‘Let every man judge according to his own standards,
by what he has himself read, not by what others tell him.’
Albert Einstein (1949) *The World As I See It*

ZSI
Zephyr Surgical Implants



SWISS MADE

- ***ZSI** is the **only European manufacturer** of artificial urinary sphincters and of malleable and inflatable penile implants, as solutions for male urological problems (incontinence), sexual complications (Erectile Dysfunction), and gender identity procedures (prostheses for trans men and women).*



MADE IN SWITZERLAND
In the heart of Europe
ZSI, Zephyr Surgical Implants
Route des jeunes 4bis,
Les acacias-Geneva
CH-1227, Switzerland

PRODUCTS



The hydraulic / inflatable penile implant in three components (PI) ZSI 475 is a solution for problems related to erectile dysfunction and impotence.



A malleable / semirigid penile implant for men. ZSI 100 is a solution for problems related to erectile dysfunction and impotence.

ZSI offers solutions adapted for plastic surgery to satisfy the specific demands of transsexual / transgender men and women.



A hydraulic / inflatable penile implant of three components for trans men ZSI 475 FTM

A malleable / semirigid penile implant for trans men ZSI 100 FTM

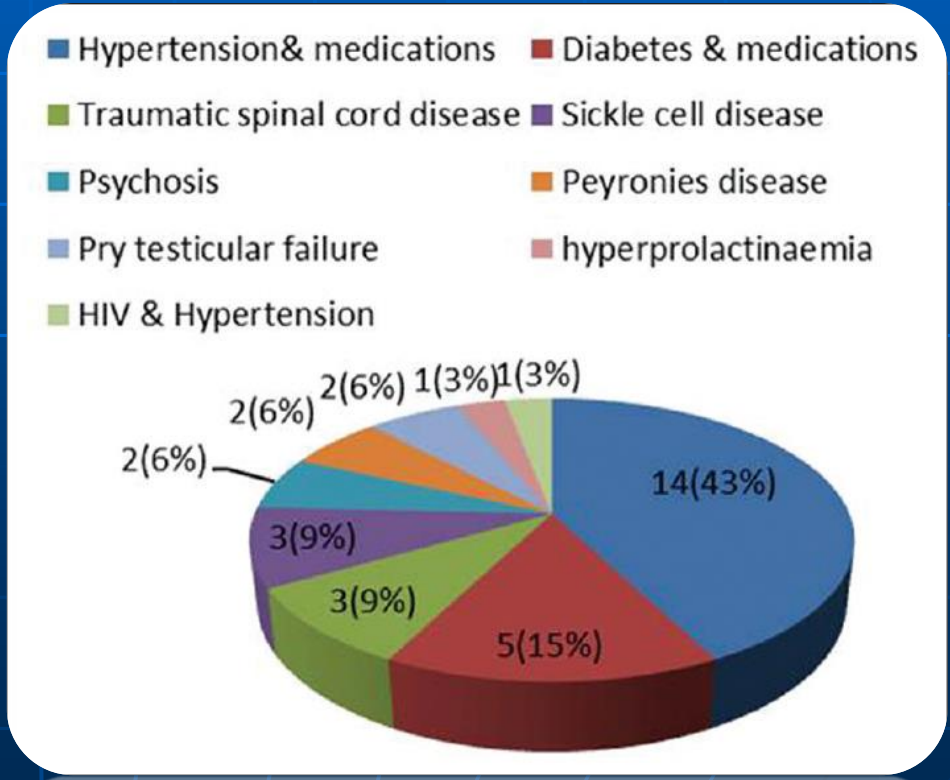
A malleable / semirigid implant for metoidioplasty for trans men ZSI 100 D4



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50% of men over 40 have some degree of ED*.

Erectile dysfunction causes:



ED treatment strategy

Always the same what ever the cause:

- Medical history for psychogenic or organic etiology
- Physical exam looking for blood pressure in cavernous artery or corpus cavernosa fibrosis
- Biological tests: Blood glucose, LH-FSH, Prolactin, Testosterone (not useful main of time)



TREATMENT

- Psychogenic: Oral therapy/per-os
- Organic (diabetes, radical prostatectomy, colectomy, vascular surgery….)

always the same strategy:

- ✓ Oral therapy/ per os or Vacuum
  In case of failure
- ✓ Intra cavernous injection
  In case failure
- ✓ Penile implant



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ORAL THERAPY/PER-OS:

- VIAGRA (Sinldenafil)
- CIALIS (Tadalafil)
- LEVITRA (Vardenafil)
- SPEDRA (Avanafil)





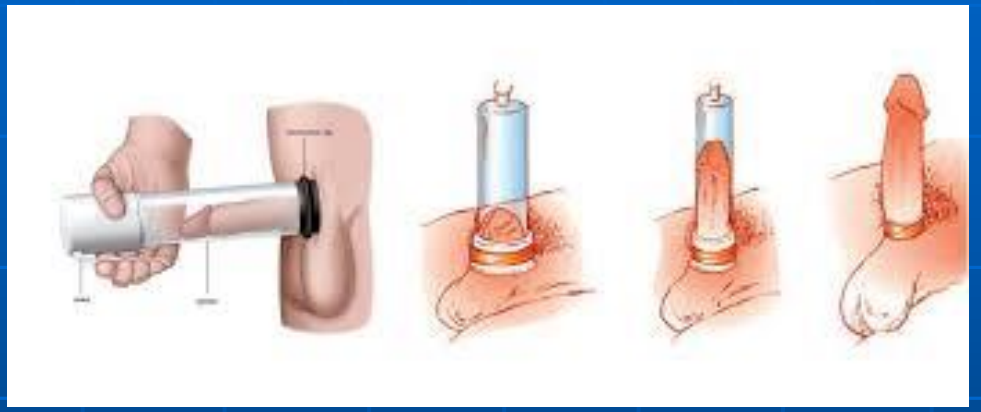






VACUUM

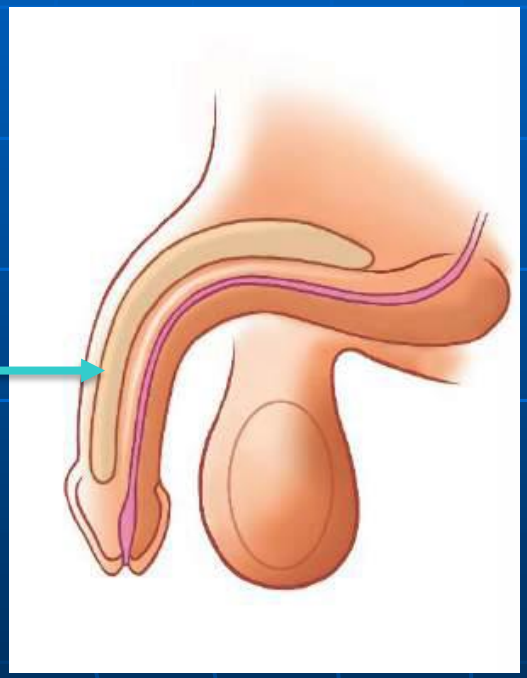


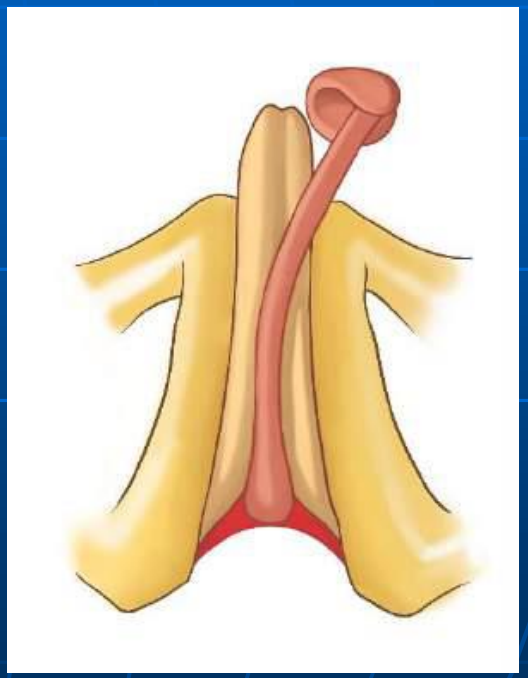




INTRA-CAVERNOUS INJECTION

Corpus cavernosum

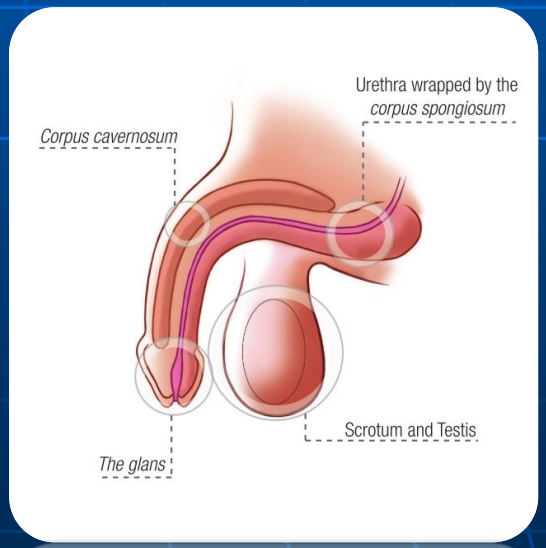


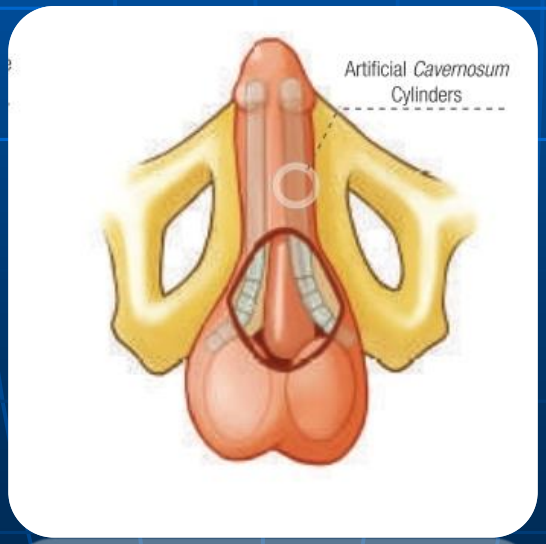


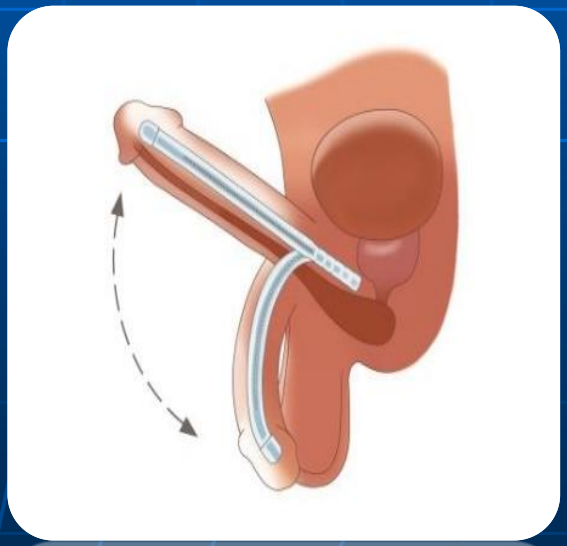
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PENILE IMPLANT

- They are intra-cavernous implant.
- Glans is respected, it keep its sensibility.
- If the patient still have his prostate he can ejaculate







SEMI-RIGID / MALLEABLE PENILE IMPLANT

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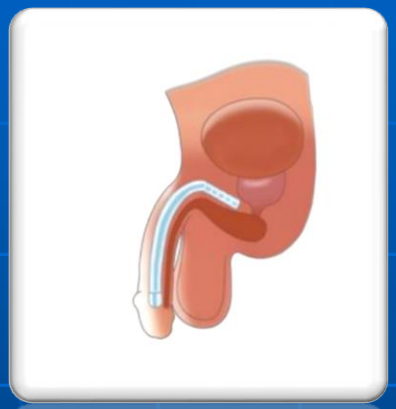
- The cylinders are inserted within the corpus cavernosum, residing on either side of the penis
- No tissue is removed or created to insert the cylinders
- They are placed within an already existing space of the penis, where previously blood would flood and cause the penis to be erect

The ZSI 100 does not affect the:

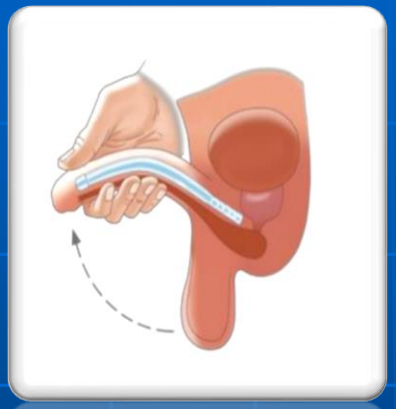
- Patients capacity to urinate or ejaculate
- Natural sensitivity of the penis nor of the Glans



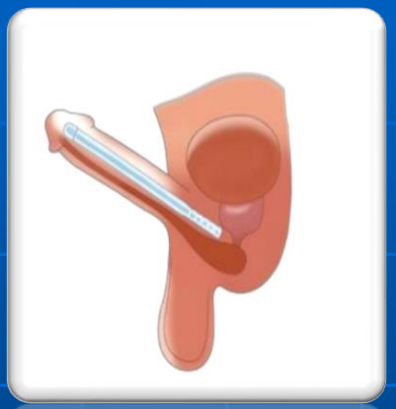
SEMI-RIGID / MALLEABLE PENILE IMPLANT FUNCTIONING



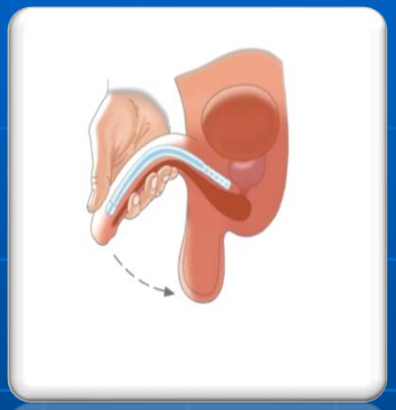
flaccid penis



With hand straighten the penis from bent position



Erect penis



With a hand return the penis to bent position

The device is implanted in the corpus cavernosum.

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MALLEABLE PENILE IMPLANT

ZSI 100



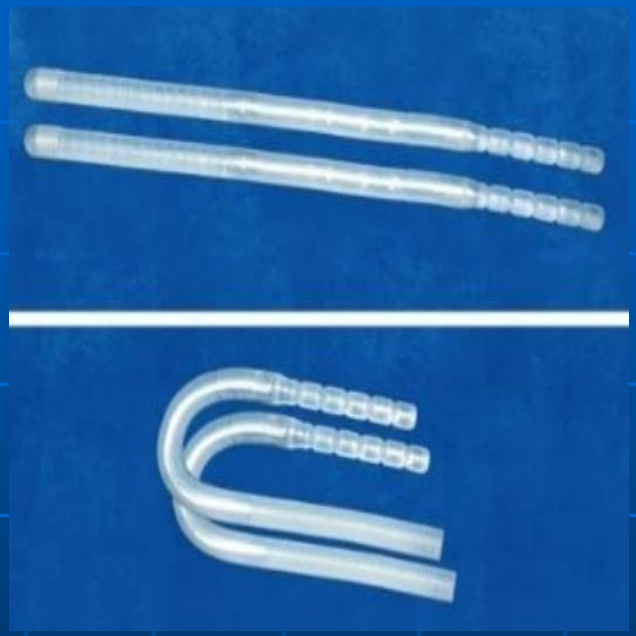
A Solution for erectile dysfunction

MALLEABLE PENILE IMPLANT
ZSI 100

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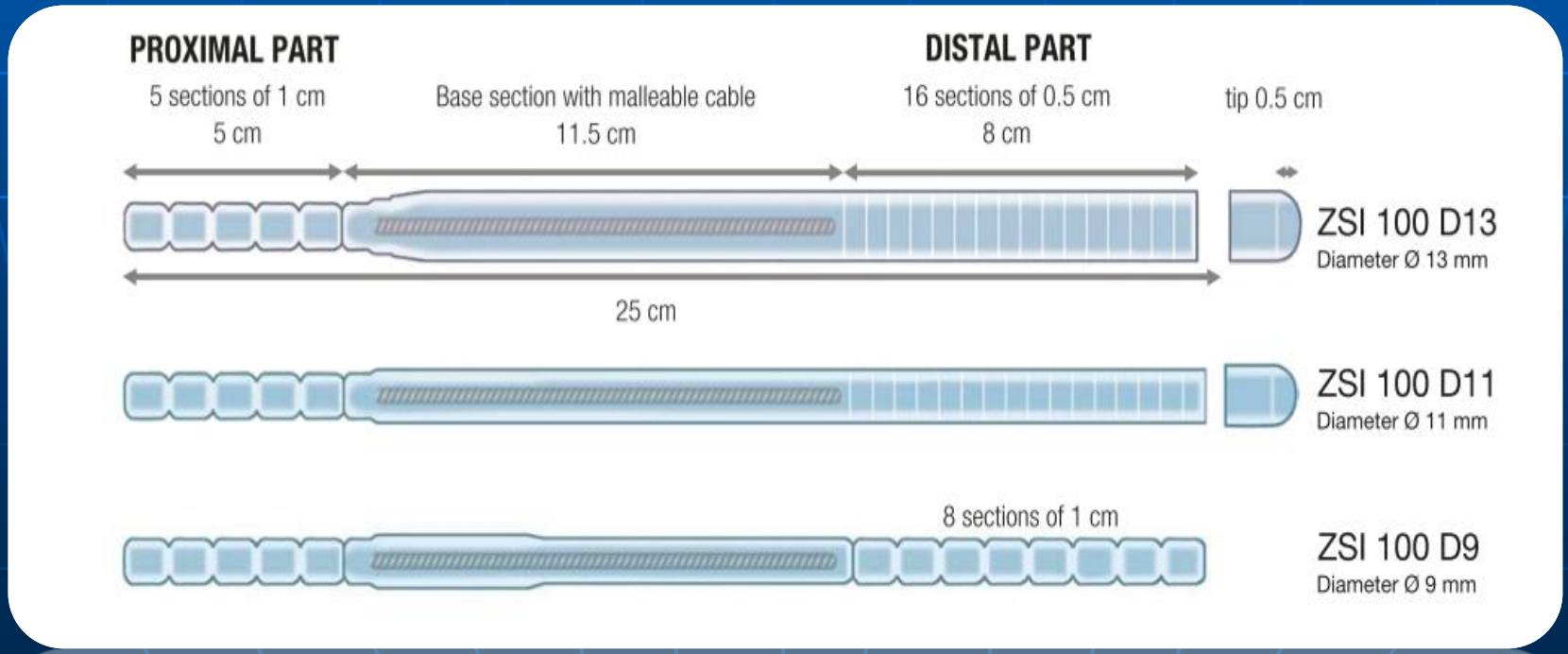
Manufactured at an optimum density for both durability and malleability, providing a lifelike erection.

Reinforced Nitinol (Nickel-Titanium) rod interior to provide best long term use.



ZSI 100

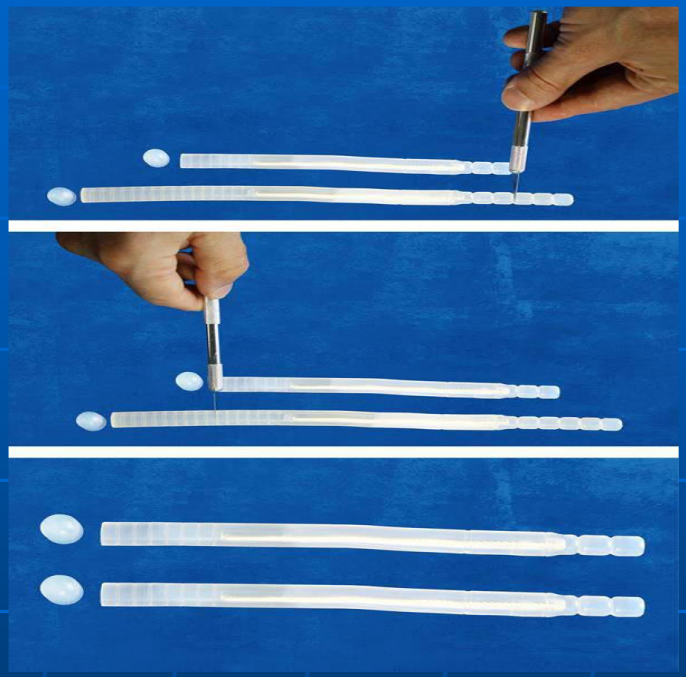
- Length is 25 cm. It can be reduced up to 12 cm
- It can be adjusted from both distal and proximal part
- Always cut distal part first and then proximal part if necessary. This is important for cable position in corpus cavernosum.
- 3 diameter are available: 9mm, 11mm, 13mm
- In case of mistake, extensors are provided.



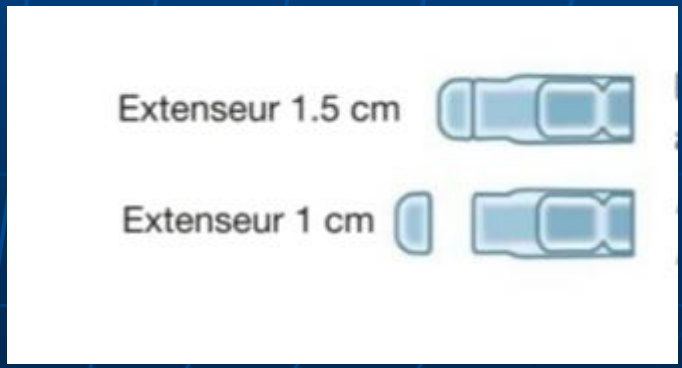
ZSI 100

ADJUCTING FROM BOTH DISTAL & PROXIMAL PART

The surgeon can reduce the length from the distal or/and proximal part, to suit the individual patient's anatomy or expectations. This allows the ZSI 100 device to be modified to maximize patient comfort.



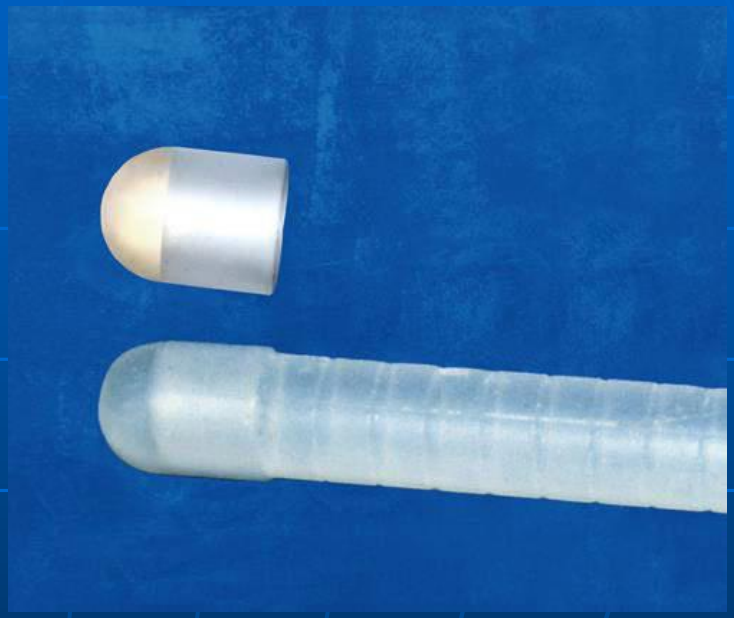
- Extensors are available in the kit only to repair an excess cut of the cylinders.



ZSI 100

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PROTECTION OF THE ENTIRE PENIS



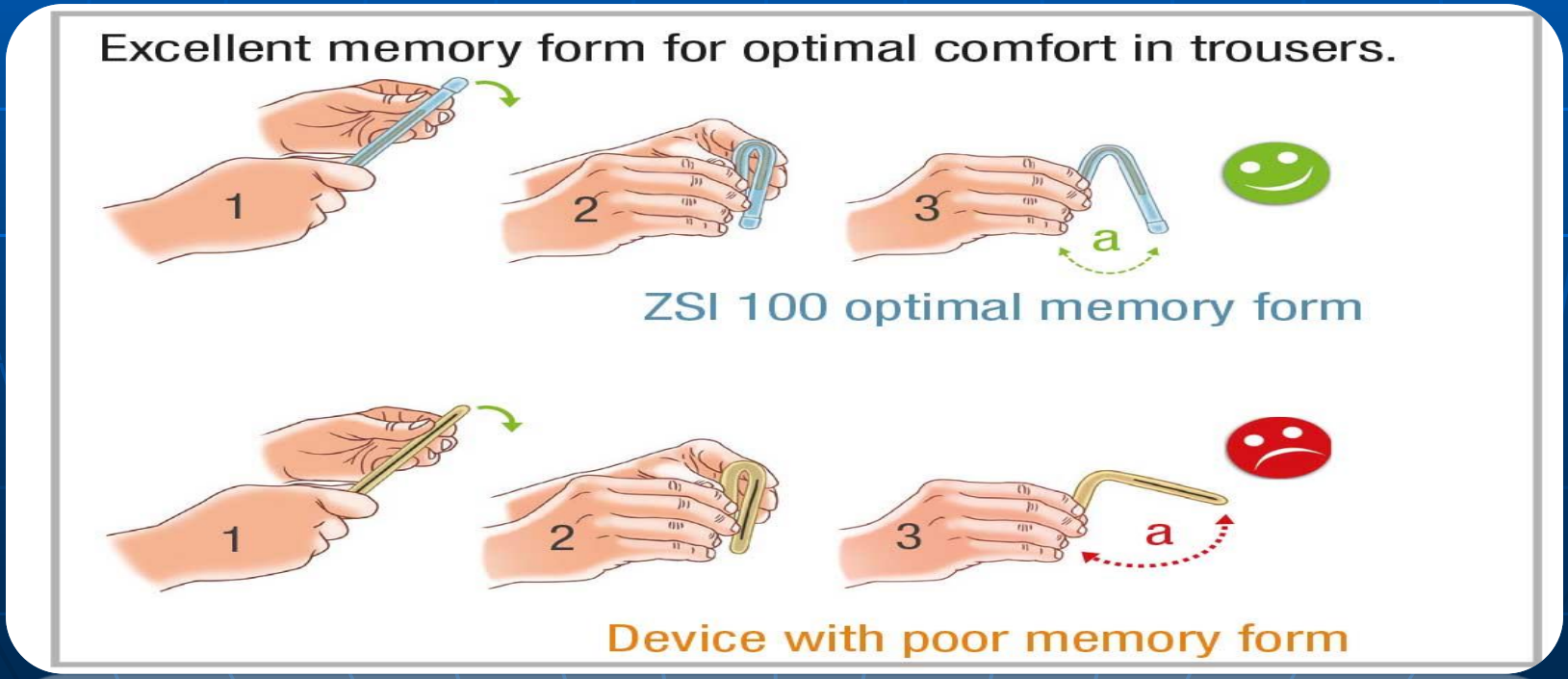
The ergonomically shaped stopper provides a secure connection to the gland after cutting at the right length.
NUSIL is the most secure biocompatible silicone that reduces the risk of infection and erosion.

ZSI 100 Advantages

- **Excellent memory form**

1) The ZSI 100's excellent shape memory is an important feature which increases patient comfort. The less readily the implant resumes its shape after bending, the more comfortable it will feel in a resting position, in the patient's trousers.

2) Implants without good shape memory will be uncomfortable for everyday use.



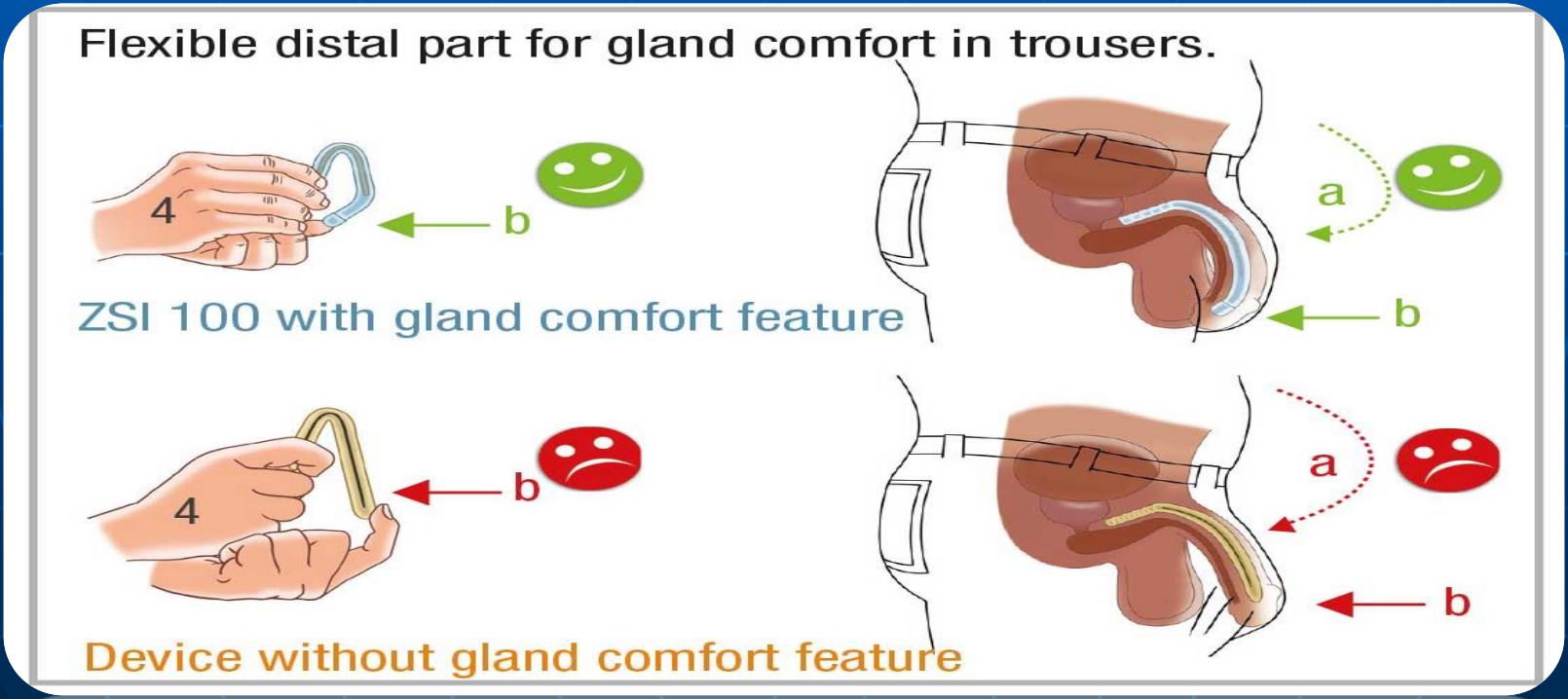
ZSI 100 Advantages

- **FLEXIBLE DISTAL PART**

1) Pressing the side of a penis implanted with the ZSI 100 results in a natural bending motion which feels like that of a natural penis.

➢ **LACK OF FLEXIBLE DISTAL PART**

2) Pressing the side of a penis implanted with an overly rigid distal part does not result in a natural bending motion. It will feel unnatural.



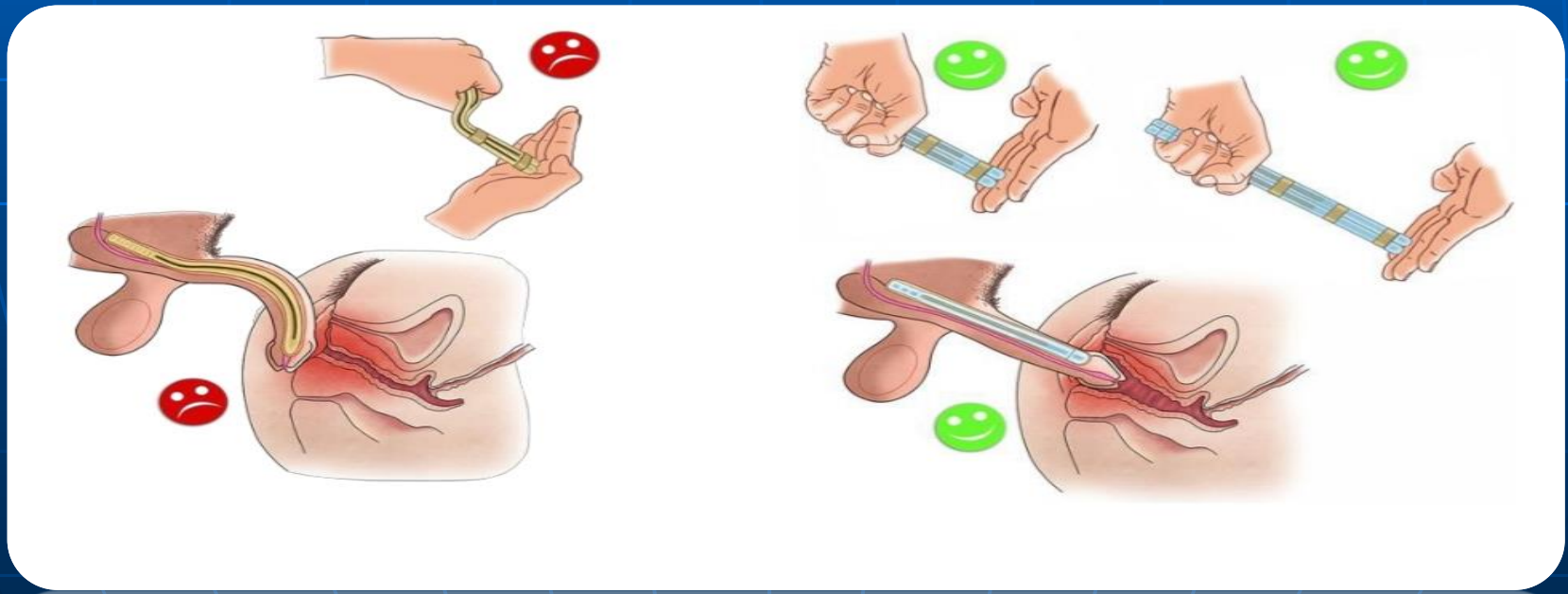
ZSI 100 Advantages

- **RIGIDITY FOR INTERCOURSE**

1) 2 cylinders of ZSI 100 provide the ideal rigidity for intercourse. Any size ZSI 100, from 12 to 25cm, will provide satisfactory results for intercourse.

➢ **LACK OF RIGIDITY FOR INTERCOURSE**

2) device lacking rigidity might be very comfortable in a resting position, but would be useless for intercourse.



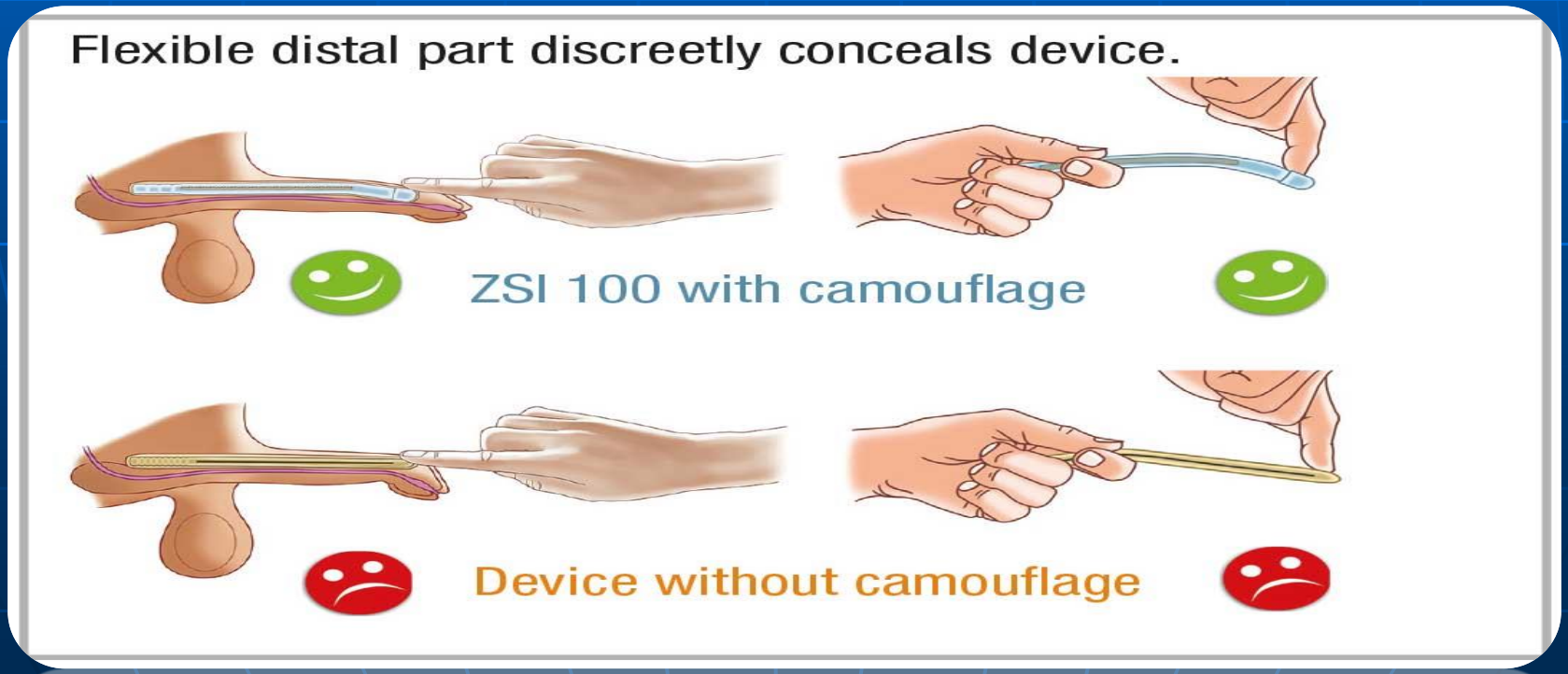
ZSI 100 Advantages

- **GLANS COMFORT**

1) The ZSI 100 has a flexible distal part, allowing for optimum gland comfort in a flaccid position

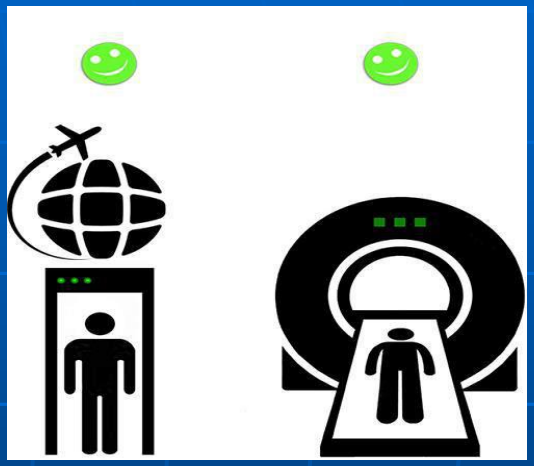
➢ **LACK OF GLAND COMFORT**

2) A lack of flexibility in the distal part of the device will produce excess rigidity, leading to gland discomfort in the resting position

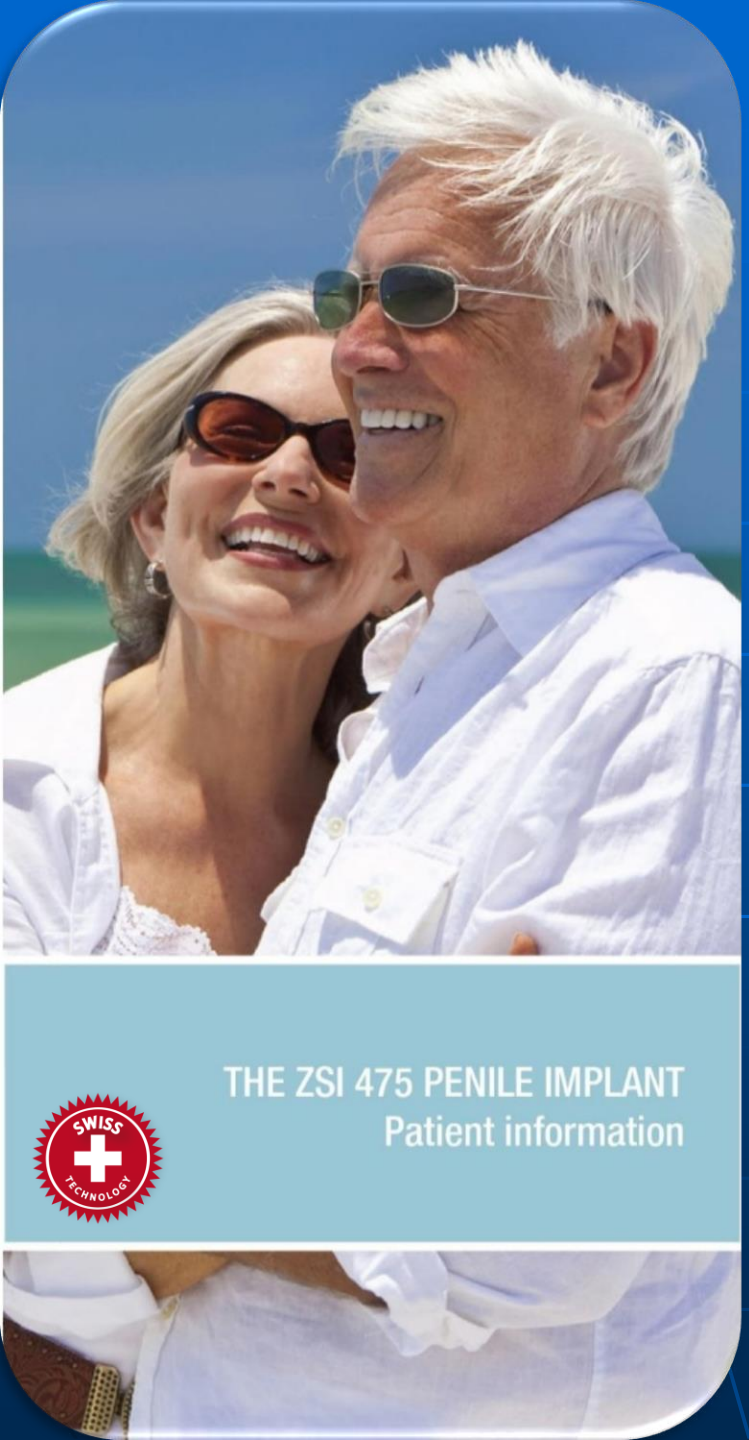


ZSI 100 Advantages

- ✓ Pair of implants, fits all lengths,
- ✓ Adjustable proximal and distal from 12 to 25 cm,
- ✓ Easy implantation,
- ✓ Optimum patient comfort,
- ✓ Excellent memory form,
- ✓ Good endurance,
- ✓ Good rigidity,
- ✓ Good plasticity,
- ✓ Comfortable in the rest position,
- ✓ Effective in erection.
- ✓ Safe in MRI & airport scanners







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مشاوره بیماران

اختلال نعوظ چیست؟

اختلال نعوظ و یا ED (Erectile Dysfunction) یک ناتوانی مداوم در رسیدن و حفظ نعوظ کافی برای داشتن عملکرد جنسی رضایت بخش است.
به زبان ساده تر می توان گفت که اختلال نعوظ گونه‌ای ناکارآمدی جنسی در مردان است که در آن آلت تناسلی مرد قادر نیست به وضعیت نعوظ برسد و یا به طور کافی در آن حالت باقی بماند؛ بنابراین فرد نمی‌تواند عملکرد رضایت‌بخشی در آمیزش جنسی داشته باشد.

دلایل ایجاد اختلال نعوظ چیست؟

اختلال نعوظ می تواند منشا گرفته از عضو و یا منشا گرفته از روان باشد .در واقع ممکن است که دلیل جسمی یا روانی و یا ترکیبی از هر دو داشته باشد.
علل روحی روانی اختلال نعوظ عبارتند از افسردگی، اضطراب شدید، اضطراب در برقراری رابطه جنسی، مشکلات در روابط با همسر و سایر اضطراب های کاری و غیر خانوادگی است.

علل فیزیولوژیک اختلال نعوظ شامل فشار خون بالا، کلسترول بالا، دیابت، پارکینگسون، MS، ناهنجاری های لگنی، تصلب شرائین، بیماری پیرونی و غیره.
مصرف مواد مخدر، سیگار، الکل، مصرف برخی داروها نیز باعث اختلال در نعوظ و یا تشدید آن می شوند.
عمل جراحی مانند عمل های ترمیمی و برداشتن غده پروستات، اختلالات هورمونی، کم کاری غدد جنسی و بالا و پایین آمدن هورمون ها، همچنین آسیب به نخاع، مغز و آسیب به اعصاب داخل لگن از جمله عوامل تاثیر گذار بروی توانایی جنسی مردان می باشند.

چگونه متوجه شویم که دچار اختلال نعوظ هستیم؟

اگر نعوظ شما به هر علتی برای برقراری رابطه جنسی مناسب نباشد برای بررسی این موضوع باید به پزشک مراجعه کنید تا با بررسی شرایط جسمی و روحی شما تشخیص دهد و به شما بگوید که این عارضه را دارید یا خیر و راه حل مناسب آن برای شما چه می تواند باشد.

INFORMEDCONSENT, main information

- ✓ Erection of corpus cavernous but no glans erection
- ✓ Glans keep its sensitivity
- ✓ Penis size the same before and after the procedure
- ✓ <10% infection, <10% erosion but there is a risk the patient must accept before the procedure.
- ✓ Risk of perineal pain for few weeks.





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THANKS FOR YOUR ATTENTION

THE END

