



SOCIETÀ ITALIANA DI ANDROLOGIA
Sez. Marche Emilia Romagna e Repubblica di S. Marino



01 OTTOBRE 2016
ANCONA, Hotel SeePort

Tavola Rotonda:

“Chirurgia protesica”

IL PROBLEMA DELLE DIMENSIONI

DEL PENE

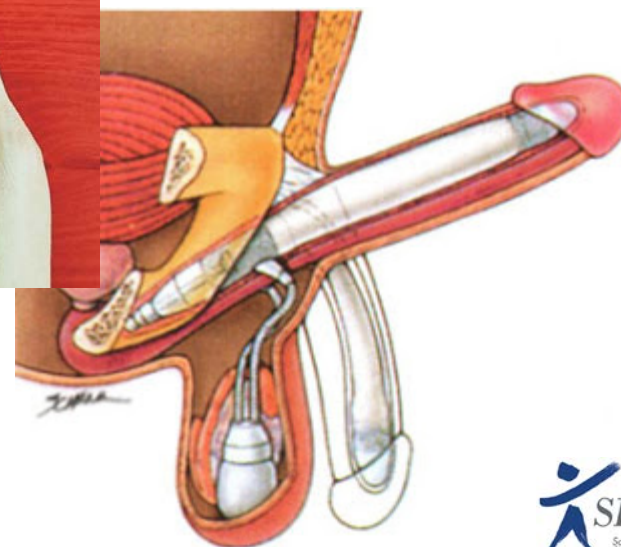
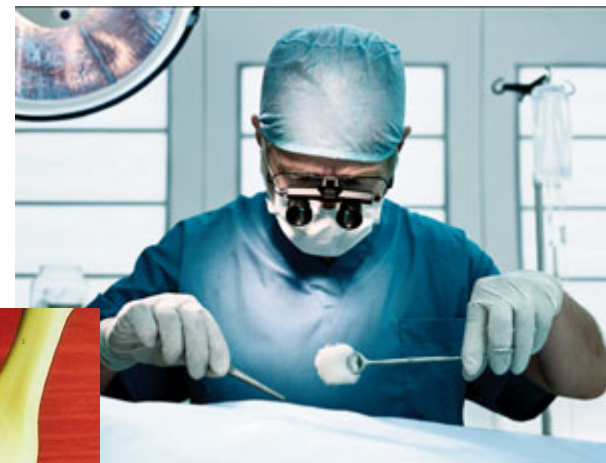
Giorgio Gentile





IL PROBLEMA DELLE DIMENSIONI DEL PENE?????







ASPETTI ANTROPOLOGICI

*...Penis size has been a **source of anxiety** for men throughout history, and still today men often feel a need to enlarge their penises in order either to improve their self-esteem or to satisfy and/or impress their partners....*

Francoeur R et Al. A descriptive dictionary and atlas of sexology. 1st ed.
New York, NY: Greenwood Press; 1991.



ASPETTI ANTROPOLOGICI



The Sadhus holy men of India [...] used weights to increase their penile lengths



Talalaj J, Talalaj S. The strangest human sex ceremonies and customs. 1st ed. Melbourne, AU: Hill of Content; 1994

ASPETTI ANTROPOLOGICI



Dayak tribe in Borneo

Dani tribe in western New Guinea



Talalaj J, Talalaj S. The strangest human sex ceremonies and customs. 1st ed. Melbourne, AU: Hill of Content; 1994



ASPETTI ANTROPOLOGICI

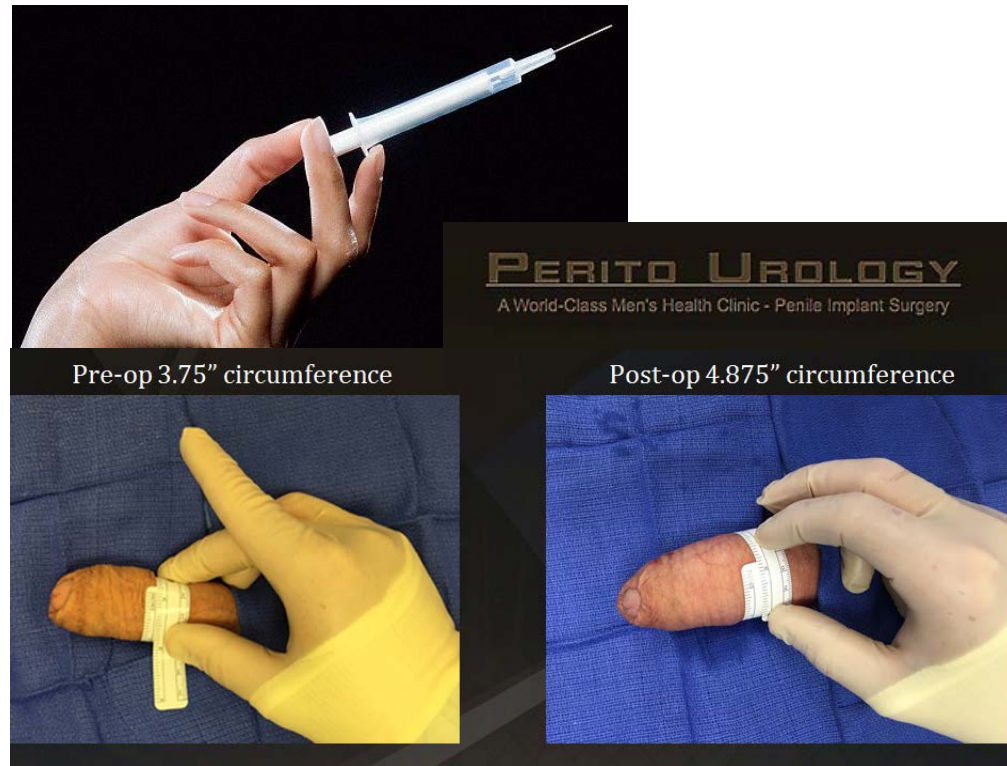


In the 16th century, men of the Topinama tribe of Brazil allowed poisonous snakes to bite their penises in order to enlarge them [...]

Talalaj J, et Al. 1994

The injection of exogenous substances into the genital skin to cause penile enlargement remains a common phenomenon in many cultures.

Murtag J, The “small” penis syndrome. Austr Fam Phys 1989;18:218–201989



ASPETTI ANTROPOLOGICI



The tendency of males to seek their **identity in the penis** [...] is symbolically powerful and truly significant myths that are firmly entrenched and are likely to persist in modern men

Murtag J, The “small” penis syndrome. Austr Fam Phys 1989;18:218–201989

ASPETTI SOCIOLOGICI



These **stigmas** of apparently **small penises**, as well as the increasing influence of the **media on sexual issues**, have created a demand for penile enhancement.

Vardi Y. Is penile enlargement an ethical procedure for patients with a normal-sized penis? Eur Urol 2006;49: 609–11.





ASPETTI SOCIOLOGICI

Penis size is considered important to **homosexual men** in terms of how they **construct their sense of self**, how they construct masculinity and that they recognize a notion of **“bigger is better”** when defining an ideal male partner.

Homosexual men's perceptions of size are significantly related to sexual positioning as those with **smaller perceived size more often assume the anally submissive sexual position**



homosexual men have a **vulnerability to body dissatisfaction** in comparison with heterosexual men

Veale et al. Sex Med 2015;3:147–155

ASPETTI PSICOLOGICI

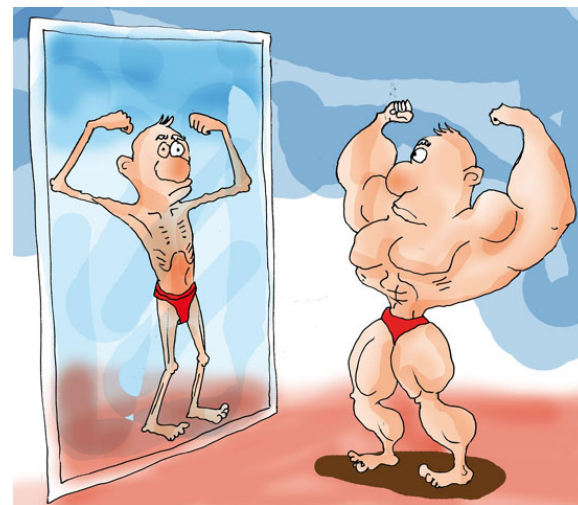
Small penis anxiety (also known as “**small penis syndrome**”) is found in men who have a normal-sized penis but are excessively anxious about its size. The definition excludes men who have a micropenis

Wylie & Eardley, 2007



Some men with **small penis anxiety** may be diagnosed with **body dysmorphic disorder (BDD)** (American Psychiatric Association, 2013). Individuals with BDD are preoccupied with a perceived defect or flaw in their physical appearance that is not observable to others or appears only slight

Veale et al., 1996, 2015



ASPETTI PSICOLOGICI



It is important to identify **BDD**, as it may be associated with a **high rate of psychiatric hospitalization, suicide ideation, and completed suicide**.

Phillips et al., 2005

It is often **poorly identified because of shame and stigma**, as patients do not often reveal their problem or they may **present with symptoms of depression**, social anxiety or obsessive–compulsive disorder when their main problem is BDD

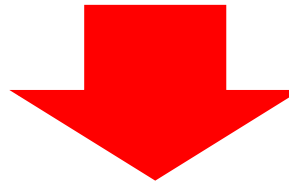
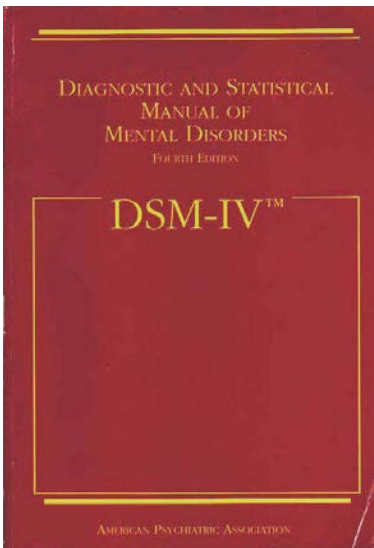
Phillips, Nierenberg, Brendel, & Fava, 1996



ASPETTI PSICOLOGICI

DSM-5 (Diagnostic and Statistical Manual of Mental Disorders – Fourth Edition)

A.P.A. (American Psychiatric Association)



“muscle dysmorphia” a form of BDD in which patients (mainly men) are preoccupied with their muscles being too puny and are significantly distressed and handicapped



Pope, Gruber, Choi, Olivardia, & Phillips, 1997

“penile dysmorphic disorder”: problem description for men diagnosed with BDD, in whom the size or shape of the penis is their main, if not their exclusive, preoccupation causing significant distress and shame or handicap

Veale et al., 1996, 2015





ASPETTI CLINICI: Il paziente

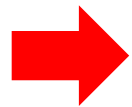
Sexual Functioning and Behavior of Men with Body Dysmorphic Disorder Concerning Penis Size Compared with Men Anxious about Penis Size and with Controls: A Cohort Study

Veale et al.

Sex Med 2015;3:147-155

Sexual Medicine

Open Access



Individuals with BDD commonly **seek cosmetic procedures** with the hope that the appearance of their perceived flaw(s) can be significantly improved



The diagnosis of BDD may be associated with **poor outcome in most cosmetic procedures.**

Crerand, Menard, & Phillips, 2010

Phillips, Grant, Siniscalchi, & Albertini, 2001;

Tignol, Biraben-Gotzamanis, Martin-Guehl, Grabot, & Aouizerate, 2007;

Veale, De Haro, & Lambrou, 2003;





Review – Sexual Medicine

A Critical Analysis of Penile Enhancement Procedures for Patients with Normal Penile Size: Surgical Techniques, Success, and Complications

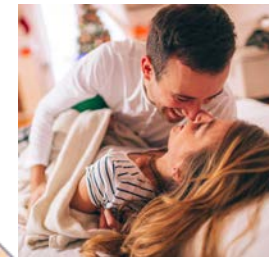
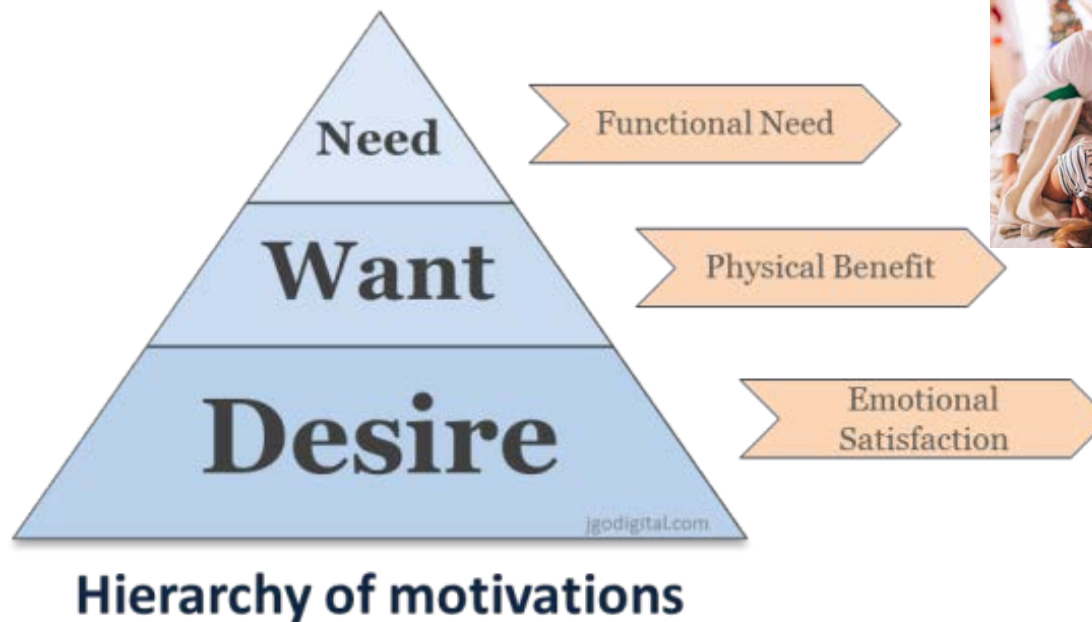


European Association of Urology

EUROPEAN UROLOGY 54 (2008) 1042–1050

Yoram Vardi^a, Yaron Harshai^b, Tamir Gil^b, Ilan Gruenwald^{a,*}

The scarce published data have shown that **these procedures** result in a 1–2-cm elongation of the external part of the penile shaft and a 2.5-cm enhancement of penile circumference. The significance of these **“successful” results** is overshadowed by the fact that they **do not directly correlate with patient satisfaction**



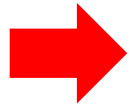


ASPETTI CLINICI: Il paziente

Sexual Functioning and Behavior of Men with Body Dysmorphic Disorder Concerning Penis Size Compared with Men Anxious about Penis Size and with Controls: A Cohort Study

Veale et al.

Sex Med 2015;3:147–155



Most men with small penis anxiety are **too ashamed to seek help** and may instead seek . These include visiting sites that promote lotions, pills, exercises or penile extenders



People with BDD may also perform **D.I.Y (do it yourself) surgery**—an attempt to correct their perceived physical flaw(s) themselves. Thus some men preoccupied by their penis size have injected Vaseline in to their penis [13].

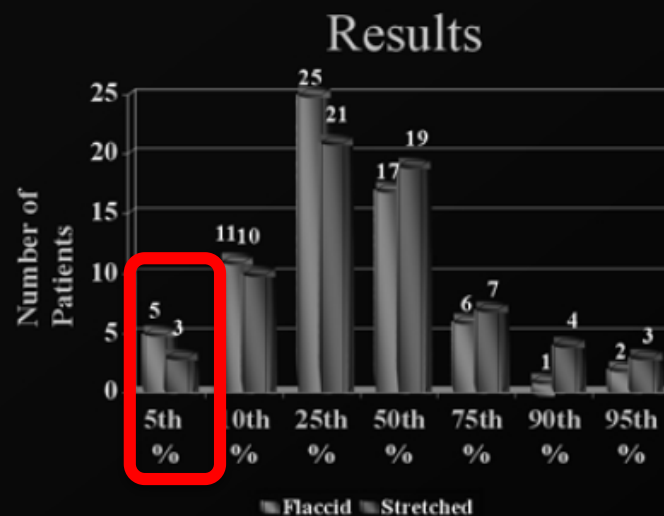
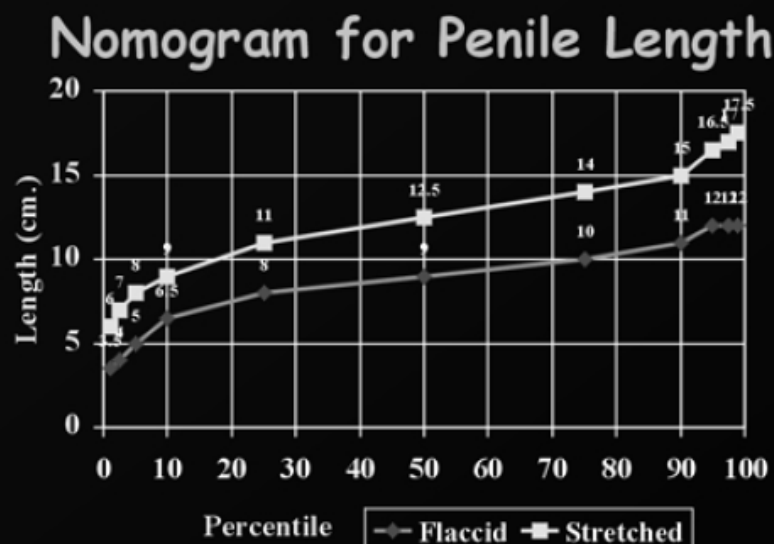


ASPETTI CLINICI: Il paziente

Penile length is normal in most men seeking penile lengthening procedures

N Mondaini et al

International Journal of Impotence Research (2002) 14, 283-286
© 2002 Nature Publishing Group All rights reserved 0955-9930/02



Su 67 esaminati pz **solo 5** avevano dimensioni del pene patologiche



ASPETTI CLINICI: Il medico

Review – Sexual Medicine

A Critical Analysis of Penile Enhancement Procedures for Patients with Normal Penile Size: Surgical Techniques, Success, and Complications



European Association of Urology

EUROPEAN UROLOGY 54 (2008) 1042–1050

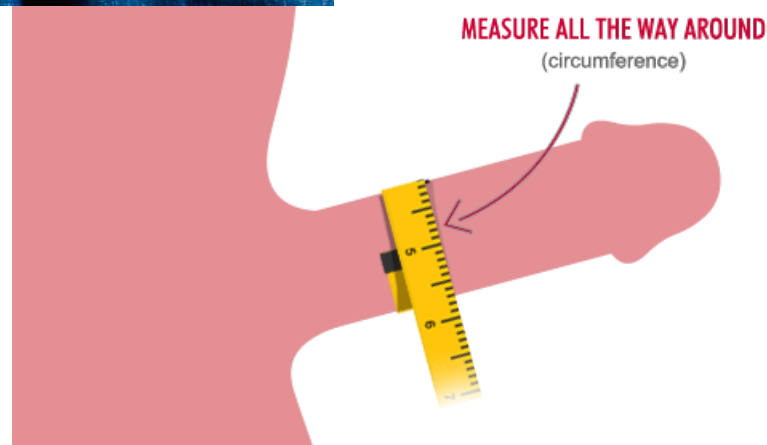
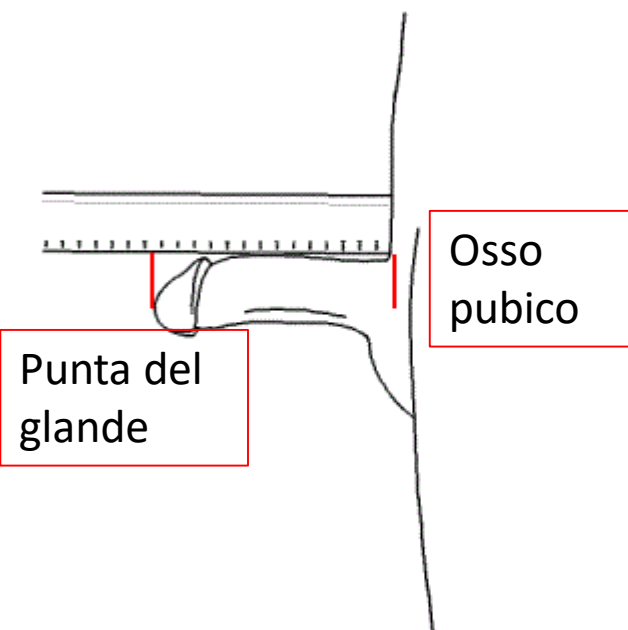
Yoram Vardi^a, Yaron Harshai^b, Tamir Gil^b, Ilan Gruenwald^{a,*}



Measurement of penile dimensions is a basic requirement for evaluating the success rate of penile enhancement procedures. The size of the flaccid state is much more significant for males with psychological dysmorphism than the size of the erect state.

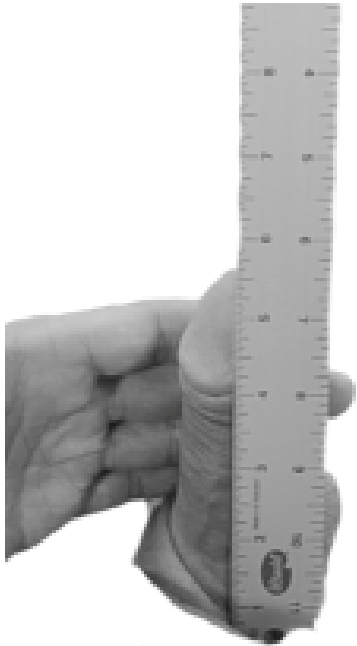
ASPETTI CLINICI: Il medico

Misurare il pene



ASPETTI CLINICI: Il medico

Misurare il pene



FLACCID



STRETCHED

Stretched flaccid length appears to be an excellent estimate of erect penile length

Chen et Al. 2000



ERECT



ASPETTI CLINICI: Il medico

Misurare il pene

Am I normal? A systematic review and construction of nomograms for flaccid and erect penis length and circumference in up to 15 521 men

Veale *et al.*

BJU Int 2015; **115**: 978-986

Fig. 2 Nomogram for flaccid, flaccid stretched and erect length of the penis.

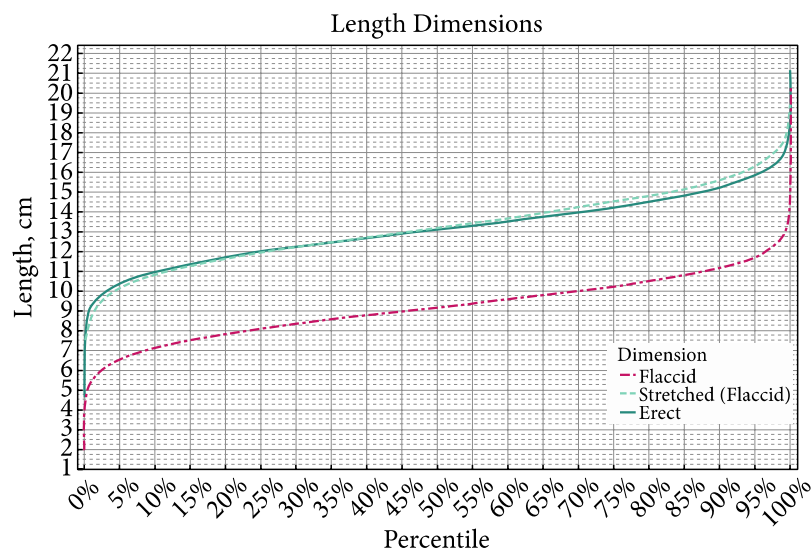
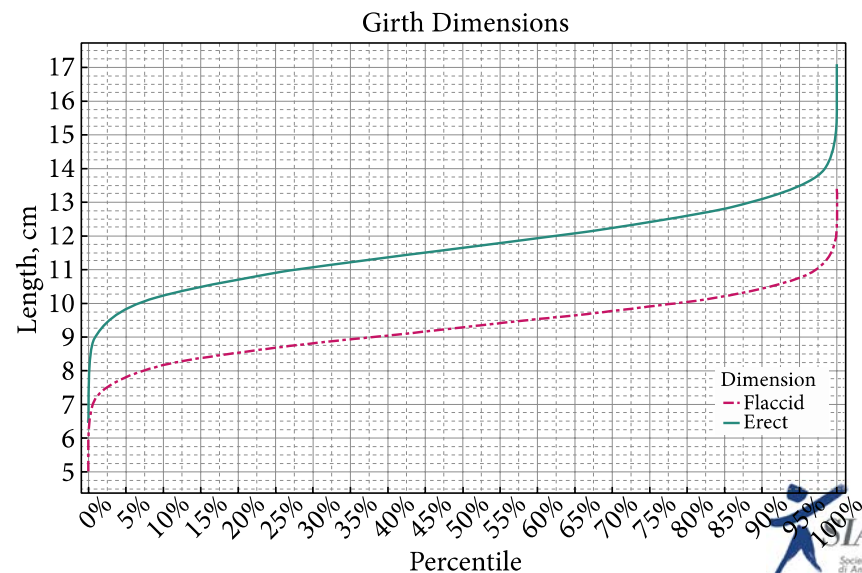


Fig. 3 Nomogram for flaccid and erect girth of the penis.





ASPETTI CLINICI: Il medico

Micropene

<2.5 SDs below the main

<5.2cm in flaccid lenght

<8.5cm in flaccid stretched lenght



ASPETTI CLINICI: Il medico È davvero importante?



....size of the male penis has no true physiologic effect on female sexual satisfaction because vagina adapts to fit the size og the penis.

Masters WH, Johnson VE 1966.

....not the penis lenght but the width is more important

Eisenmen R 2001.



ASPETTI CHIRURGICI: le protesi

Chi è il candidato alla IPP?

INSIST-ED: Italian Society of Andrology registry on penile prosthesis surgery. First data analysis

Edoardo Pescatori, et Al.

Archivio Italiano di Urologia e Andrologia 2016; 88, 2



Status-post (s/p) **radical pelvic surgery** n. 111 (35,8%),

Peyronie's disease n. 66 (21,3%),

diabetes n. 39 (12,6%)

vascular disease n. 29 (9,4%)

neuropathy n. 5 (1,6%)

other n. 60 (19,3%)

>50%



Lee and Brock. Strategies for maintaining penile size following penile implant

Review Article

Transl Androl Urol 2013;2(1):67-73

Table 1 Causes for loss of penile size

Objective loss of penile size

Conditions causing tunical scarring (Peyronie's disease)

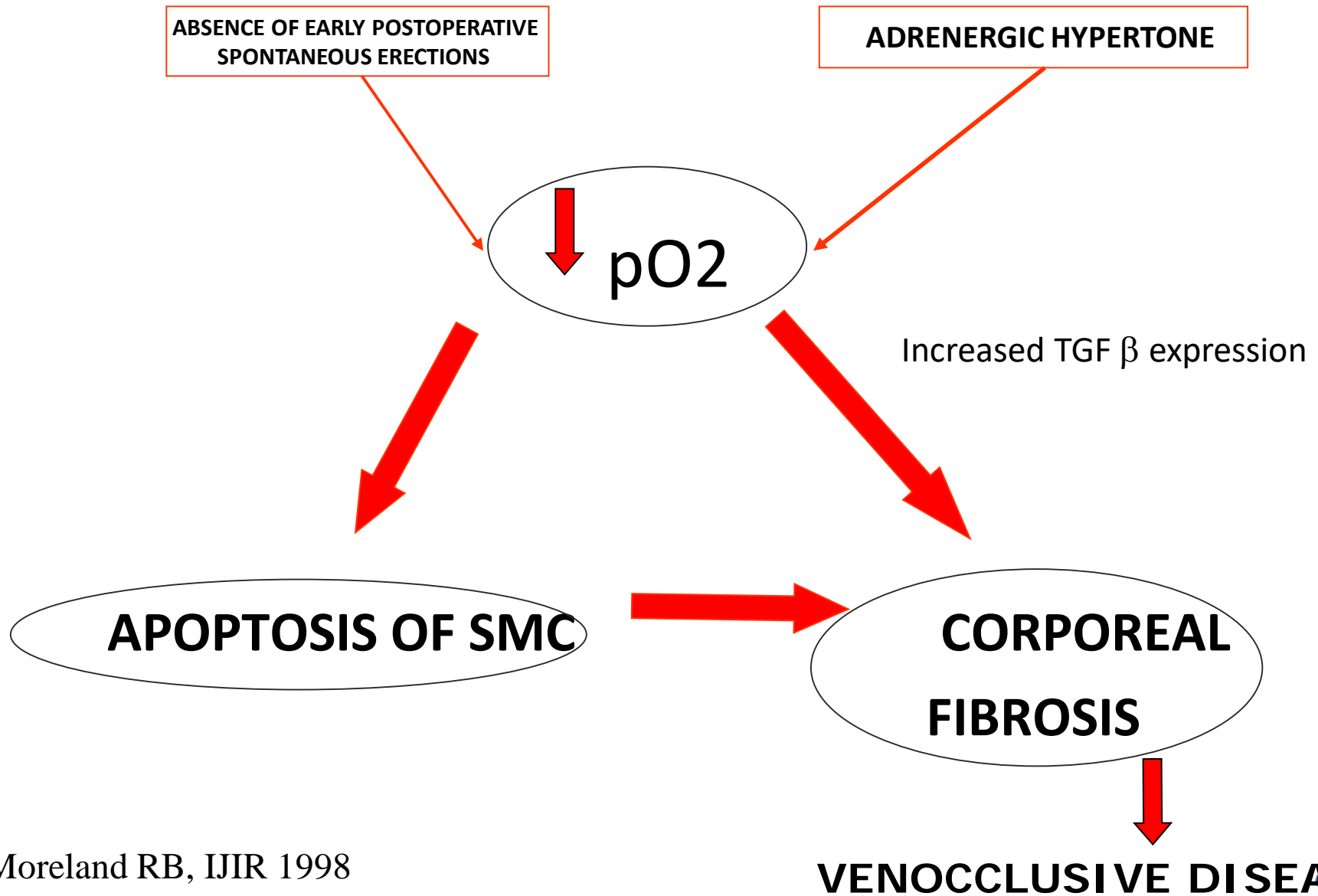
Corporal fibrosis or loss of cavernous smooth muscle
(ischemic priapism, previous radical prostatectomy)

Loss of glanular engorgement

Subjective loss of penile size

Long history of ED with inaccurate recollection of erect penile size

Increased prepubic fat distribution

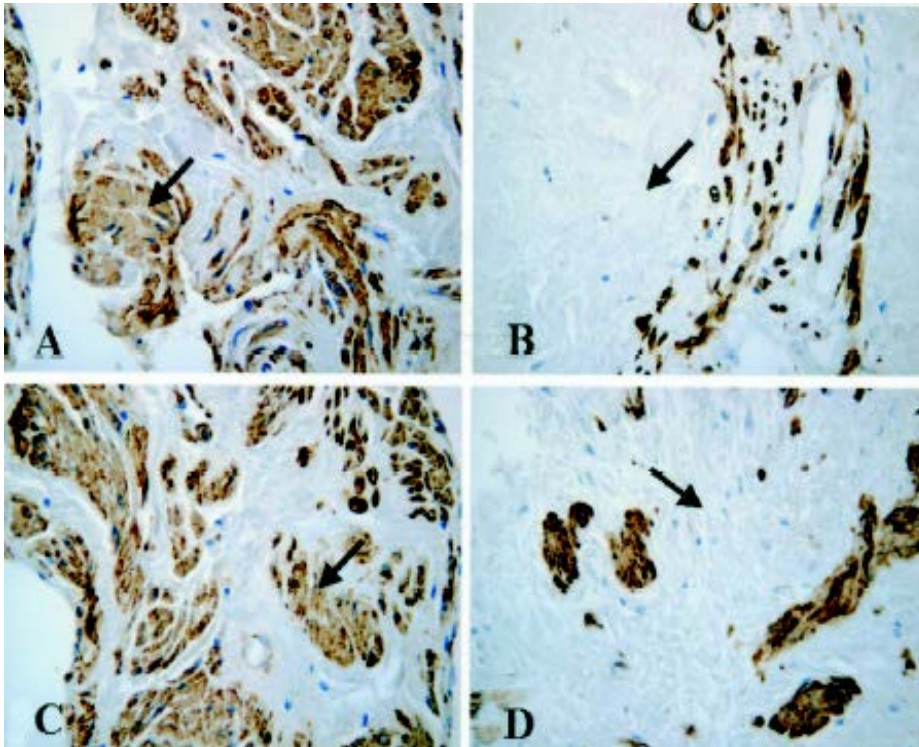


Moreland RB, IJIR 1998
Klein LT, J Urol 1997

VENOOCCLUSIVE DISEASE

PRE-OP

2 MONTHS
AFTER RRP



***MARKED DECREASE IN
SMOOTH MUSCLE
FIBERS ($p < 0.0003$)***

***INCREASE OF
FIBROTIC TISSUE***



Penile shortening after RP has been reported up **to 71%** of pts, with a **mean decrease of 1.1 - 4 cm**

PD surgery has been associated with **penile shortening** occurring **7.3 – 90%**

Levine and Rybak
J Sex Med 2011, 8:2112-2117



Penile Length Alterations Following Penile Prosthesis Surgery

Serkan Deveci, David Martin, Marilyn Parker, John P. Mulhall* EUROPEAN UROLOGY 51 (2007) 1128–1131



Despite an absence of measurable penile length changes, the majority of men (**71%**) **complained of subjective length loss**.

Table 2 – Alterations in penile lengths between the groups with and without subjective length loss at baseline and after surgery

Measured penile length, in.	Entire group (n = 56)	Subjective length loss group (n = 40)	No subjective length loss group (n = 16)	p
Baseline	5.2	5.1	5.3	0.10
1 mo	4.8	5.0	5.2	0.18
6 mo	5.1	5.2	5.3	0.22
p	0.09	0.12	0.17	

Table 3 – Differences in IIEF and EDITS between the groups with and without subjective length loss

6-mo scores	Entire group (n = 56)	Subjective length loss group (n = 40)	No subjective length loss group (n = 16)	p
Δ EF domain score	15.6	16.2	14.5	0.12
Δ satisfaction domain score	4.3	3.5	6.5	0.005
EDITS	62.4	60.8	63.7	0.008

IIEF = International Index of Erectile Function; EDITS = Erectile Dysfunction Index of Treatment Satisfaction.



Comparison between AMS 700™ CX and Coloplast™ Titan Inflatable Penile Prosthesis for Peyronie's Disease Treatment and Remodeling: Clinical Outcomes and Patient Satisfaction

Chung *et al.*

EUROPEAN UROLOGY 51 (2007) 1128–1131



Table 1 Patients' penile prosthesis usage and satisfaction rates between AMS 700 CX and Titan

Demographic variables	AMS 700 CX (%)	Titan (%)	P value
Total number of IPP implanted	88 (64)	50 (36)	N/A
Overall satisfaction			
Rating 1–3	12 (14)	5 (10)	0.57
Rating 4–5	76 (86)	45 (90)	0.46
Would undergo surgery again			
Yes	72 (82)	44 (88)	0.68
No	18 (18)	6 (12)	0.62
Primary reason for dissatisfaction			
Decreased penile length	12 (14)	6 (12)	0.69
Problems with prosthesis	2 (2)	1 (2)	0.50
Personal health concerns	2 (2)	3 (6)	0.36
Loss of regular sexual partners	3 (3)	0 (0)	0.35
Frequency of sexual intercourse			
At least once a week	25 (28)	17 (34)	0.56
Fortnightly	30 (34)	22 (44)	0.65
At least once a month	22 (25)	5 (10)	0.41
Other	11 (13)	6 (12)	0.70

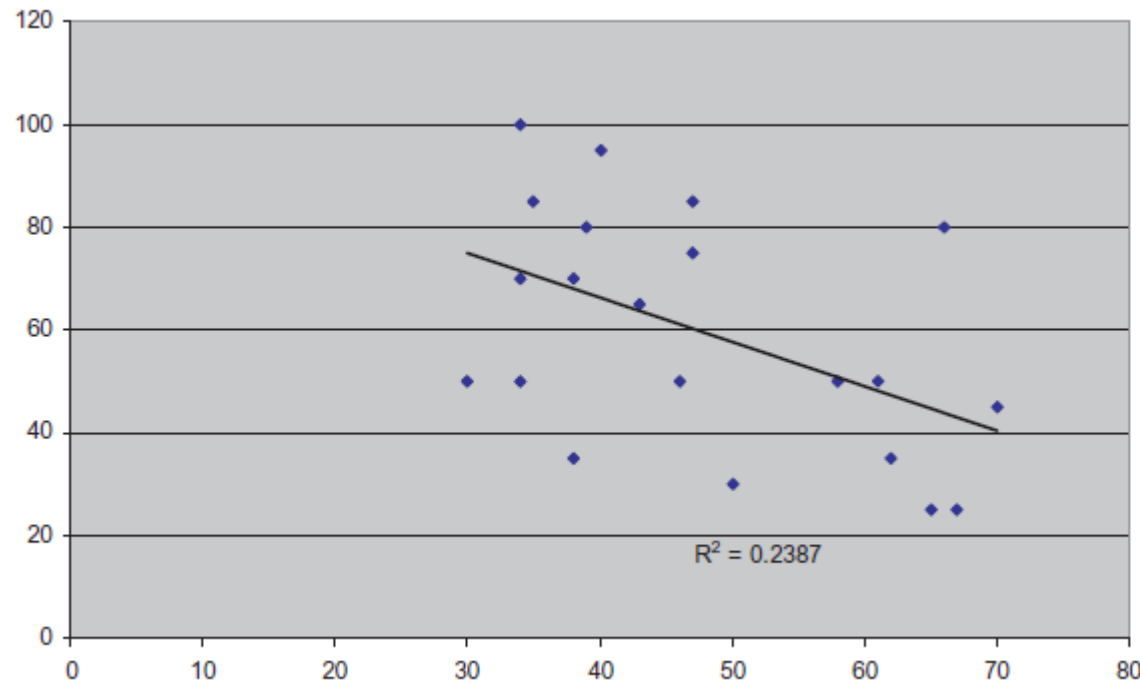
There were no statistical significant difference between the two IPP devices in terms of mechanical revision, cylinder failure rates and patient satisfaction



Patient Expectations Prior to Coloplast Titan Penile Prosthesis Implant Predicts Postoperative Satisfaction

Kramer and Schweber

5



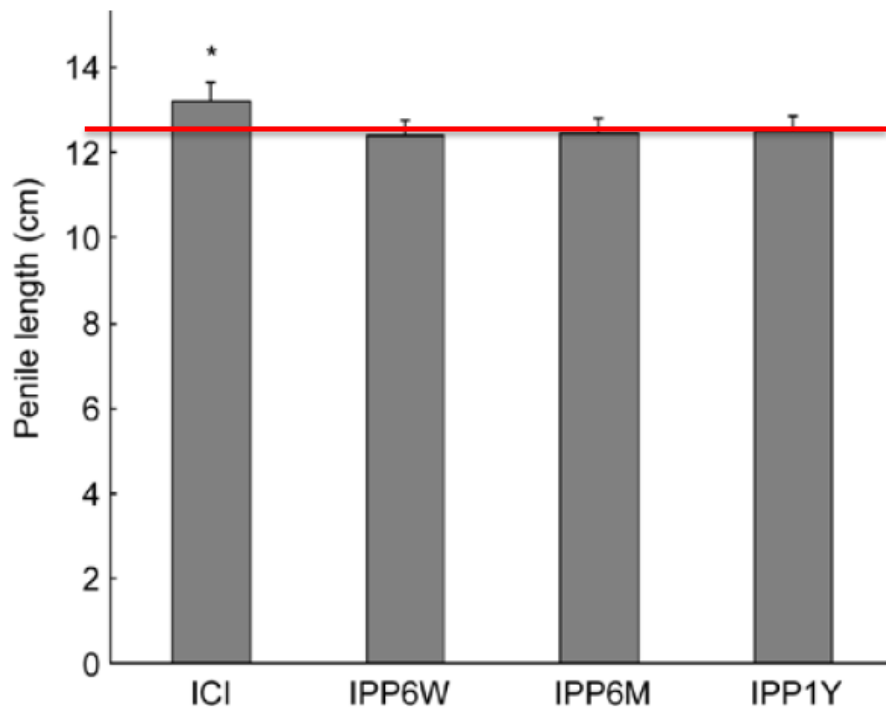
The negative but linear relationship confirms that a **realistic expectation**, or **even a “worst-case scenario”** expectation for patients, leads to more satisfied patients later.

Figure 2 Post-op evaluation score (y-axis) vs. pre-op expectation score (x-axis).



Prospective and long-term evaluation of erect penile length obtained with inflatable penile prosthesis to that induced by intracavernosal injection

Run Wang et al. *Asian Journal of Andrology* (2009) 11: 411–415.



In our study, we found statistically significant **decreases in erect penile length** at 6 weeks, 6 months and at 1 year **after IPP**, and this difference was noticeable in 45% of patients.

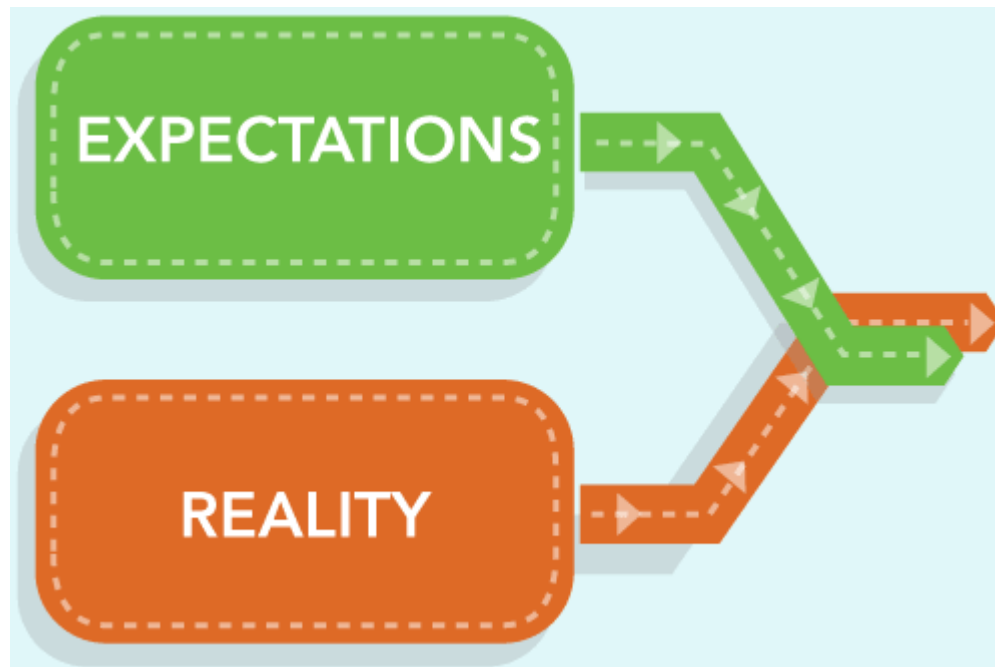


Figure 1. Erect penile length induced by ICI and after IPP. ICI: intracavernosal injection; IPP: inflatable penile prosthesis; W: week; M: month; Y: year. *P < 0.05.



ASPETTI CHIRURGICI: le protesi

Come risolvere il problema delle dimensioni del pene????



Da tutti gli studi che in letteratura, in lingua inglese, che si occupano del problema delle dimensioni del pene, le **aspettative pre-operatorie del pz** vengono considerate **il primo fattore di successo/insuccesso dell'impianto!!!!**



What
Do I Do
Now



COUNSELING!!!!!!



Come risolvere il problema delle dimensioni del pene????



Lee and Brock. Strategies for maintaining penile size following penile implant

Review Article

Transl Androl Urol 2013;2(1):67-73

Table 2 3-stage strategies for maintaining penile size after PPI

Pre-insertion

- External traction therapy
- Vacuum erection device
- Surgery at center of excellence
- Immediate PPI (for refractory ischemic priapism)

Intraoperative

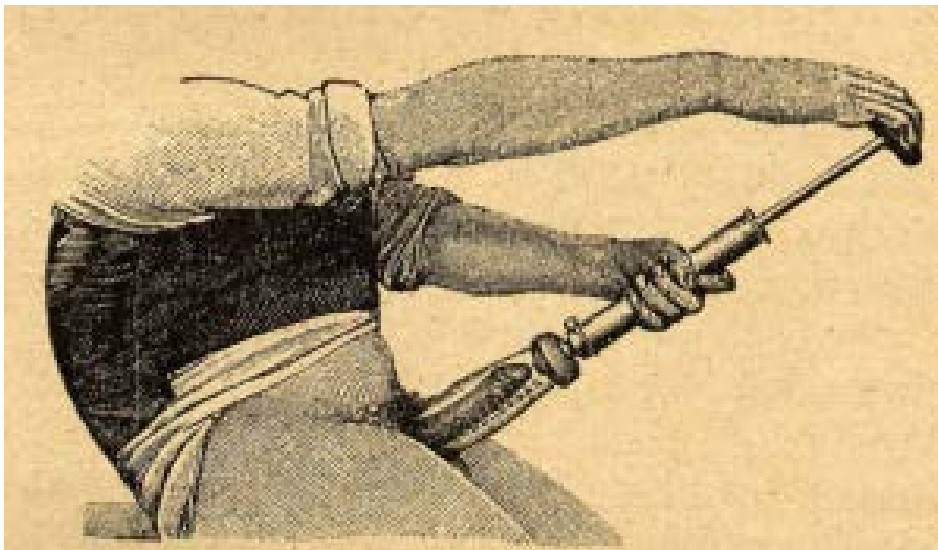
- New length measurement technique for IPP
- Non-corporal dilation technique
- Ventral phalloplasty
- Suspensory ligament release
- Suprapubic lipectomy
- Augmentation corporoplasty

Post-insertion

- MUSE
- PDE5 inhibitors
- Revision of IPP with larger cylinders after intracorporal stretching
- Delayed enhancement surgeries (ventral phalloplasty, suspensory ligament release, suprapubic lipectomy)

PREPARAZIONE PRE IMPIANTO:

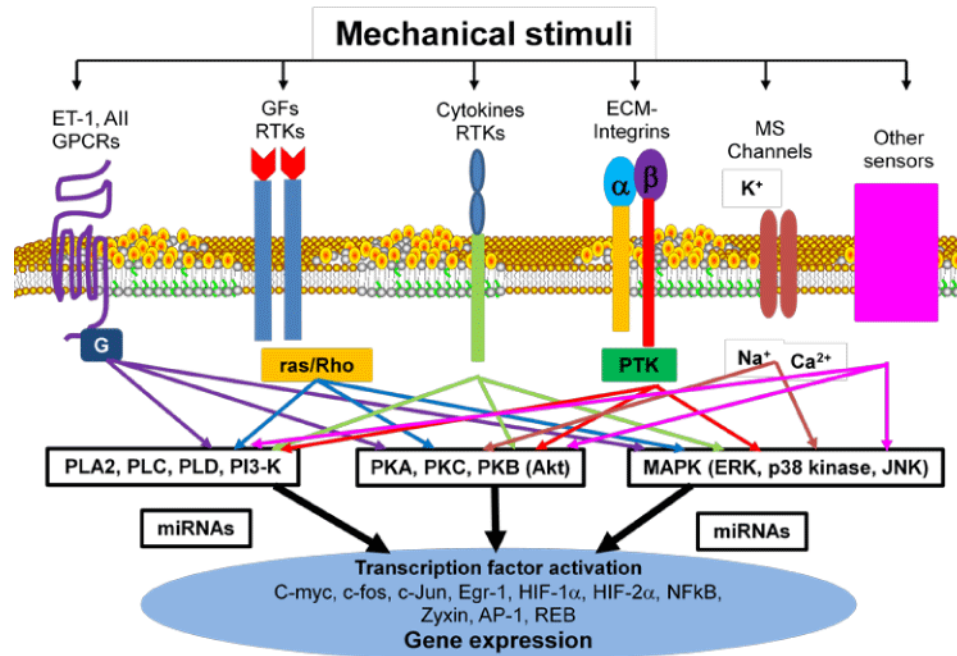
Obiettivo: portare il pene alla massima lunghezza possibile



Traction Therapy for Men with Shortened Penis Prior to Penile Prosthesis Implantation: A Pilot Study

Levine and Rybak

J Sex Med 2011;8:2112–2117



TRASDUZIONE MECCANICA CELLULARE (M. di Dupuytren)

- Aumento turnover cellulare
- Aumento della proliferazione cellulare
- **Azione da fattore di crescita**

Penile Traction Therapy for IPP Revision

Moskovic et al.

J Sex Med 2011;8:607–611

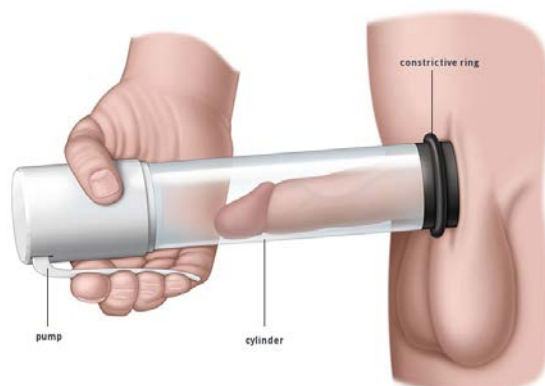
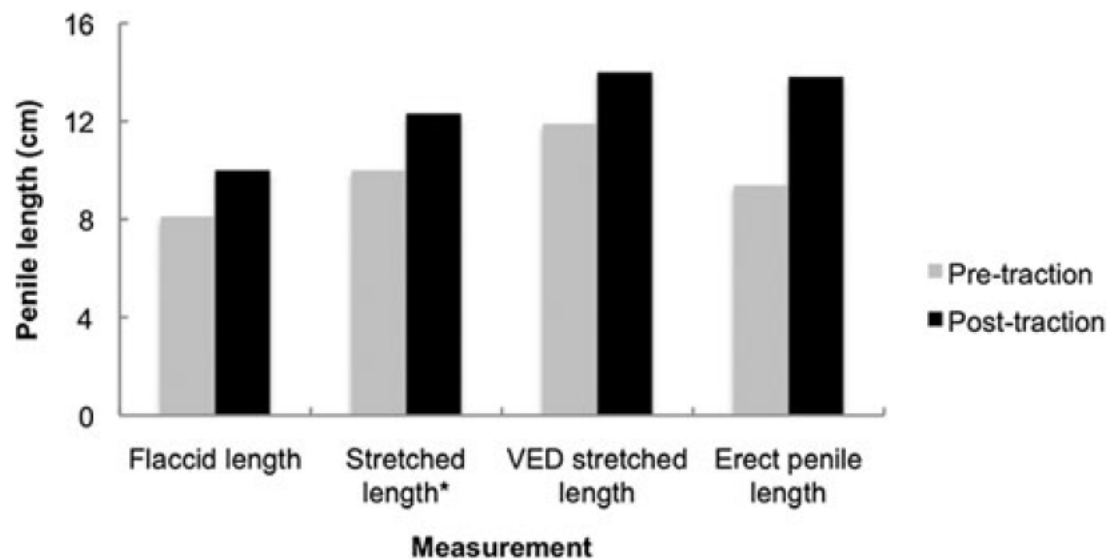
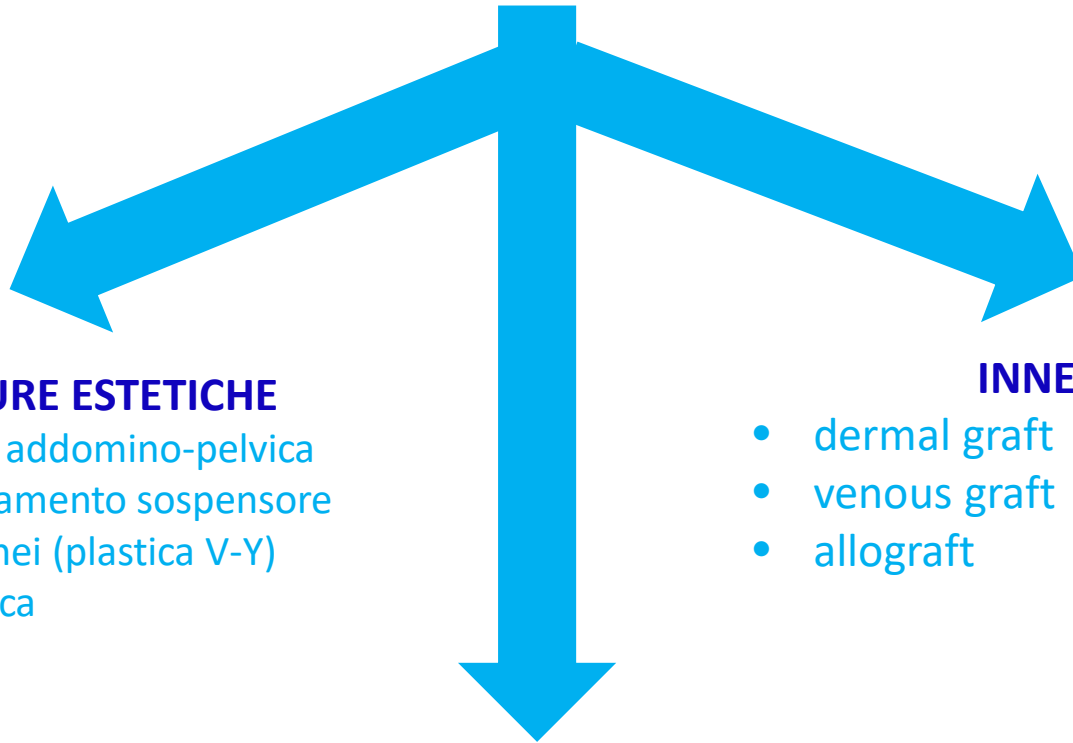


Figure 1 Changes in penile measurement recorded in the medical record and by patient report. VED stretched length was assessed by the patient and measured from the mons pubis to the tip of the glans under VED suction. * denotes that post-traction stretched length was measured preoperatively, whereas all other post-traction measurements were performed at least 4 weeks after surgery.



PROCEDURE INTRAOPERATORIE:



PROCEDURE ESTETICHE

- liposuzione addomino-pelvica
- Sezione legamento sospensore
- Lembi cutanei (plastica V-Y)
- scrotoplastica

INNESTI ALBUGINEI

- dermal graft
- venous graft
- allograft

IMPIANTO DI CILINDRI LUNGHI

- New Lenght Measurement Technique
NLMT

PROCEDURE INTRAOPERATORIE:

PROCEDURE ESTETICHE

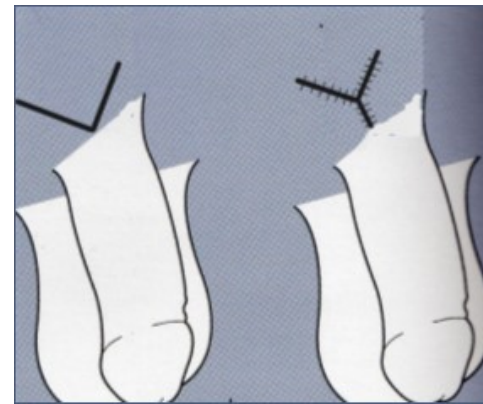
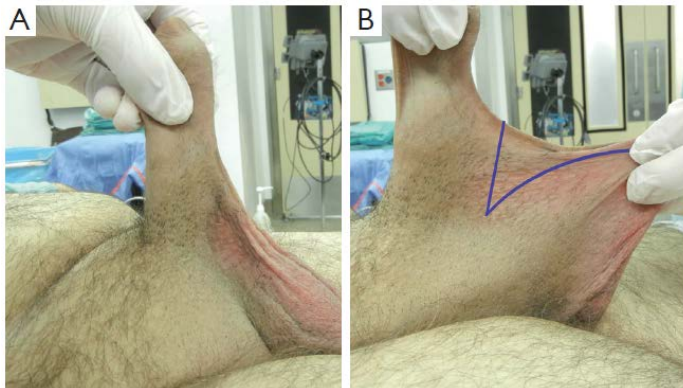
SEZIONE LEGAMENTO SOSPENSORE (+/- distanziatore)

LIPOSUZIONE ADDOMINO-PELVICA



SCROTOPLASTICA

PLASTICA V-Y





PROCEDURE INTRAOPERATORIE:

Cilindri XL - NLTM

Non utilizzabile in pazienti con PD!!!

Prevede:

- calibrazione AGGRESSIVA dei CC con dilatatori di Brooks 11
- Uso di CILINDRI DI CALIBRO E LUNGHEZZA MAGGIORE a RTE più piccoli

Table 1 Basic steps of the new length measurement techniques; for experienced prosthetic surgeons on uncomplicated primary IPP patients

Step 1: Distal dilation	If unable to get into the mid-glans of the penis, add 1 cm
Step 2: Proximal dilation	If unable to hit solid bone in the lateral crux, add 1 cm
Step 3: Bilateral length	If unequal by >2 cm, recheck, and go with the longer length
Step 4: Safety check	Must pass field goal test and distal fluid challenge for integrity



New Measuring Technique for Penile Prosthesis Implantation
Henry et al. J Sex Med 2011;8:2640–2646



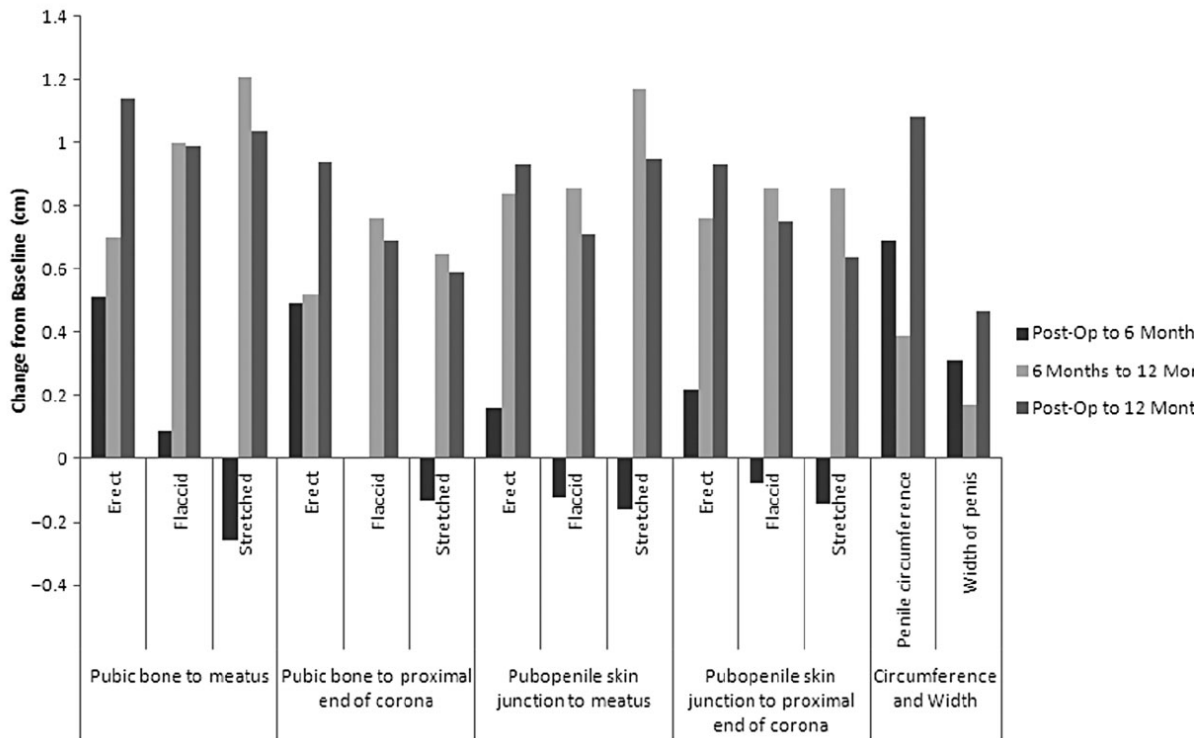
PROCEDURE INTRAOPERATORIE:

Cilindri XL - NLTM

Prospective Evaluation of Postoperative Penile Rehabilitation: Penile Length/Girth Maintenance 1 Year Following Coloplast Titan Inflatable Penile Prosthesis

Henry et al.

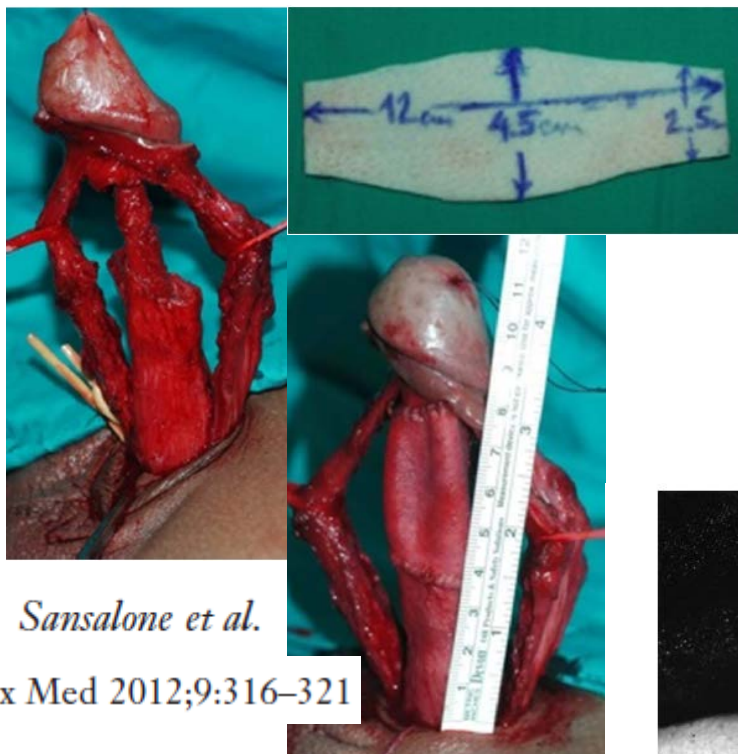
J Sex Med 2015;12:1298–1304



Daily inflation from the time of teaching at 6 weeks to 1 year is required, and a maximum **inflation protocol** for 1–2 hours was instituted for the last 6 months.

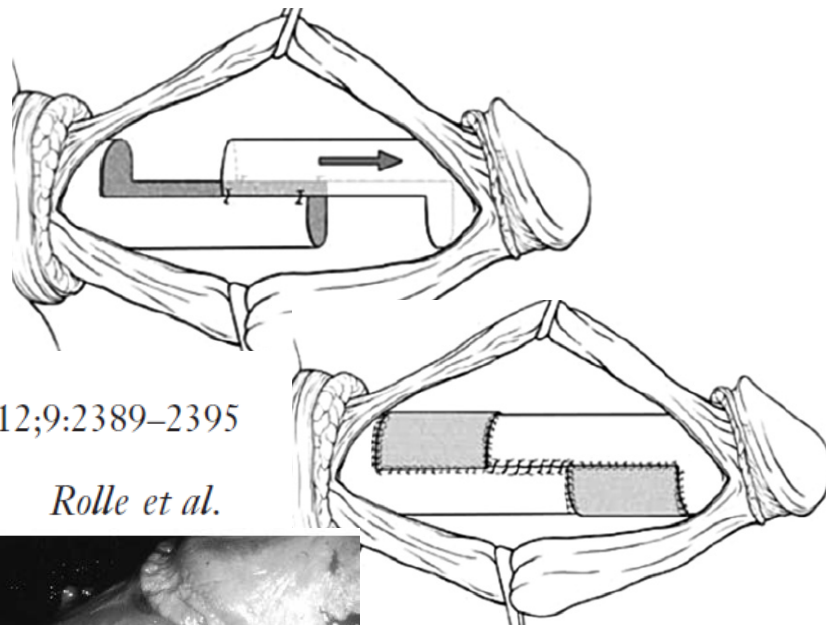
Penile measurements [...] suggest this regimen can **maintain or even increase girth and length** when compared with the patient's **immediate postoperative measurements**.

PROCEDURE INTRAOPERATORIE: INNESTI ALBUGINEI (Augmentation Corporoplasty)



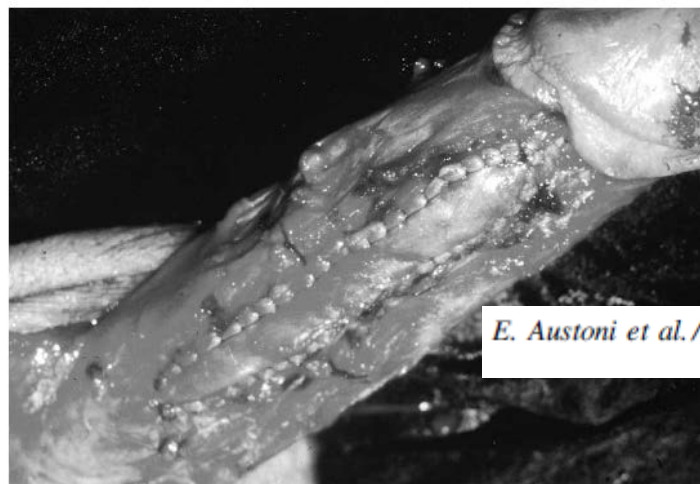
Sansalone et al.

J Sex Med 2012;9:316–321



J Sex Med 2012;9:2389–2395

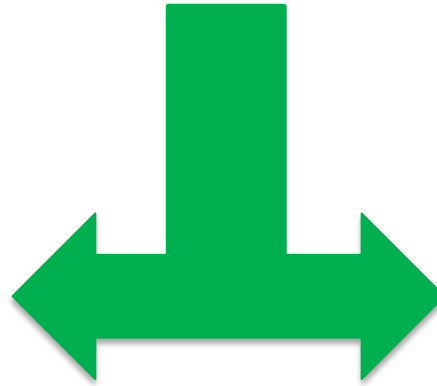
Rolle et al.



E. Austoni et al. / European Urology 42 (2002) 245–253

Fig. 4. Application of saphena's patches with a continuous suture to the albuginea.

POSSIBILITA' POST-IMPIANTO:



AUMENTO TURGORE GLANDULARE

- PDE5i
- ICI
- PGE intrauretrali

REVISIONE CHIRURGICA

- Prosthesis supersizing
- Interventi estetici
- corporoplastiche



POSSIBILITA' POST-IMPIANTO: Tecniche combinate

Supersizing the Penis Following Penile Prosthesis Implantation

J Sex Med 2010;7:2608–2616

Osama Shaeer, MD



Incisione circolare e
sezione del legamento
fundiforme



Lipectomia sovrapubica



Innesto del grasso in sede
sovralbuginea

POSSIBILITA' POST-IMPIANTO: Tecniche combinate

Supersizing the Penis Following Penile Prosthesis Implantation

J Sex Med 2010;7:2608-2616

Osama Shaeer, MD

Incisione circolare e sezione del
legamento fundiforme

+

Lipectomia sovrapubica

+

Innesto di derma e grasso

+

Escissione della cute in eccesso

+

Iniezione transglandulare
di Polyacrelamide gel





TAKE HOME MESSAGES

- ➔ **Alterazioni** reali o percepite **delle dimensioni del pene** possono portare a **sequele psicosociali anche gravi**
- ➔ La **prima causa riferita di insoddisfazione** dei pz nell'impianto di protesi peniena è **l'accorciamento percepito** della lunghezza del pene
- ➔ Il principale meccanismo psicologico che porta ad insoddisfazione nella IPP è rappresentato da **aspettative irrealistiche**, correggibili mediante **appropriato counseling pre-operatorio**
- ➔ L'accorciamento del pene può essere trattato mediante **accorgimenti pre-operatori, intra-operatori e persino post-operatori**