Prolaps &

&

ODS

Disclosure belangen spreker

(potentiële) belangen

geen

Niels Wijffels Regiomaatschap Heelkunde Midden-Nederland Zuwe Hofpoort Ziekenhuis ,Woerden



Constipatie

ODS

Frequentie Incomplete evacuatie ondanks soepele ontlasting

Persen

Moeite met ontlasten

STC

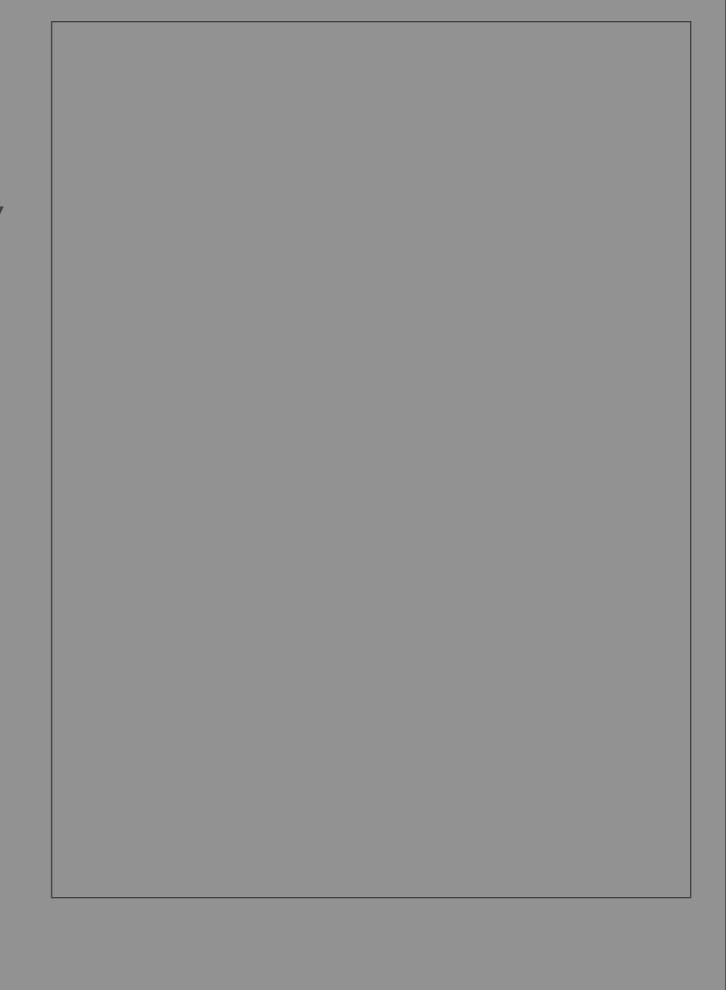
Frequentie
Harde ontlasting
Buikpijn/
opgeblazen gevoel



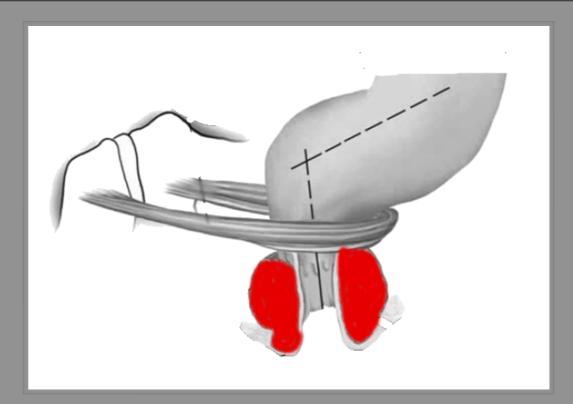
Obstructed Defecation (Syndrome)

- · Beschrijving van klachten, geen pathologische entiteit
- Geassocieerd met prolaps (kip & ei)
- Meerdere oorzaken

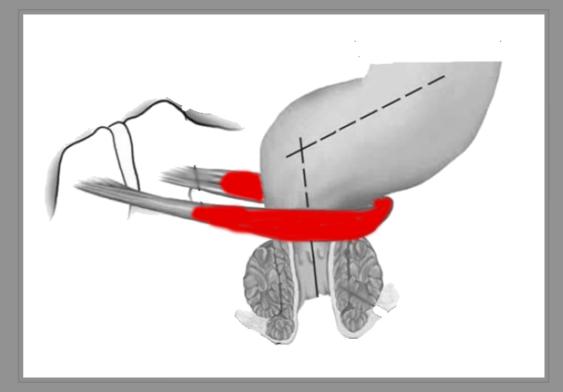
- Anismus/ Pelvic floor dyssenergy
- "Prolaps"
 - Intussusceptie Rectum
 - Rectocele
 - Enterocele
- (RIP/ stenosis)



- Anismus/ Pelvic floor dyssenergy
- "Prolaps"
 - Intussusceptie Rectum
 - Rectocele
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- (RIP/ stenosis)

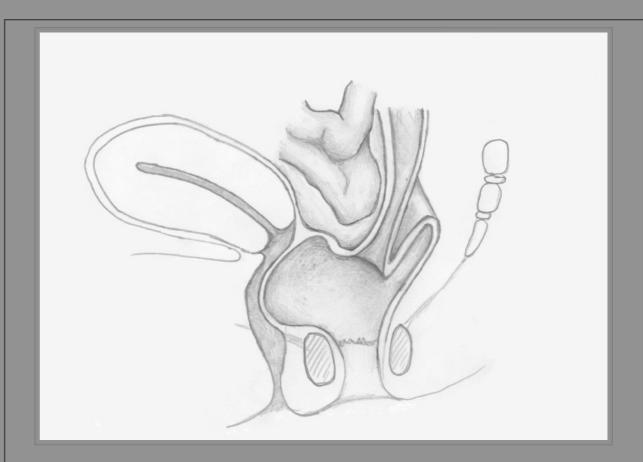


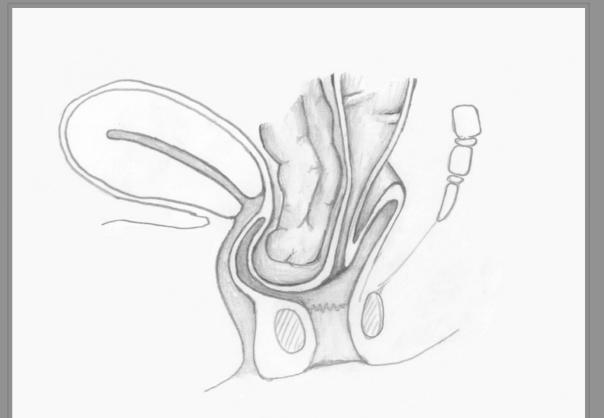
Type a



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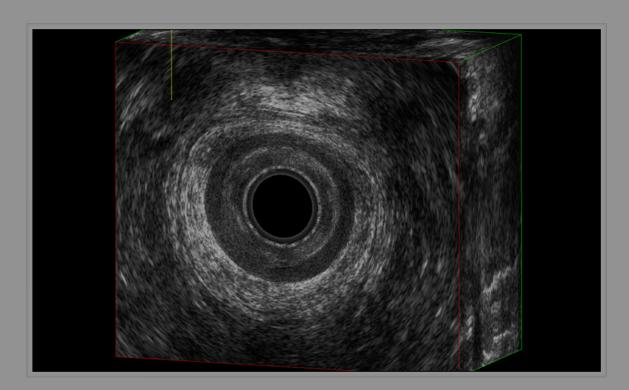
- Anismus/ Pelvic floor dyssenergy
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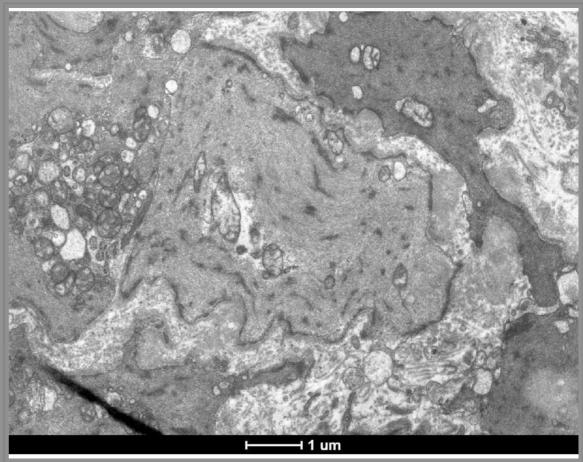






- Anismus/ Pelvic floor dyssenergy
- "Prolaps"
 - Intussusceptie Rectum
 - Rectocele
 - Enterocele
- (RIP/ stenosis)
- Rariteiten
 - Myopathie IAS
 - Bezoar
 - Duplicatie-cyste rectum







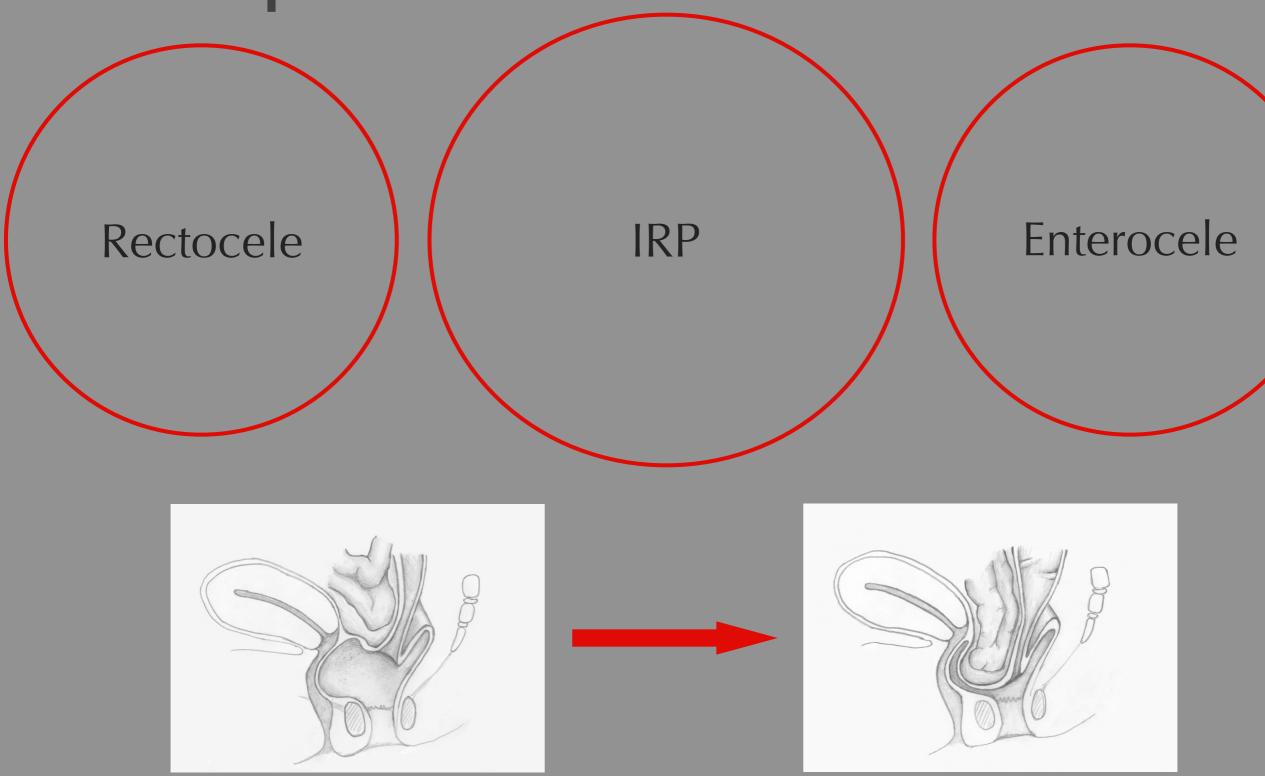
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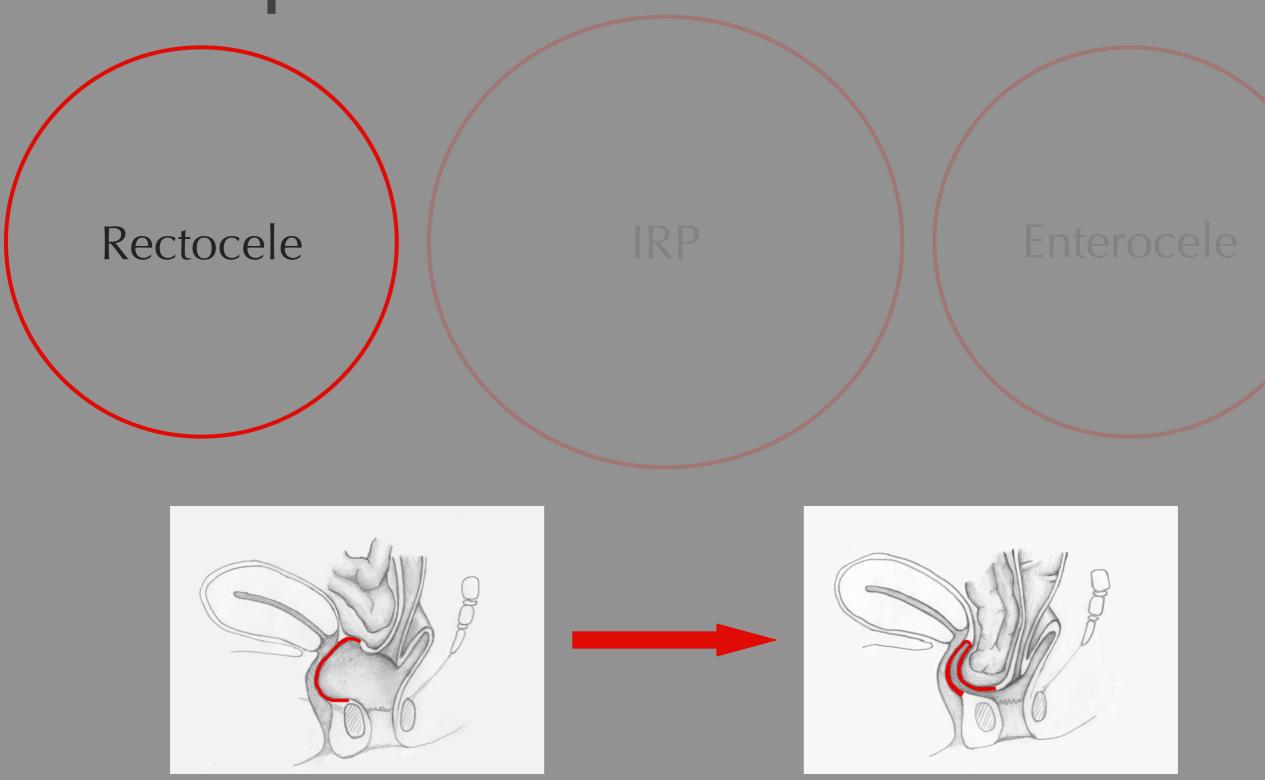


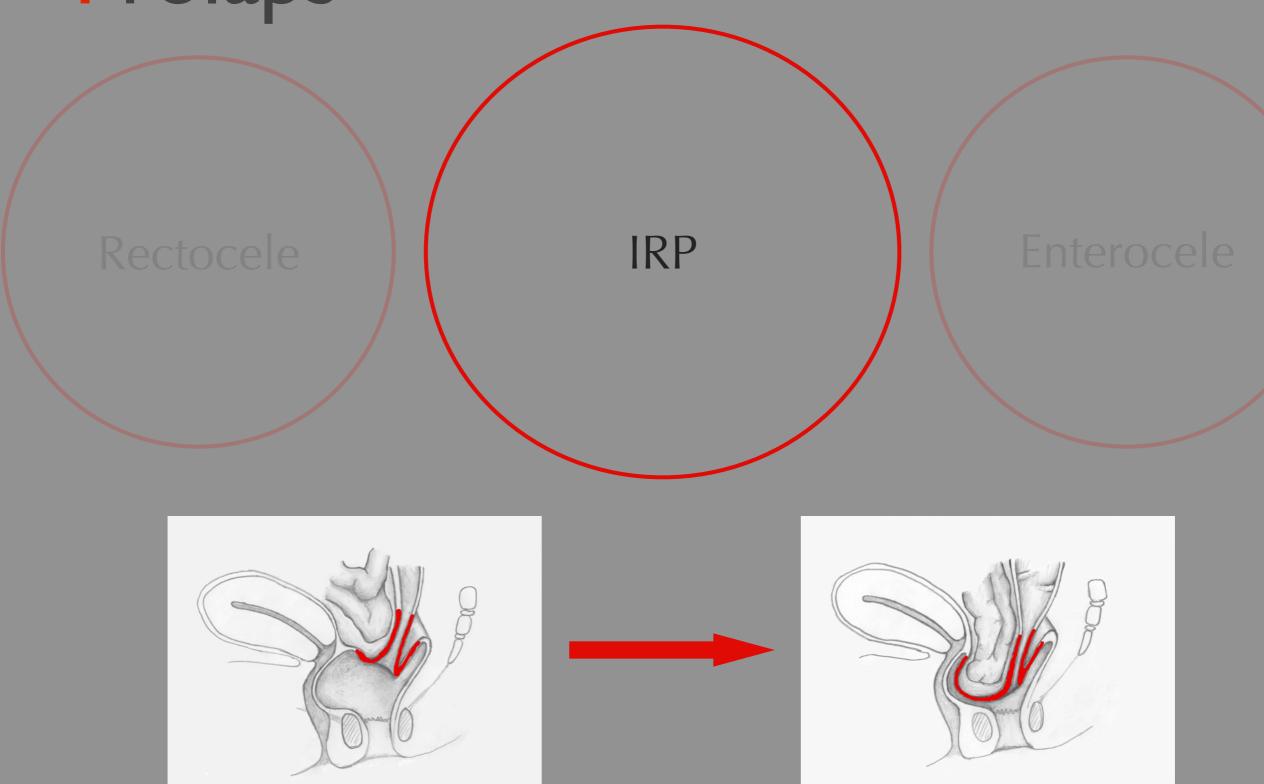
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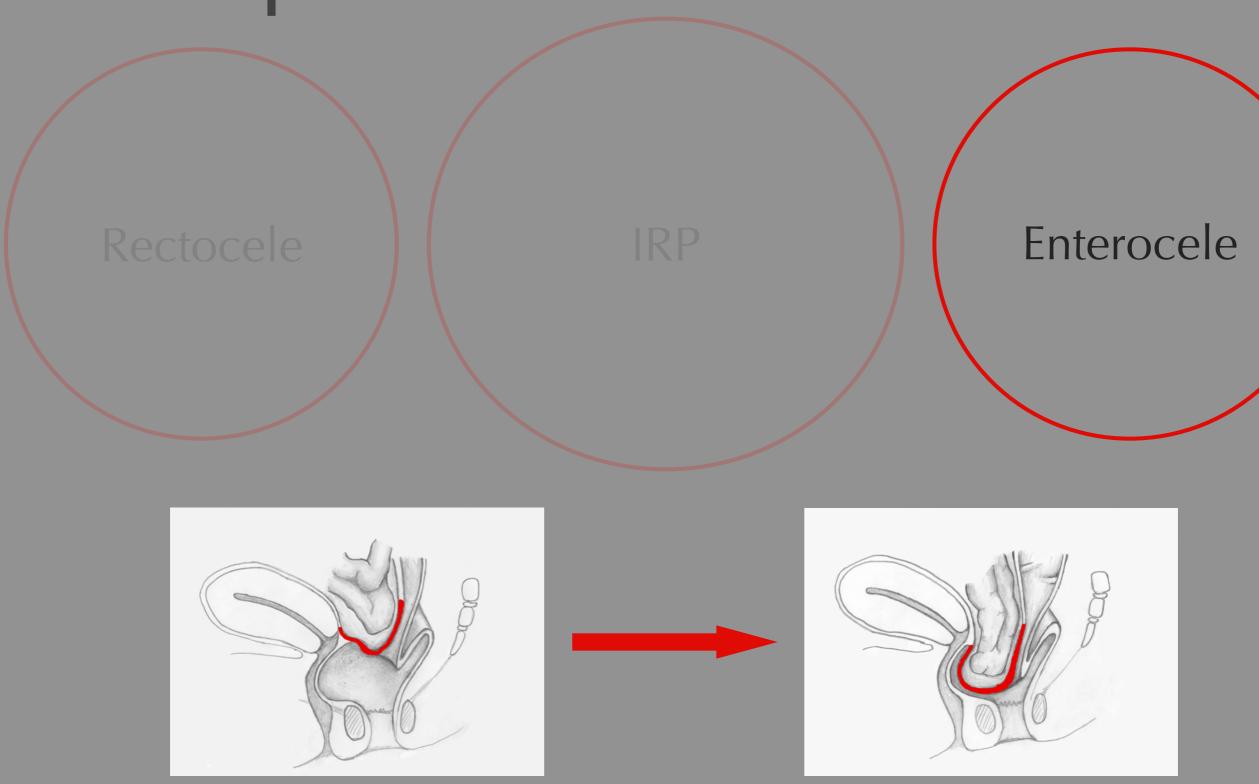




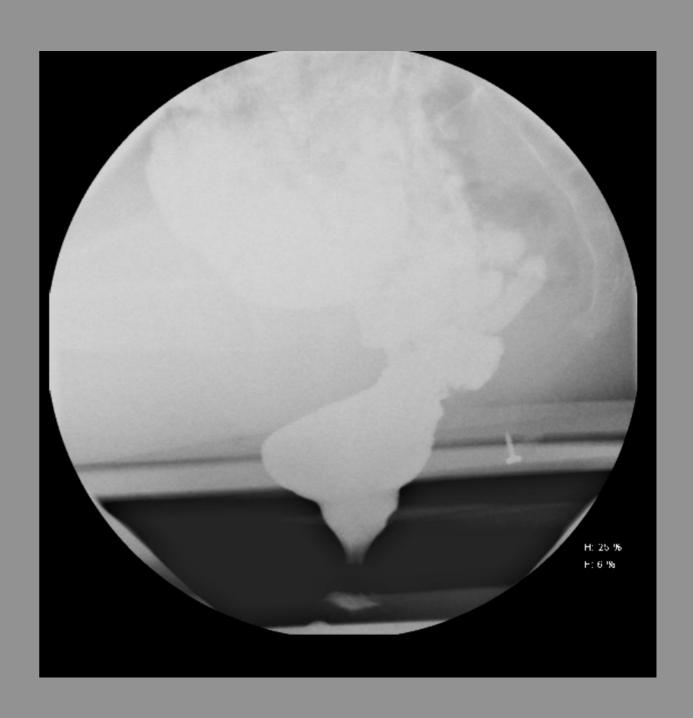




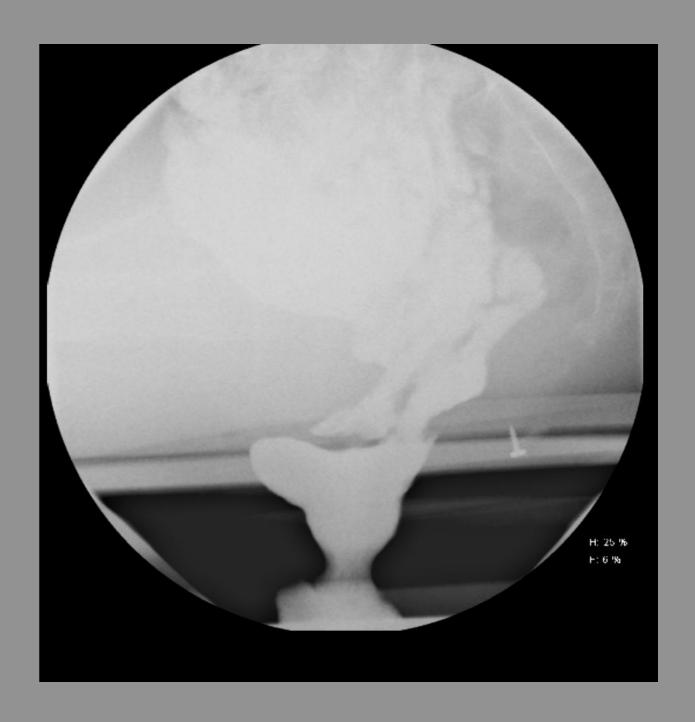




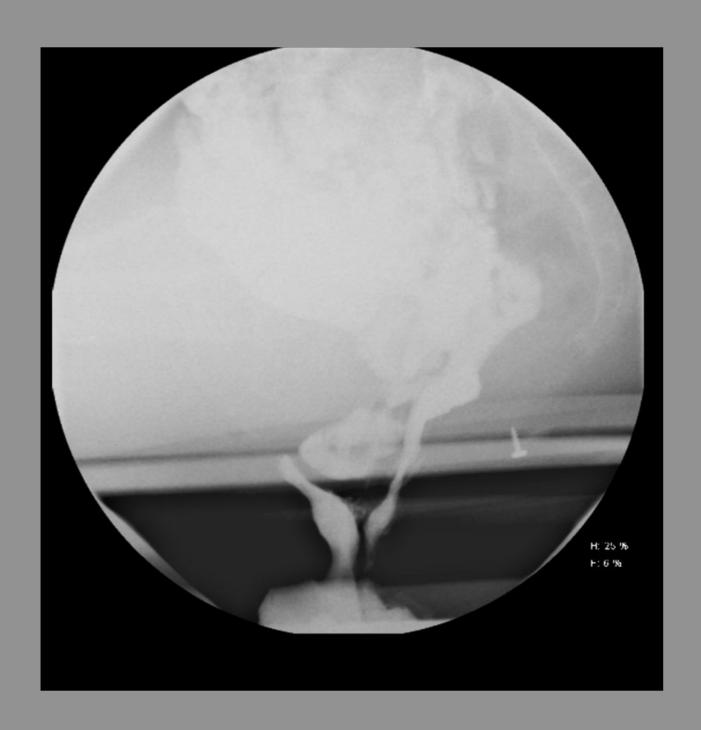


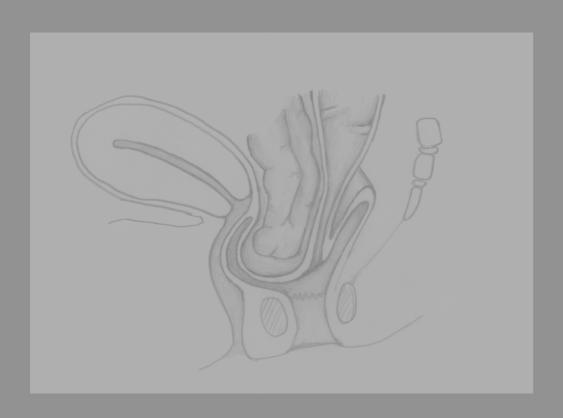


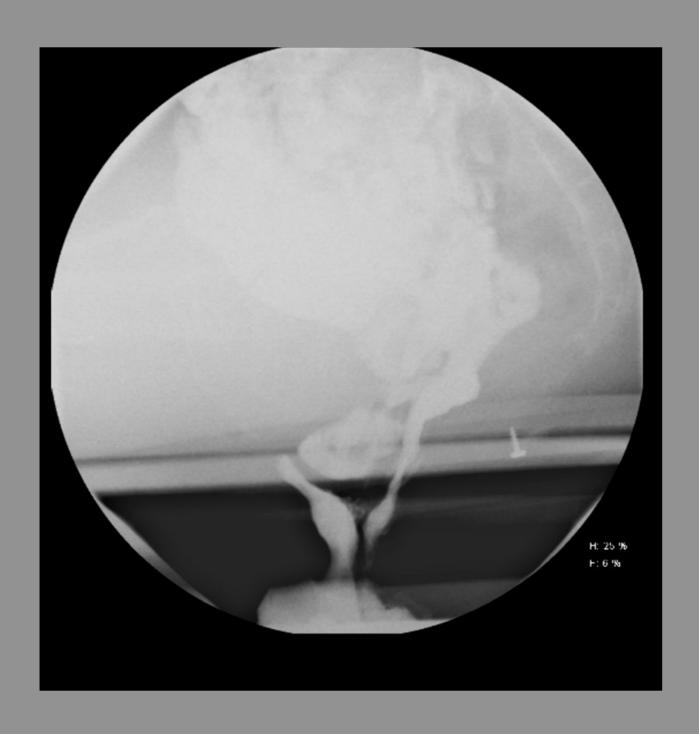


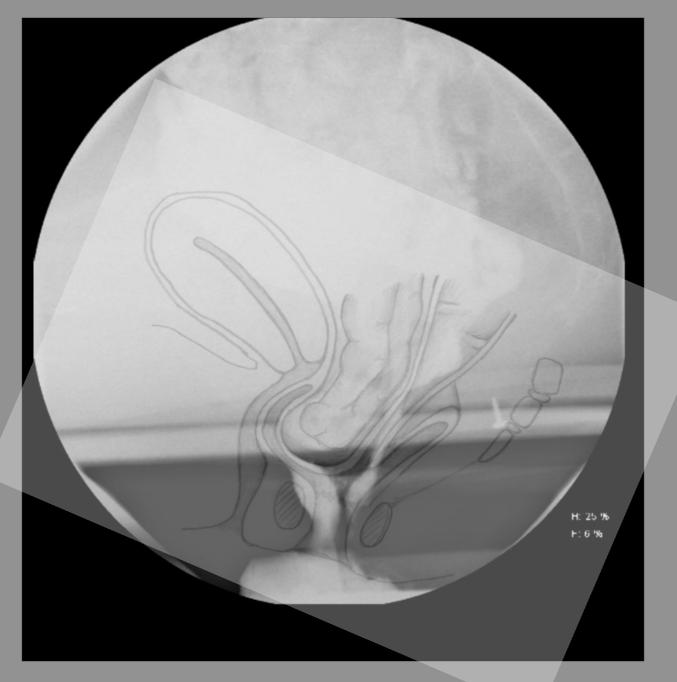






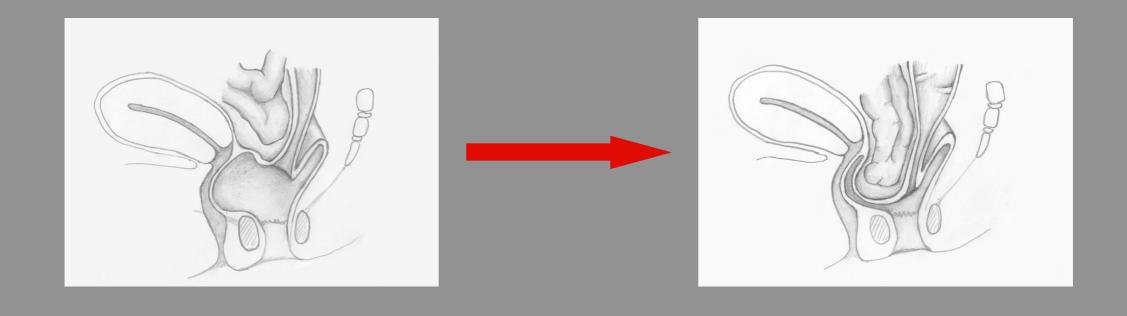




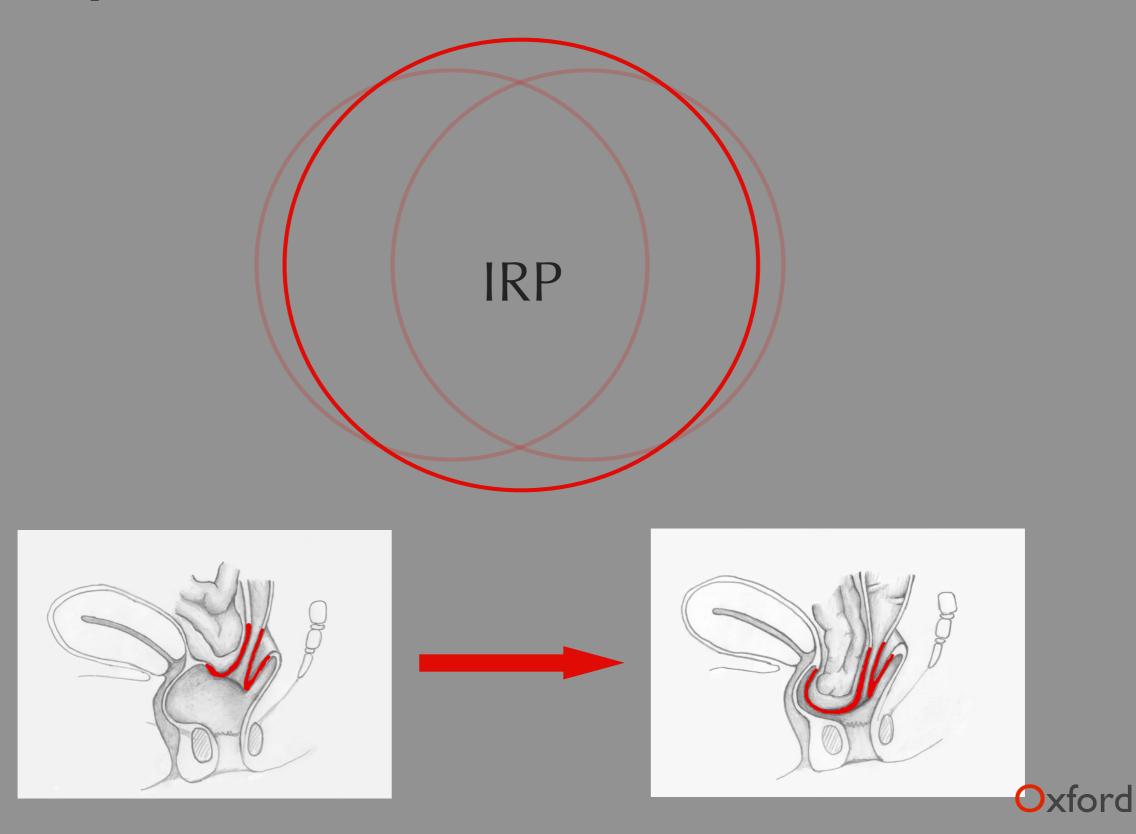


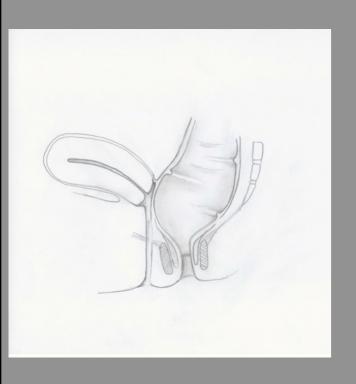
Enterocele Rectocele **IRP**

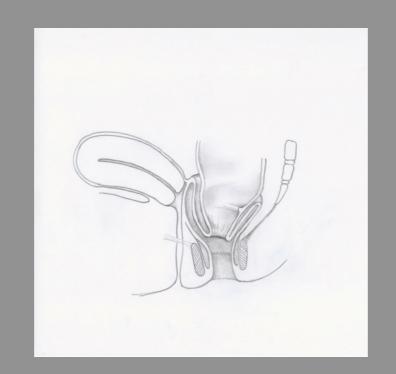


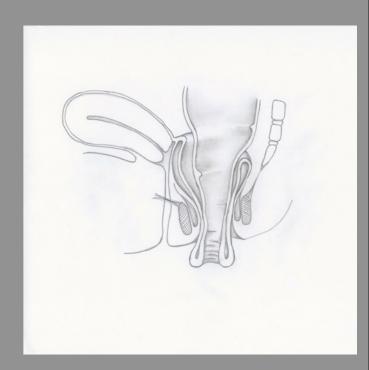


Pars pro toto





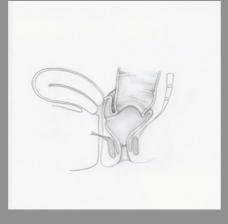


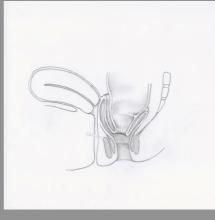


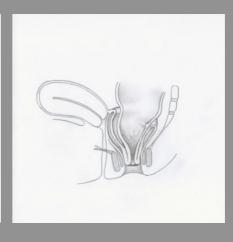


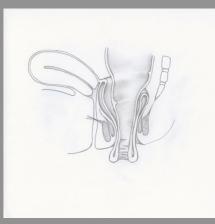












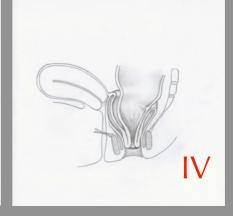


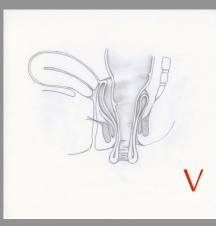














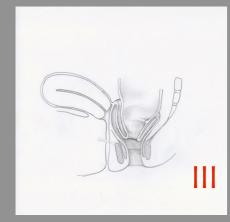


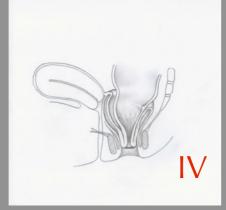


Recto-rectal Intussusception (RRI)

I (high rectal) Descends no lower than proximal limit of the rectocele

II (low rectal) Descends into the level of the rectocele, but not onto sphincter / anal canal

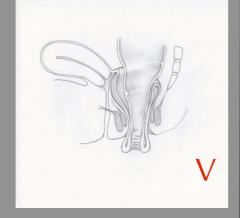




Recto -anal Intussusception (RAI)

III (high anal) Descends onto sphincter / anal canal

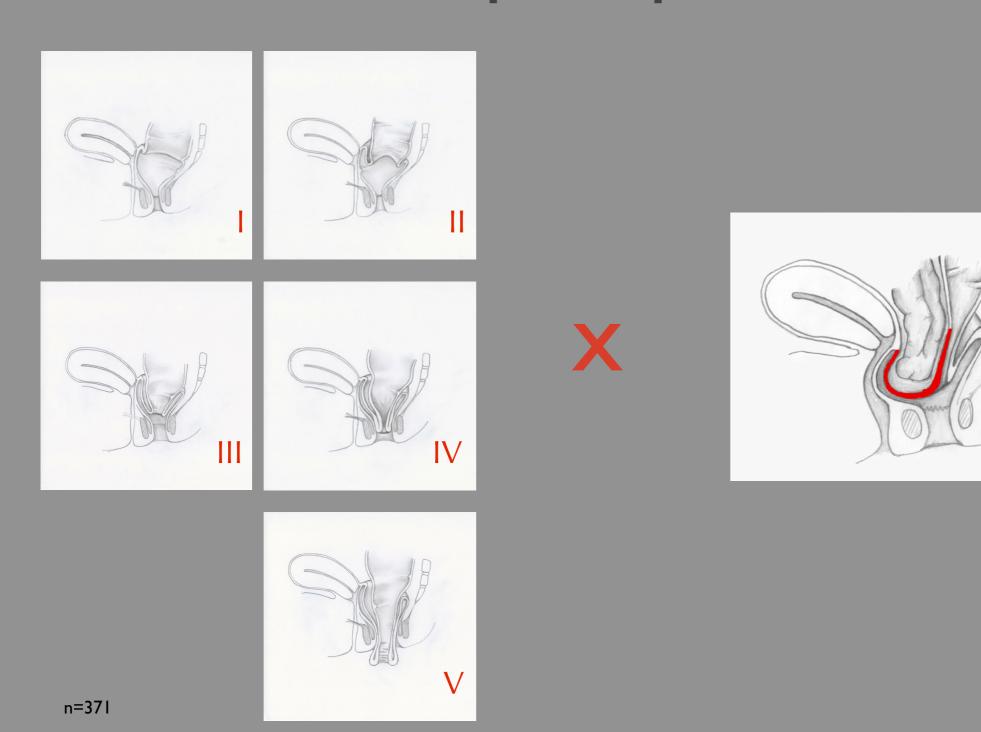
IV (low anal) Descends into sphincter / anal canal



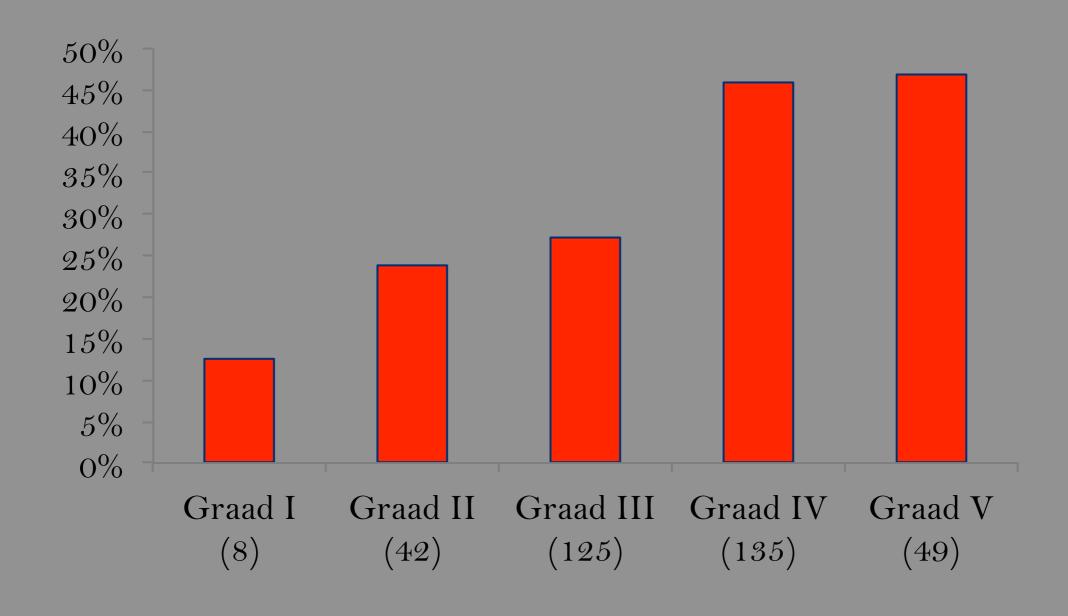
V External Rectal Prolaps (ERP)



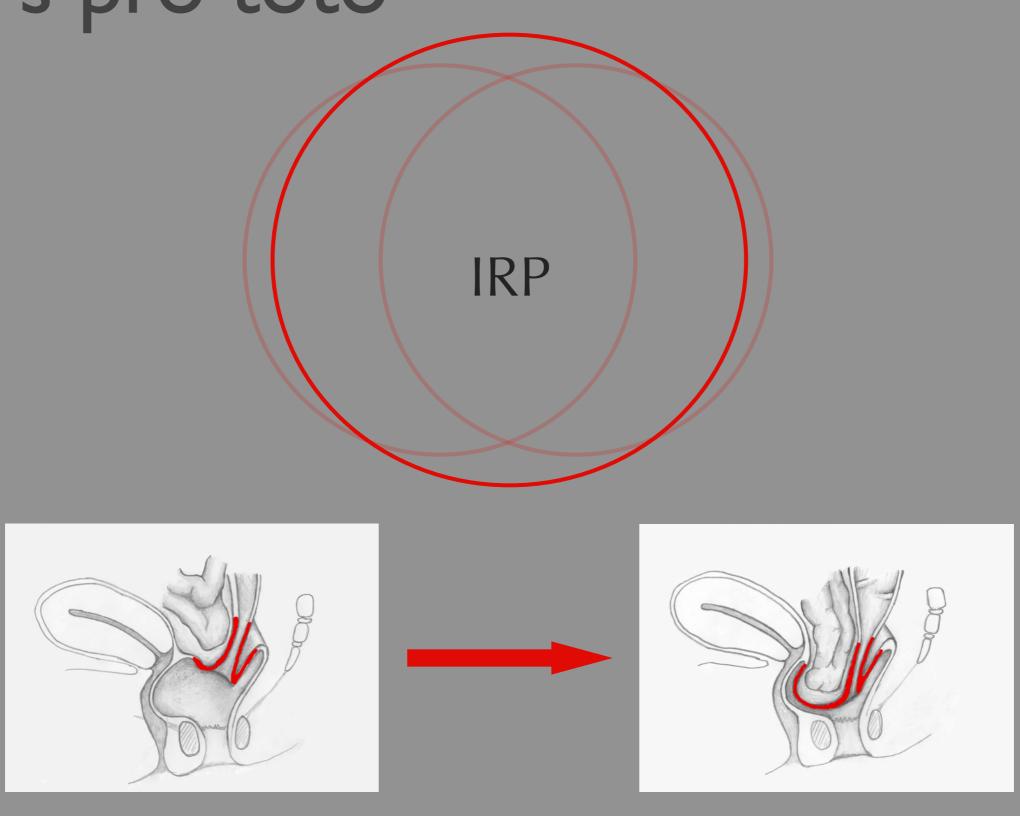
Relatie rectumprolaps en enterocele



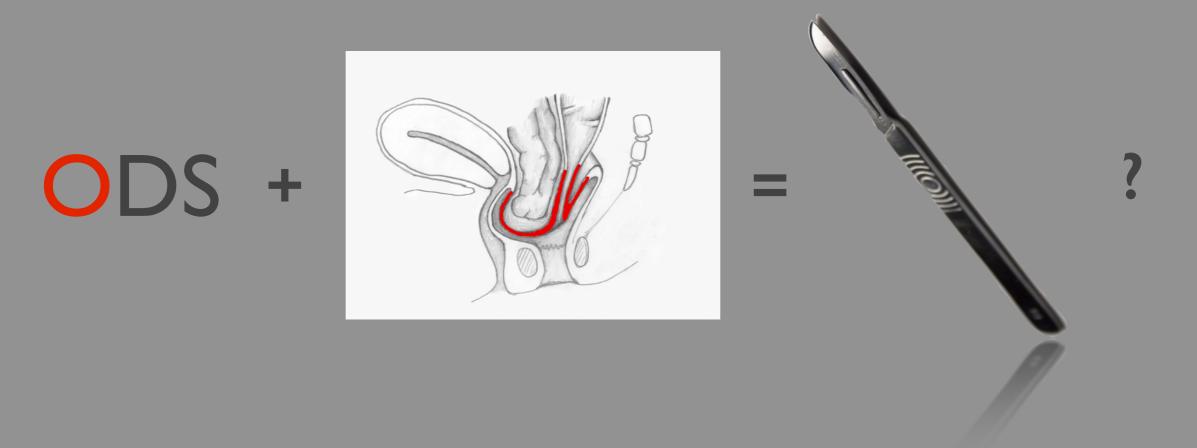
Relatie rectumprolaps en enterocele



Pars pro toto













Pathologisch / Fysiologisch

Gut, 1989, 30, 1737-1749

Defecography in normal volunteers: results and implications

P J SHORVON, S McHUGH, N E DIAMANT, S SOMERS, AND G W STEVENSON

From the Department of Radiology, McMaster University Medical Center, amilton ntario, Canada, and Division of Gastroenterology, Department of Medicine, Toronte Wester, H. spital, Toronto, Ontario, Canada

summary Forty seven healthy your valuteers underwent defecographic examination to determine the range of normal arcines. We mality was shown to encompass radiological features often considered pathological, the a features included broad ranges of anorectal angle and pelvic floor descent which overlap with reported pathological states. Furthermore, the formation of rectocooless turing defecation was a very common finding in women. Finally, a subgroup of the volumeers has marginal anorectal function. The marginal anorectal function and certain radiological findings such as rectocooles or intussusceptions may predispose to later problems, or contribute to clinical problems when combined with other factors such as dietary fibre deficiency. The radiological findings raise a number of questions with respect to different aspects of the functioning of the continence and defecation mechanisms.

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Pathologisch / Fysiologisch

Internal Rectal Intussusception Seldom Develops into Total Rectal Prolapse

Anders Mellgren, M.D., Ph.D.,* Inkeri Schultz, M.D.,† Claes Johansson, M.D. Ph.D.,
Anders Dolk, M.D., Ph.D.†

From the Departments of Surgery, *Karolinska Hospital and †Danderyd Hospital, Mockiolin S. de

PURPOSE: This study was designed to analyze how often internal rectal intussusception develops into total rectal prolapse. METHODS: Repeated investigations with defecography were performed in 312 patients because of persidents symptoms. In 79 patients who had a rectal i at the first defecography, results of the second do phy and the patients' records were sp total of 38 patients had ographies. One of these patients at the second defecography, and ed a clinical prolapse after the second de-CONCLUSIONS: The present study demonhat the risk of developing a rectal prolapse in palents with rectal intussusception is small. This risk should, therefore, not be used as an indication for surgery. [Key words: Rectal intussusception; Rectal prolapse; Defecography; Surgery; Rectal procidentia; Evacuation proctographyl Mellgren A, Schultz I, Johansson C, Dolk A. Internal rectal intussusception seldom develops into total rectal prolapse. Dis Colon Rectum 1997;40:817-820.

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Surgical treatment of acta prolapse is often indisposable and ations for treatment of patients with ect in association are debated because postoperlive functional outcome is frequently unsatisfactory. Sometimes patients with rectal intussusception are treated to avoid development of a rectal prolapse. However, there are no longitudinal studies on the risk of developing a total rectal prolapse in these patients. The aim of the present study was to analyze how often internal rectal intussusception develops into total rectal prolapse.

MATERIALS AND METHODS

Patients

Because of defecation disorders, 2,685 patients underwent defecography from 1967 through 1991 at the Department of Diagnostic Radiology at St. Göran Hos-

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Patients

MATERIALS AND METHODS



Oorzaak of gevolg

Rectal Hyposensitivity

Prevalence and Clinical Impact in Patients With Intracta Constipation and Fecal Incontinence

Marc A. Gladman, M.R.C.O.G., M.R.C.S.(Eng.), S. Mark Scott, Ph.D., Christopher L. H. Chan, F.R.C.S., Norman S. Williams, M.S., F.R.C.S., Peter J. Lunniss, M.S., F.R.C.S.

From the Academic Department of Surgery and Gastrointestinal Physiology Unit, Barts and The Lo. Queen Mary's School of Medicine and Dentistry, London, United Kingdom

PURPOSE: Blunted rectal sensation, or rectal hyposensitivity, has been reported anecdotally in patients with functional disorders of evacuation and continence. The purpose of this study was to determine the prevalence of rectal hyposensitivity and whether the finding of such an abnormality was associated with any clinical impact. METHODS: One thousand three hundred fifty-one patients, referred for anorectal physiologic investigation, were divided according to presenting symptoms into the following categories: constipation (subdivided into infrequency of and/or obstructed defecation), fecal incontinence (subdivided into passive, postdefecation, and urge incontinence), fecal incontinence and constipation, or "other." Rectal hyposensitivity was judged to be present when at least one of the seg threshold volumes was elevated beyond the (mean plus 2 standard deviations). The prevalence of hyposensitivity was then calculate relation to other investigation atients with fecal atients with incontinence and only 5 percent of patients bund to have rectal hyposensith obstructed defecation, rectal hypotivity was present in 33 percent with rectocele, 40 percent with infussusception, and 53 percent with no me

unctional constipation and fecal incont Γ common disorders¹ that cause individ ing and constitute a substantial economic individual patients and healthcare reserve nificant proportion of these patients surgically when conservaween sensory and motor funcnormalities of either component may thu ute to disorders of evacuation or continen bances of motor function are widely reco contributing to such disorders7; interest in sensory dysfunction has only been renev recently, even though sensory abnormalities implicated 50 years ago.8

Anorectal physiologic investigation play

Rectal Sensory Perception in Females with Obstructed Defecation

M. J. Gosselink, M.D., Ph.D., W. R. Schouten, M.D., Ph.D.

From the Colorectal Research Group, Department of Surgery The Netberlands

PURPOSE: Parasympathetic afferent nery mediate rectal filling sensations afferent nerves in the me clear. Sympathetic n ensation th blocked ifferent supply. It orted that parasympathetic afferent nerves y both slow ramp (cumulative) and fast ment) distention of the rectum, whereas the pathetic afferent nerves are only stimulated by fast phadistention. Therefore, it might be useful to use the two distention protocols to differentiate between a parasympathetic and sympathetic afferent deficit. METHODS: Sixty control subjects (9 males; median age, 48 (range, 20-70) years) and 100 female patients (median age, 50 (range, 18-75) years) with obstructed defecation entered the study. Rectal sensory perception was assessed with an "infinitely compliant polyethylene bag and a computer-controlled airinjection system. This bag was inserted into the rectum and inflated with air to selected pressure levels according to two different distention protocols (fast phasic and slow ramp). The distending pressures needed to evoke rectal filling sensations, first sensation of content in the rectum, and earliest urge to defecate were noted, as was the maximum tolerable volume. RESULTS: In all control subjects, rectal filling sensations could be evoked. Twenty-one patients (21 percent) experienced no sensation at all in the pressure range between 0 and 65 mmHg during either slow ramp or fast phasic distention. The pressure thresholds for first sensation, earliest urge to defecate, and maximum tolerable volume were significantly higher in patients with obstructed defecation (P < 0.001). In each subject, the pressure thresholds for first sensation, earliest urge to defecate, and maximum tolerable volume were always the same,

st three decades, paradoxical contraction of the pelvic floor has been cited as the principal cause of obstructed defecation. However, the clinical relevance of this pelvic floor dysfunction has been questioned.1-4 Normal rectal evacuation requires adequate intrarectal pressure, which can be raised by increasing intrapelvic pressure, achieved by voluntary contraction of the diaphragm and abdominal wall muscles. Furthermore, increase of rectal tone proximal to the fecal mass and normal sensory perception also contribute to normal rectal evacuation. Recently, it has been shown that the rectum generates an expelling force during an evoked call to stool. In patients with obstructed defecation, this expelling force is impaired.4 Many patients with obstructed defecation report that their feelings of a call to stool are blunted or absent. Balloon distention of the rectum is a widely used, simple method to measure rectal sensory perception. It has been shown that the perception of a balloon distending the rectal wall is reduced in patients with constipation. 4-12 In these studies, balloons of different materials, shapes and sizes were used.4-12 Some workers inflated the stimulating balloon with air, whereas others used water. 4-12 Some investigators used phasic distention, characterized by periods of balloon inflation separated by periods of

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periods of balloon inflation separated by periods of investigators used phasic distention, characterized by



Rectopexie

Rectopexy Is an Ineffective Treatment for Obstructed Defecation

W. J. Orrom, M.Sc., F.R.C.S.C.,* D. C. C. Bartolo, M.S., F.R.C.S., R. Miller, M.S., F.R.C.S., N. J. McC. Mortensen, M.S., F.R.C.S., A. M. Roe, M.S., F.R.C.S.,

From the Division of Colon and Rectal Surgery,* Details, The Colon of Minnesota Hospital, Minneapolis, Minnesota; Bristol Royal of The Sary, Bristol, United Kingdom; and John Radcliffe Hospital, Conford, United Kingdom

Orrom WJ, Bart lo Co, Giller R, Mortensen NJMcC, Roe AM. Recop ty s ar incrective treatment for obstructed detection Dis Colon Rectum 1991;34:41–46.

The symptoms of obstructed defecation have been attributed to rectal intussusception, and thus rectopexy has been advocated in the surgical management. In this study, patients with obstructed defecation underwent manometry and proctography before and after rectopexy. Seventeen patients (16 females and one male, mean age 51.6 years) were studied. Eleven underwent anterior and posterior fixation of the rectum and six had posterior fixation

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to those with a colonic motility disorder, 4-9 or an internal sphincterotomy or mascalar impression on the puborectalis has been described in such patients demonstrating persistence of the puborectalis impression on straining during defecography, but the results have peep disappointing 16-18 Bectopexy has been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointing 16-18 Bectopexy has been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractable constitution. 3, 13-15 been liked been disappointed as a cause of intractabl



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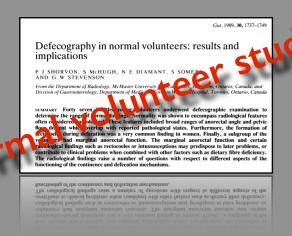


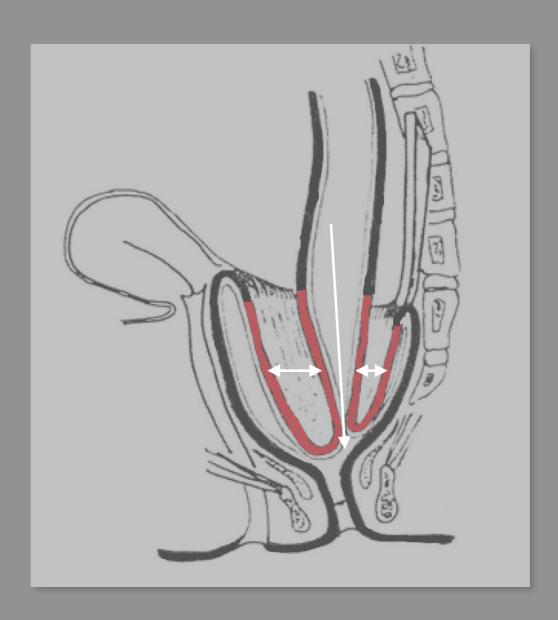
Nieuwe chirurgische technieken









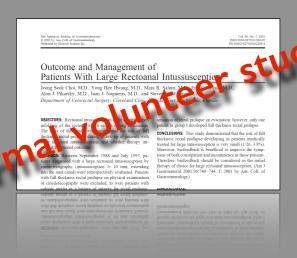


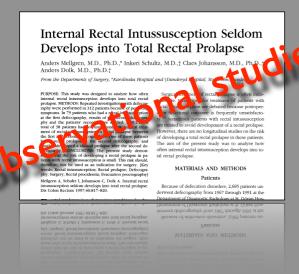
Pomerri F, Zuliani M, Mazza C, Villarejo F, Scopece A. Defecographic measurements of rectal intussusception and prolapse in patients and in asymptomatic subjects. Am J Roentgenol 2001; 176: 641–5.

Dvorkin LS, Gladman MA, Epstein J, Scott SM, Williams NS, Lunniss PJ. Rectal intussusception in symptomatic patients is different from that in asymptomatic volunteers. Br J Surg 2005; 92: 866–72

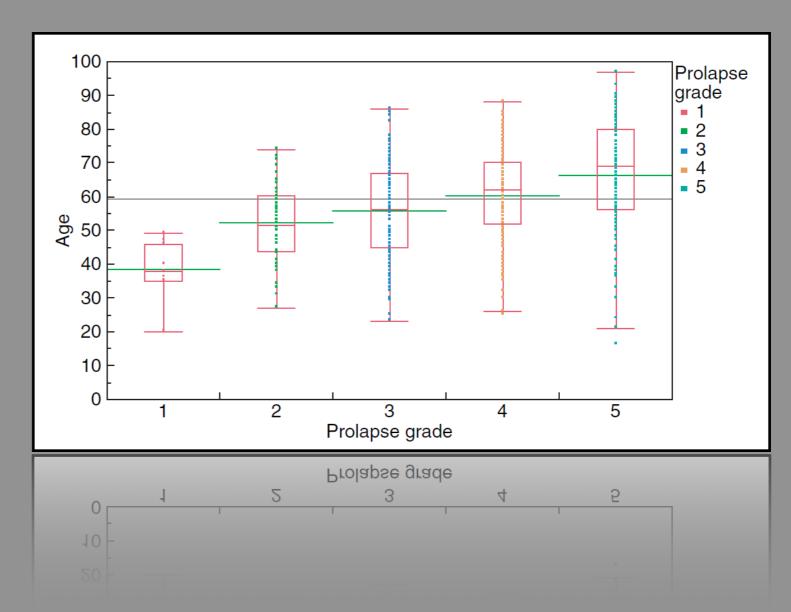








n=531





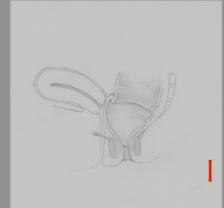


Rectal Hyposensitivity

Prevalence and Clinical Impact in Patients With Intract Constipation and Fecal Incontinence

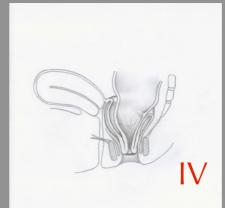
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Rectal Sensory Perception in Females with Obstructed Defecation



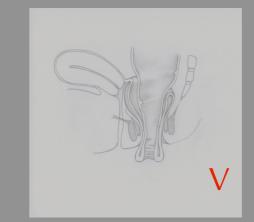








n=408







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From the Academic Department of Surgery and Gastrointestinal Physiology Unit, Barts and The .

Oueen Many's School of Medicine and Deutistry London United Kingdom

PHINOSE. Binited rectal estution, or rectal hyposome, in his been reported an estudied in patients with fin interest of the continue and continues. The party proposes the party and proposes the party and proposes market was associated with any classed impact. Marillo market was associated with any classed impact. Marillo proceedings of the party and proposes of the party proposes and proposes as the party of the party proposes as the party of the party proposes as the party of the party proposes as the party proposes proposes as the party proposes p In unctional constitution and feeal income common disorders¹ that cause individing and constitute a substantial economic individual patients and healthcare requirements and proportion of these patients as surgically when comparison continues and the long sum results as the comparison of the continues are constitutionally as the comparison of the continues are constitutionally as the comparison of the continues are constitutionally as the continues are consistent as the continues are consistent as the continues are consistent as the continues are continued as the continues are continued

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Sensation	No of abnormal thresholds	No of Patients	Overall percentage	
Normal	0	241	59 %	
	Í	37	9 %	
Hypersensitive	2	13	3 %	
	3	3	1 %	
	Ī	52	13 %	
Hyposensitive	2	44	11 %	
	3	18	4 %	
	3	18	4 %	
Hyposensitive	2	44	11 %	

Wijffels NAT, Angelucci G, Ashrafi A, Jones OM, Cunningham C, Lindsey I. Rectal hyposensitivity is uncommon and unlikely to be the central cause of obstructed defecation in patients with high-grade internal rectal prolapse. Neurogastroenterol Motil. 2011 Feb;23(2):151-4





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Marc A. Gladman, M.R.C.O.G., M.R.C.S.(Eng.), S. Mark Scott, Ph.D., Christopher L. H. Chan, F.R.C.S., Norman S. Williams, M.S., F.R.C.S., Peter J. Lunniss, M.S., F.R.C.S.

From the Academic Department of Surgery and Gastrointestinal Physiology Unit, Barts and The Queen Mary's School of Medicine and Departstry, London United Kingdom

PURPONE: Binned rectal sensition, or rectal hyposomial protrain disorder of excustion and continues. The purpoof this study was to determine the prevalence of rest physiconsistivity and whether the finding of such an abotion of the study of the properties of the properties of the physiconsistivity and continues of the properties of the One thousand three hundred fifty-one patients, referred is concerted physiologic investigation, were divided according situation toushwised into intercepture of and/or obstract situation toushwised into intercepture of and/or obstract of the properties of the properties of the situation toushwised into intercepture of and/or obstract situation of the properties of the situation of the properties of the situation of F unctional constipation and fecal incont common disorders¹ that cause individing and constitute a substantial economic individual patients and healthcare resource nificant proportion of these patients at surgically when consequents men or mail the long-term results are on a compatit

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Rectal Sensory Perception in Females with Obstructed Defecation

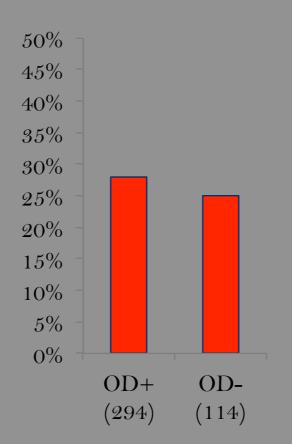
M. J. Gosselink, M.D., Ph.D., W. R. Schouten, M.D., Ph.D. From the Colorectal Research Group, Department of Surgery, English Society, The Withoutens of

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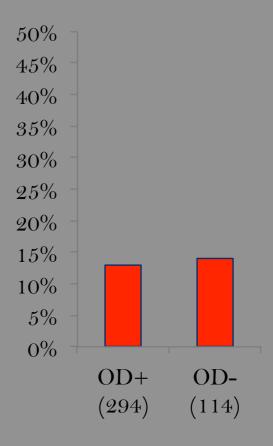
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Hyposensitiviteit



Hypersensitiviteit







Rectal Hyposensitivity

Prevalence and Clinical Impact in Patients With Intracts Constipation and Fecal Incontinence

Marc A. Gladman, M.R.C.O.G., M.R.C.S.(Eng.), S. Mark Scott, Ph.D., Christopher L. H. Chan, F.R.C.S., Norman S. Williams, M.S., F.R.C.S., Peter J. Lunniss, M.S., F.R.C.S.

From the Academic Department of Surgery and Gastrointestinal Physiology Unit, Barts and The .

Oueen Many's School of Medicine and Deutistry London United Kingdom

PRINCIS limited rectal sensition, or rectal hyposensity to, he been received anotherity in places with his form, he been received anotherity in places with the of this study was to determine the prevalence of rect proposensitivity and where the finisting of such an about the proposensitivity and the proposensitivity and the proposensitivity and the proposensitivity and the proposensitivity was proposed to the proposensitivity was to be preventing symposium into the following categories: on temporal proposition of the pro

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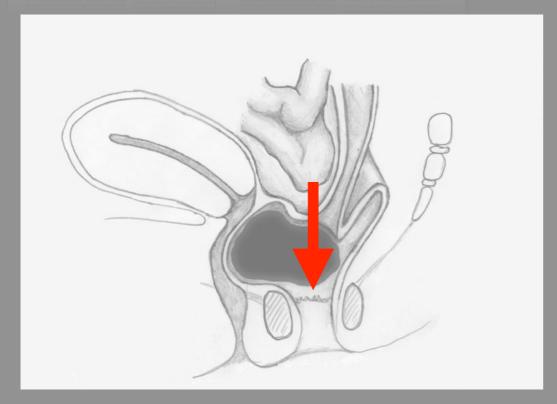
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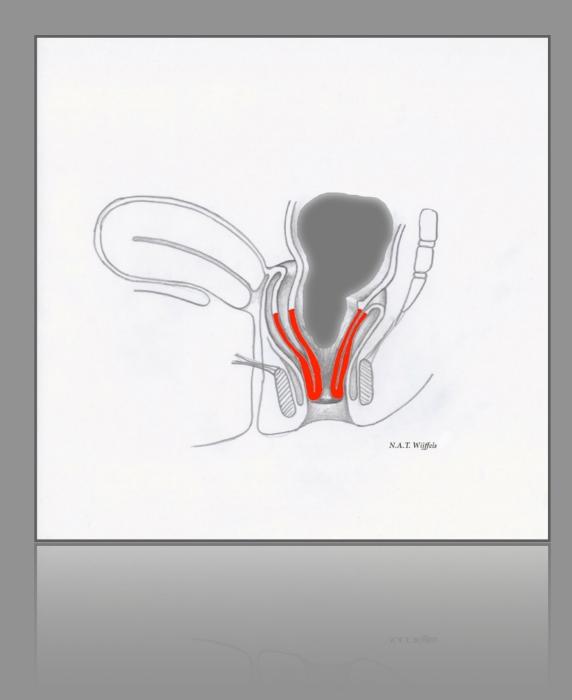
. J. Gosselink, M.D., Ph.D., W. R. Schouten, M.D., Ph.D. om the Colorectal Research Group, Department of Surgery, Exclusive beds. on Netherlands

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Wijffels NAT, Angelucci G, Ashrafi A, Jones OM, Cunningham C, Lindsey I. Rectal hyposensitivity is uncommon and unlikely to be the central cause of obstructed defecation in patients with high-grade internal rectal prolapse. Neurogastroenterol Motil. 2011 Feb;23(2):151-4



Nieuwe chirurgische technieken



Rectopexy Is an Ineffective Treatment for Obstructed Defecation

W. J. Orrom, M.Sc., F.R.C.S.C.,* D. C. C. Bartolo, M.S., E.R.G.S., R. Miller, M.S., F.R.C.S., N. J. McC. Mortensen, M.S., F. R. G. S., A. M. Peo M.S. F.R.C.S.

From the Division of Colon and Rectal Surgery," De any emission of Colon and Rectal Surgery, "De any emission," University of Minnesota Hospital, Minneapolis, Minnesota Bristol Roy only of the Minnesotal Colon (Minnesotal Colon de Minnesotal Colon (Minnesotal Colon de Minnesotal Colon (Minnesotal Colon de Minnesotal Colon de Minnesotal Colon (Minnesotal Colon de Minnesotal Colon de Minnesotal Colon de Minnesotal Colon (Minnesotal Colon de Minnesotal Colon de Min

Orrom WJ, Bartol C. C. Mil r l bortensen NJMcC, Roc AM. P. op v is an inelective treatment for obstructed of ano py Colon Rectum 1991;34:41–46.

points of obstacted detectation have been attribtion excit intussusception, and thus rectopecy has been advocated in the surgical management. In this study, patients with obstructed defectation underwent manometry and protography before and after rectopecys. Sevine teen patients (16 females and one male, mean age 51.6 years) were studied. Eleven underwent anterior and posterior fixation of the rectum and six had posterior fixation

he symptoms and obstructed offercation take been armiuted to rectal immususception, and thus receiptery has been advocated in the surgical management. In this study, patients with obstructed defection underwent manoniery and proteagaphy before and after rectopery. Seventers are proposed to the proposed of the proposed of years) were suited. Eleven underswent anterior and posresen for suiton of the corrum and six had constrained first into for those with a colonic motility disorder, "or an internal sphincterotomy or myectomy for those with outlet obstruction. 10-12 Paradoxical contraction of the puborectalis or anismus has been implicated as a cause of intractable constipation. 5, 13-

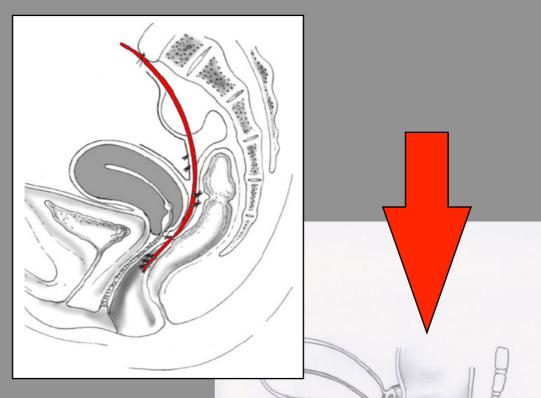
¹⁵ Posterior and lateral division of the puborectalis has been described in such patients demonstrating persistence of the puborectalis impression on straining during defecography, but the results have have disappointing 16-18 Posterogan have been used.

plicated as a cause of intractable constitution. ****

**Posterior and lateral division of the puborectalis

has been described in such patterns demonstrating
persistence of the puborectalis impression on
straining during defecography, but the results have





80 % verbetering OD klachten



Conservatief

70%

Metamucil/ Psyllium (ander lax.)
Bekkentherapie (biofeedback)
Retrograde irrigatie

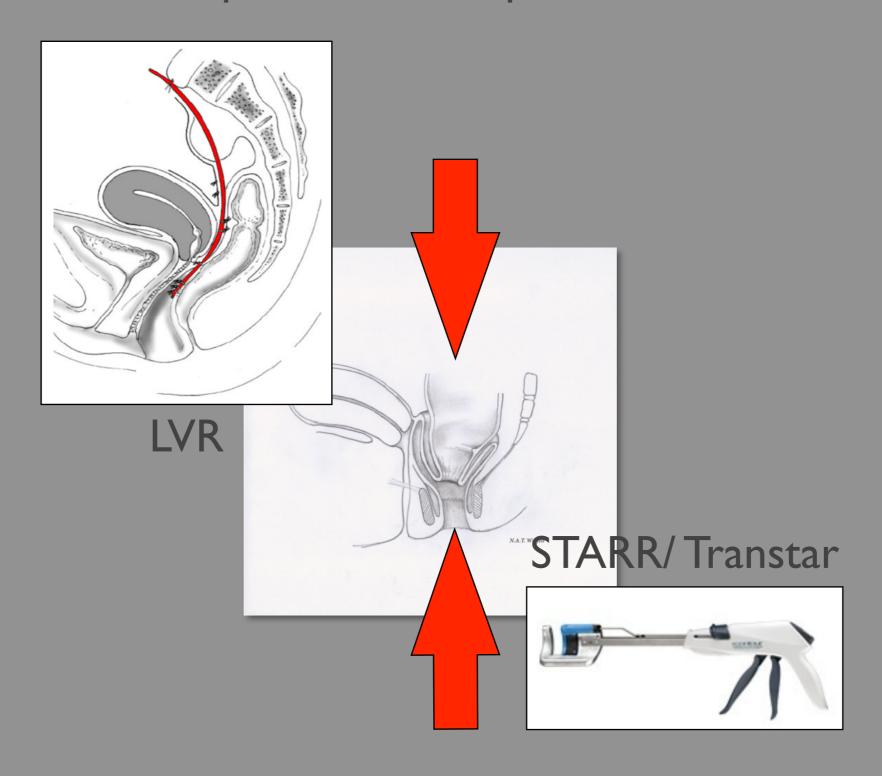


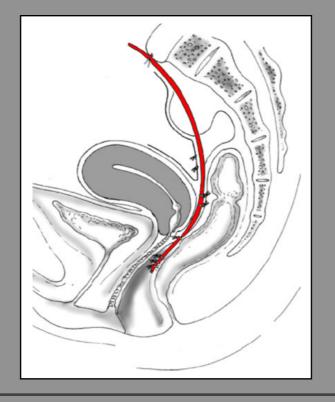






Operatief: "Derop of deronder"





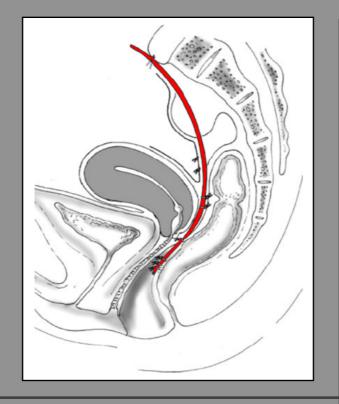


- Introductie +/- 2004 D'Hoore
- Concept:

 Correctie middelste en achterste
 compartiment
- Aanvankelijk voor ERP
- Correctie IRP/EC/RC
- Eerste resultaten voor IRP 2008

- Introductie +/- 2000 Longo
- Concept:

 Excisie "overtollig" prolaberend
 rectum-wand
- Correctie IRP/RC
- Eerste publicatie resultaten ODS 2004





Voordelen

- Blijvend herstel?
- Goede funct. resultaten mbt Fl
- Corrigeert ook EC

Nadelen

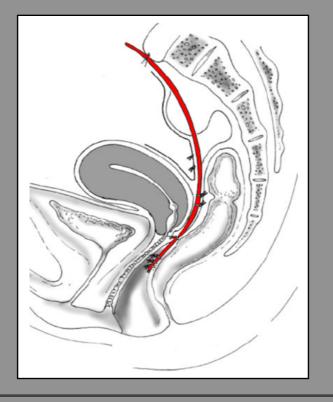
- Vreemd lichaam (publ. opinie)
- Dyspareunie?

Voordelen

- Minder lange leercurve?
- Simult. correctie an./heam. prolaps
- Operatie tijd

Nadelen

- Urge klachten / Fl
- Meer complicaties?
- Lange termijns-resultaten?





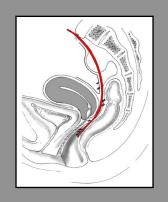
Contra-indicaties

- Dikke mannen
- Mannen in het algemeen?

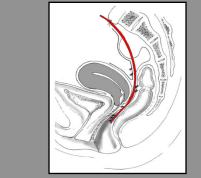
Contra-indicaties

- · EC
- Urgency/ FI

Dyspareunie



	n ptn	de novo	pre- vs. postop.
Wong et al	84	0%	72>17 ptn
Abet et al	41	0%	13>6 ptn
Hagen et al	27	I (4%)	8>2 ptn



Mat-gerelateerde complicaties

Table I Summary of stu	idies repoi	rting laparoscopic ventral mesh	rectopexy wit	h synthetic mesh ins	ertion.			
First author	Year	Type of mesh	No. of patients	Median follow- up (months)	complications of P		currence POP /ERP	
D'Hoore [18] Verdaasdonk [19] Slawik [20] van den Esschert [21] Collinson [22] Boons [23] Wijffels [24] Wong [25] Wong [26] Faucheron [27] van der Hagen [28] Total	2006 2008 2008 2009 2010 2011 2011 2011 2012 2012	Polypropylene Polypropylene Goretex or polypropylene Polypropylene Polypropylene Polypropylene Polypropylene or polyester Polyester Polyester Polyester Polypropylene	109 14 80 17 75 65 80 84 41 175 27 767	n/a 7 54 38 12 19 23 29 12 74	0 0% 0 0% 0 0% 1 6% 0 0% 0 0% 0 0% 1 1% 0 0% 1 0,6% 1 4% 4 0,5%	4 2 0 0 4 1 5 6 2 2 0 28	4% 15% 0% 0% 5% 2% 6% 7% 4% 1% 0% 3.6%	
Wong [26] Faucheron [27] van der Hagen [28] Total	2011 2012 2012 2012	Polyester Polyester Polypropylene	41 175 27 767	12 74 12	0 1 1	2 2 0 28		



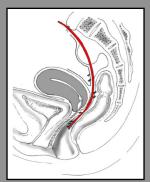
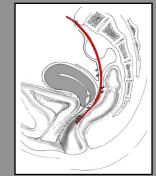


Table 2 Summary of studies reporting laparoscopic ventral mesh rectopexy with biological mesh insertion.							
First Author	Year	Type of mesh	No. of patients	Median follow-up (months)	Mesh complications	Recurrence of POP	
Wahed [29] Sileri [30] Total	2011 2012	Permacol Permacol	65 34 99	12 12	0 0 0	2 2 4	
Sileri [30] Total	2012	Permacol	34 99	12	0	4	

Complicaties



Resultaten LVR "IRP"

	v/d Esschert	Collinson	Whong	Seleri	v/d Hagen	Formijne Jonkers
Indicatie	ODS	IRP	rectocele	IRP	rectocele	IRP/rectocele
n	17	75	84	34	27	157
Mediane FU	38	24	29	12	12	30
Mortaliteit/ Major Morb.	0/18%	0%	0%	0%	0%	0/2,5%
Minor Morb.	29%	4%	5%	24%	7%	2,5%
Recurrence	?	5%	0%	6%	?	?
Mediane LOS	6	2	3	2	3	5
Verbetering OD	?	86%	83>46%	82%	ODS	CCCS 51>17
Verslechtering OD	?	0%	0%	0%	19>6*	0,5%
Verbetering FI	ng	85%	20>16%	73%	CCIS	CCIS 59>20*
Verslechtering FI	ng	0%	0%	0%	12>8*	2%

Recidief ODS na STARR/transtar



	n ptn		median FU	recidief
Khaled et al	64/64	STARR	42 mnd	13%
Kohler et al	62/80	STARR	39 mnd	18.7%
Meurette et al	25/30	STARR	58 mnd	16%
Goede et al	149/344	STARR	24 mnd	4,9%
Ommer et al	14/14	STARR	68 mnd	7,1%
Zehler et al	20/20	STARR	60 mnd	5%
Madbouly et al	46/46	STARR	42 mnd	13%
Bock et al	67/70	transtar	32 mnd	ODS:16-3-8

Urgency / FI



tot 70 % (8wkn) urgency po, tot 5% 1,5 jaar po

tot 13 % de novo Fl po

Andere complicaties



Isbert et al. STARR

2224/2838 ptn, I2 mnd FU

totale morbiditeit: 36%

persist. pijnklachten 7,1%

Urineretentie: 6,9%

Bloedingen: 5%

Sept. compl.:4,4%

Dehiscentie: 3,5%

Conclusie

IRP als onderdeel van het ,descending perineum syndrome' is niet alleen geassocieerd met OD(S) maar is waarschijnlijk een belangrijke oorzaak door veranderde anatomie.

Veel patiënten zijn met conservatieve therapie tevreden te stellen.

Zowel de LVR als STARR/Transtar operatie hebben specifieke voor- en nadelen waarbij lange termijns-resultaten doorslaggevend zullen zijn voor hun bestaansrecht.