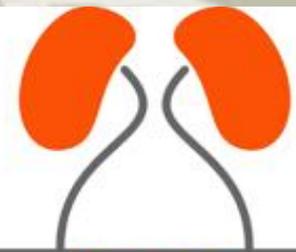


WORKSHOP DE CIRURGIA RECONSTRUTIVA UROLÓGICA

28 . NOVEMBRO . 2015

CENTRO HOSPITALAR DE LEIRIA (AUDITÓRIO)



**SERVIÇO
UROLOGIA**

Hospital Geral de
Santo António - Porto

Doença de Peyronie

Cirurgias de Encurtamento

Nuno Louro

INDICAÇÃO CIRÚRGICA

- **Doença estável (> 6 meses sem dor e curvatura estável)**
- **Compromisso funcional importante devido à curvatura e/ou disfunção erétil**
- **Placa extensamente calcificada**
- **Falência das terapêuticas conservadoras**

ALGORITMO CIRÚRGICO

Rigidez adequada

(com ou sem fármacos)

SIM

NÃO

Encurtamento

Curvatura $< 60^\circ$
Sem deformidade complexa
Sem efeito ampolheta ou
dobradiça
Perda previsível $< 20\%$ do
comprimento

Alongamento

Curvatura $> 60^\circ$
Deformidade complexa
Dobradiça instável
Pénis pequeno

Prótese peniana

PROCEDIMENTOS COM PLICATURA (ENCURTAMENTO)

- Técnica de Nesbit
- Técnica de Essed-Schroeder
- Técnica de Yachia
- Técnica dos 16 pontos

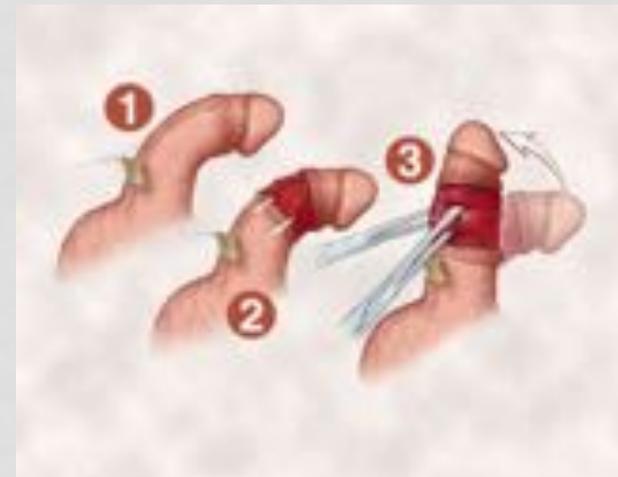
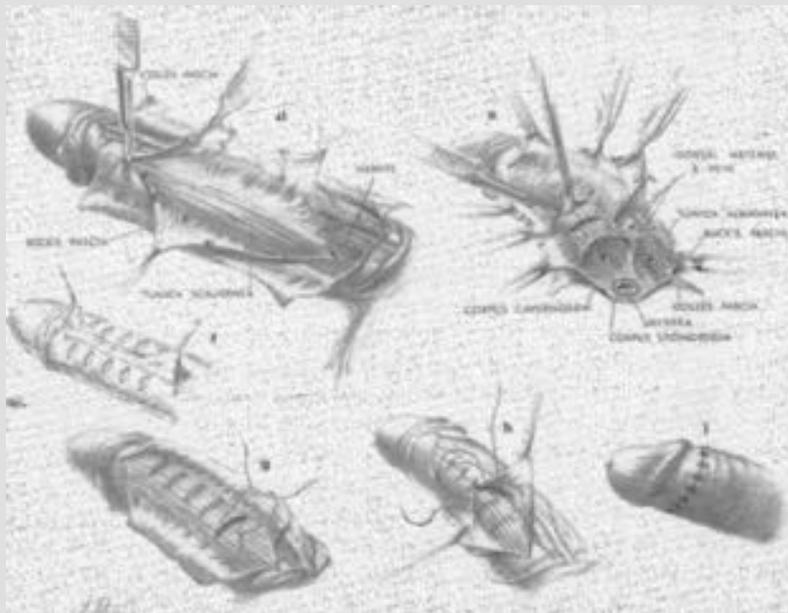


TÉCNICA DE NESBIT

CONGENITAL CURVATURE OF THE PHALLUS: REPORT OF THREE CASES WITH DESCRIPTION OF CORRECTIVE OPERATION

REED M. NESBIT

Vol. 167, 1187-1188, February 2002



TÉCNICA DE ESSED-SCHROEDER

Urology. 1985 Jun;25(6):582-7.

New surgical treatment for Peyronie disease.

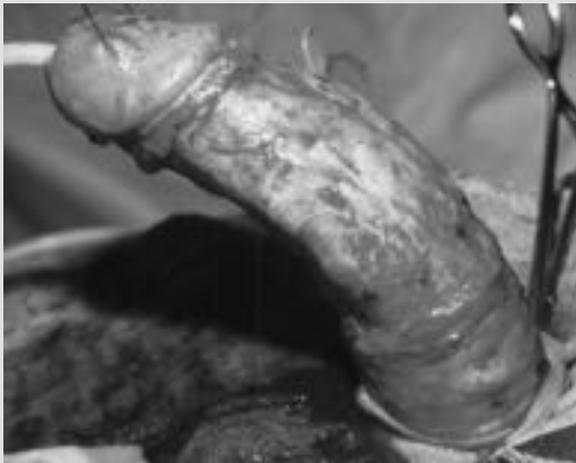
[Essed E](#), [Schroeder FH](#).



Long-term results of Essed – Schroeder plication by the use of non-absorbable GoretexTM sutures for correcting congenital penile curvature

International Journal of Impotence Research (2002) 14, 146-150

EW Hauck¹, T Bschleipfer², T Diemer¹, M Manning¹, I Schroeder-Printzen¹ and W Weidner^{1*}

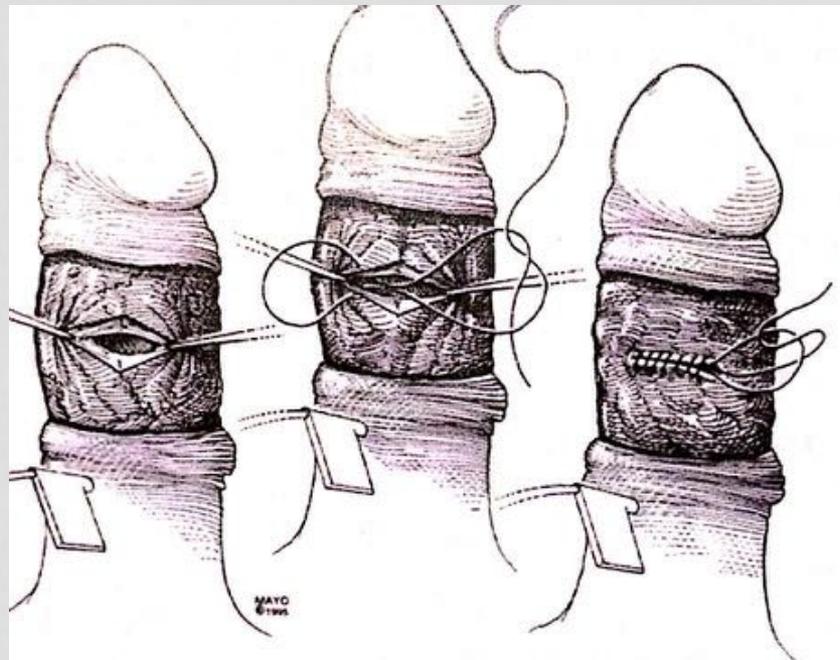


TÉCNICA DE YACHIA

J Urol. 1990 Jan;143(1):80-2.

Modified corporoplasty for the treatment of penile curvature.

[Yachia D.](#)



TÉCNICA DE YACHIA

Penile corporoplasty with Yachia's technique for Peyronie's disease: Single center experience with 117 patients

Urology Annals | Jul- Sep 2013 | Vol 5 | Issue 3

Ivo Lopes, Nuno Tomada, Pedro Vendeira

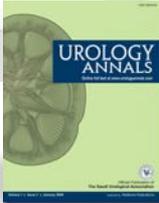


Table 2: Results of Yachia procedure in patients with PD

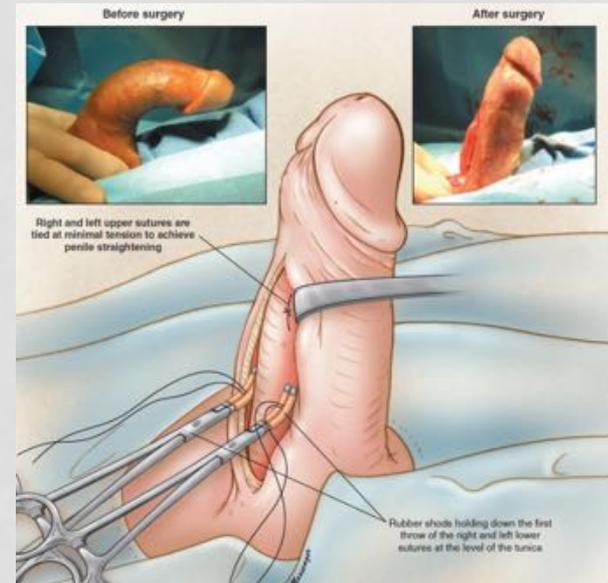
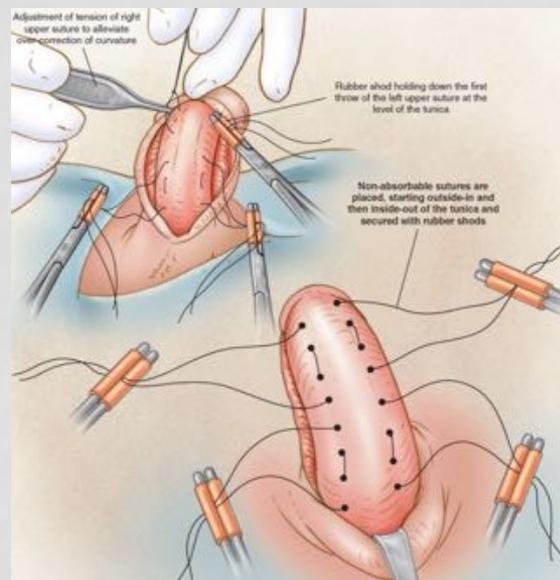
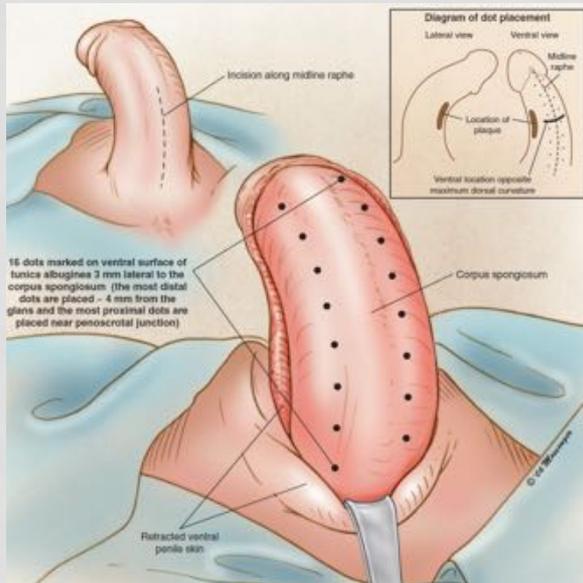
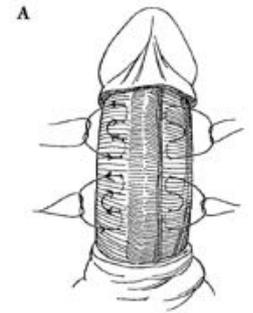
Authors	N	Mean follow-up (months)	Straintness (%)	ED (%)	Satisfaction (%)	Shortening (%) (cm)	Complications (%)
Lopes	117	14	50,9 complete straight 43,7 (<30°) 6,3 (recurrence causing SD)	12,5 (worse)	88,4 excellent 4,5 satisfied 7,1 poor	100 (0,5-5) 2,7 shortening causing SD	1,8 penile hypoesthesia 0,9 phimosis (require subsequent circumcision)
Daitch ^[1]	19	24,1	92,9 straight 7,1 (<20°)	7,1 (worse)	42,9 very satisfied 35,7 satisfied 7,1 neutral 14,3 dissatisfied	43 (no change) 57 (1,2-7,5)	-
Licht ^[2]	30	12	93 straight	0	83 satisfied	67 (1-2) 3,3 shortening causing SD	3 penile hypoesthesia
Sulaiman ^[3]	78	50	4,8 (recurrence)	23,1 (worse)	79,5 satisfied	40 concerned about shortening 7,7 unsatisfactory intercourse	3,8 penile hypoesthesia 3,8 unhappy with circumcision

TÉCNICA DOS 16 PONTOS

CORRECTION OF PENILE CURVATURE USING THE 16-DOT PPLICATION TECHNIQUE: A REVIEW OF 132 PATIENTS

Vol. 167, 2066–2069, May 2002

SHAHRAM S. GHOLAMI AND TOM F. LUE*



16-Dot Procedure for Penile Curvature

J Sex Med 2007;4:277–280

William O. Brant, MD,* Anthony J. Bella, MD,† and Tom F. Lue, MD†

Outcomes of surgical treatment of Peyronie's disease

BJU Int 2014; 113: 704-713

Culley C. Carson and Laurence A. Levine*



Procedure	Author, date	Patients, N	Mean follow-up, months	Surgical outcomes (%)						
				Straightening	Shortening	Postoperative ED	Sensory change	Pain	Satisfaction	
Tactical shortening procedures										
Nesbit	Speil et al., 2005 [16]	57	84.0	61.9	50.0	12.2 [†]	21.4	NR	76.2	
Tactical albuginea plication	Paez et al., 2007 [17]	76	70.5	42.1	NR	68.5	65.8	27.6	NR	
	Taylor et al., 2008 [18]	61	72.0	93.8	18.0	10.0	31.8	NR	84.0	
Yachtis procedure	Dalich et al., 1999 [19]	19	24.1	93.8	57.0	7.1	6.0	0.0	79.0	
	Rahman et al., 1997 [20]	26	22.0	73.1	73.1	23.1 [†]	19.2	NR	77.0	
Giammusso procedure	Giammusso et al., 2004 [21]	12 [†]	20.2	100.0	67.8	8.8	0.0	0.0	83.8	
Lemberger procedure	Lemberger et al., 1984 [22]	19	30.0	94.7	NR	33.3	5.3	0.0	78.9	
16- or 24-dot procedure	Gholami et al., 2002 [23]	13 [†]	6.0 to 30.0 (range)	93.0	41.0	NR	6.0	11.0	96.0 [†]	
Eisold-Schödel tactical plication	Van der Horst et al., 2004 [24]	28 [†]	30.0	100.0	74.0	35.7	28.0	14.5	78.0	
	Fründrich et al., 2006 [25]	31 [†]	22.0	81.8	19.8	3.8	6.5	26.8	81.8	
Penoscrotal plication procedure	Dugi et al., 2010 [26]	48 [†]	4.0 to 6.0 weeks	93.0	0.0	NR	0.0	6.0	93.0	
Tactical plication combined with plaque thinning with carbide bur	Ding et al., 2010 [27]	18	50.5	83.3	66.7	0.0	NR	NR	100.0	
Tactical lengthening procedures										
Dorsal graft	Qiang et al., 2010 [28]	6	101.8	50.0	17.0	Significantly lower than preoperative ED (<i>P</i> < 0.01)		13.0	NR	35.0
Tatoplast [†]		23	79.2	87.8	17.8					
SS		17	75.5	76.8	29.0					
Calaveric pericardial graft	Levine et al., 2003 [31]	40	22.0	98.0	33.0	30.0 [†]	2.0	NR	NR	
Dorsal flap	Simonato et al., 2010 [30]	22	95.0	63.6	NR	31.8	NR	NR	40.9	
TachoSil [™]	Hartmann et al., 2011 [29]	43	65.0	84.8	93.8	2.9 out of 4 EDEs		16.8	7.8	51.8
Penile prosthesis implantation										
Inflatable penile prosthesis implantation	Levine et al., 2010 [32]	98	49.0	4.8	3.8	NR	3.8	NR	84.0	
	Levine et al., 2000 [33]	46	39.0	100.0	7.0	0.0	9.0	NR	NR	
Soft, silicon, axially resistant, prosthetic cylinders	Austoni et al., 2005 [34]	80	113.0	100.0	NR	8.8	3.8	7.5	95.8	
Silicon soft dynamic antitraction prosthetic implantation	Grano et al., 2008 [35]	12	72.0	100.0	NR	100.0	NR	NR	91.0	
Transcorporal incision	Shaver et al., 2010 [36]	14	14.0	100.0	NR	100.0	0.0	NR	100.0	

Outcomes of surgical treatment of Peyronie's disease

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Yachtin procedure	Dutch et al., 1999 [19]	19	24.1	93.8	57.0	7.1	6.0	8	
	Rahman et al., 1997 [20]	24	22.0	73.1	73.1	23.1 [†]	19.2	N	
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Autoplast [†]		23	79.2	87.8	17.8				
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Calvaric pericardial graft	Levine et al., 2003 [31]	40	22.0	98.0	33.0	30.0 [†]	2.8	N	
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Penile prosthesis implantation									
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Transcorporal incision	Shaver et al., 2010 [36]	14	14.0	100.0	NR	100.0	0.0	N	

76.2
NR
84.0
79.0
77.0
83.8
78.9
96.0[†]
78.0
81.8
93.0
100.0
35.0
NR
40.9
51.8
84.0
NR
95.8
91.0
100.0

CONSENTIMENTO INFORMADO

- **Correcção incompleta/ recorrência**
- Diminuição do comprimento do pénis
- Diminuição da sensação sexual (orgasmo retardado)
- Disfunção eréctil

Examining Postoperative Outcomes after Employing a Surgical Algorithm for Management of Peyronie's Disease: A Single-Institution Retrospective Review

J Sex Med 2015;12:1474–1480.

Dimitri Papagiannopoulos, MD, Emily Yura, BS, and Laurence Levine, MD

Rush University Medical Center, Chicago, IL, USA



Patient reported residual bothersome curvature

Groups	n	%	P value	
TAP	12/69	17.4	TAP vs. PEG	NS
PEG	19/103	18.4	TAP vs. IPP	NS
IPP	6/62	9.7	PEG vs. IPP	NS
Overall	37/233	15.9	—	—

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Table 4 Postoperative outcomes

Mean change in stretched flaccid penile length (cm)

Groups	n	Mean (cm)	SD (cm)	P value	
TAP	68	0.44	1.3	TAP vs. PEG	$P < 0.01$
PEG	113	0.96	1.1	—	
Overall	181	0.77	—	—	



CONSENTIMENTO INFORMADO

- Correção incompleta/ recorrência
- Diminuição do comprimento do pénis
- **Diminuição da sensação sexual (orgasmo retardado)**
- Disfunção erétil

Surgical Correction of Peyronie's Disease via Tunica Albuginea Plication or Partial Plaque Excision with Pericardial Graft: Long-Term Follow Up

J Sex Med 2008;5:2221-2228

Frederick L. Taylor, MD, and Laurence A. Levine, MD



Sensation		
	TAP N = 61 (%)	PEG N = 81 (%)
As good or better	69	69
Diminished	31	31
Capable of orgasm	98	90
Experience delayed orgasm	26	23

CONSENTIMENTO INFORMADO

- Correção incompleta/ recorrência
- Diminuição do comprimento do pénis
- Diminuição da sensação sexual (orgasmo retardado)
- **Disfunção eréctil**

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J Sex Med 2015;12:1474–1480.

Dimitri Papagiannopoulos, MD, Emily Yura, BS, and Laurence Levine, MD

Rush University Medical Center, Chicago, IL, USA



Patient reported satisfaction with penile rigidity

Groups	n	%	P value
TAP	45/68	66.2	TAP vs. PEG
PEG	84/116	72.4	—
Overall	129/184	70.1	—

Surgical Correction of Peyronie's Disease via Tunica Albuginea Plication or Partial Plaque Excision with Pericardial Graft: Long-Term Follow Up

J Sex Med 2008;5:2221-2228

Frederick L. Taylor, MD, and Laurence A. Levine, MD



Rigidity		
	TAP N = 61 (%)	PEG N = 81 (%)
As good or better	81	68
Worse	19	32
Adequate for coitus +/- PDE5 inhibitors	90	79

CONCLUSÕES

- **Tratamento potencialmente eficaz**
- **Indicado se doença estável e a curvatura impede a normal função**
- **Taxas de satisfação baixas se doentes com expectativas irreais**
- **Taxas de satisfação elevadas se doente bem informado, e escolha da cirurgia certa para o doente certo**

There has to be a better way than this!

