



**THE ASCLEPION EFFECT**

# MedioStar XT

the second generation of high power diode laser

**Hair removal and more**

Eckhart Wagner



# MedioStar XT vascular

Launch of the vascular mode at the 20th World Congress of Dermatology in Paris, July 2002

- Contact Treatment of Leg Veins (diameter 0,5 to 2 mm)
- FDA – approved
- Wavelength: 810nm
- Pulse Duration: up to 500 ms adjustable
- Treatment Speed: up to 2Hz
- Spot Size: 4mm and 6 mm
- Fluence: up to 170 J/cm<sup>2</sup> adjustable

the MedioStar is upgradable for vascular treatments



# MedioStar XT vascular

objective: removal of blue – coloured reticular leg veins

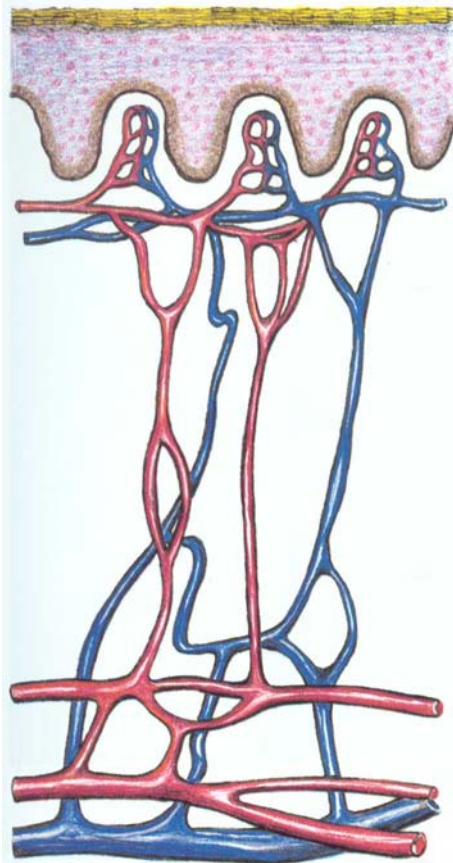
clinical trial results (2 treatments, 8 weeks after last treatment):

- 53% of the patient showed significant regression and
- 6 % showed total resolvment of the vascular lesion
- treatment without anaesthetics
- immediate success
- low recurrence rate
- non - invasive

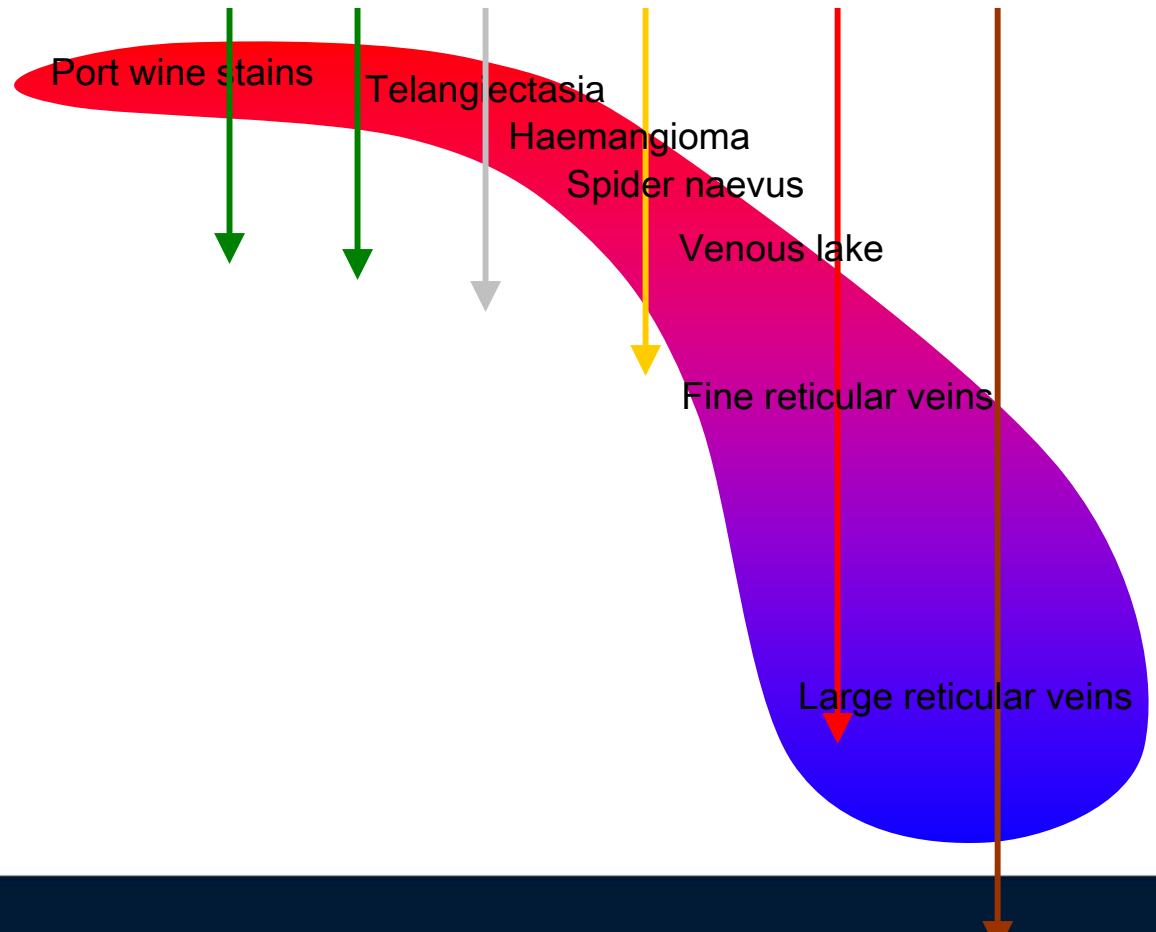


# THE ASCLEPION EFFECT

## MedioStar XT vascular principle



PDL • Argon • KTP • Dye/CuBr • Diode • Nd:YAG  
nm 510 514 532 577/585 850 1064





# MedioStar XT vascular principle

In consideration of the types of vascular treatments possible with lasers the Diode Laser is effective in the middle of the range

- Medium size reticular veins
- Skin with low levels of pigmentation

Our experience has shown that by the use of “Non-Contact” application the effective treatment range can be increased to include:

Fine reticular veins

- Haemangioma
- Spider naevus
- Venous lake
- Lymphangioma
- Granuloma pyogenicum



# THE ASCLEPION EFFECT

## MedioStar XT vascular



before treatment



immediate after treatment



## THE ASCLEPION EFFECT

### MedioStar XT vascular



leg veins 3 months after 1 treatment, 6mm, 80-100 J/cm<sup>2</sup>, vascular mode

Source: Dr. Paul Wood, Proderma, Bad Homburg



## THE ASCLEPION EFFECT

### MedioStar XT vascular

blue reticular veins 3 months after  
1 treatment 6mm, 80-120 J/cm<sup>2</sup>,  
vascular mode, 75 – 100ms



erythema and edema are normal and  
transient reactions  
immediately after a MedioStar treatment

Source: Dr. Paul Wood, Proderma,  
Bad Homburg





## THE ASCLEPION EFFECT

### MedioStar XT vascular



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And transient reactions immediately  
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Source: Dr. Paul Wood, Proderma, Bad Homburg



## THE ASCLEPION EFFECT

### MedioStar XT vascular



telangiectasia after 6 weeks, 90J/cm<sup>2</sup>, 60ms, 6mm non - contact

Source: Dr. Paul Wood, Proderma, Bad Homburg



# THE ASCLEPION EFFECT

## MedioStar XT vascular



spider neavus, 90J/cm2, 60ms, 6mm non - contact

Source: Dr. Paul Wood, Proderma, Bad Homburg





## THE ASCLEPION EFFECT

### MedioStar XT vascular



multiple eruptive angioma after 4 weeks, 6mm, non –contact, 90 J/cm<sup>2</sup>

Source: Dr. Paul Wood, Proderma, Bad Homburg



THE ASCLEPION EFFECT

## MedioStar XT vascular



venous lake after 3 months, 6mm, non – contact, 80 J/cm<sup>2</sup>, 75 ms, 3 shots

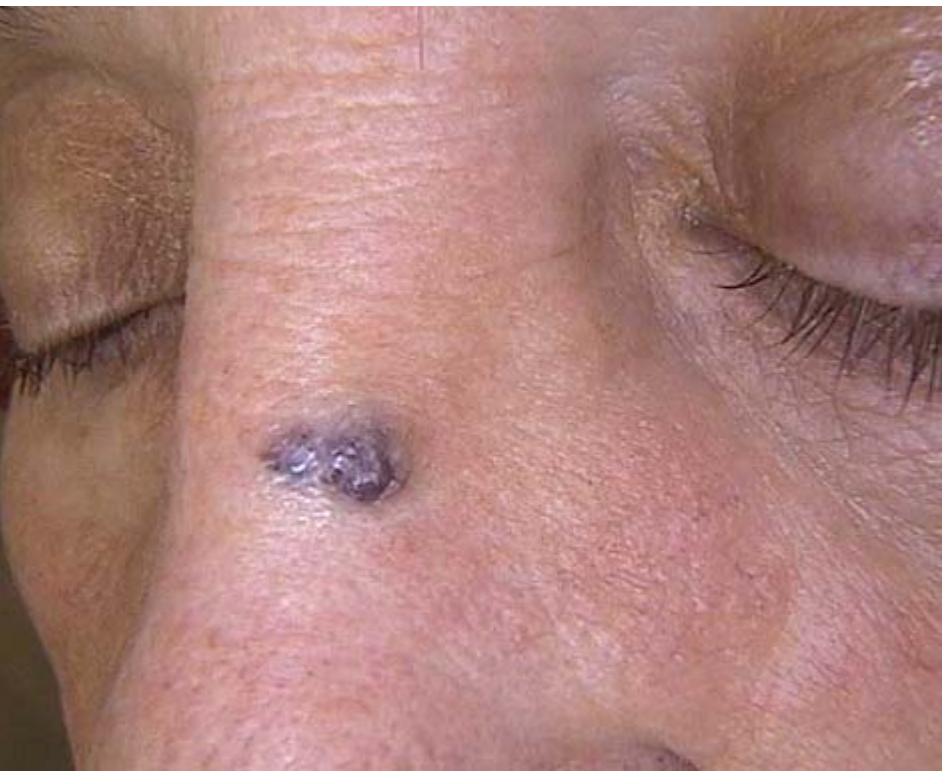
Source: Dr. Paul Wood, Proderma, Bad Homburg





# THE ASCLEPION EFFECT

## MedioStar XT vascular



venous lake after 3 weeks, 6mm, non – contact, 80 J/cm<sup>2</sup>, 90 ms,

Source: Dr. Paul Wood, Proderma, Bad Homburg





THE ASCLEPION EFFECT

# MedioStar XT vascular



angioma after 3 treatments, 6mm, non – contact, 90 J/cm<sup>2</sup>, 75 ms

Source: Dr. Paul Wood, Proderma, Bad Homburg





## THE ASCLEPION EFFECT

### MedioStar XT vascular



hemangioma (tubercle) after 6 weeks and 3 months, 90 J/cm<sup>2</sup>, 75 ms, 6mm, non – contact

Source: Dr. Paul Wood, Proderma, Bad Homburg





## THE ASCLEPION EFFECT

### MedioStar XT vascular



lymphangioma after 2months, 6mm,  
non – contact, 90 J/cm<sup>2</sup>

Source: Dr. Paul Wood, Proderma, Bad Homburg





THE ASCLEPION EFFECT

# MedioStar XT pigments



clinical evaluation on sun damaged skin pending  
Laser Skin and Vein Clinic, Adelaide,  
South Australia by courtesy of Dr. Sue McCoy





# MedioStar pigments

methods and materials:

- 12 female patients 44 – 74 years
- lentiginos on hands / forearms and one suitable for biopsy
- 25 to 50 J/cm<sup>2</sup>, 2 biopsies at each fluence
- 12 & 6mm spot, non-contact treatment





## THE ASCLEPION EFFECT

### MedioStar pigments



lentiginos before

2 weeks after

6 weeks after treatment

6 mm, 30 J/cm<sup>2</sup>, 17 ms

Laser Skin and Vein Clinic, Adelaide, South Australia by courtesy of Dr. Sue McCoy



## THE ASCLEPION EFFECT

# MedioStar pigments



lentiginous / seborrheic keratoses before and 6 weeks after treatment

6mm spot, 35 J/cm<sup>2</sup>, 20ms

Laser Skin and Vein Clinic, Adelaide, South Australia

by courtesy of Dr. Sue McCoy



THE ASCLEPION EFFECT

## MedioStar pigments



lentiginous before and 6 weeks after treatment

6 mm spot, 30 J/cm<sup>2</sup>, 20 ms

Laser Skin and Vein Clinic, Adelaide, South Australia

by courtesy of Dr. Sue McCoy



## THE ASCLEPION EFFECT

# MedioStar pigments



medium coloured lentigo before and 5 weeks after treatment  
lower lesion biopsied, 6 mm spot, 40 J/cm<sup>2</sup>, 20 ms

Laser Skin and Vein Clinic, Adelaide, South Australia  
by courtesy of Dr. Sue McCoy