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Dornier *Aries*

*Shock Wave System for the Treatment of Erectile Dysfunction and
Induratio Penis Plastica*



Dornier *MedTech*

Extracorporeal Shock Wave Therapy (ESWT)

Extracorporeal shock wave therapy (ESWT) is a non-invasive, ambulant treatment method. Shock waves are generated outside the body and applied to the area of discomfort. The treatment activates the body's own repair mechanisms to trigger natural healing.

In general, low-energy shock wave therapy does not require any special medical provisions. Application of shock waves with the Dornier Smart Focus technology is pain free and is generally tolerated very well by patients without the use of local anaesthetics.

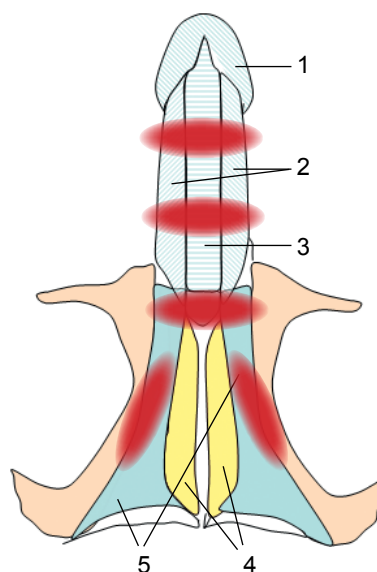
Advantages of ESWT

- Non-invasive treatment method
- Outpatient treatment
- No restriction of medication
- Pain free

Erectile Dysfunction (ED)

Erectile dysfunction is a male sexual disorder consisting in the inability to develop or maintain an erection. If this problem persists for more than six months, medical treatment is indicated.

The disorder of erectile dysfunction is increasingly frequent with rising age. The prevalence of ED in men over 60 years of age is approximately 30%.



Schematic image of areas of treatment

- | | |
|---------------------|---------------------------|
| 1 Glans penis | 4 Bulbospongiosus muscle |
| 2 Corpus cavernosum | 5 Ischiocavernosus muscle |
| 3 Corpus spongiosum | |

Causes of ED

In about 70% of affected men, the cause of ED is a physical one. A large proportion of physically induced ED is caused by disturbed blood flow. Circulatory disorders can be favoured by factors like

- Diabetes mellitus
- Hypertension
- Hypercholesterolemia
- Arteriosclerosis
- Smoking
- Obesity

Effect of ESWT on ED

The following effects could be identified in the course of clinical evaluations:

- Improved blood flow in the corpus cavernosum
- Stimulation of growth factors supports angiogenesis

Electromagnetic Shock Wave Emitter (EMSE)

Dornier MedTech is the only manufacturer world-wide offering a flat EMSE design, a technology proven for decades, in its smallest configuration. Advantages of EMSE technology are:

- High power range
- Constant, reproducible shock waves
- Long life time of the EMSE
- High penetration depth through innovative Smart Focus technology



Ergonomic Applicator

The applicator has an approximate weight of only 500 g and can be held with different hand positions, allowing convenient handling without fatigue. The integrated control buttons of the applicator permit ergonomic single hand operation when adjusting the energy level or shock wave frequency.

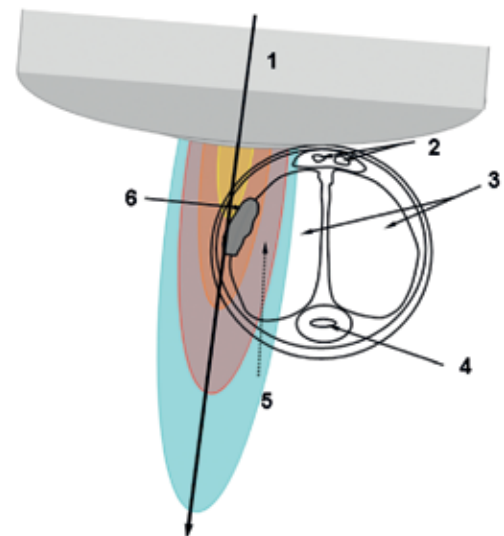
Induratio Penis Plastica (IPP)

Induratio penis plastica is a disease of the penis characterised by indurations (“plaque”) causing severe pain during erection and/or a non-natural curvature of the penis. Approximately 30% of IPP patients also develop an erectile dysfunction.

Causes of IPP

IPP may be caused by:

- Genetic disposition
- Strong strain of or injury to the tunica albuginea, e.g. by trauma
- Fibro-plastic disposition



1 Shock wave path
2 Blood vessels
3 Corpus cavernosum

4 Urethra
5 Shock wave area
6 Plaque

Effect of ESWT on IPP

The following effects can be observed:

- Relief of erectile pain
- Stabilisation of plaque size
- Stabilisation or improvement of the penile curvature
- Improved blood flow
- Improved quality of life



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