

Vascular and benign pigmented lesions

- safe and easy treatment by laser

532 nm Solid
State Diode
Pumped Laser

- Telangiectasias
- Leg veins
- Lentigines
- Angiomas
- Spider naevi
- Blue venous lake
- Port wine stains
- Rosacea
- Actinic keratosis

MedArt[®]
470

MedArt A/S is a Danish medical laser company founded in 1979.

The company has pioneered the development of new laser technologies for medical procedures and markets a broad range of cosmetic and surgical laser systems.

MedArt A/S has subsidiaries in Europe and United States and collaborates with partners worldwide.



For further information please contact MedArt A/S or your local distributor

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▲ 1 Tx.

The patient received one treatment which totally cleared the naevi in the treatment area. No side effects were observed.



2 Tx. ►

The patient received two treatments with a scanner distributing 1.5 mm spots over the treatment area. The improvement of the benign pigmented lesion is clearly visible. No side effects were observed.



Conclusion

The patient received one treatment which significantly reduced the size of the lesion. No side effects were reported.



1 Tx.

One treatment with scanner and pre-, parallel and post cooling applied through a sapphire cooling window attached on scanner cleared the lesion. No discomfort was experienced and one treatment was sufficient.

"In my department we have used the MedArt® 470 for treatment of both vascular lesions such as spider nevi, teleangiectasia, small vascular malformations and pigmented lesions such as lentigines and seborroic keratosis. MedArt® 470 is a very compact, selective, and highly effective laser system for vascular lesions. It is a great advantage to use the cooling system together with the laser, which protects the skin and reduces the discomfort for the patient. For larger vascular lesions such as vascular malformations we prefer to use the scanner which can be directly connected to the fibre."

Thomas Ternowitz
professor, head Department of Dermatology
Stavanger University Hospital

- Safe, well documented
- Optional scanner and cooler
- No need for local anaesthesia
- Better aesthetic results

**Medical art
based on
scientific
research**

Vascular and benign pigmented lesions are easily addressed by laser treatment - in a safe and permanent way.

Laser treatment - the best alternative

Almost everyone has some kind of vascular or benign pigmented lesions. For some, however, their lesions are so unsightly and socially disturbing that they require removal. An excellent treatment modality is laser removal as a fast and easy way to deal with superficial skin lesions.

User friendly - easy to use

The user interface of the MedArt® 470 system is simple, easy to use yet highly intelligent. Preprogrammed settings for most frequently used treatment parameters - and easy programming of your own preferred settings.

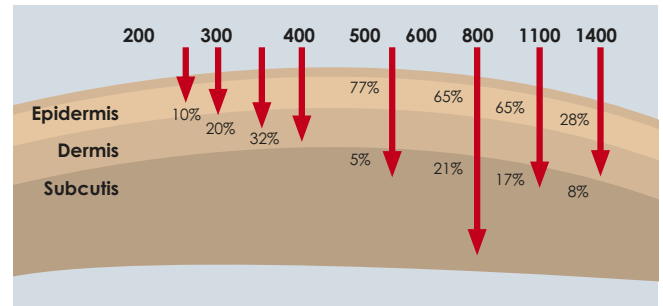
Maintenance free - compact and portable

The MedArt® 470 system is virtually maintenance free - a practical and financial advantage. The MedArt® 470 system only requires a minimum of consumables compared to other light based systems. No adjustments or alignment required. No regular service calls required. Being very compact in design and weighing a mere 12 kg in total the unit is easily transported within the clinic or between different locations.

Using the right wavelength - permanent results

Vascular and benign pigmented lesions are a challenge as the laser light must be strongly absorbed in the lesions as well as be able to reach the correct therapeutic depth. At the same time, surrounding skin and tissue must be left intact.

Wavelength/penetration depth



Percentage of the radiant power remaining in the different layers of the skin.

In terms of vascular and pigmented lesions the laser light must be absorbed in oxyhemoglobin and melanin, the two components that bring colour to the lesions and the targets for laser tissue damage. The 532 nm wavelength of the MedArt® 470 laser is ideally suited for the treatment of superficial benign pigmented and vascular lesions and offers excellent treatment results.

However, the high energy of the MedArt® 470 combined with the ability to work in both pulsed and continuous wave mode makes it possible to treat even thicker lesions such as condylomas and angiomas.

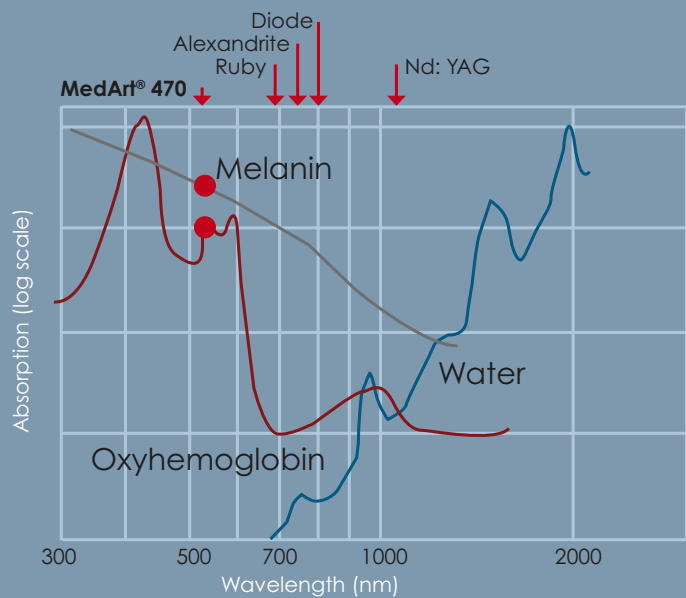


Benefits both clinic and patient

- Gentle yet effective treatment
- Often just one treatment
- Very safe and easy-to-do
- Fast lunch-break procedure
- No purpura
- Non-invasive
- No need for local anaesthesia



- Telangiectasias
- Lentigines
- Angiomas
- Condylomas
- Spider naevi
- Blue venous lake
- Port wine stains
- Rosacea
- Actinic keratosis

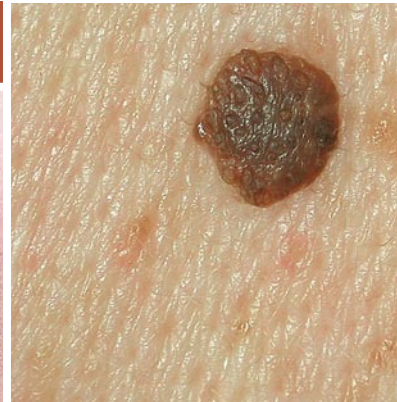


▲ Absorption

High degree of wavelength absorption in melanin and oxyhemoglobin.

► Scanning and cooling

Fast and uniform treatment results - tissue protection and comfort



1 Tx. ▲

The patient received one treatment of the verruca which cleared totally. No side effects were observed.

MedArt®

Vascular and benign pigmented lesions - both large and small

The MedArt® 470 is a highly versatile tool for treating lesions – large and small. The specially designed accessories address a wide range of conditions from the very fine telangiectasia to large pigmented lesions and the removal of unsightly lesions such as verruca and fibroma.

Scanner

The ergonomic MedArt® 414 scanner is an unsurpassed treatment tool when it comes to treating large areas of pigmented lesions or telangiectatic matting. In just a few seconds up to 1 cm² is treated with an even dose of laser energy. Fine tuning of treatment settings and scan area size is done directly on the scanner at the patient allowing quick response to treatment reactions. This secures a fast and very efficient treatment of the lesion.

Cooling

Cooling is essential to improve patient comfort at the same time as it allows you to increase treatment energy for faster treatment.

Contact cooling of the tissue is applied either through a cooling window which is attached to the scanner or through a free hand cooling plate. Both options allow the doctor to cool parallel to the actual treatment while keeping full visibility of the treatment area all the time.

More treatments with MedArt® 470

Skin rejuvenation

Skin rejuvenation is a non-invasive procedure that gives gradual improvement of skin texture, discolouration and evens out fine lines. The treatment is fast and requires no downtime. The treatment must be repeated at certain intervals to secure constant improvement of skin looks.

Soft-tissue surgery

With the high output power of the MedArt® 470 and its ability to work not only in pulsed mode but also in continuous wave mode, cutting and coagulation can be made with the MedArt® 470. Warts, condylomas, fibromas, etc. are easily removed - and local anaesthesia is easily replaced by cooling.

And more...

Please contact your local dealer or MedArt A/S for more information about the optimal laser solution.

MedArt® 414 ergonomic scanner

For fast and even treatments over large areas - use a scanner!
In a few seconds you cover up to 1 cm² making it the fastest treatment tool for a 532 nm laser.



MedArt® 470 diode laser

5 Watt solid state diode pumped laser with up to 16 pre-stored settings.



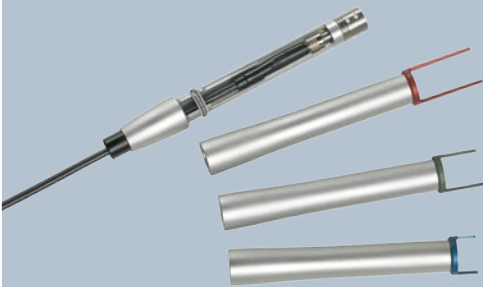
MedArt® cooling plate

Free hand cooling plate for skin protection and patient comfort.



Handpieces

Attach each of the 3 handpieces to your fibre - and you switch from one type of treatment to another.



Accessories - handpieces and spotsizes

Fibre size/handpiece	Blue	Green	Red
MedArt® 470 300 micron fibre	0.4 mm spot size	0.9 mm spot size	1.4 mm spot size
MedArt® 470 600 micron fibre	0.8 mm spot size	1.8 mm spot size	2.8 mm spot size

Diode-pumped laser

MedArt® 470

Type No:	MedArt® 470
Laser type:	Continuous wave diode-pumped solid state laser · Laser Class 4 (IEC 825)
Max output power:	5 W
Wavelength:	532 nm
Target indicator:	Red indicator light through fibre (635 nm)
Fibre connection:	MedArt® Quick Safe Connect
Fibre diameter:	200/400 µm or larger
Pulsed emission:	
- frequency range:	Min. 0.3 Hz/Max 100 Hz
- pulse width:	10 - 1000 millisecc.
Power supply:	Mains connection (100-120V or 200-240V, 50/60 Hz)
Size:	51.5 x 30.0 x 15.0 cm
Weight:	Approx. 12 kg
Safety class:	I type BF

Specifications are subject to change without notice.

Ergonomic scanner

MedArt® 414

Type No:	MedArt® 414
Scan Pattern:	Large square / rectangle / small square
Fluence trim settings:	-15%, -10%, -5%, 0%, 5%, 10%, 15%
Scan dwell times:	Determined by laser system
Indicator of settings:	9 green LED indicators
Treatment distance:	27 mm from output lens
Size:	13 x 11 x 3.2 cm
Weight:	Approx. 280 g, excl. cable and fibre system
Safety class:	I type BF

Specifications are subject to change without notice.

Compact cooling unit

MedArt® 520

Type No:	MedArt® 520
Temperature range:	5-20° C / 41-68°F
Operating conditions:	Ambient temperature < 28°C / 83°F
Cooling liquid:	Volume 250 ml, 70% water (purified), 30% alcohol.
Power supply:	Mains connection (100-120V or 200-240V, 50/60 Hz)
Size:	51.5 x 30.0 x 10.0 cm
Weight:	Approx. 10 kg
Safety class:	I type BF

Specifications are subject to change without notice.



PATENT PENDING