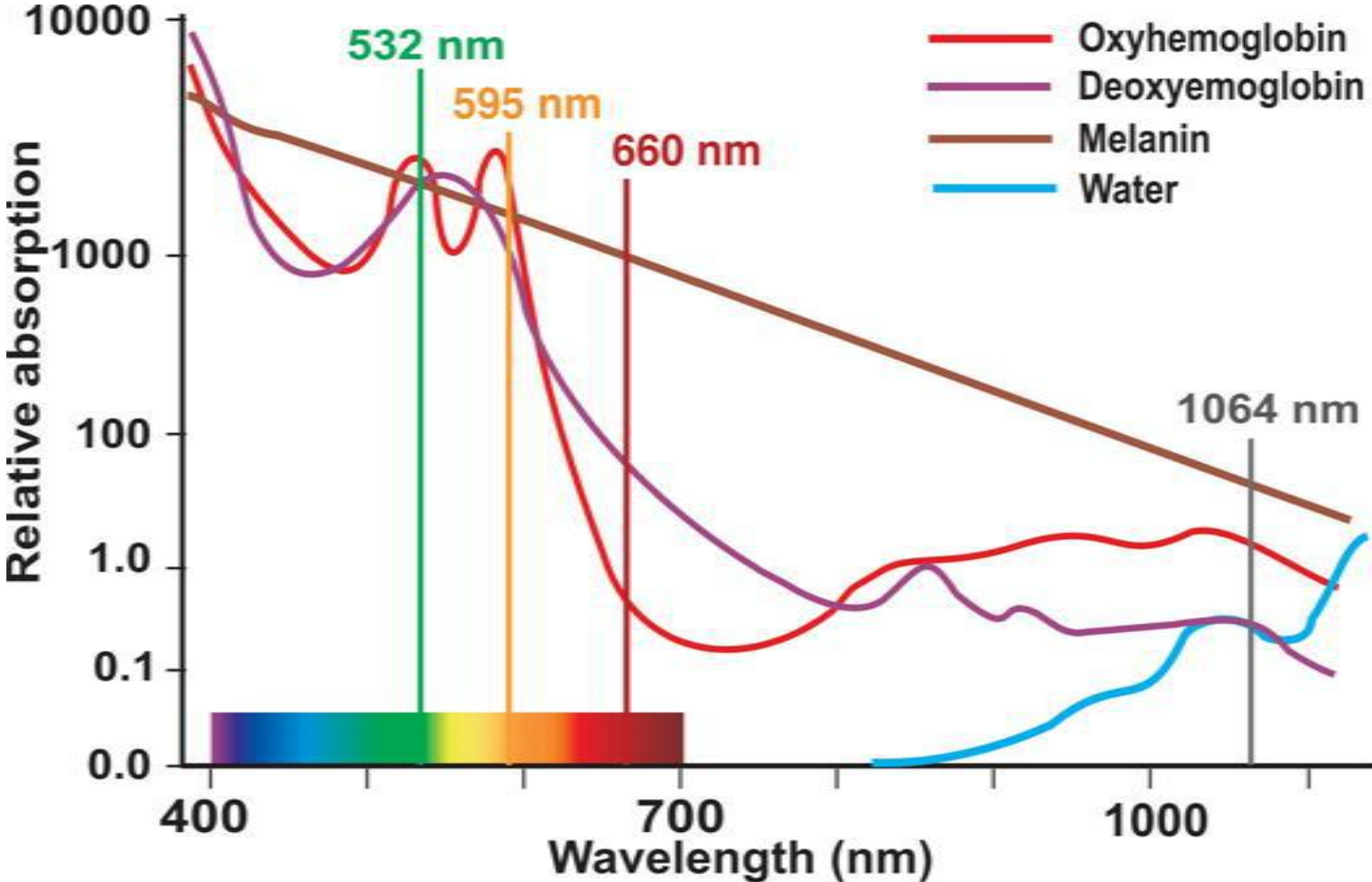
1st February 2018



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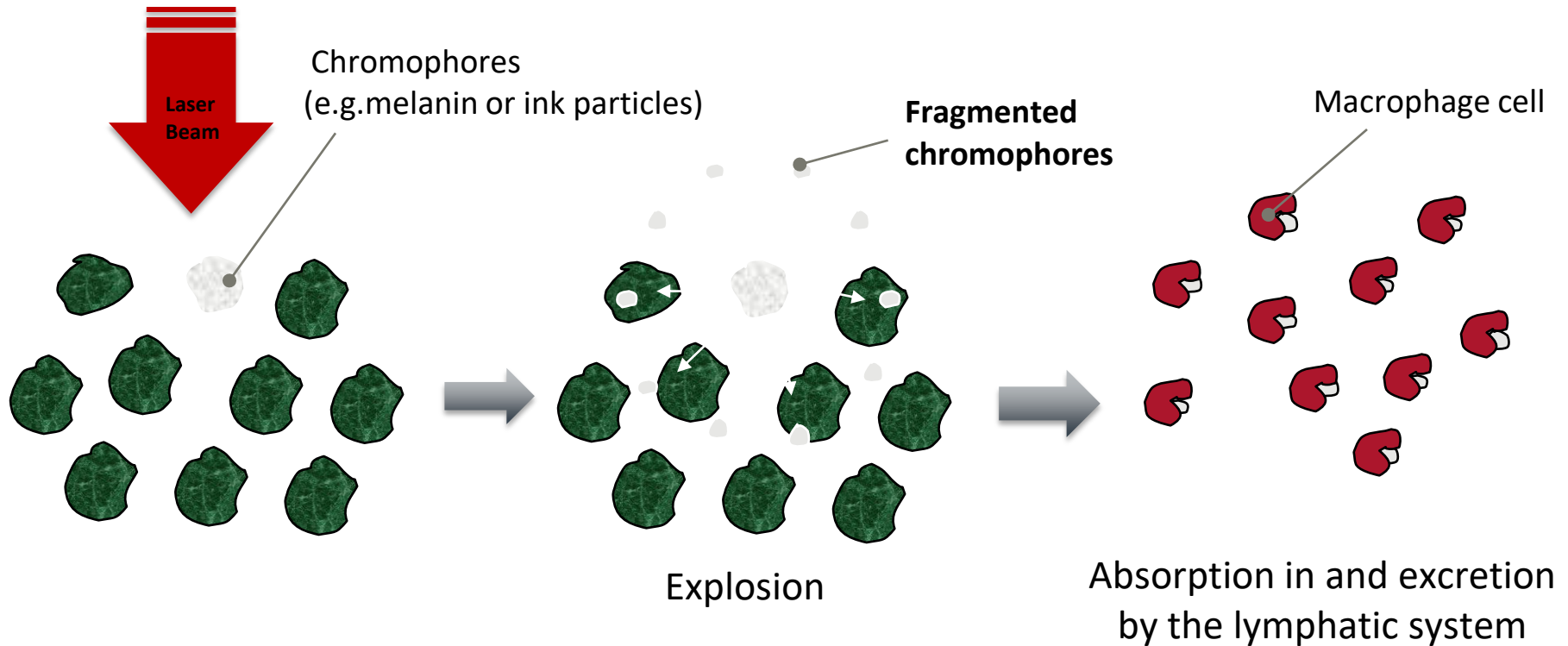
LASER TISSUE INTERACTION

LASER TISSUE ABSORPTION SPECTRUM



SELECTIVE PHOTOTHERMOLYSIS

Q-Switched Nd:YAG Laser
(SPECTRA *et al*)



Source: Department of Medical & Scientific Affairs, Lutronic Corporation

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TECHNICAL INFORMATION



SPECTRA SYSTEM OVERVIEW

SPECIFICATIONS

Laser Medium	Nd:YAG Crystal
Wavelength	1064 nm / 532 nm (Option: 595 nm , 660 nm , 585 nm, 650 nm)
Operating Mode	Q-switched & SPECTRA Mode (Quasi-long Pulse)
Beam Profile	Top Hat by OLT (Optimum Lattice Technology™)
Pulse Energy 1064 mode (Q-switched mode) 1064 mode (Q-switched mode, Q-PTP) 532 mode (Q-switched mode) SPECTRA mode (1064 nm) 585 mode (Q-switched mode) 595 mode (Q-switched mode) 650 mode (Q-switched mode) 660 mode (Q-switched mode)	Max. 1200 mJ Max. 1700 mJ Max. 400 mJ Max. 4500 mJ Max. 250 mJ Max. 250 mJ Max. 150 mJ Max. 150 mJ
Energy Calibration	External, Auto-calibration & Self-restoration
Pulse Width	5 - 10 ns (Q-switched Mode) / 300 us (SPECTRA Mode)
Spot Size (Auto Sensing) 1064 nm 532 nm 585 nm 595 nm 650 nm 660 nm	2, 3, 4, 5, 6, 7, 8, 9, 10 mm 1.3, 1.8, 2.4, 3.3, 4.2, 5.2, 6.4, 7.2, 8.1 mm 2 mm 5 mm 2 mm 2, 3 mm
Pulse Rate	Max. 10 (Hz)
Memory	8 User Programmable Memory
Optical Delivery	Articulated Arm
Aiming Beam	Diode 655 nm (Red), Adjustable Brightness
Cooling	Closed Circuit Water to Air
Input Power	Single phase, AC 100-120 V or AC 220-230 V, (Fuse 125 V / 25 A or 250 V / 15 A), 50 / 60 Hz, Power consumption: 1.7 kVA
Dimensions	295 mm (W) x 656 mm (L) x 1700 mm (H) or 11.6 in (W) x 25.8 in (L) x 66.93 in (H)
Weight	88 kg or 194 lb



[NOTE]
110 voltage mode has
different max. Hz.

Energy Range	Max Hz
4,000 – 4,500 mJ	2 Hz
3,000 – 4,000 mJ	5 Hz
2,500 – 3,000 mJ	8 Hz
< 2,500 mJ	10 Hz

HANDPIECES



- **2 - 10 mm Zoom Collimated Handpiece**
:532/1064nm, For removal of pigmented lesions.

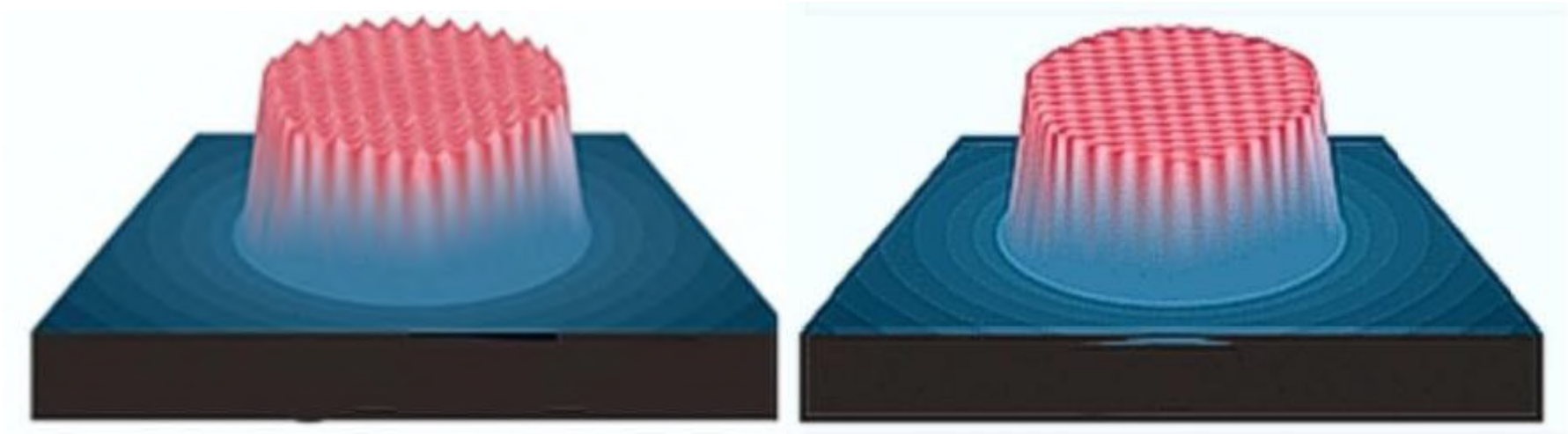


- **5 mm 595 nm Gold Toning Handpiece (for 2nd Generation Gold Toning indications)**
: Facial flushing, Inflammatory acne, Post-acne redness



- **2 - 3 mm 660 nm RuVY Touch Handpiece (for freckles and epidermal pigmented lesions)**
: Epidermal pigmented lesion

OPTIMUM LATTICE TECHNOLOGY



- More even energy distribution
- Less spikes
- More safe and less painful treatment

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TREATMENT TECHNIQUES



CLASSIC PIGMENT

CLASSIC PIGMENT TREATMENT

- Epidermal pigment
 - Locate at epidermis
 - Treat using 532nm
 - Freckles, Seborrheic keratosis, Café au lait, Solar lentigo



Freckles



Seborrheic Keratosis



Café Au Lait

CLASSIC PIGMENT TREATMENT

- Dermal pigment
 - Locate at dermis
 - Treat using 1064nm
 - Nevus of Ota, ABNOM, Hori's nevus, Melasma



Hori's Nevi



Nevus of Ota



Melasma

TREATMENT ENDPOINT

[Treatment Endpoint]



532nm endpoint



1064nm Endpoint (Tattoo)



1064nm Endpoint (Nevus of Ota)

- Epidermal Lesions (532nm)

Mild whitening is observed immediately after the single shot. Decrease the fluence if severe whitening occurs.

Increase the fluence if mere red or no color changes. Never treat with repetitive shots on the same spots at any time.

- Dermal Lesion & Tattoo (1064nm)

Frosting + Mild Pinpoint bleeding can occur immediately after the single treatment.

Increase the fluence slightly if no frosting occurs. Then proceed to another shot on the next area.

Decrease the fluence, if bleeding is too much.

CLASSIC PIGMENT TREATMENT

- Freckles



Before
Treatment



After 4 Sessions

Courtesy of BS Chandrashekar, India

CLASSIC PIGMENT TREATMENT

- Freckles



Before
Treatment



After
Treatment

Courtesy of Anonymous Doctor, HAMILTON Aesthetic & Plastic surgery clinic, China

CLASSIC PIGMENT TREATMENT

- Solar Lentingies



Before
Treatment



After 2 Sessions

Courtesy of JS Kang, Korea

CLASSIC PIGMENT TREATMENT

- Congenital Nevi



Before
Treatment



After 6 Sessions

Courtesy of BS Chandrashekar, India

CLASSIC PIGMENT TREATMENT

- Nevus of Ota



Before
Treatment



After 10 Sessions

Courtesy of WS Kim, Korea

CLASSIC PIGMENT TREATMENT

- Nevus of Ota



Before
Treatment



After 8 Sessions

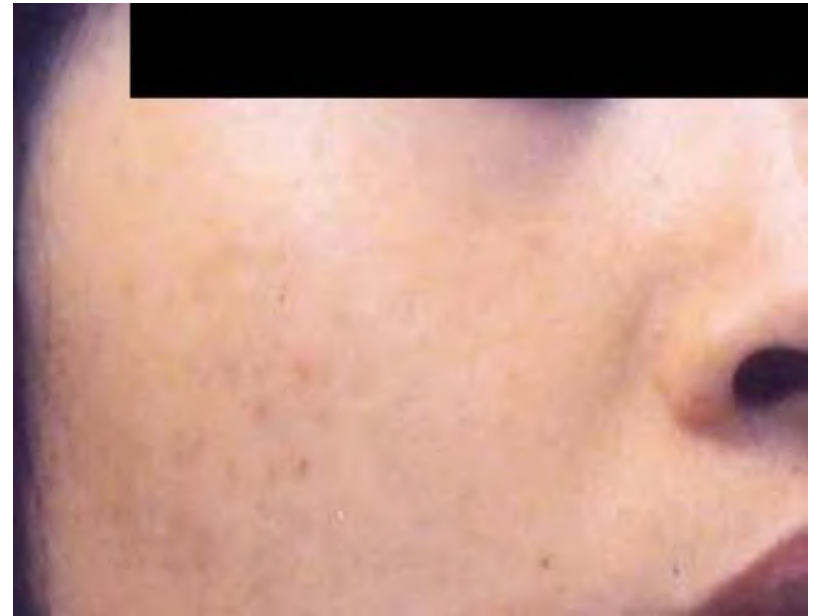
Courtesy of JS Kang, Korea

CLASSIC PIGMENT TREATMENT

- ABNOM



Before
Treatment



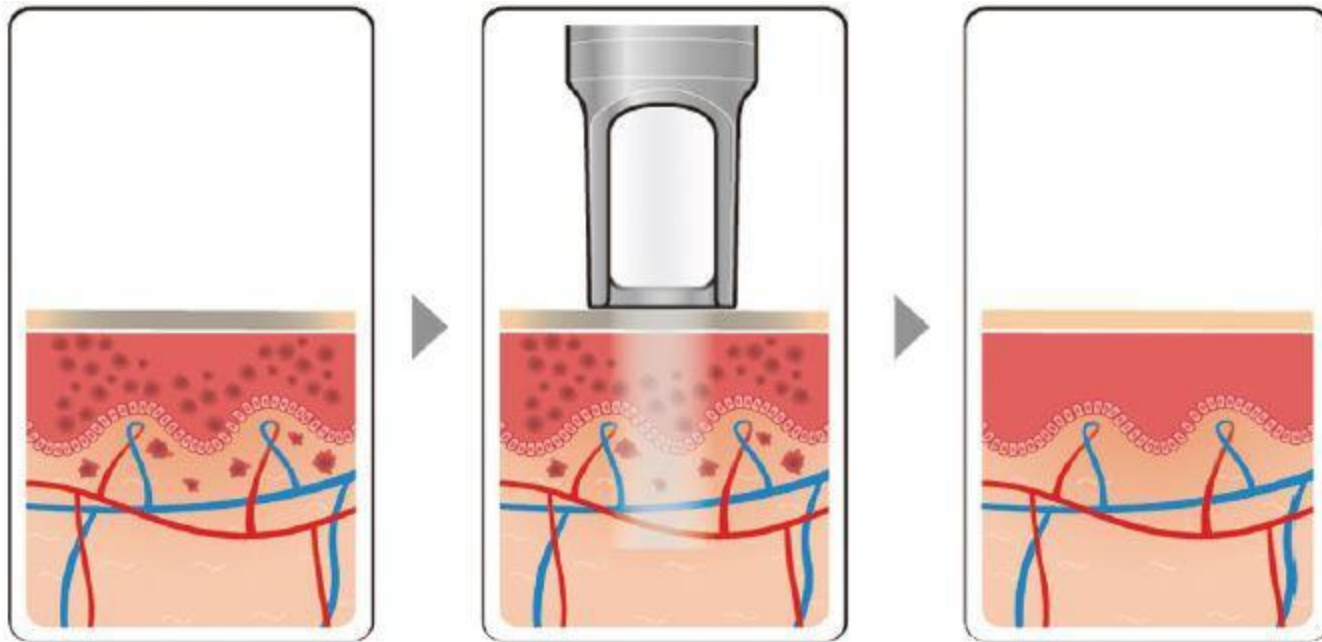
After 2 Sessions

Courtesy of JS Kang, Korea

LASER TONING

LASER TONING

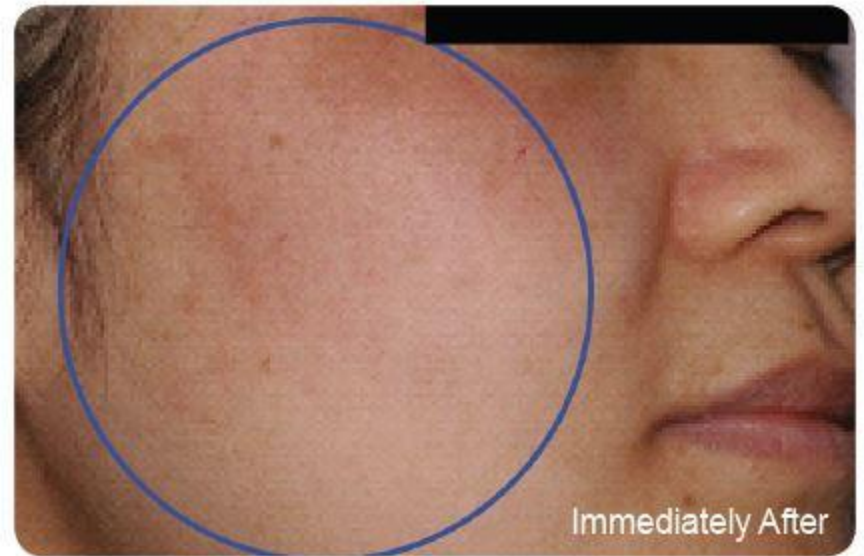
- Low fluence with Q-switched 1064nm Nd:YAG
- First choice to treat melasma
- Also working for PIH
- Safe treatment with interval of 1-2 weeks.



Source: Department of Medical & Scientific Affairs, Lutronic Corporation

DURING TREATMENT : ENDPOINT

- Laser toning



- End point: Mild erythema
- Use 2000~3000 shots.

LASER TONING

- Melasma



Before
Treatment

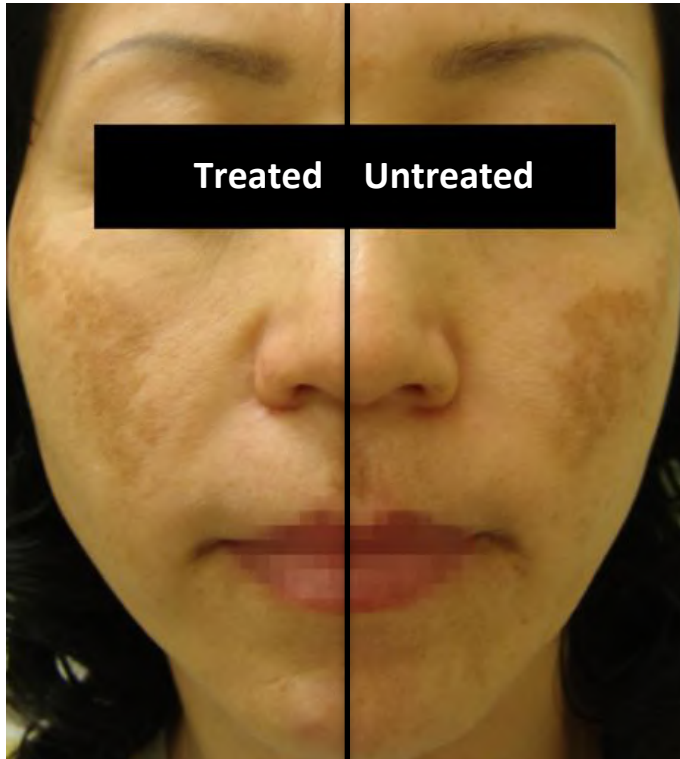


After 10 Sessions

Courtesy of J Kwok, Hong Kong

LASER TONING

- Melasma



Before
Treatment



After 7 Sessions

Courtesy of IH Kim, Korea

LASER TONING

- Melasma



Before
Treatment



After 10 Sessions

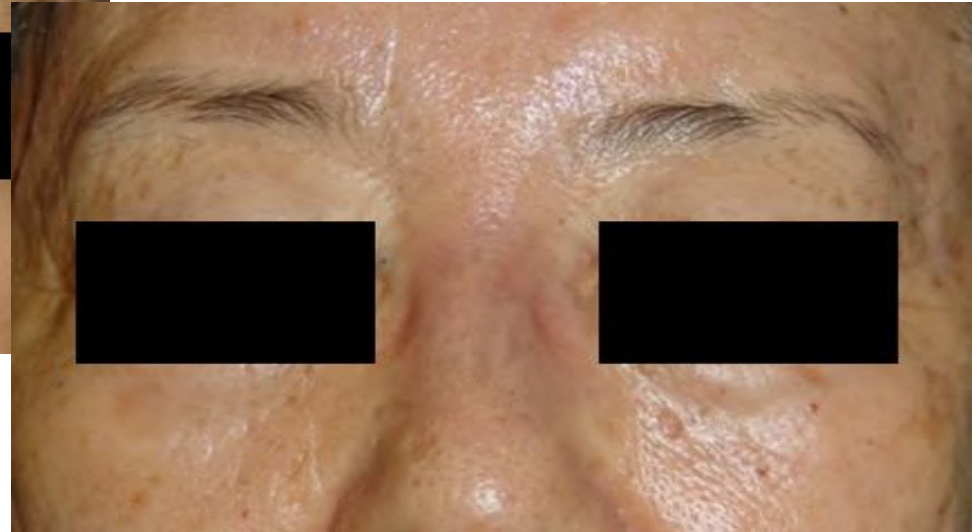
Courtesy of BS Chandrashekar, India

LASER TONING

- PIH



Before
Treatment



After 8 Sessions

Courtesy of IH Kim, Korea

LASER TONING

- PIH



Before
Treatment



After
Treatment

Courtesy of Anonymous Doctor, HAMILTON Aesthetic & Plastic surgery clinic, China

LASER TONING

- PIH



Before
Treatment



After 12 Sessions

Courtesy of WS Kim, Korea

HOLLYWOOD PEEL

HOLLYWOOD LASER PEEL



“With carbon lotion photoenhancer”

By using 2 different modes combination technique, known as “spectra peel”, we can achieve the excellent result for acne and also skin rejuvenation.

1: SPECTRA MODE

300 µs pulse, 7-8 mm Ø, 1 pass, minimal overlap

- The patient is prepared with Carbon lotion for 15 min.
- 1st, 300 microsecond Spectra mode is used to gently heat the skin with 1 pass.
- It slightly damage the stratum corneum
- The heat is penetrated deep down through the skin
- Activating heat shock protein - stimulating collagen remodeling and epidermal regeneration.

2: SOFT PEEL

Q-switched mode, 7-8 mm Ø 3-4 passes, 30% overlap

- Next , we switch the setting to 5ns QS mode and do 3-4 passes
- High peak power energy is instantly absorbed by the carbon particle as a photo-enhancer.
- instantly blast off carbon particles apart,
- creating plasma spark, w/o any heat being transferred to the skin.
- remove upper layer of stratum corneum thru the kinetic energy
- send osmotic shockwave down into epidermis and dermis.
- “ Thereby, helping to clear the blocked follicles and release the sebum, treating Acne”

1. **PATENTED CARBON LOTION APPLICATION**

Photo Enhancing Effect



Carbon Lotion seeps into pores

2. **SPECTRA MODE**

- 1064 nm
- 300 µs



3. **QSw MODE**

- 1064 nm
- 5 ns

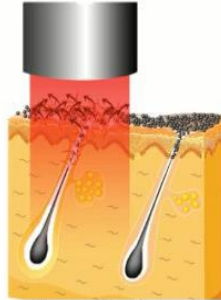
COMBINATION

Thermal Effect

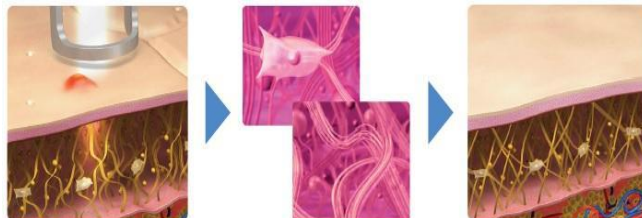


Carbon Lotion is gently heated

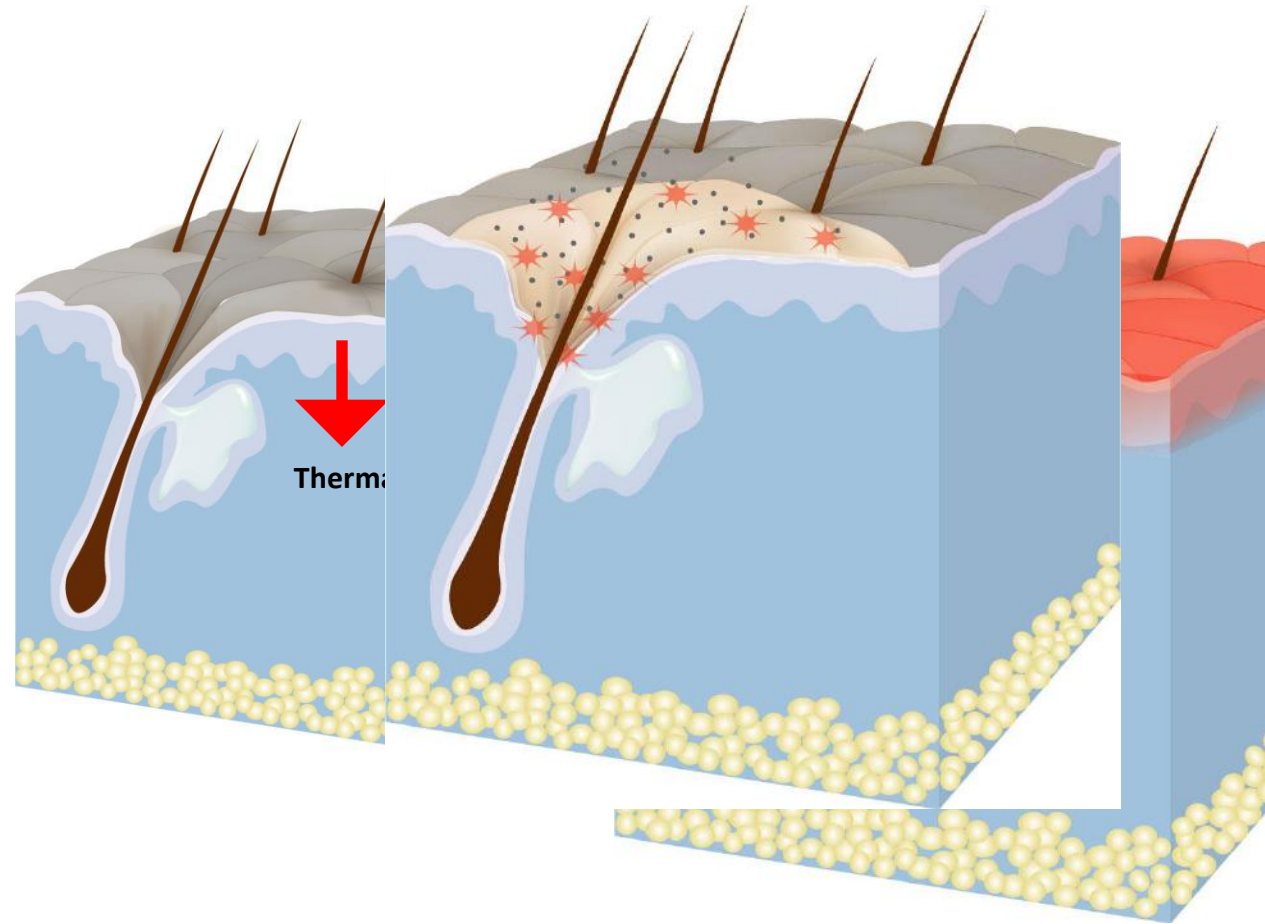
Peeling Effect



Carbon Particles explodes



HOLLYWOOD PEEL



Source: Department of Medical & Scientific Affairs, Lutronic Corporation



Hollywood Peel μίμ»ό ΑείΆγ^ο»

“HOLLYWOOD PEEL ”

QUESTIONS?

IS THERE ANY DOWNTIME?
No, you can return to your regular activities directly following the treatment.

IS THERE ANY PAIN?
The majority of patients report no pain, they only experience a slight warming of their skin and a light prickly feeling. No anesthesia or topical is needed.

HOW MANY TREATMENTS WILL I NEED?
The Hollywood Laser Peel is a gentle procedure that can be performed every other week, monthly, or even just once before a special event. It depends on the results you are trying to obtain.

Glowing skin before an event – a day or two prior to event.

Ongoing collagen stimulation, even skin tone, texture and youthful skin - one time per month.

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FACE IT. YOU'RE A STAR.

US PATENT – SPECTRA PEEL

United States Patent
(12) Patent No.: US 8,048,064 B2
(11) Date of Patent: Nov. 1, 2011

ABSTRACT
Disclosed is a method of using a laser peel by applying a carbon lotion over a face covered with skin, irradiating the applied carbon lotion with a laser pulse having a pulse width of approximately 100-200 ns, and irradiating the applied carbon lotion with a laser pulse having a pulse width of approximately 10-200 ns. The method includes applying the carbon lotion to the face and irradiating the carbon lotion with a laser pulse to heat and bond the applied carbon lotion. With the method, the carbon lotion is used to simply avoid without use.

3 Claims, 4 Drawing Sheets.

For these reasons, the procedure called, **“Hollywood Laser Peel”** using Spectra mode **“has become so popular in U.S.”** for celebs before going to Oscar. **“very simple/ quick/ easy procedure, No downtime, immediate glowing of the skin right after the treatment”**
“Celebrities get this treatment right before going to Red carpet.”

It's been published in many beauty-magazines and blogs & tweets



Beauty procedure: Also known as laser resurfacing, a laser peel is a treatment to reduce facial wrinkles and skin irregularities, such as blemishes or acne scars

Roxy Jacenko gets a 'Hollywood laser peel'



The technique directs short, concentrated pulsating beams of light at irregular skin, precisely removing skin layer by layer.

As with a majority of her daily activities, the businesswoman documented the procedure in step-by-step video footage posted to her Instagram.

Roxy has been open about undergoing various cosmetic procedures, including

MailOnline

- ▶ Masters Of Sex star Lizzy Caplan dazzles in a flowing bridal gown as producer husband Tom Riley shares first picture from their Italian wedding
- ▶ 'We've been nomads for a while': Emily Blunt and John Krasinski list renovated Brooklyn home for sale... because they travel too much to enjoy it
- ▶ 'Girl Power!' Victoria Beckham plays 'shop girl' in red suede dress as she gives lucky customer a glam makeover at the launch of new cosmetics line
- ▶ Love in the nineties: Rita Ora channels Britpop icon Damon Albarn in a vintage style strip-pod track suit as she leaves radio studios in Paris
- ▶ Natural beauty! Makeup-free Julianne Hough shows off her toned figure in stylish bikini during Labor Day beach fun with husband Brooks Laich
- ▶ EXCLUSIVE It was terrifying: Christopher Maitney reveals he DIED TWICE and had to be brought back to life after being bitten by a spider
- ▶ Georgia Kourkoulou steals the spotlight in a raunchy plunging PVC mini-dress for TOWIE filming... after being cruelly ridiculed by Little Mix for fashion ad

NEW ARTICLES Top

Share

'Doing as they do in LA': Roxy Jacenko treats herself to a 'Hollywood' laser peel after being open about getting Botox and lip fillers

By DAILY MAIL AUSTRALIA REPORTER
PUBLISHED: 07:49 BST, 29 June 2017 | UPDATED: 07:56 BST, 29 June 2017

She has made daily news headlines since the release of her husband Oliver Curtis from a 12-month prison sentence on Friday.

And Roxy Jacenko, who has admitted to cosmetic procedures in the past, took a break from her schedule on Thursday to treat herself to a 'Hollywood laser peel'.

The 37-year-old uploaded footage to her Instagram account as she underwent the treatment with dermatologist Dr. Natasha Cook in Darlinghurst.

Scroll down for video



Treatment: Roxy Jacenko, who has admitted to cosmetic procedures in the past, took a break from her schedule on Thursday to treat herself to a 'Hollywood laser peel'

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DON'T MISS

- ▶ 'We need to get Kate over this bit': Prince William opens up about an 'intense' start to his wife's pregnancy - and says he'll stop that she's 11 WEEKS along!
- ▶ 'I'm looking after him 24/7': Grieving Cheryl reveals she doesn't have a nanny as she talks about baby Bear in FIR AT TV interview in 10 months
- ▶ PICTURE EXCLUSIVE: Billionaire Chris Green flashes last night and per centers as she plants a sweet kiss on son's 10th Party 2017

BAZAAR Fashion Celebrity Beauty Culture Health & Fitness Travel BAZAAR Bride

EXTREME BEAUTY ROAD TEST: THE HOLLYWOOD PEEL

Hello, Collagen. Where have you been?

JUL 25, 2017 BY SIAM BY MEG BELLEMOORE

THE FRAGRANCES KATE MIDDLETON, PRINCESS DIANA AND QUEEN ELIZABETH WORE ON THEIR WEDDING DAYS

RIHANNA'S 'FENTY BEAUTY' LINE HAS ARRIVED AND WE'RE IMPRESSED

TOM FORD'S NEW FRAGRANCE IS CALLED F*CKING FABULOUS BECAUSE OF COURSE IT IS

9 BOUCIE LIP BALMS WORTH SPLURGING ON

WHAT IS FRAXEL—AND WHAT DO YOU NEED TO KNOW BEFORE GETTING IT?

EMMANUEL MACRON SPENDS \$16,000 ON MAKEUP EVERY SINGLE MONTH

WHY TONING IS THE MOST IMPORTANT PART OF YOUR HAIR COLOURING PROCESS

DIRTYVQUE IS LAUNCHING THE LUXURY AIR FRESHENER YOU DIDN'T

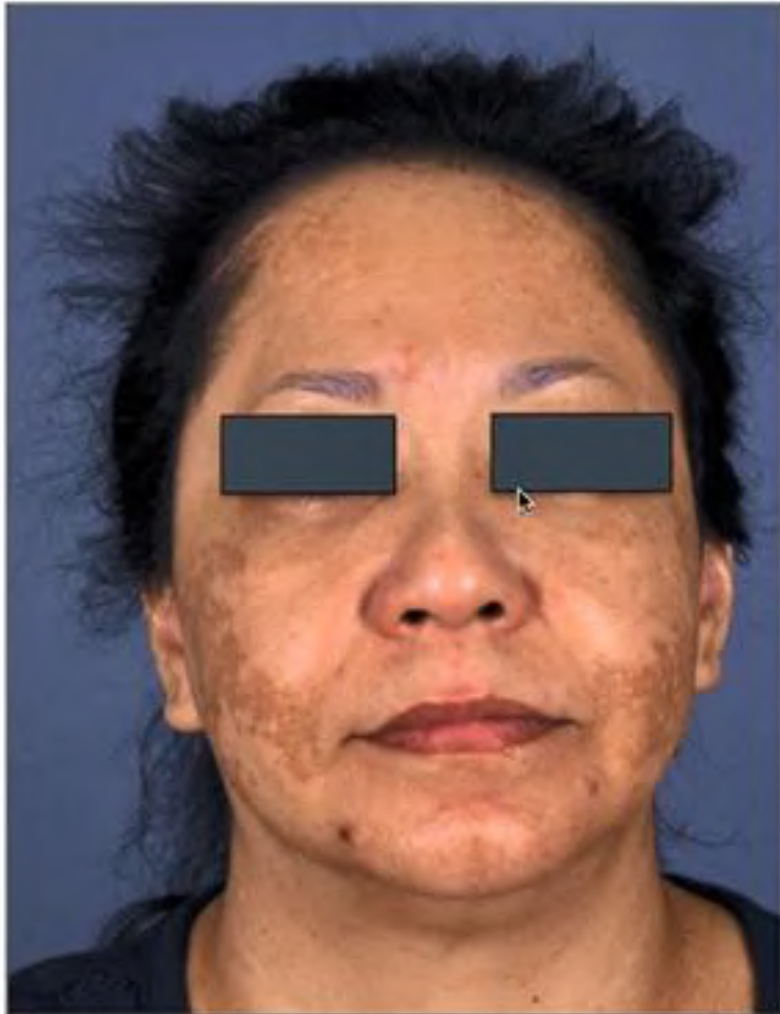
The name: The Carbon Spectra Peel, better known as the Hollywood Peel.

The sell: "A no-downtime, painless procedure that immediately leaves your skin glowing, radiant and plumped up, with pores refined."

The treatment: I went into the treatment presuming I would be marinating in a mix of fruit acids for a few minutes, because that's what a traditional peel is, no?

This carbon spectra peel is actually a laser treatment, so don't expect any uncomfortable itching. The Lutronic Spectra laser machine has a few functions—it's used for tattoo removal, treating melasma, and infusing the skin with a Hollywood glow, via the carbon spectra peel.

“HOLLYWOOD PEEL”



Photos courtesy of Dr. Candace Spann, Las Vegas, NV USA

“HOLLYWOOD PEEL ”



Photos Courtesy of Dr. Candace Spann, Las Vegas, NV USA

Moderate to Severe Pustular Acne (Spectra Peel)



Before

“Good lesion clearance with no signs of SE”



6 month F/U after 6 Tx

Courtesy May Lee MD, South Korea

Pustular Acne (Spectra Peel)



Before

6 month F/U after 6 Tx



Courtesy May Lee MD, South Korea

Inflammatory Acne (Spectra Peel)



Before



After 2 sessions

Spectra peel 1.2J after 2 sessions one month apart

Courtesy of S. Shah, MD, India

Combination of Spectra Peel + Gold Toning



Before Treatment



1 Month after 3 Sessions



After 1 Session

Parameter: Spectra Peel

Wavelength: 1064 nm / Spot size: 8 mm

Spectra mode >> Fluence: 1.2 J/cm² / 1 pass

Q-switched mode >> Fluence: 1.2 J/cm² / multipasses

Parameter: Gold Toning

Wavelength: 585 nm / Spot size: 5 mm

Fluence: 0.20 J/cm² / 3 passes

Large pores (Spectra Peel)



Baseline



2 Weeks post 1^{Tx}

**In addition to Acne, spectra peel is also very good for reducing the pore size.^{Tx}
2 weeks after single spectra peel with dramatic reduction in pore size and also skin rejuvenation**

TATTOO REMOVAL

TATTOO REMOVAL TREATMENT

- Tattoos are ink particles located in the dermis or subdermal tissues that have been encapsulated as foreign bodies. In their stable state, **they are too big to be removed by macrophages**, the skin's natural scavenger cells, and so remain as colored artificial lesions.
- Using highly collimated light at various wavelengths, lasers can fracture and **explode the ink particles into microscopic pieces** that the macrophages can remove, harnessing the natural energy of light and the natural responses of the body to dispose of the fragmented ink particles.

PROTOCOL

1. Use a topical anesthetic before treatment
2. Performing **test shots** is a must in tattoo removal treatments.
3. In particular, **some brown or red tattoos** (especially lip tattoos) may contain iron oxide ingredients and **may turn black** when irradiated. It is therefore strongly recommended that test shots be performed and that the progress be confirmed before starting a treatment.
4. Treat in a single pass, aiming for about 30% overlapping, at a 1-2 Hz pulse rate.
5. If the tissue overlying the **tattoo erupts immediately** after laser irradiation rather than showing frosting as illustrated above, or if **severe pinpoint bleeding** occurs, **lower the fluence**.
6. Aggressive treatment can delay natural eyebrow growth, and as such, excessive irradiation must be avoided.



TATTOO REMOVAL TREATMENT



Before
Treatment



After 4 Sessions

Courtesy of BS Chandrashekar, India

TATTOO REMOVAL TREATMENT



Before
Treatment



After 4 Sessions

*Courtesy of ML Werner,
USA*

TATTOO REMOVAL TREATMENT



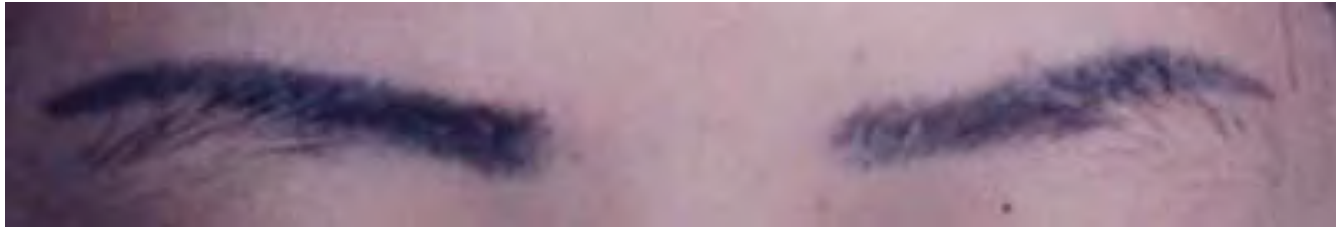
Before
Treatment



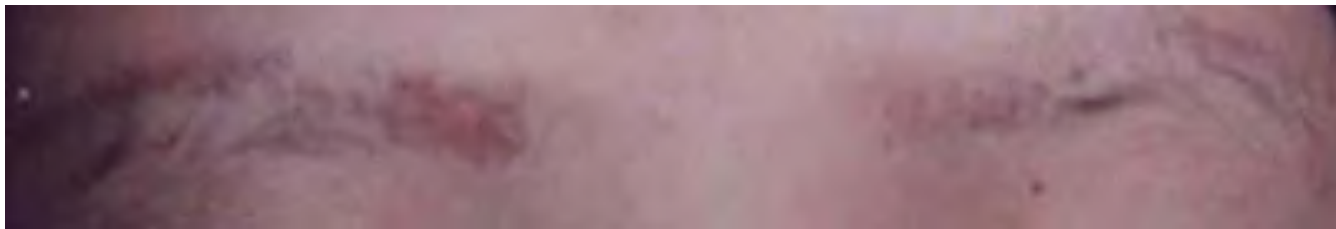
After 7 Sessions

Courtesy of JK Duplechain, USA

TATTOO REMOVAL TREATMENT



Before
Treatment



After 2 Sessions

Courtesy of JS Kang, Korea

THE EXTENDED PLATFORM

It is not just a QSNY, but “The Extended Platform”

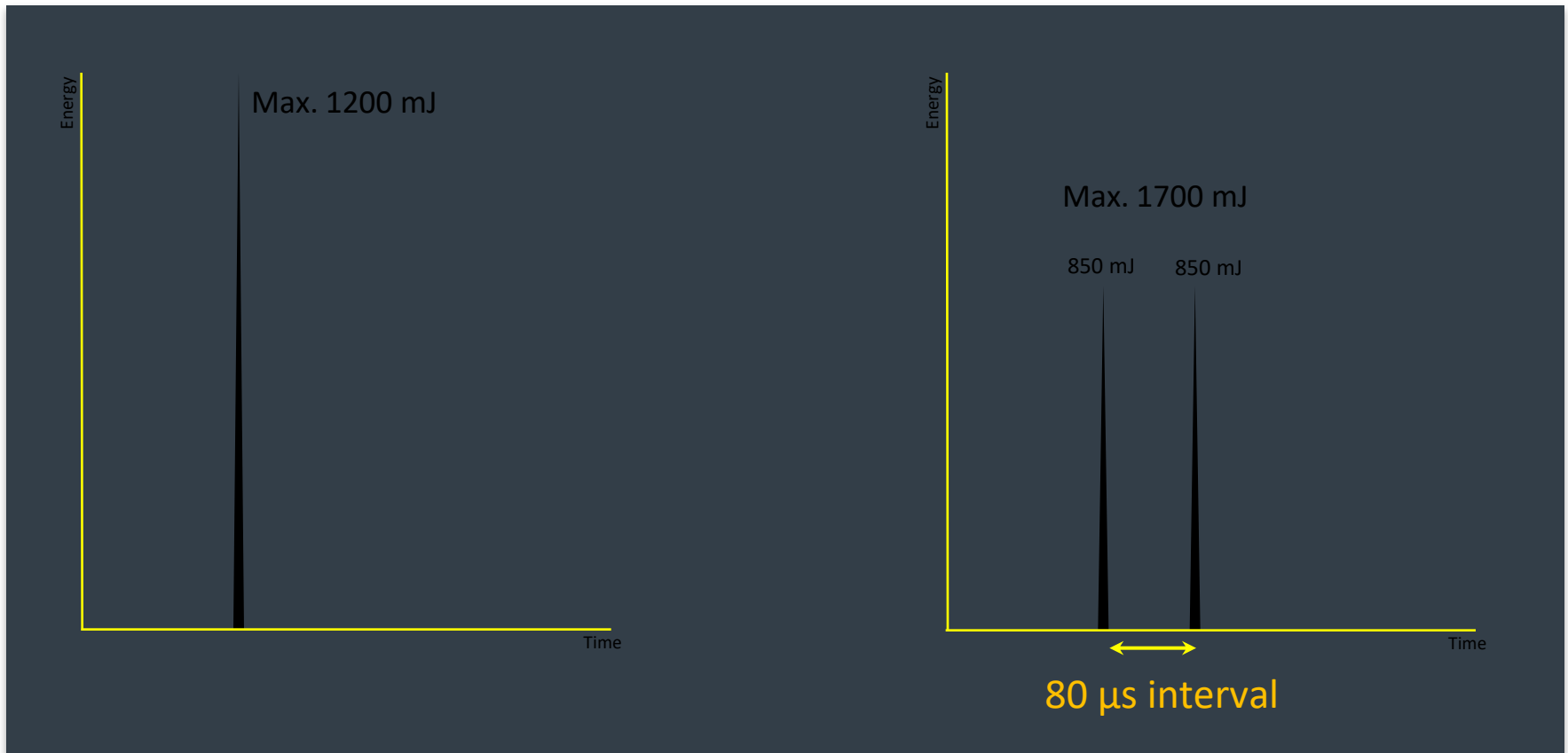
ADDITIONAL...

Q-PTP Mode
(QUICK PULSE-TO-PULSE)

ANOTHER OPTION FOR TREATMENT OF THIN AND DRY SKIN, OR SKIN SENSITIVE TO PAIN

Single Pulse Mode

Q-PTP Mode



Note) Q-PTP is only available in the 1064 nm, Q-switched Mode.

- Q-PTP stands for “Quick Pulse-to-Pulse”. This technology is more advanced than the PTPs of current market competitors.
- The Q-PTP interval of SPECTRA XT is 80 μs.

ANOTHER OPTION FOR TREATMENT OF THIN AND DRY SKIN, OR SKIN SENSITIVE TO PAIN

Patients with Melasma

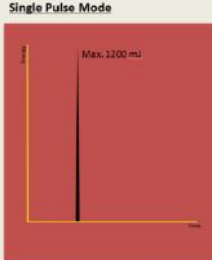
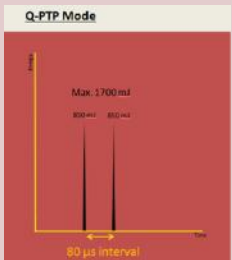
- Usual Patients

- Patients with thin and dry skin
- Pain-sensitive patients

1064 nm Nd:YAG Laser Toning
(Single Pulse)

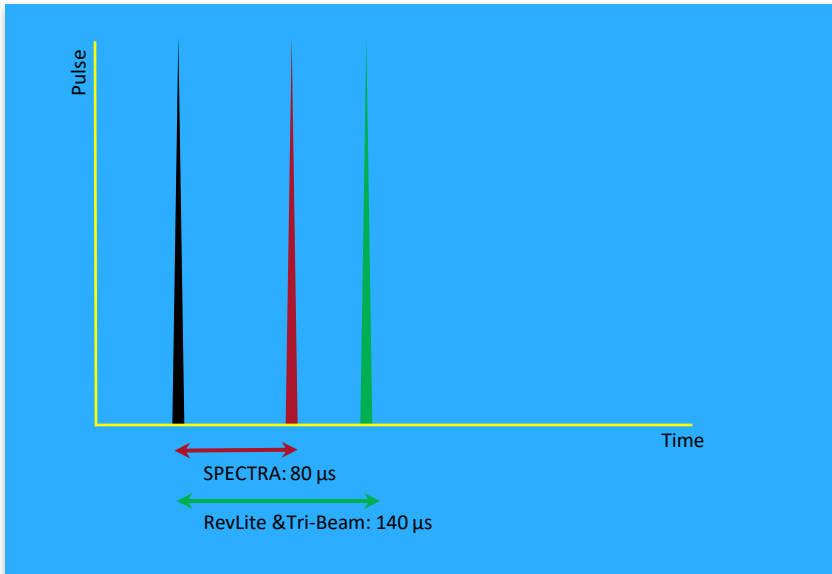
1064 nm Nd:YAG Laser Toning
(Q-PTP)

ANOTHER OPTION FOR TREATMENT OF THIN AND DRY SKIN, OR SKIN SENSITIVE TO PAIN

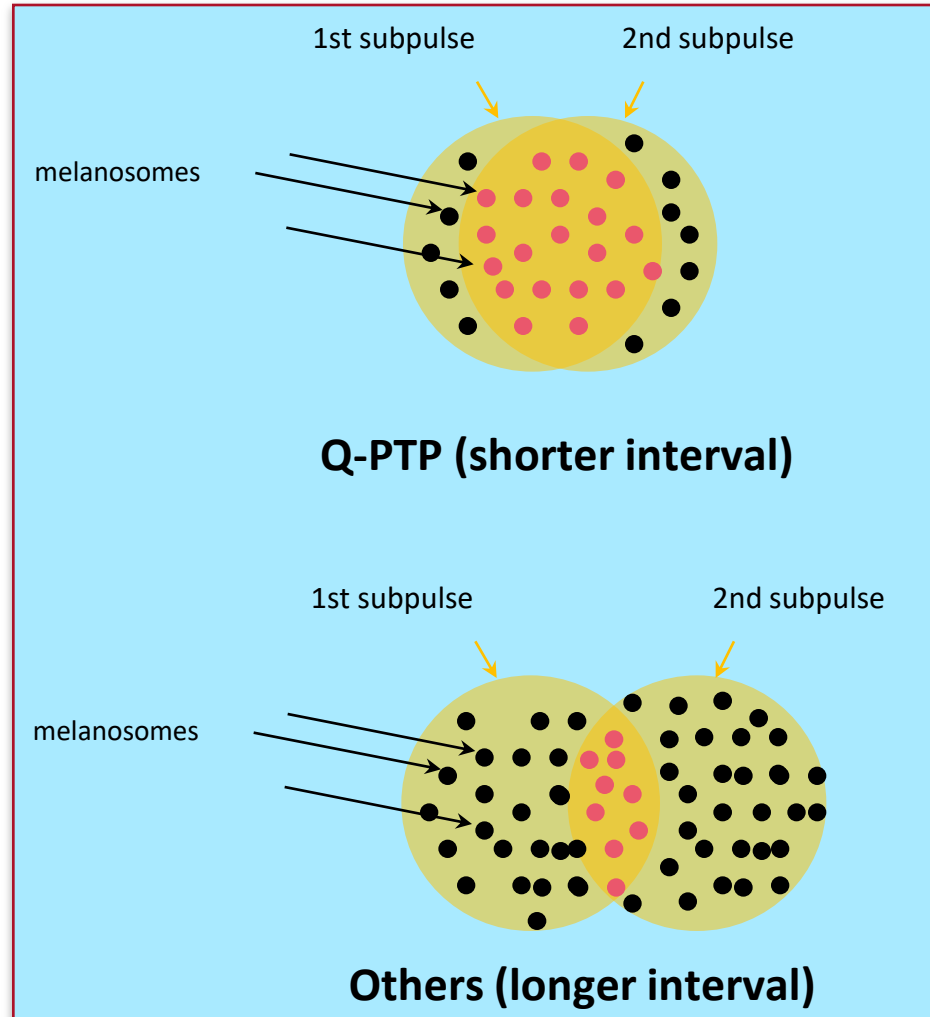
	Single Pulse Mode	Q-PTP Mode
Pulse Delivery	Single pulse	Two consecutive pulses
Mechanism	Destroys chromophores by single powerful attack	Destroys chromophores with a double but more gentle attack
Max. Energy (per pulse)	1200 mJ	850 mJ
Max. Energy (Total)	1200 mJ	1700 mJ
Pain	Higher	Lower
Treatment	Gentle	Even more gentle
Illustration	 <p>Single Pulse Mode</p> <p>Max. 1200 mJ</p>	 <p>Q-PTP Mode</p> <p>Max. 1700 mJ</p> <p>850 mJ 850 mJ</p> <p>80 μs interval</p>

ANOTHER OPTION FOR TREATMENT OF THIN AND DRY SKIN, OR SKIN SENSITIVE TO PAIN

Q-PTP VS. OTHERS



Additionally, the maximum energy of the SPECTRA XT Q-PTP is **1700 mJ**, 100 mJ higher than other competitors.



LUTRONIC

**THE EXTENDED PLATFORM SEPECTRA
XT SYSTEM OPERATIONS**

THE EXTENDED PLATFORM

It is not just a QSNY, but “The Extended Platform”

Existing QSNY



1

- **One-stop solution for erythema and acne**
: 595 nm 2nd Generation “Gold Toning”



2

- **The safest freckle treatment better than 532 nm**
: 660 nm “RuVY Touch”*



3

- **Beyond the Laser Genesis technique**
: 1064 nm 4.5 J “Revital Treatment”

* RuVY stands for “Ruby-like Versatile YAG.”

THE EXTENDED PLATFORM

It is not just QSNY, but “The Extended Platform”

Existing QSNY



- 1 • **One-stop solution for erythema and acne**
: 595 nm 2nd Generation “Gold Toning”



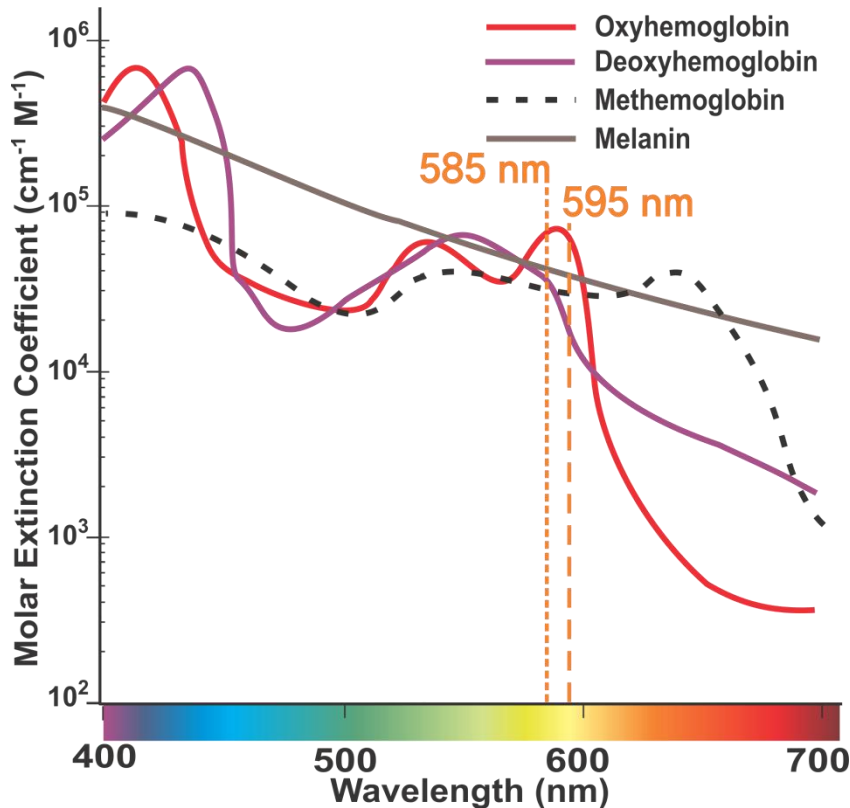
- 2 • **The safest freckle treatment better than 532 nm**
: “RuVY Touch”



- 3 • **Beyond the Laser Genesis technique**
: 1064 nm 45 J “Revital Treatment”

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

595 nm 2nd Generation “Gold Toning”



	Absorption
Melanin	585 nm > 595 nm
Oxy- and Deoxy-Hemoglobin	585 nm > 595 nm

- 595 nm has lower melanin absorption than 585 nm.
 - ☐ Slightly less epidermal damage
 - ☐ Slightly deeper penetration
- 595 nm has a lower oxy- and deoxy- hemoglobin absorption rate than 585 nm.
 - ☐ Slightly less purpura

Summary

: 595 nm might be slightly safer than 585 nm with lesser chance to have potential side effects.

However both wavelengths can still be clinically used because; 1) the suggested treatment parameters mostly require very low fluence settings, 2) mostly targeted micro-vasculature is located in papillary dermis (upper dermis).

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

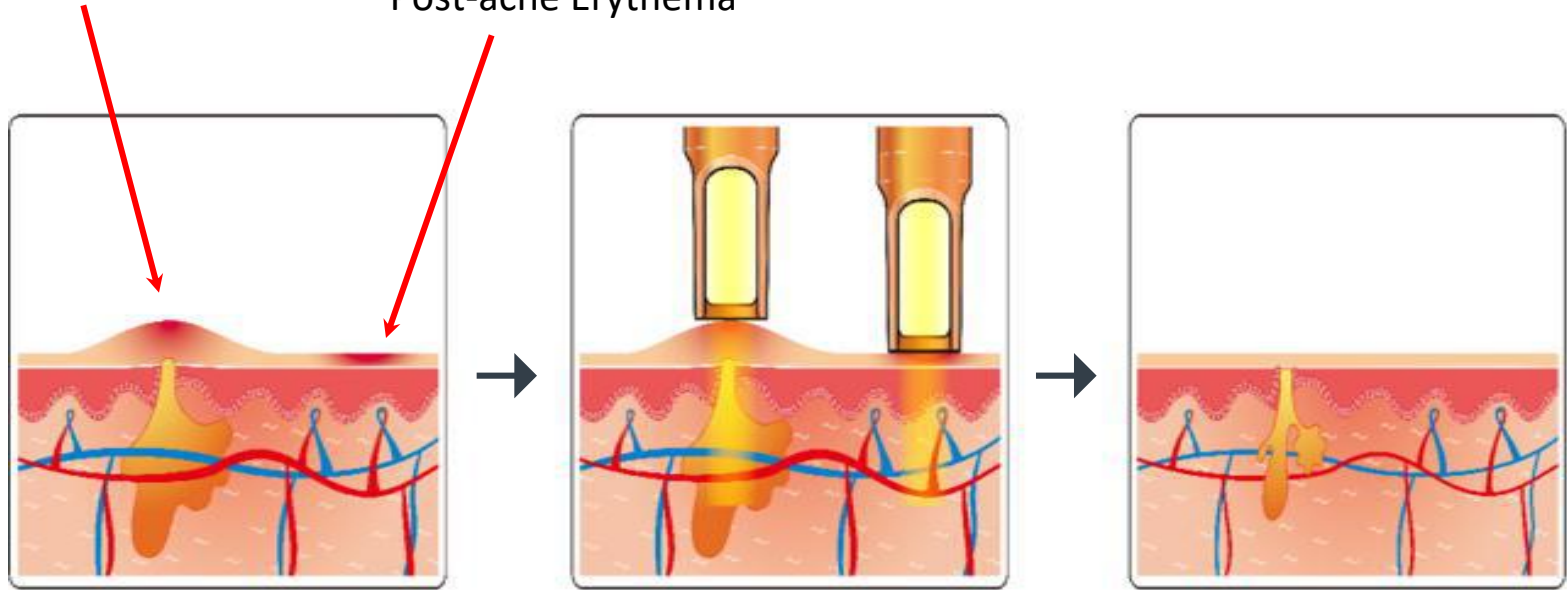
Suggested Indications

- Post-acne erythema
- Inflammatory acne
- Facial flushing
- Rosacea (early stage erythematotelangiectatic)
- Melasma concomitant with abnormal dermal vascular activity (in combination treatment with Laser Toning)
- Erythema post-treatment with laser

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

Inflammatory Acne

Post-acne Erythema

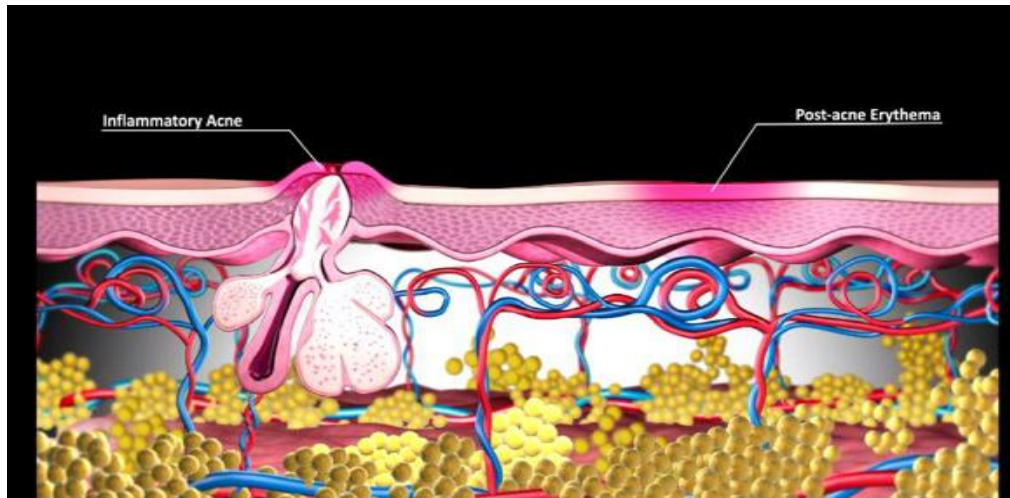


Inflammatory acne is in the active phase, and post-acne erythema can persist for a certain period of time. Skin looks flushed.

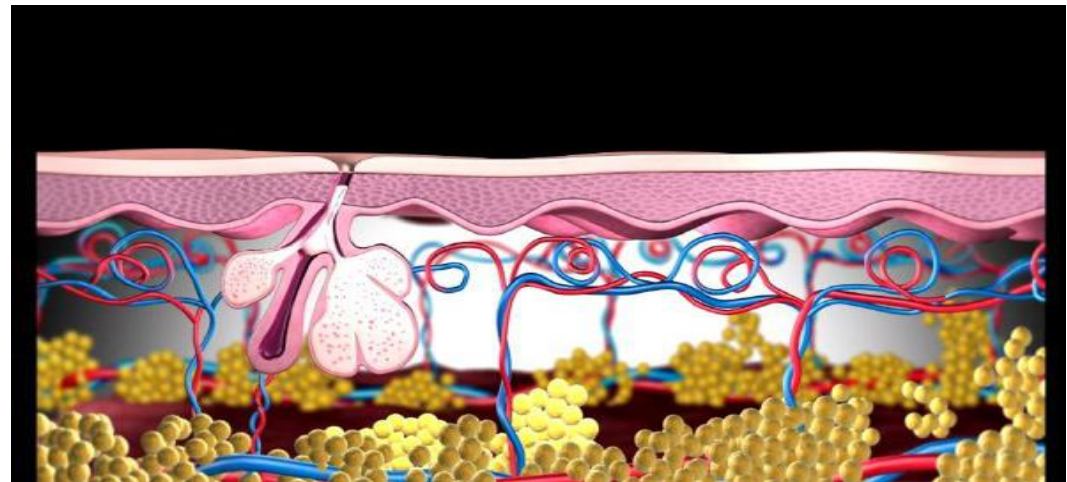
595 nm laser energy is delivered to the inflammatory acne and post-acne erythema area, and is absorbed by hemoglobin in the dilated microvasculature, eventually playing a significant role in controlling the microvasculature through photobiomodulatory activities.

The inflammatory acne subsides and the areas of post-acne erythema lighten back to the color of the surrounding normal skin.

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE



3D [ANIMATION](#)



ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

Acne and Post-acne Erythema



Baseline



After 5th tx.

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

Post-acne Erythema*



Before
Treatment

After 1 Session

After 2 Sessions

2 Weeks after 3 Sessions



6 Weeks after 3 Session

2 Weeks after 4 Sessions

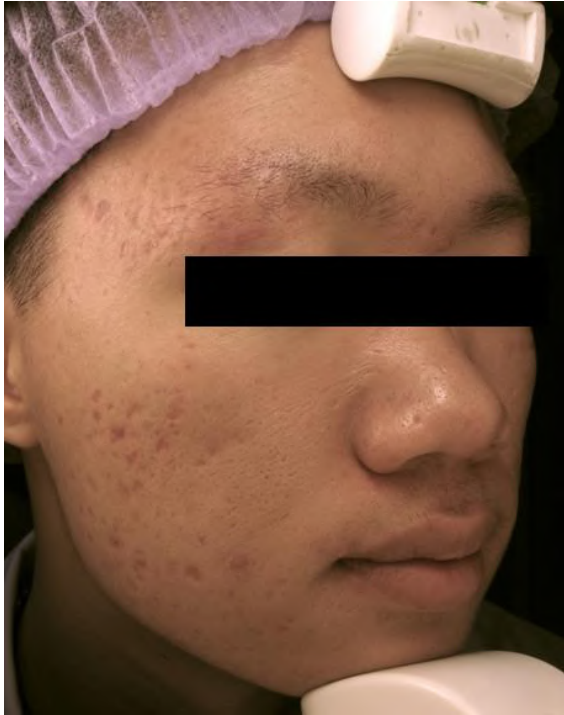
2 Weeks after 5 Sessions

*This case was treated with 585 nm.

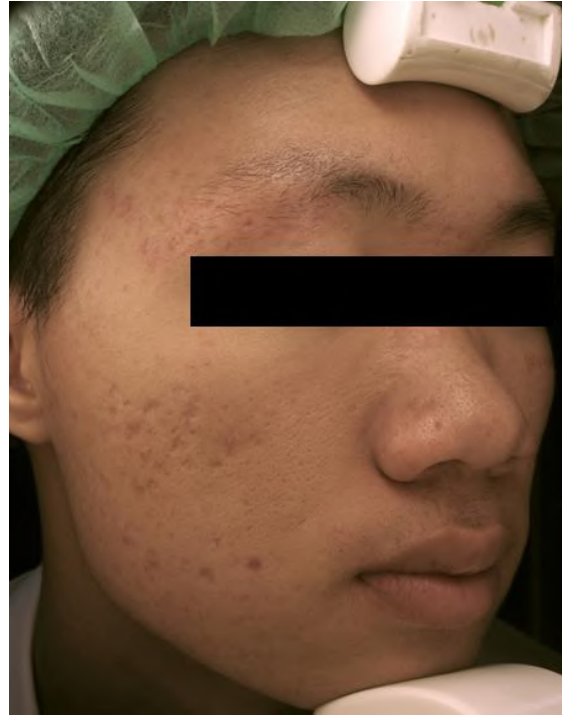
Courtesy of Ratchathorn Panchaprateep, MD, Thailand

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

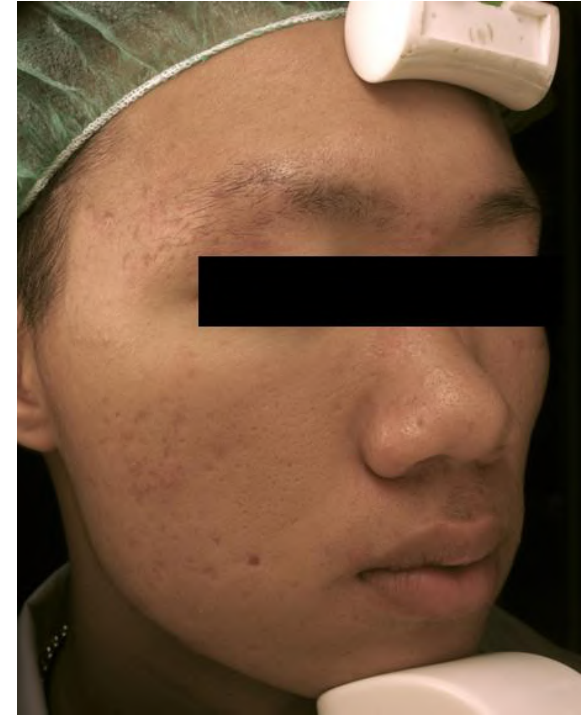
Post-acne Erythema*



Before
Treatment



6 Weeks after 3 Session



2 Weeks after 5 Session

*This case was treated with 585 nm.

Courtesy of Ratchathorn Panchaprateep, MD, Thailand

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

Post-acne Erythema*



Before



2 Weeks after 5 Session

*This case was treated with 585 nm.

Treatment

Courtesy of Ratchathorn Panchaprateep, MD, Thailand

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

Acne and Post-acne Erythema*



Baseline



2 week after 2nd tx.

(Superficial chemical peeling +
Comedone extraction + Gold Toning)

*This case was treated with 585 nm.

Courtesy of J.H. Kim, MD, South Korea

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

Acne and Post-acne Erythema*



Baseline



After

*This case was treated with 585 nm.

Courtesy of S. Shah, MD, India

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

Acne and Post-acne Erythema*



Baseline



After

Parameter

Wavelength: 585 nm with Gold handpiece
Spot size: 5 mm / Fluence: 0.28-0.36 J/cm²
1 week interval

*This case was treated with 585 nm.

Courtesy of Nilgun Soysal, MD, Turkey

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

Acne and Post-acne Erythema*



Baseline



After

Parameter

Wavelength: 585 nm with Gold handpiece
Spot size: 5 mm / Fluence: 0.30-0.38 J/cm²
1 week interval

*This case was treated with 585 nm.

Courtesy of Nilgun Soysal, MD, Turkey

ONE-STOP SOLUTION FOR ERYTHEMA AND ACNE

Acne and Post-acne Erythema*



Baseline



After

Parameter

Wavelength: 585 nm with Gold handpiece
Spot size: 5 mm / Fluence: 0.30-0.38 J/cm²
1 week interval

*This case was treated with 585 nm.

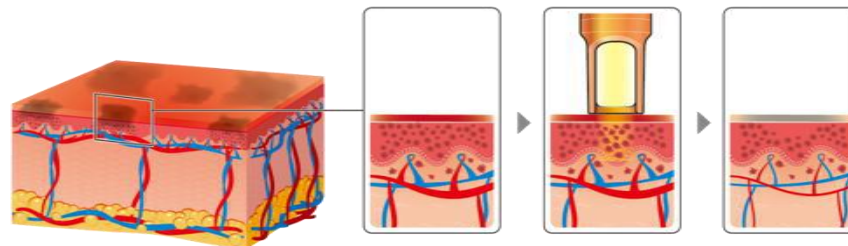
Courtesy of Nilgun Soysal, MD, Turkey

ADDITIONAL INDICATIONS

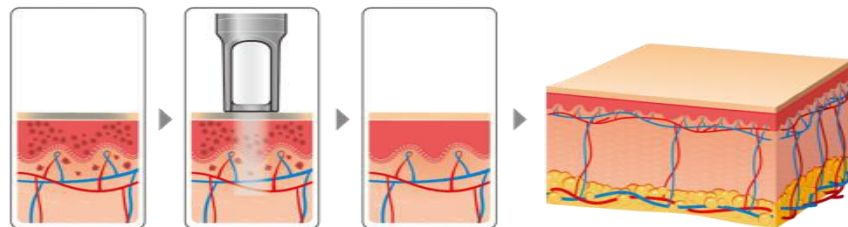
Additional Suggested Indications

Aside from Post-acne Erythema and Acne;

- Facial flushing
- Rosacea (early stage erythematotelangiectatic)
- Melasma concomitant with abnormal dermal vascular activity (in combination treatment with Laser Toning)
- Erythema post-treatment with laser



Low-fluence 595 nm Q-switched Nd:YAG treatment



Low-fluence 1064 nm Q-switched Nd:YAG treatment

[Example of Combination Treatment]

THE EXTENDED PLATFORM

It is not just a QSNY, but “The Extended Platform”

Existing QSNY



1

• One-stop solution for erythema and acne
: 595 nm 2nd Generation “Gold Toning”



2

• The safest freckle treatment better than 532 nm
: 660 nm “RuVY Touch”*



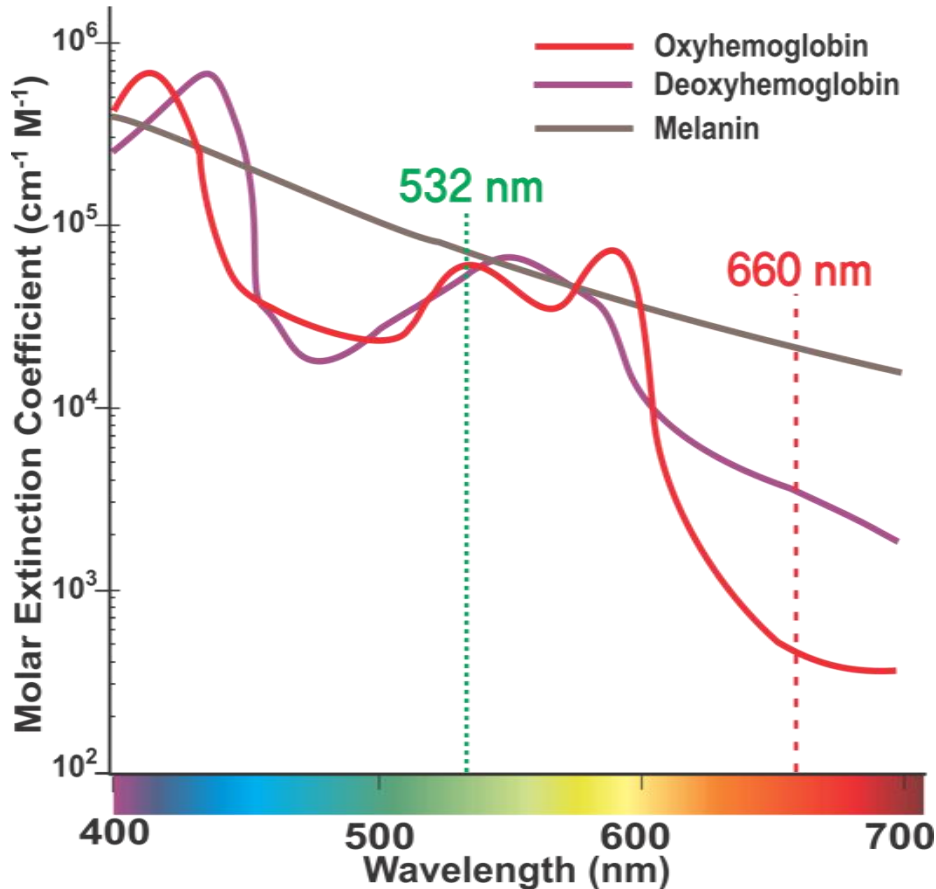
3

• Beyond the Laser Genesis technique
: 1064 nm 45 J “Revital Treatment”

* RuVY stands for “Ruby-like Versatile YAG.”

THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

660 nm “RuVY Touch”



	Absorption
Melanin	532 nm > 660 nm
Oxy- and Deoxy-Hemoglobin	532 nm > 660 nm

- 660 nm has lower melanin absorption than 532 nm, and is therefore much safer than 532 nm.
 - ☐ Less PIH
- 660 nm has lower oxy- and deoxy-hemoglobin absorption than 532 nm, therefore less competition between melanin and hemoglobin and less chance to affect vessels.
 - ☐ Less inflammation, thus less PIH

Summary:

660 nm is a safer wavelength than 532 nm for removal of epidermal pigmented lesions.

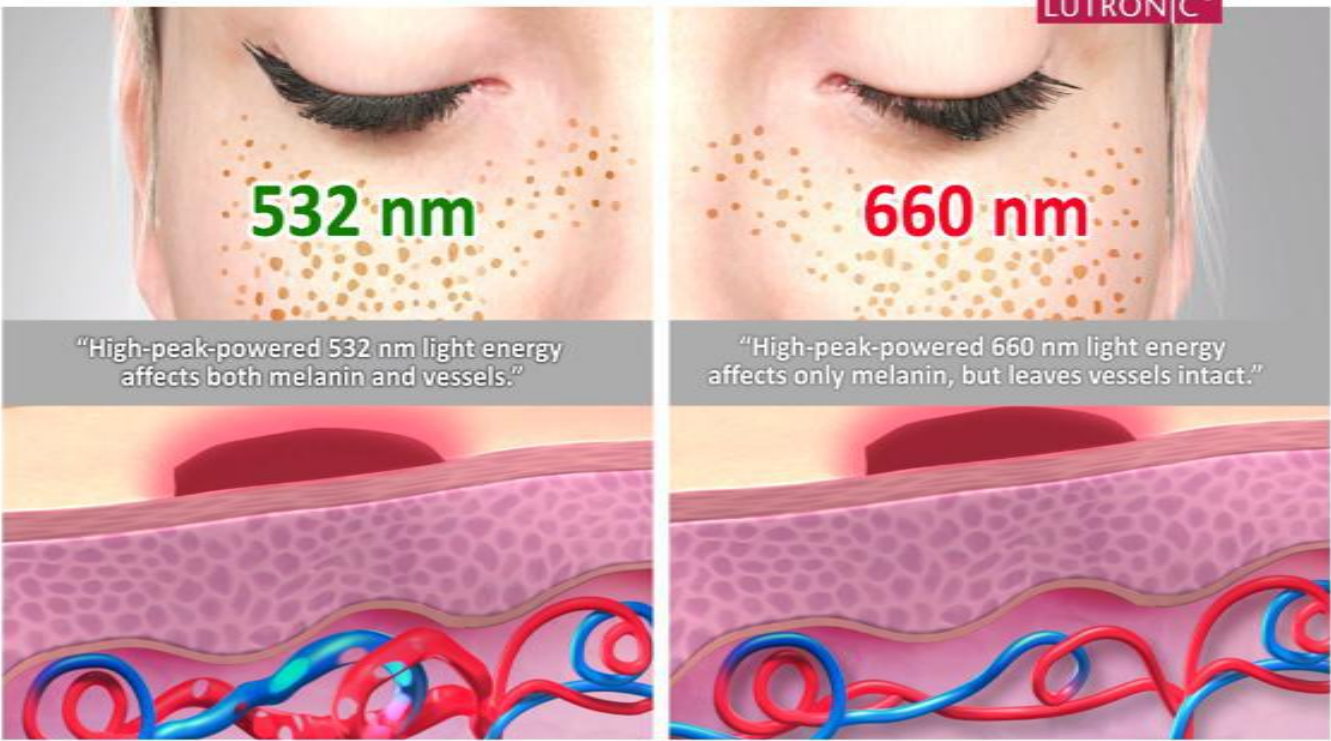
THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

Suggested Indications

- Freckles
- Other epidermal pigmented lesions

THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

[3D ANIMATION](#)



THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

Freckles



Baseline



1 Week after
Treatment

THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

Epidermal pigmented lesions



Baseline



3 Weeks after
Treatment

Courtesy of T. C. Huang, MD, Taiwan

THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

Epidermal pigmented lesions



Baseline



1 Month after
Treatment





Courtesy of T. C. Huang, MD, Taiwan

THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

	BEFORE	IMMEDIATE	POST 5 DAYS	POST 17 DAYS	POST 24 DAYS
532 nm					
660 nm					

Courtesy of Bettina Rümmelein, MD, Switzerland

THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

	IMMEDIATE	POST 5 DAYS
532 nm		
660 nm		



THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

Epidermal pigmented lesions



Baseline



1st RuVY Touch

Courtesy of Bettina Rümmelein, MD, Switzerland

THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

Epidermal pigmented lesions



Baseline



1st RuVY Touch

Courtesy of Bettina Rümmelein, MD, Switzerland

THE SAFEST FRECKLE TREATMENT BETTER THAN 532 NM

Epidermal pigmented lesions



Baseline



1st RuVY Touch

Courtesy of Bettina Rümmelein, MD, Switzerland

STUDY PAPERS

Therapeutic Efficacy and Safety of Wavelength-Converted 660-nm Q-Switched Ruby-Like Versatile YAG Treatment on Various Skin Pigmentation Disorders

Original Article
Med Laser Eng 2014; July 14
pISSN 2287-8300, eISSN 2288-0226

MEDICAL
LASERS

Original Article

Therapeutic Efficacy and Safety of Wavelength-Converted 660-nm Q-Switched Ruby-Like Versatile YAG Treatment on Various Skin Pigmentation Disorders

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Commercial License (<http://creativecommons.org/licenses/by-nc/3.0/>) which permits unrestricted non-
commercial use, distribution, and reproduction in any
medium, provided the original work is properly cited.

Background and Objectives

Using a handpiece equipped with solid dye 532-nm Q-switched (QS) neodymium-doped yttrium aluminum garnet (Nd:YAG) laser energy can be converted to 660-nm laser energy for use in ruby-like versatile YAG (RuVY) laser treatment. The objective of this study is to evaluate the clinical efficacy and safety of RuVY treatment using a QS Nd:YAG laser in treatment of various cutaneous pigmentation disorders in Asian patients.

Materials and Methods

We retrospectively analyzed outcomes in 20 Korean patients who underwent wavelength-converted 660-nm RuVY treatment using a QS Nd:YAG laser for treatment of a variety of pigmentation disorders. RuVY treatment was performed with the settings of 660-nm wavelength, a pulse energy of 2.6-3.0 J/cm², a pulse duration of 5-10 nsec, and a 2-mm spot size.

Results

Among the 20 subjects included in this study, the mean number of RuVY treatments performed was 1.3 ± 0.5 , the mean global aesthetic improvement scale (GAIS) score was 2.1 ± 1.1 , and the patients' mean degree of satisfaction was 2.0 ± 1.0 . Sixteen (80%) patients also received QS low-fluenced 1,064-nm Nd:YAG laser treatment while undergoing RuVY treatment, with or without a long-pulsed 755-nm alexandrite laser. They were treated with a mean of 6.9 ± 2.5 sessions of QS low-fluenced 1,064-nm Nd:YAG laser treatment for a mean GAIS score of 1.9 ± 1.1 . Eight patients were treated with long-pulsed 755-nm alexandrite laser treatment over a mean number of 1.1 ± 0.4 sessions, showing a mean GAIS score of 1.8 ± 1.5 .

Conclusion

Our data suggest that RuVY treatment utilizing wavelength-converted 660-nm laser energy is effective in treatment of various epidermal pigmentation lesions.

Key words

Nd:YAG laser; Q-switched; Ruby laser; 660-nm; Lentiginos; Freckle

Results

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THE EXTENDED PLATFORM

It is not just a QSNY, but “The Extended Platform”

Existing QSNY



- 1 • **One-stop solution for erythema and acne**
: 595 nm 2nd Generation “Gold Toning”



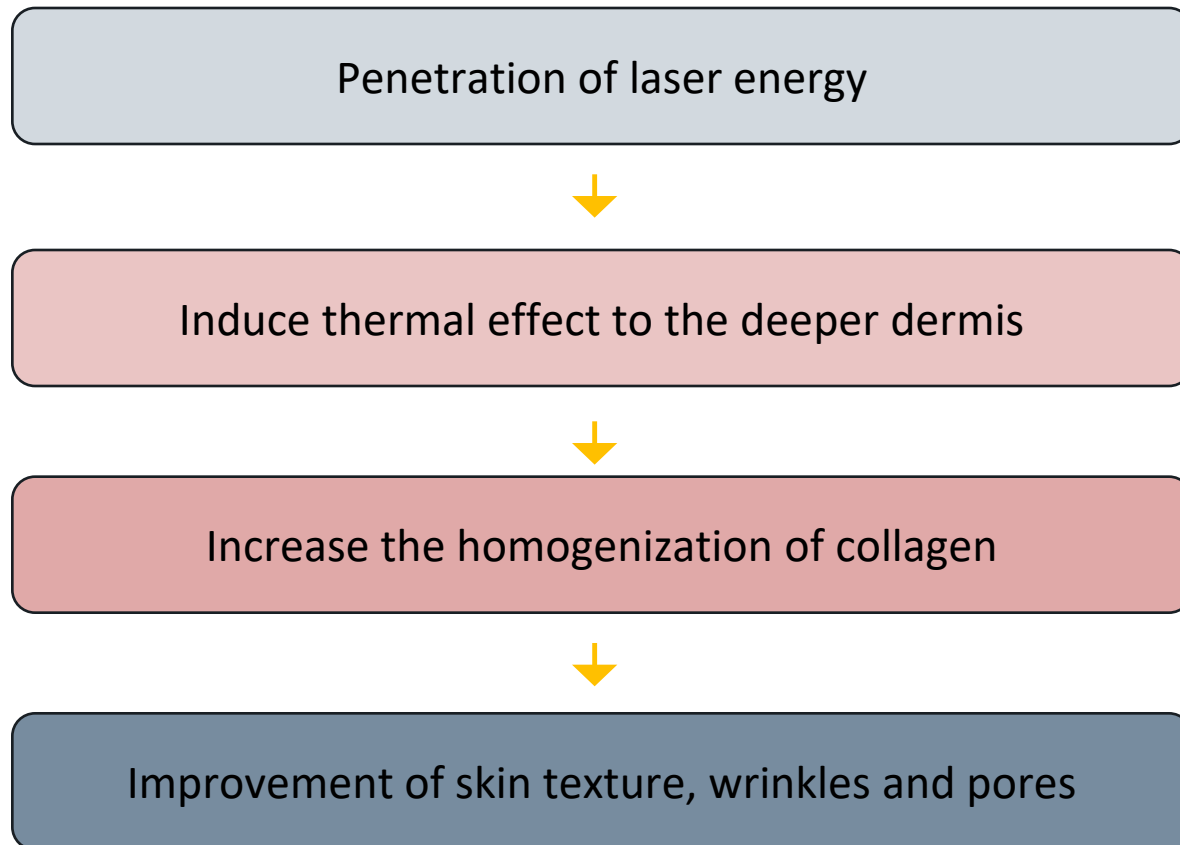
- 2 • **The safest freckle treatment better than 532 nm**
: 660 nm “RuVY Touch”



- 3 • **Beyond the Laser Genesis technique**
: 1064 nm 45 J “Revital Treatment”

BEYOND THE LASER GENESIS TECHNIQUE

1064 nm 45 J “Revital Treatment”



Summary

: High powered quasi-long pulsed 1064 nm is an effective wavelength to promote good collagen remodeling effect.

BEYOND THE LASER GENESIS TECHNIQUE

Suggested Indications

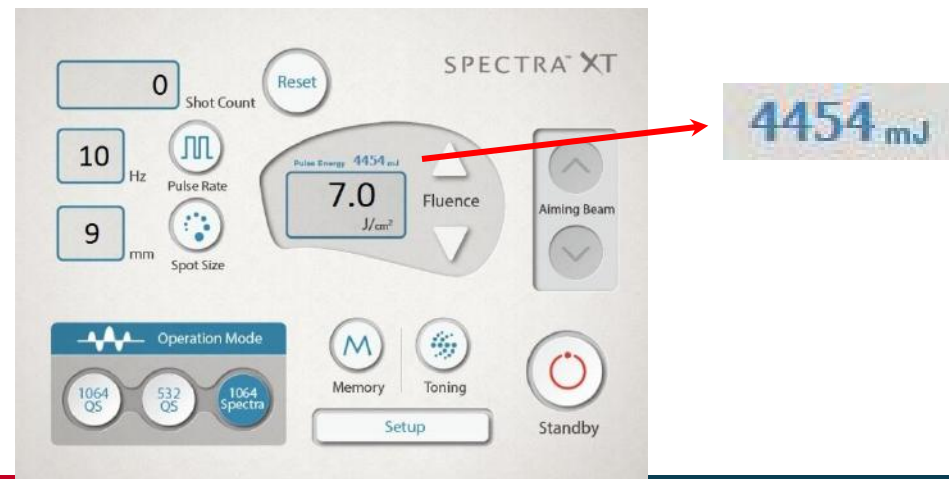
- Skin rejuvenation
- Seborrhea with enlarged facial pores
- Inflammatory acne lesions with seborrhea

BEYOND THE LASER GENESIS TECHNIQUE

“Revital Treatment” vs. “Genesis Technique”

	SPECTRA XT	E***** G*****
Wavelength	1064 nm	
Pulse Duration	0.3 ms (300 μs)	
Max. Fluence	8.8 J/cm² @ 8 mm	7 J/cm ² @ 8 mm
Max. Pulse Energy	4,500 mJ	3,500 mJ
Max. Repetition Rate	10 Hz	10 Hz
Max. Spot Size	10 mm	8 mm

- Higher Fluence & Pulse Energy
: Better thermal effect
- Bigger Spot Size
: Deeper Penetration to deep dermis



STUDY PAPERS

A Pilot Split-face Comparison of Revital Treatment versus Laser Genesis Using Quasi Long-Pulsed 1,064-nm Nd:YAG Lasers in a Patient with Enlarged Facial Pores

Summary

- Study Subject: 39-y/o Korean female with enlarged facial pores and seborrhea
- Study Device: Lutronic SPECTRA XT
- Split-face Study
- Parameters:
 - 1) Left-side of face
 - : 5 sessions w/2 wk interval
 - : 1064 nm, 300 μ s, 16 J/cm², 5 mm, 10 Hz, 1,200 shots (Revital Treatment)
 - 2) Right-side of face
 - : 5 sessions w/2 wk interval
 - : 1064 nm, 300 μ s, 16 J/cm², 5 mm, 9 Hz, 1,200 shots (Laser Genesis)

[Source: Lutronic White Paper](#)

STUDY PAPERS

A Pilot Split-face Comparison of Revital Treatment versus Laser Genesis Using Quasi Long-Pulsed 1,064-nm Nd:YAG Lasers in a Patient with Enlarged Facial Pores

Summary

- Result

One month after final treatment;

 - 1) Keratin plugs in the patient's facial pores were removed.
 - 2) Symptoms of seborrhea had improved on both sides of the face.
 - 3) Enlarged pores were reduced.
 - 4) No remarkable major side effects on either side of the face.
- Conclusion

We suggest that Revital Treatment can be effectively used for the treatment of enlarged pores.

[Source: Lutronic White Paper](#)

BEYOND THE LASER GENESIS TECHNIQUE

3D [ANIMATION](#)



BEYOND THE LASER GENESIS TECHNIQUE

[TREATMENT VIDEO](#)



Click
Here 

SUMMARY

SPECTRA™ XT - "The Extended Platform"

- 3 • Beyond the Laser Genesis technique
: 1064 nm "45 J Revital Treatment"

- 1 • One-stop solution for erythema and acne
: 595 nm "2nd Generation Gold Toning"

- 2 • The safest freckle treatment better than 532 nm
: 660 nm "RuVY Touch"



- Melasma
- Tattoo (including multicolored)
- Pigments

1064 QS
532 QS
585 QS
650 QS

- Melasma (esp. for dry skin and pain control)

Q-PTP

- Acne (esp. for seborrhea)
- Pores
- Skin rejuvenation

1064
SPECTRA
4,500 mJ

- Post-acne Erythema
- Acne (esp. for vascular factor)
- Melasma (esp. for vascular factor)
- Facial Flushing

2nd
Generation
Gold Toning
Handpiece

- Epidermal pigmented lesions
- Alternative to Q-switched Ruby laser

RuVY
Touch
Handpiece

SPECTRA™ XT
The Extended Platform

• Fractional Handpiece is also available.

THANK YOU!

