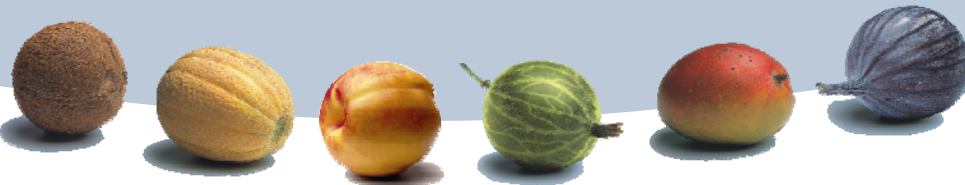


WaveLight
Aesthetic GmbH

Mydon News

Dr. Thomas Knorr

Team Manager Application Development



MYDON

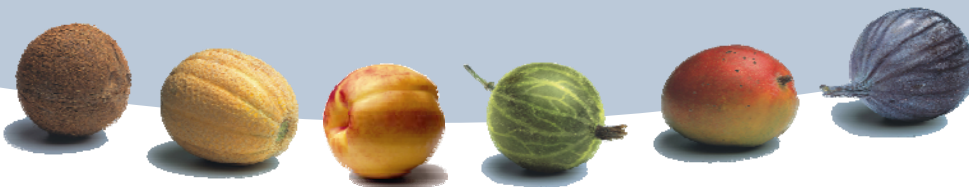
Product Highlights



Three applications combined in one system:

- Hair removal **Faster**
 - Different hair types (I – VI)
- Skin Rejuvenation
 - Skin texture
 - Shrinking of pore-size
 - Skin clarity
- Treatment of vessels
 - Blue and red
 - Superficial and deeper veins **More effective**
 - Endoluminal treatment **New**

→ Leads to maximum utilization



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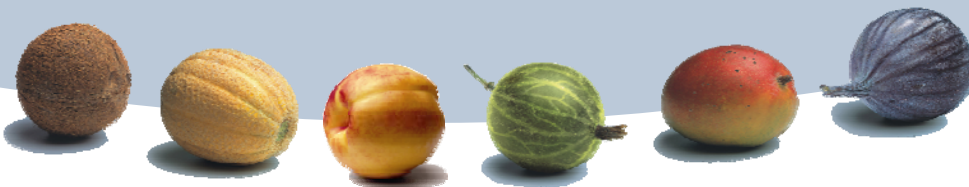
Product Highlights



Effective treatments

Pre-, parallel- and post- cooling

- High fluence without damaging the skin
- Painless treatment
- Increased treatment success
- Parallel cooling is absolutely necessary for larger blue vessels

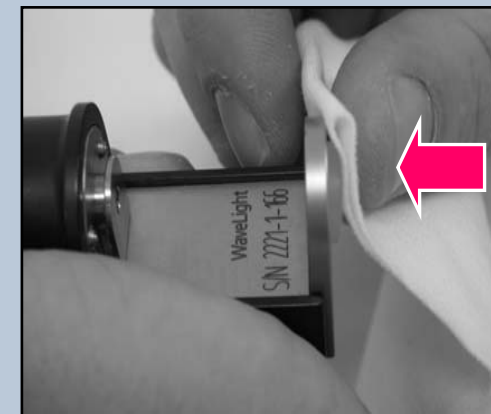
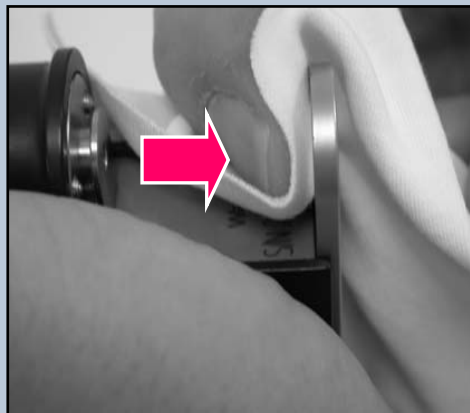


MYDON

Product Highlights

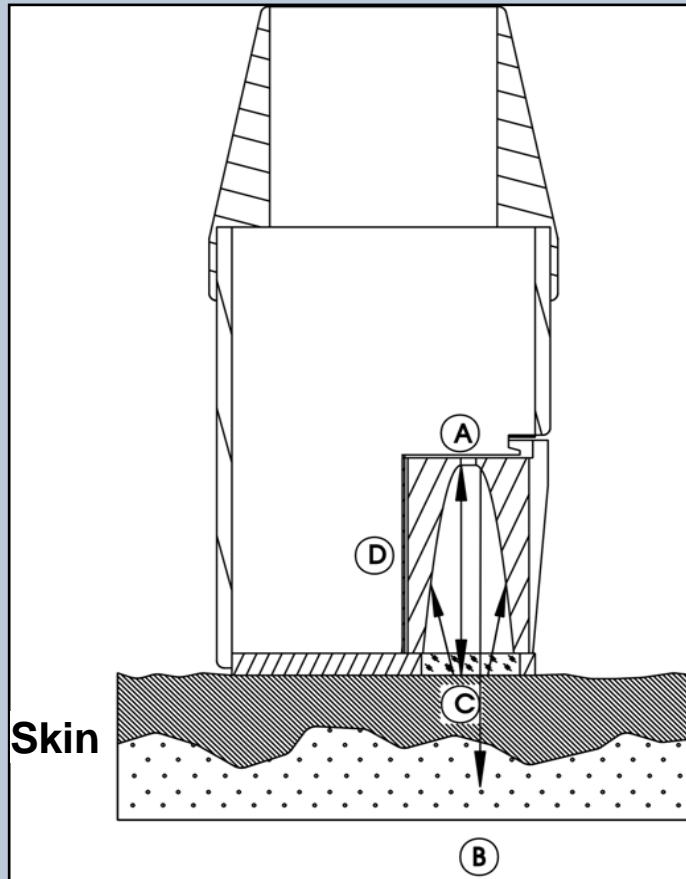
Treatment safety

- The removal of the cooling window avoids the compression of small vessels (small red vessels) → increased treatment success
- The removable cooling window offers a good visibility for the treatment of red vessels → precise operation

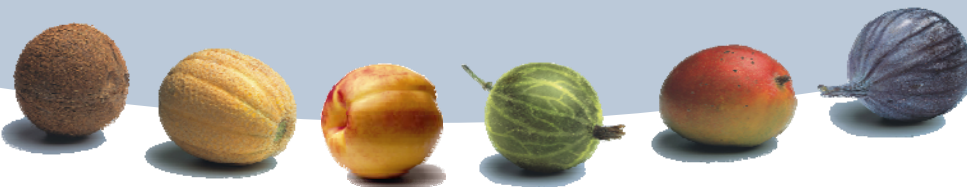


MYDON

Product Highlights



- Photon recycling with the 10 mm epilation adapter
 - 30% higher effectivity
 - higher treatment success
 - Lower fluences necessary
 - Lower risk of side effects



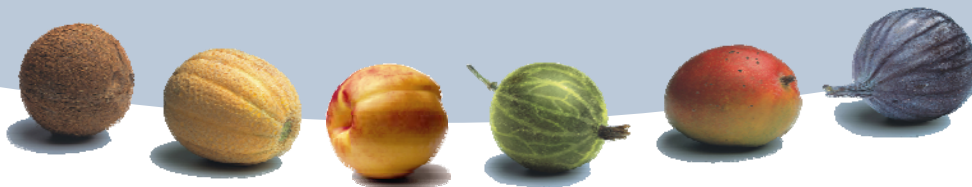
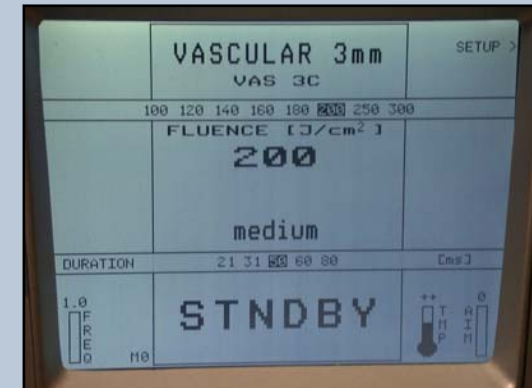
MYDON

Product Highlights

Simple Handling

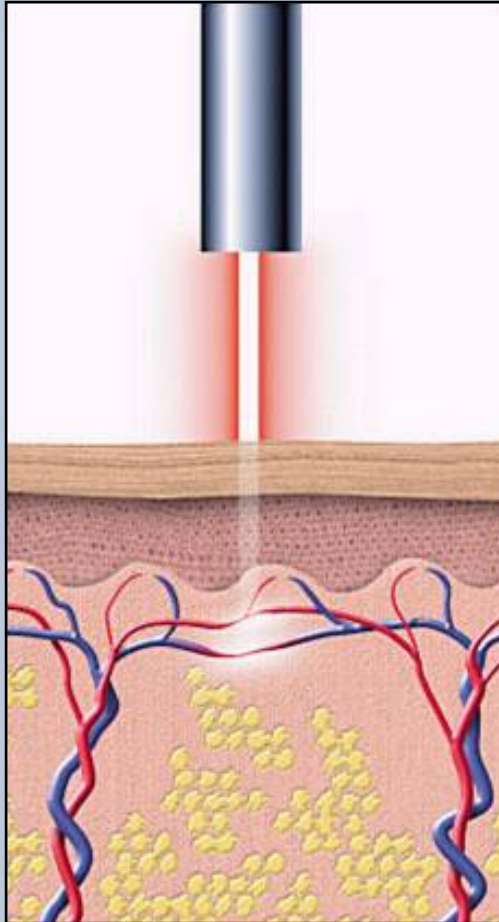


- Convenient mode switching by simple change of the spot size adapters (plug and play)
- Auto recognition of hand piece insert
- Only the suitable parameters are displayed

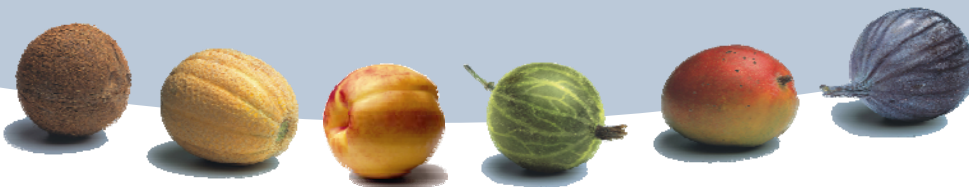


MYDON

Vascular Treatments - Principle



- The laser beam penetrates the epidermis with high energy and is absorbed by the hemoglobin in the blood of the vessels.
- The absorbed radiation is converted into heat. This leads to coagulation and vaporizing of the blood and to heating and damaging of the vessel walls.
- The vessel walls collapse and sclerosing of the vessel walls results. These are then removed by the body over the coming months.



MYDON

Vascular Treatments

200 J/cm² / 30 ms
Spot size: 3 mm



Right ankle outside before treatment



Right ankle outside 8 weeks after treatment

Photographs courtesy of Christa Deuchert, M.D., Bad Kissingen



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Vascular Treatments



Right thigh before treatment



Six months after one treatment



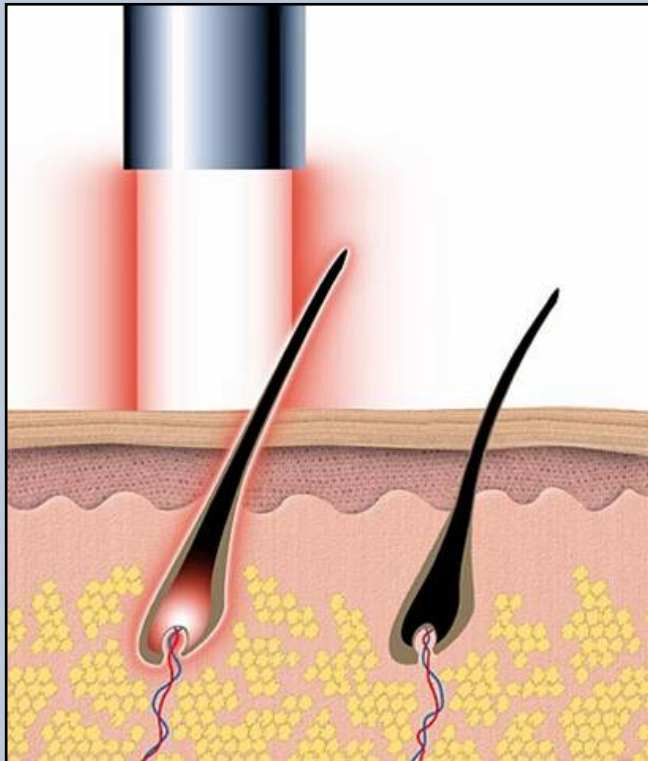
Directly after treatment

Photographs courtesy of Dr. Vic. A. Narurkar and Dr. Akhil Wadhera, California

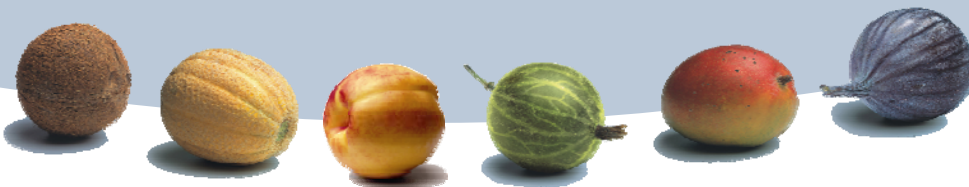


MYDON

Epilation



- Selective photothermolysis: The laser energy is absorbed by the melanin in the hair follicle.
- Optimum pulse length: longer than the thermal relaxation time of the epidermis to prevent side effects, but shorter than the thermal relaxation time of the hair follicle for effective treatment.
- In general, the treatment has to be repeated for several times



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Epilation

45 J/cm² / 50 ms



Right ear before therapy



22 weeks after first treatment
Treated 3 times

Photographs courtesy of Cartier, M.D., France



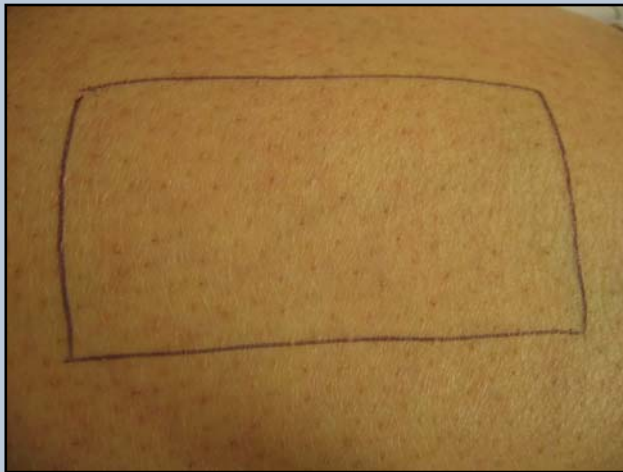
MYDON

Epilation

Skin type: IV – Fluence: 40 J/cm²

Pulse Duration: 40 ms → 50 ms

Spot Size: 10 mm



Axilla before therapy



Directly after first treatment

Photographs courtesy of Dr. Vic. A. Narurkar and Dr. Akhil Wadhera, California



MYDON

Epilation



Axilla before therapy



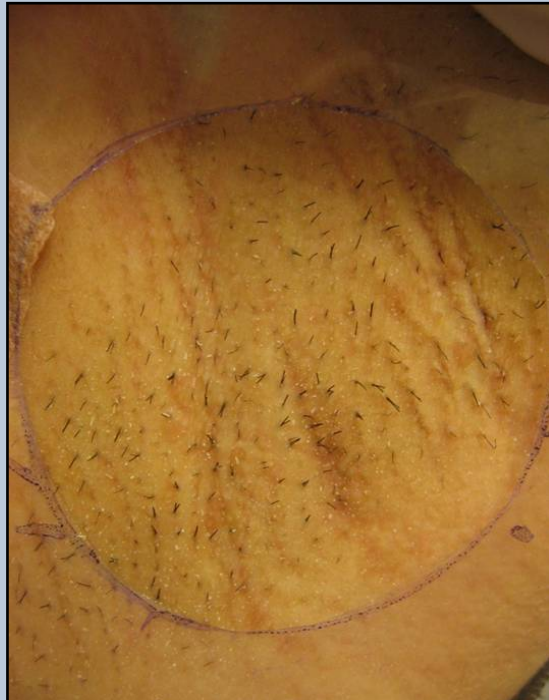
After one treatment

Photographs courtesy of Dr. Vic. A. Narurkar and Dr. Akhil Wadhera, California

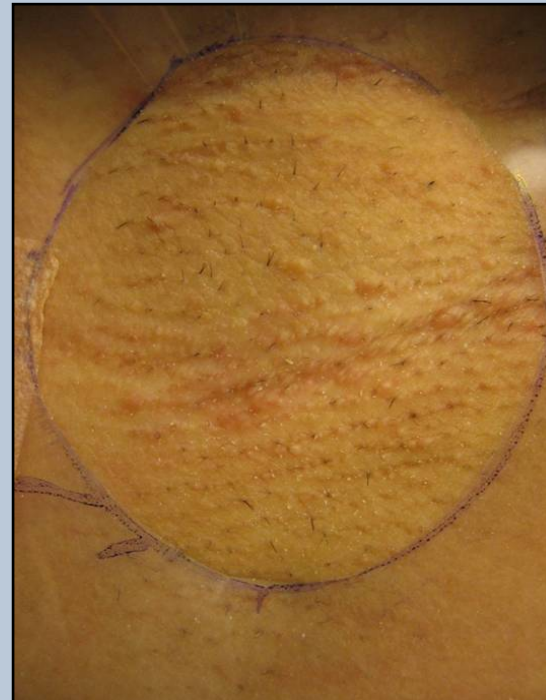


MYDON

Epilation



Axilla before therapy



After one treatment

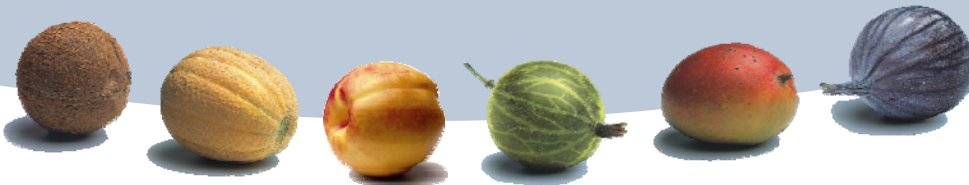
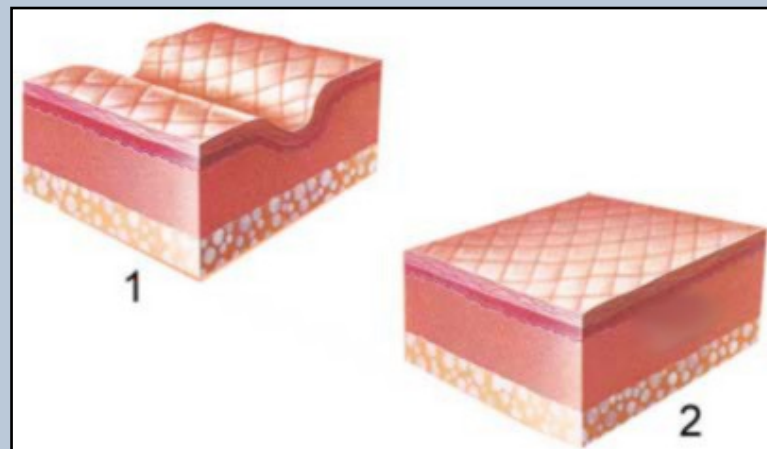
Photographs courtesy of Dr. Vic. A. Narurkar and Dr. Akhil Wadhera, California



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Skin Rejuvenation

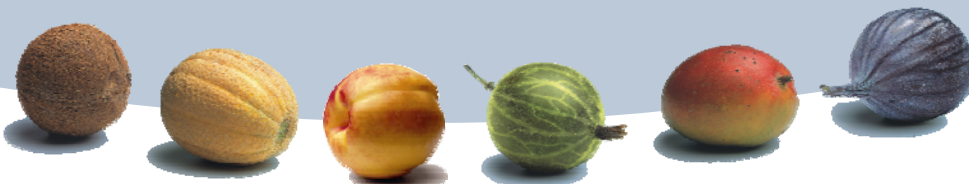
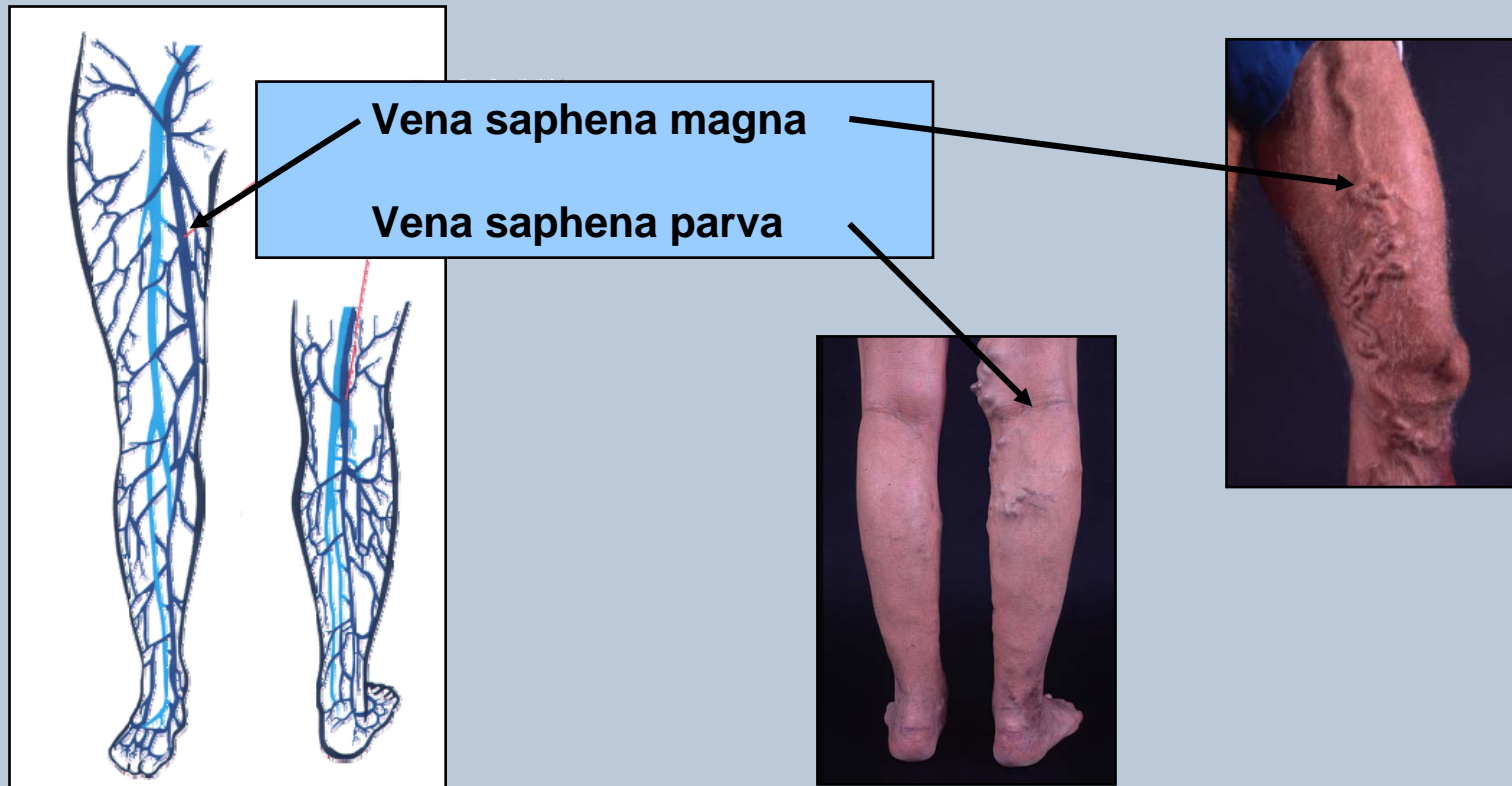
- The loss of elastin and collagen in the skin increases skin laxity
- Using MYDON the laser's heat stimulates fibroblast production and thereby modifies the underlying collagen structures
- The heat is produced by a special parameter combination – for MYDON a small fluence of 10 J/cm^2 , a short pulse length of 0.5 ms and a high frequency up to 10 Hz
- Result: improvement of skin texture, enlarged pores and clarity of the skin



MYDON

Endoluminal Laser therapy (ELT)

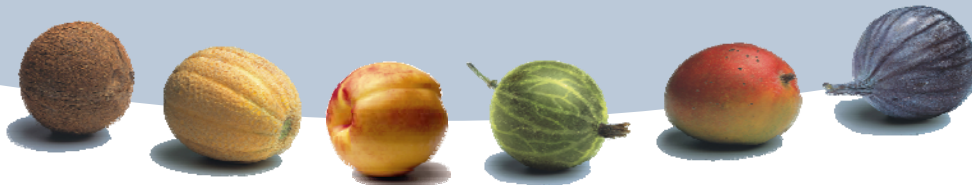
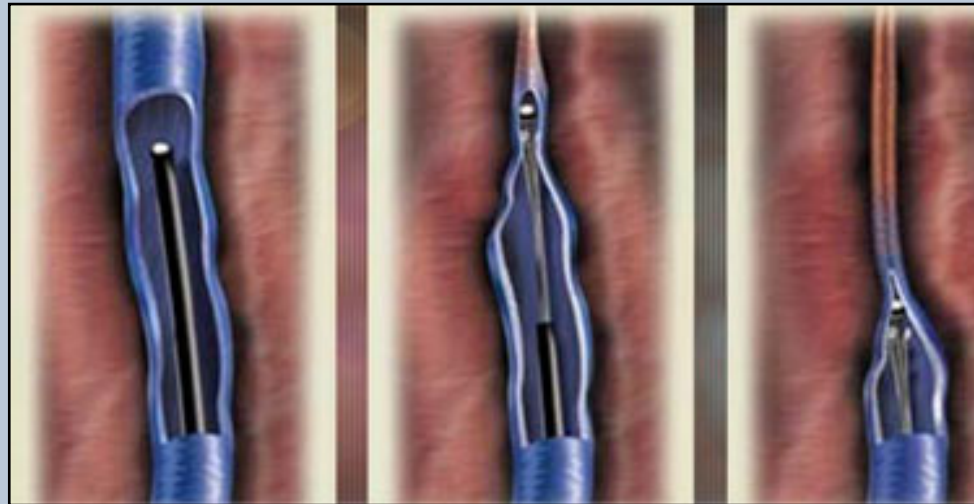
- Sclerotherapy of varicose veins with laser light



MYDON

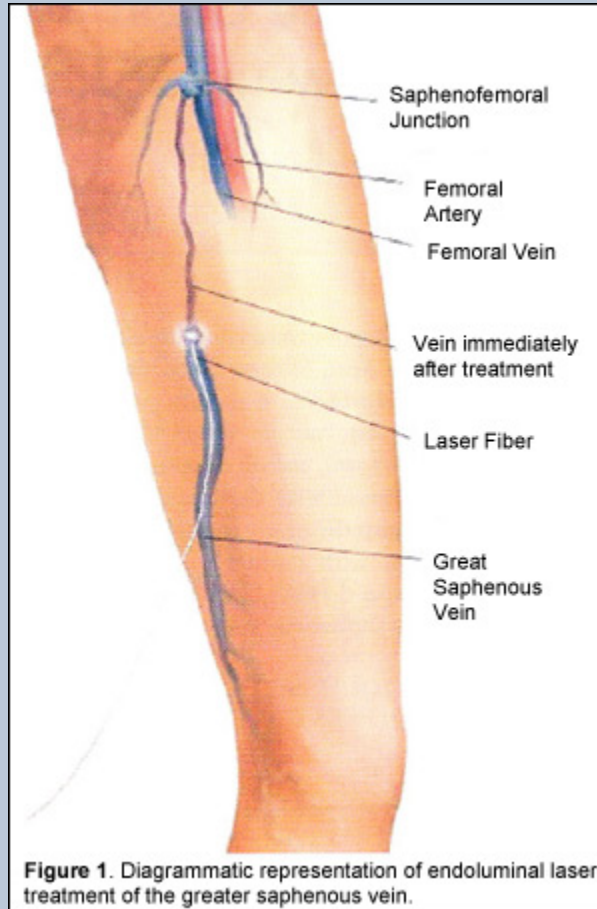
Endoluminal Laser therapy (ELT)

- Energy of the laser is absorbed by the water in the vessels and converted to heat
- Vessel inside temperature is increased to 60 – 70°C
- Coagulation of the blood and destruction of the vessel walls → degradation
- Outside the vessel $T < 41^{\circ}\text{C}$ → no side effects

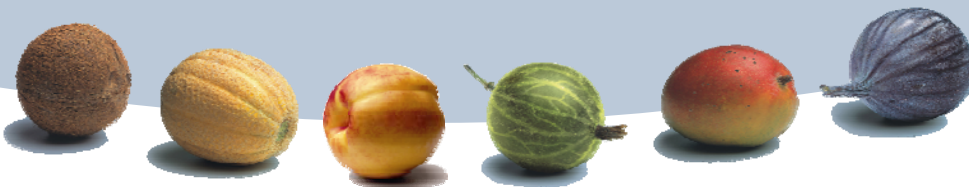


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Endoluminal Laser therapy (ELT) – How to Do



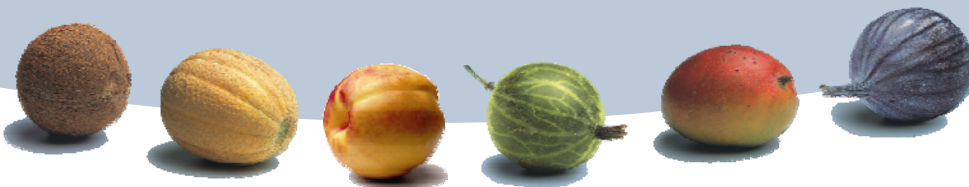
- Surgery under local anaesthesia (tumescent anaesthesia)
- Only puncture of the varicose vein at the distal end!
- Delivery of laser energy directly into the blood vessel lumen to produce endothelial and vein wall damage with subsequent fibrosis.



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Endoluminal Laser therapy (ELT) – clinical studies

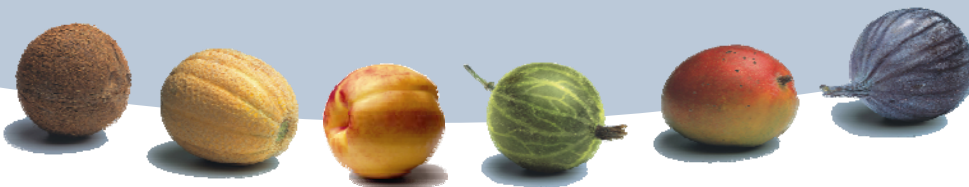
- Literature: more than 129 papers for ELT (Oct. 2007)
 - *Goldman MP.*, Intravascular lasers in the treatment of varicose veins. J Cosmet Dermatol. **2004** Jul;3(3):162-6.
 - **Review:** Comparison of various wavelengths including 810, 940, 980, 1064 and 1320 nm for intravascular destruction of varicose veins.
 - **Result:** the longer the wavelength the better the result with thick veins but also more side effects.



Endoluminal Laser therapy (ELT)

Advantages

- Very gentle surgery
- Prevention of general anaesthesia, suitable for older patients with a higher anaesthetic risk
- Very good clinical and cosmetic outcome, nearly no risk of side effects (scar, relapse)
- Short treatment time and short temporary disability
- Low postoperative troubles
- Reasonable priced surgery, because multiple diseased varices can be treated in one surgery



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Accessories ELT

Catheter (curved, straight)

- 60 cm
- 80 cm

Guide wire (straight)

- 120 cm

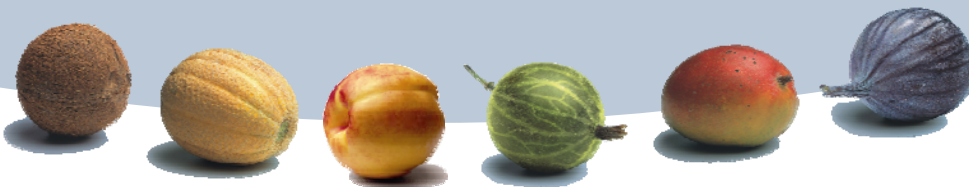
i.v. catheter

- 20 G x 2"
- 20G x 1 1/4"



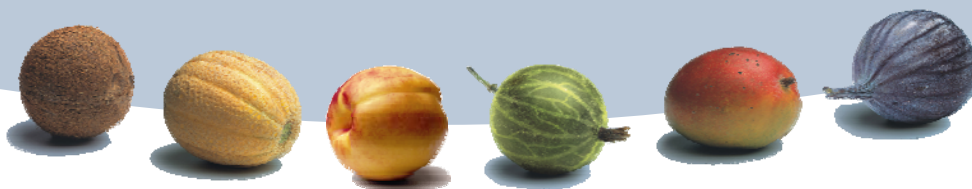
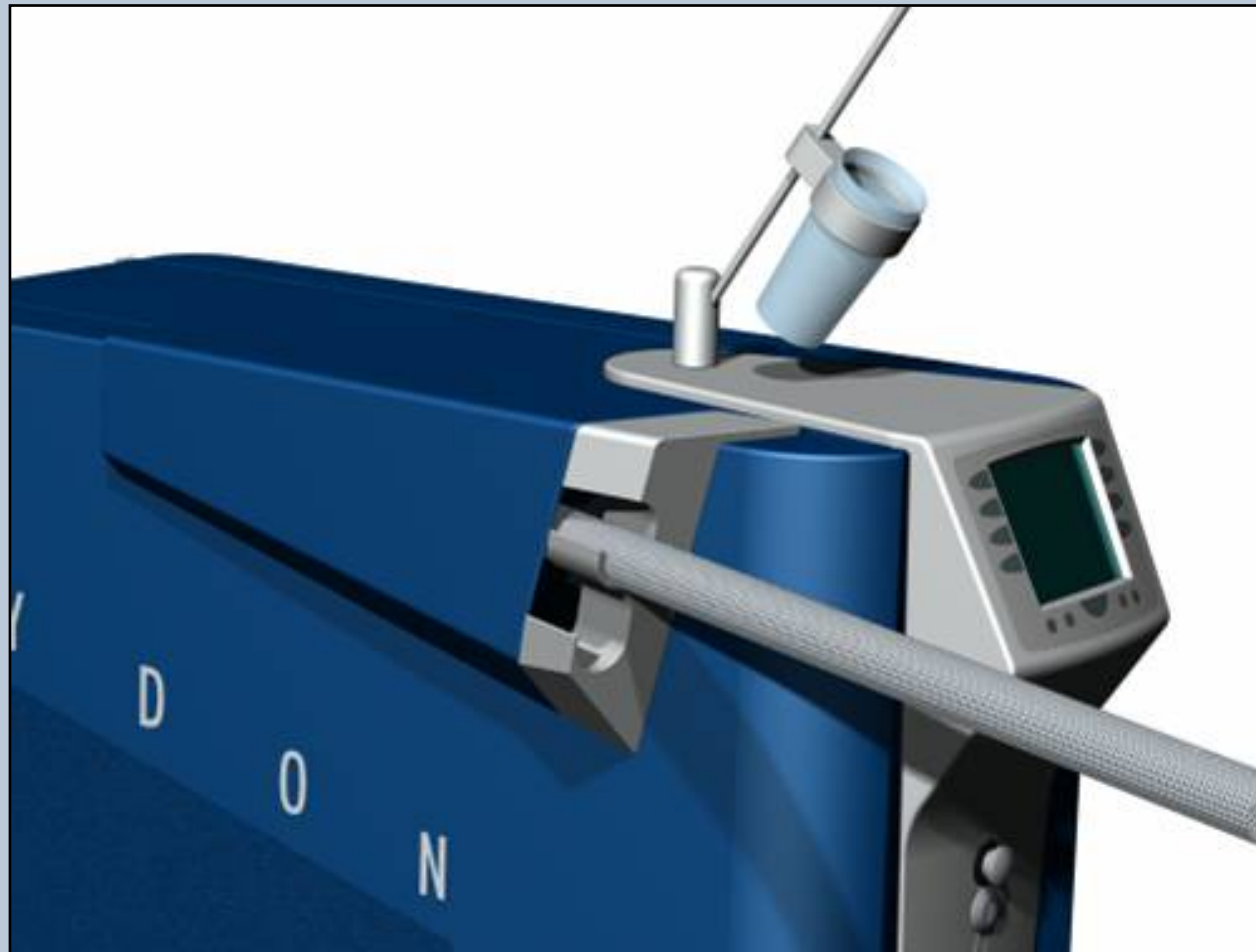
Single use fibre

(640 μ m)



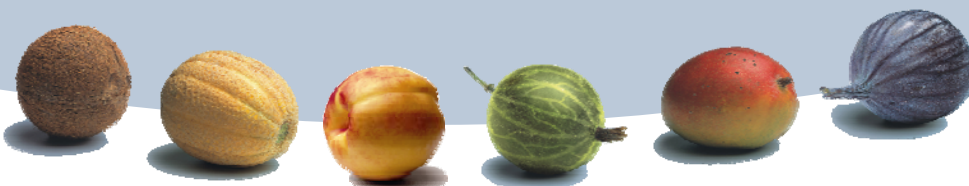
MYDON

Changes - NEW Design



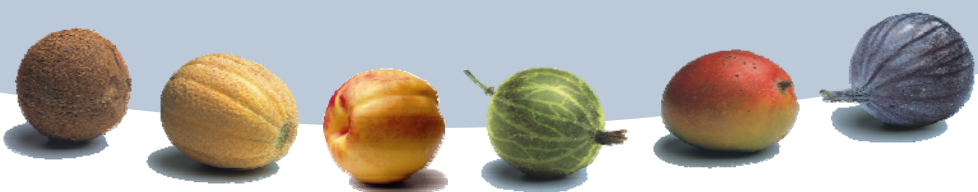
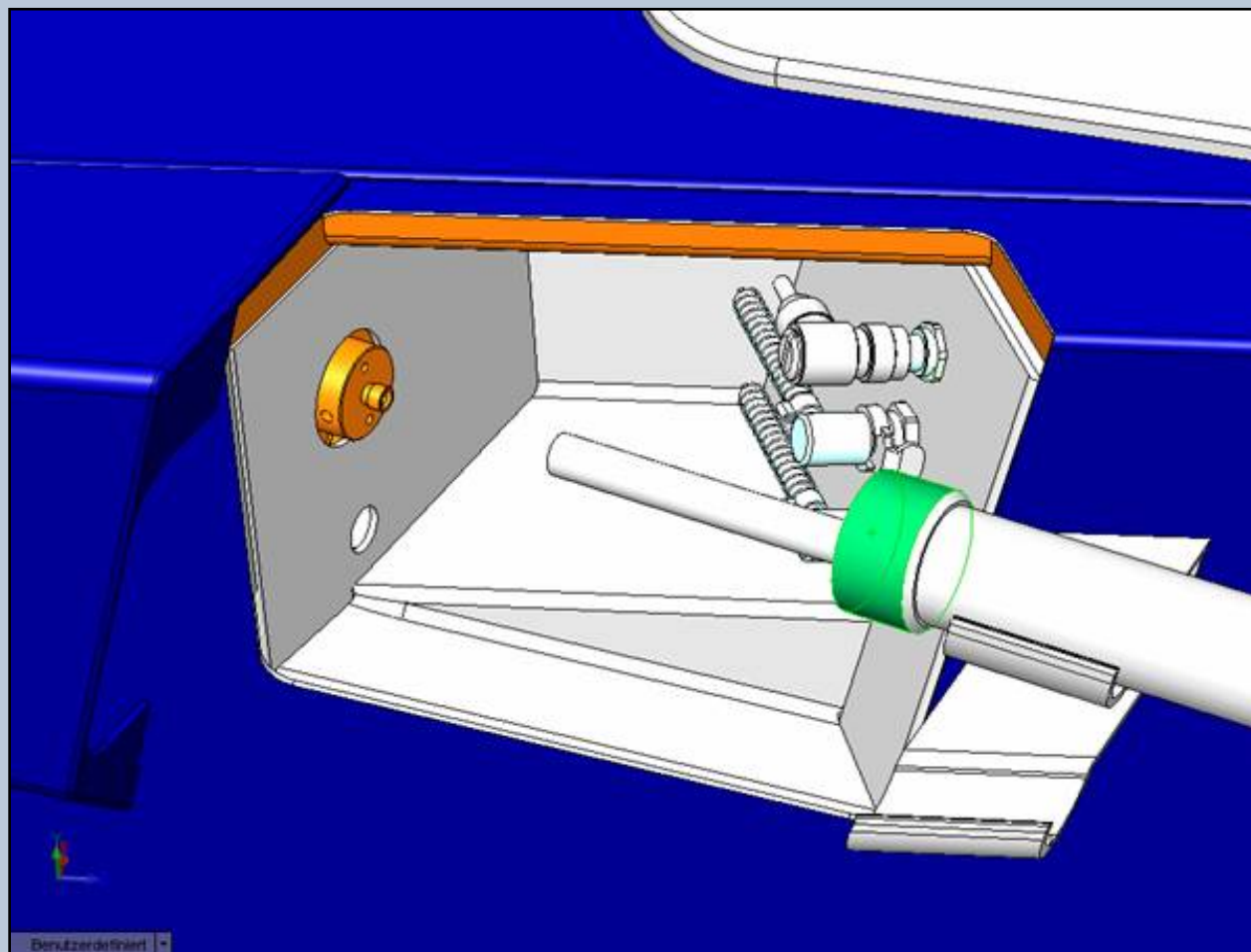
MYDON

Changes - NEW Design



MYDON

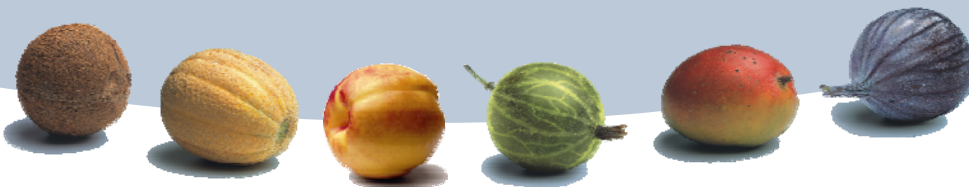
Changes - NEW Design



MYDON

Changes – Improved Hardware

- New flash lamp with longer lifetime in particular for skin rejuvenation
 - 100% for standard bursts
 - 2000% for skin rejuvenation
 - Display of flash lamp wear in counter menu (→ ARION)
 - Flash lamp wear during start-up menu with warning (80% like ARION)
- 20% more power due to new power supply unit
- Improved skin cooling system
 - Larger cooling liquid reservoir → less need for refill
 - Less cooling liquid in the circulation → faster cooling

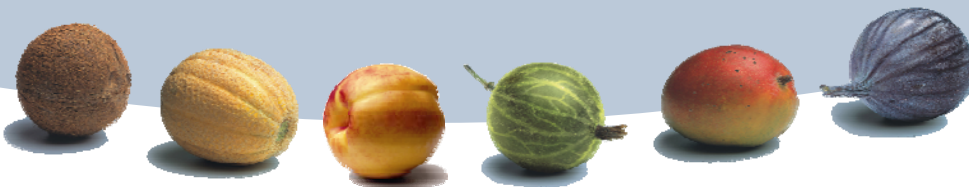


MYDON

Changes – NEW Software

- New pulse formation for endoluminal laser therapy

- Power: 50 W
 - Pulse duration: 300 μ s
 - Frequency: 60 Hz
- } Quasi cw-Mode



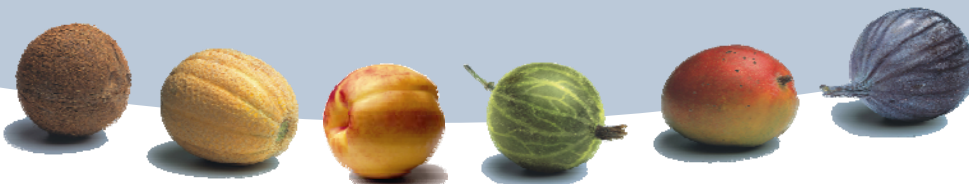
Physician Testimonials

“MYDON is freely adjustable and is more than powerful enough for vascular applications...”

*Dr. Hugues Cartier
Clinique Saint-Jean, Arras, France*

“...and it will be more powerful in speed and application.”

*Dr. Thomas Knorr
Wavelight Aesthetic GmbH, Germany*



Thank you for your attention

Vielen Dank für Ihre Aufmerksamkeit

תודה על הקשבה / תודה על תשומת לב

Tack för er uppmärksamhet

Ευχαριστώ για τη προσοχή σας

Faleminderit për kujdesin tuaj!

Takk fyrir að hlusta

Merci pour votre attention

너의 주의를 위해 너를 감사하십시오

Takk for oppmerksomheten

dziękuję za waszą uwagę!

Спасибо за внимание

hvala lepa za vašu pozornost

Ďakujem za vašu pozornosť

Dank U voor uw aandacht

Ačiči už dèmesi

Tänan tähelepanu eest

obrigado pela sua atenção

გმადლობთ ყურადღებისათვის

शुक्रिया आपके ध्यान के लिए

شكراً على اهتمامكم

Дзякуй за увагу

děkuji (vám) za vašu pozornost

Mulțumesc pentru atenție

Dikkatiniz için teşekkür ederim

Hvála za vašo pozórnost

дякую за вашу повагу

Kiitos huomiostanne

Grazie per la vostra attenzione!

谢谢 (麻烦你了)

ご清聴ありがとうございました

paldies par uzmanību

Tak for opmærksomheden

Köszönöm a figyelmüket!

Благодаря за вниманието

