



Well
established
use

Vacuum therapy for ED

ACTIVE *Erection System*^{NT}®

MANUAL *Erection System*®



MEDintim
personal healthcare

Proven help for erectile dysfunction (ED)

For many men, vacuum therapy is the indicated solution for ED following diabetes mellitus, hypertension, and prostatectomy.

Target group: Males with ED

with diabetes

- Type 1 diabetics
- Type 2 diabetics

with hypertension

- Hypertensive patients (with side effects arising from medication treatment)
- Obese patients as well as
- Patients with metabolic syndrome

following invasive treatment

- Radical prostatectomy,
- Cystectomy,
- In the event of external radiotherapy or
- Antiandrogen therapy

Vacuum therapy is the best therapy option for all of these men as well as the approximate 30% of ED patients who do not respond to treatment with PDE-5 inhibitors.

Furthermore, this type of therapy is practical and non-invasive:

- Simple to use,
- Effective,
- High compliance,
- Inexpensive.

Erectile dysfunction: Which patients benefit from vacuum erection aids?



Satisfactory sexual intercourse by using the vacuum pump

In vacuum pump therapy the erection is made possible by a vacuum mechanism. As soon as the full erection is achieved, a ring is placed at the base of the penis. This constrictive ring prevents venous outflow from the Corpora cavernosa and thus the erection is maintained. There are very few contraindications for vacuum pump therapy.

Diabetes and Impotence

Prof. Dr. Frank Sommer of the Institute for Men's Health at the University Medical Centre Hamburg-Eppendorf underlined the great importance of the vacuum erection aid. With the assistance of a vacuum pump, 76 % of users can achieve sexual intercourse, which is satisfactory in 85 % of the users. **"Mechanical aids such as the vacuum pump are an option for first-line therapy especially in advanced diabetes mellitus"**, said the expert in men's health. Studies show that under this therapy more than 70 % of all diabetics have satisfactory erections. Diabetics have about a three times greater risk of developing ED, and one in two diabetics are also affected by ED within ten years of diagnosis.

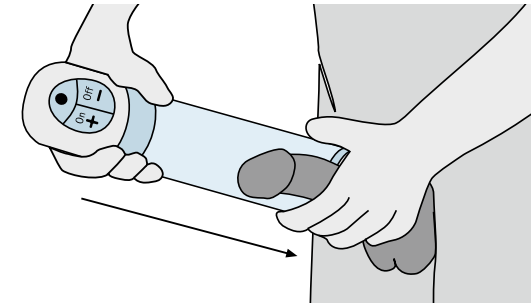


Fig. 1: As a result of the vacuum created around the penis, the erectile tissue fills with blood in a purely mechanical manner, leading to erection of the penis.

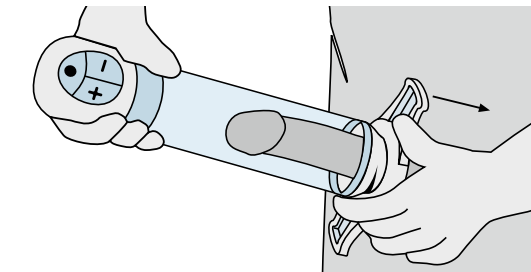


Fig. 2: Prior to removing the cylinder, the venous flow of blood out of the corpus cavernosum is prevented with the aid of a constriction ring that is slid over the shaft of the penis.

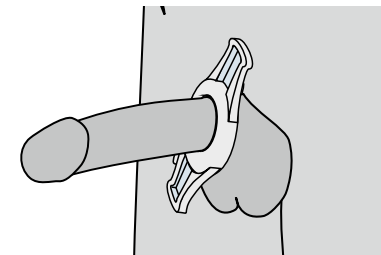


Fig. 3: A normal, satisfying sexual life is possible with an erection maintained in this manner – even in old age, in the event of disease or in the case of a physical disability.



High blood pressure and Impotence

Besides diabetics, patients with high blood pressure are also often affected by ED. Experts estimate that around 50 % of all patients with high blood pressure have an impaired ability to achieve an erection. This patient clientele benefits in a long-term from treatment with a vacuum pump. This is because in patients with high blood pressure the rate of comorbidities is high, and thus the number of drugs taken at the same time is also high. For this reason therapy with a PDE-5 inhibitor is often contraindicated, especially when NO donors have to be taken. In addition, certain antihypertensives can themselves impair the ability to achieve an erection. These include for example calcium antagonists, angiotensin-II receptor antagonists, non-selective beta blockers and thiazide diuretics.

Optimised penile rehabilitation

A vacuum erection aid is also particularly suitable for patients following radical prostatectomy, in order to restore erectile function following surgery and to combat a threatened loss of penile length. Recent studies show that the timely use of a vacuum pump following radical prostatectomy helps to regain erectile function rapidly and can promote early sexual activity. Around 80 % of men treated with a vacuum pump subsequently had satisfactory erections again. Among the men treated in the course of this study, only 23 % had a loss of length, compared with 85 % of patients in the control group.

Conclusion

Vacuum erection aids represent an efficient treatment option, which above all is also low in side effects and simple to use. Particularly in patients with diabetes mellitus, high blood pressure or following radical prostatectomy, such a system results in satisfactory erections. Men with these concomitant diseases, who are in a stable relationship, are the ideal candidates for a vacuum erection aid.

Systems such as the **ACTIVE Erection System^{NT}**® and **MANUAL Erection System**® are aids recognised by the health insurance companies at Germany and the USA and can be prescribed by the doctor.¹⁾

Advantages

- Restoration of the erectile function,
- Restriction of penile length loss,
- Significant improvement of healing successes (circulation).
- Non-invasive
- Non-medicinal
- Hardly any side effects
- Uncomplicated and low risk
- Safe and reliable
- Simple to use
- Effective
- Can be used long-term and can be repeated as desired

"In controlled studies, the early utilisation of the vacuum pump following radical prostatectomy lead to a satisfactory erection capable of sexual intercourse and prevented a loss of length in 80% of patients."¹⁾

There have been good vacuum therapy experiences with older persons, MS and Parkinson's Disease as well as with patients with spinal cord injuries.

Some ICI users apply the vacuum erection device immediately prior to injection: The penetration and distribution of the applied active agents is better when the penis is erect.

Disadvantages

- Petechial haemorrhages, haematomas on the shaft of the penis or on the glans
- Erythema (rare)
- Cold feeling in the penis (regular)
- Loss of spontaneity
- Requires practice

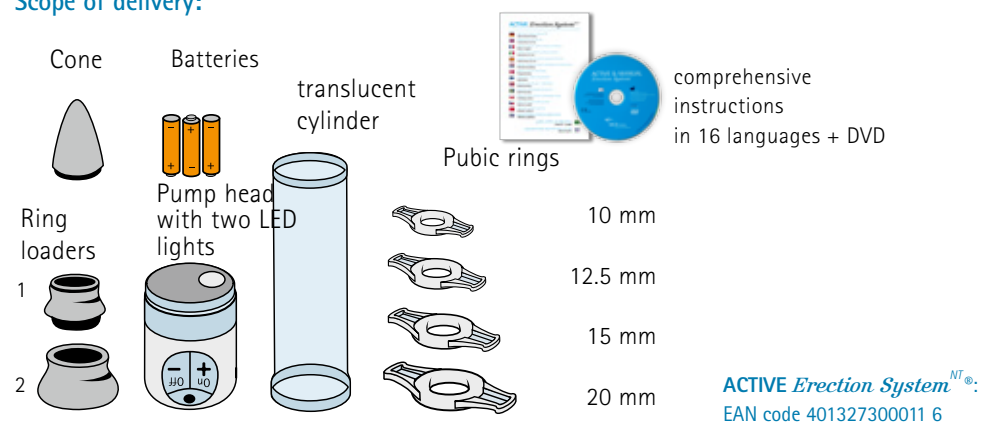
Contraindications

- Abnormally shaped penis
- Sick cell anaemia
- Leukaemia
- Bone marrow tumors
- Diseases that result in a change to blood clotting and lead to bleeding and prolonged erections
- Medical reasons not to partake in any sexual activity



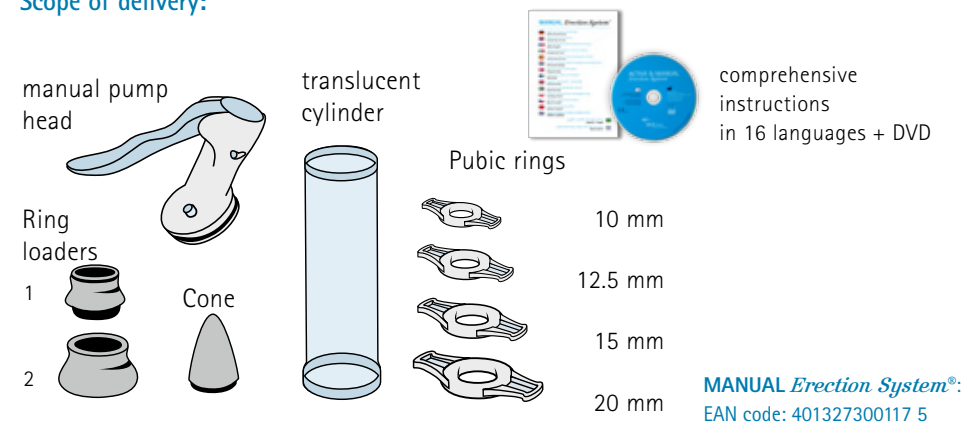
ACTIVE Erection System^{NT}®

Scope of delivery:



MANUAL Erection System[®]

Scope of delivery:





We help your patients

Comprehensive instructions for use are available in many languages (Arabic, Czech, Danish, Dutch, English, Finish, French, German, Greek, Hebrew, Italian, Norwegian, Polish, Swedish, Spanish, Turkish).



Furthermore, a multilingual DVD that illustrates the utilisation of the vacuum system is enclosed with each device.

We offer a two-year warranty on the pump heads.

Technical service and replacement parts can be requested at all times.

We offer qualified telephone advice for practical questions concerning application:

- Discrete,
- Individual and
- Solution-oriented.

Difference between the **ACTIVE Erection System^{NT}** and the **MANUAL Erection System[®]**

The significant difference between the two systems is the fact that the **MANUAL Erection System[®]** is quieter (more discreet) and creates a higher vacuum more quickly; in contrast, the utilisation of the **ACTIVE Erection System^{NT}** is somewhat more comfortable.

Technical information

	ACTIVE Erection System^{NT}	MANUAL Erection System[®]
Sub Pressure	not more than 400 mmHG	not more than 400 mmHG
Cylinder	Length: 202 mm, inner diameter: 53 mm external diameter: 60 mm	Length: 202 mm inner diameter: 53 mm external diameter: 60 mm
Batteries	3 Mignon AAA Batteries	not needed
HS code	9018 90 84	9018 90 84
Classification as medical device in Germany	Medical device class IIa	Medical device class I
UMDNS Nr.	17-744	17-744
EAN Code	4013273000116	4013273001175

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Cross references

1) Dr. Joanna B. Korda and Prof. Dr. Frank Sommer, UKE Hamburg, on the occasion of the 21st DGU Congress, 2009 in Dresden, Germany



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ACTIVE *Erection System*^{NT®}

EAN code 401327300011 6

MANUAL *Erection System*[®]

EAN code 4013273000117 5



*"You have given us as many happy
years once again with your pump!"*

Mr Franz K., Heilbronn, Germany

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