Philosophy of pelvic floor reconstruction

the Rathers

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TAJEV









There is no condition or disease that cannot be made worse by surgery !



10% of all women need surgical repair of pelvic floor disorders (J.O.L.DeLancey 2005)

there are app. 80 000 surgical interventions for incontinence or prolapse in Germany per year

app.30% are recurrencies

increasing number of revisions of complications – increase in legal cases

FDA – warning and recommendation

What are the expectations of our patients?





57 % are happy with a 60% improvement without side effects

38 % accept a minor procedure with a 85 % success rate and a 2% risk of side effects (e.g. self catheterisation)

23 % accept a major operation with a 85 % success rate and a 2% risk of side effects (e.g. self catheterisation)



"I'M SORRY POCTOR, BUT AGAIN I HAVE TO DISAGREE."



indication for surgery should not be satisfaction of the aesthetic views of the surgeon, how a vagina should look like !

Surgical concepts in stress urinary incontinence



- replacement of pubourethral fixation
- tension-free tapes
- repositioning of the bladder neck into the "abdomino-pelvic" balance (pressure transmission)
- colposuspension,trad.slings
- Improvement of coaptation
- intraurethral injection



Int Urogynecol I (2010) 21.1511-1515



Department of Health – Hospital Episode Statistics Ward & Hilton, ICS 2006

BCS = Burch colposuspension (item no. 37044). NOS = minurethral sing (item no. 35577). Item nos. 35002, 37042. † Item no. 37043. ‡ Item no. 37339.



the profit of companies is/was unbelievable ...

Fast-food surgery many types easy to get not necessarily good for your health







PB Kaplan et al. Neurourology and Urodynamics 2011; 30:126-132

muscle- and nerve-density in healthy women and women with prolapse





TABLE 1

Recent trainees' and program directors' perceptions of residents' abilities to independently perform procedures after graduation

Ability to perform "on own" Recent graduate, **Program director,** % (n = 129) P value^a Procedure % (n = 132) Pubovaginal sling^b .005 13 28Retropubic midurethral sling 30 63 < .001Transobturator midurethral sling 13 29 .003 Urethropexy^b 33 62 < .001Intraoperative cystoscopy^b 72 88 .001 Cystotomy repair 53 79 < .00128 56 Vaginal uterosacral vault suspension^b < .00133 .126 Sacrospinous ligament suspension 24 26 31 Colpocleisis .42 Abdominal paravaginal repair^b 33 40 .22 Posterior colporrhaphy 77 90 .006 Anterior colporrhaphy^b 79 89 .025 17 21 .397 Rectovaginal fistula repair 19 32 .027 Anal sphincteroplasty Single-channel cystometry^b 38 57 .003 Multichannel urodynamics 19 .761 17 Pessary fitting^b 89 .025 79

^a χ^2 test of association.

^b Procedures for which the AUGS resident education objectives recommend the highest level of competence, "does."

Kenton. How well are we training residents in female pelvic medicine and reconstructive surgery? Am J Obstet Gynecol



ale y?

ntly perform" nearly all listed RPS." Only 79% of could do a vaginal hysterectomy "on their own," PDs (P = .002).

erceptions of recently trained OGs of their abilire low and inconsistent with PD perceptions or crepancy warrants further investigation to clarify eassess educational goals or improve surgical

education, resident educational objectives,

e pelvic medicine and reconstructive surgery? Am J

anti-incontinence surgery from classics to pop and rock etc...





HIP-HOP – tissue engineering, injectables , Proact, radio frequency, IncontiLase, stem cells...

ROCK – TVT, mesh and mod.

POP – Burch, trad.slings

CLASSICS

– vaginal repairs ,
 Amreich-Richter







Close correlation between experience of the surgeon and the frequency of complications



Universitätsmedizin

same problem with slings and meshes...



The ensuing mesh kits that came on the market were attractive due to the simplicity involved in the placing of these, and—to put it bluntly—incompetent surgeons found themselves suddenly looking rather competent!





Int Urogynecol J (2013) 24:1265–1269 DOI 10.1007/s00192-013-2090-2

ORIGINAL ARTICLE: EDITORS' CHOICE

Seventeen years' follow-up of the tension-free vaginal tape procedure for female stress urinary incontinence

C. G. Nilsson · K. Palva · R. Aarnio · E. Morcos · C. Falconer

Received: 28 January 2013 / Accepted: 5 March 2013 / Published online: 6 April 2013 © The International Urogynecological Association 2013



urinary leakage at the 12-month follow-up

which direction ? short ? long ?

TVT P / TVT R





classical case -

wrong indication and wrong technique





are alloplastic slings really the solution for all and everything ?





Urologe [A] 2001 · 40:292-299 © Springer-Verlag 2001

E. Petri

Retropubic cystourethropexy for the treatment of female sphincter incompetence

Abstract

Colposuspension has emerged as the "golden standard" for the surgical treatment of female urinary incontinence. With a lateral

and tangential approach for the placement of the sutures, the rate of obstructed micturition and de novo urgency is low. Success rates of 85% for primary and 70–75% for recurrent incontinence can be achieved. In competition with the tension-free vaginal tape (TVT) procedure, colposuspension will remain the first choice for all laparotomies necessitated by other pathologies, in cases of paravaginal herniation as the cause of prolapse, and in women with unstable bladders caused by anatomical defects. The endoscopic approach has not yet gained general acceptance.

modified colposuspension - our technique





since 1978 > 4500 mod.colposuspensions



Int Urogynecol J DOI 10.1007/s00192-012-1720-4

ORIGINAL ARTICLE

What do we do when a midurethral tape fails? Rediscovery of open colposuspension as a salvage continence operation

Ilias Giarenis · Heleni Mastoroudes · Linda Cardozo · Dudley Robinson

Received: 2 October 2011 / Accepted: 9 February 2012 © The International Urogynecological Association 2012 hypotonic urethra , ISD "frozen urethra", "tethered urethra", fistulae after alloplastic slings





intraurethral injection



9)



"new" techniques...

Culture

stem cells

proact

IncontiLase



Injection

HF collagen-modulation

Age specific rates of prolapse surgery within five years of hysterectomy

2500 m m

erus ...



Within 5 years after hysterectomy

AUGS PAPERS



Pelvic organ prolapse surgery following hysterectomy on benign indications

Daniel Altman, MD, PhD; Christian Falconer, MD, PhD; Sven Cnattingius, MD, PhD; Fredrik Granath, PhD

OBJECTIVE: The objective of the study was to determine the risk for pelvic organ prolapse surgery attributed to hysterectomy on benign indications

STUDY DESIGN: In a nationwide longitudinal study, 162,488 women with hysterectomy from 1973 through 2003 were matched to 470,519 population-based control women. Hazard ratios (HR) with 95% confidence interval (CI) were calculated using Cox regression analyses.

RESULTS: In all, 3.2% (n = 5270) of women with hysterectomy had pelvic organ prolapse surgery, compared with 2.0% (n = 9437) in nonhysterectomized controls. Compared with nonhysterectomized controls, the overall HR for prolapse surgery was 1.7 (95% Cl, 1.6 to

1.7) with the highest risks observed in women having had a vaginal hysterectomy (HR 3.8; 95% CI, 3.1 to 4.8). Compared with hysterectomized women with no vaginal births, the HR for prolapse surgery was 2.0 (95% CI, 0.9 to 4.1) among women with 1 vaginal childbirth and 11.3 (95 % CI, 6.0. to 21.1) among women with at least 4 vaginal births.

CONCLUSION: Hysterectomy is associated with an increased risk for subsequent pelvic organ prolapse surgery with multiparous women at particular risk.

Key words: cohort, hysterectomy, prolapse, risk

Cite this article as: Altman D, Falconer C, Cnattingius S, et al. Pelvic organ prolapse surgery following hysterectomy on benign indications. Am J Obstet Gynecol 2008;198:572.e1-572.e6.

What is unimportant ! the degree of prolapse cms in POPQ singleton urodynamic parameters

> What is important? subjective complaints of the patient tissue quality (urogenital aging ?) paravaginal defect associated pathology

surgical techniques for correction of prolapse



A. abdominal

- 1. sacrocolpopexy
- robotic-assisted
 laparoscopic sacrocolpopexy
- 3. fixation of the fascia at the rectus abdominis (Williams Operation)

B. vaginal

- 1. sacrospinous fixation
- 2. alloplastic meshes
- 3. Ileococcygeal fixation
- 4. levatorplasty
- 5. colpocleisis (Le Fort , Döderlein)







Actual Cochrane Review anterior compartment +/- Mesh

- 40 studies (RCT) with 3954 patients
- With mesh better anatomical reconstruction
- BUT: 10 % mesh-erosions
- AND: there is no difference in subjective outcome, quality of life, de novo dyspareunia, stress urinary incontinence and rate of re-operations

Maher et al, Cochrane Database 2010, Issue 4. Art. No.: CD 004014

Posterior compartment



- Posterior repair with autologous tissue without insertion of a mesh has a success rate of 86% and remains a good option in the primary situation (LOE 1b).
- Actually there is no reason to use non-absorbable meshes routinely in primary vaginal prolapse surgery in the posterior compartment, taking in account the higher complication rates (LOE 2).

AWMF-guidelineregistry Nr. 015/006



vaginal apex vaginal approach



Sacrospinous fixation (without alloplastic material)Success rates apex:92%Failure anterior compartment (cystocele):21%Failure posteriopr compartment (rectocele):6%

Success rate apex

96%

AWMF-guideline registry | Nr. 015/006

sacrospinous fixation for prolapse



(n= 1483 /10 yrs.)







robotic-assisted laparoscopic sacrocolpopexy





AND WHAT IS THE MESSAGE ? HOW ABOUT THE MESSAGE...?!

Own concept

Standing and States and the state

- SUI without serious descent : TVT/TOT
- SUI with paravaginal defect: colposuspension

- primary prolapse : native tissue repair
- prolapse : sacrospinous fixation
- recurrent prolapse : abdominal colpopexy
- multiple recurrency : mesh
- SUI + prolapse : two step procedure
- multiple failures : intraurethral injection

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training for the pelvic floor musculature



