



UNIVERSITÄTS**medizin.**  
MAINZ

Surgical options and indications in slow  
transit constipation and outlet obstruction

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# Chronic constipation - Definition

## Pragmatic definition

- Difficult, unsatisfactory or infrequent defecation

## Prevalence

- 14% in meta-analysis
- 6% in a recent American survey of nearly 90000

# Chronic constipation - Differentiation

- **Functional constipation**
  - Slow transit constipation
- **Morphological defecatory disorder**
  - Rectocele
  - Intussusception
  - Cul- de-Sac

## Surgical options in functional constipation and morphological defecatory disorder

## Slow transit constipation - Diagnostics

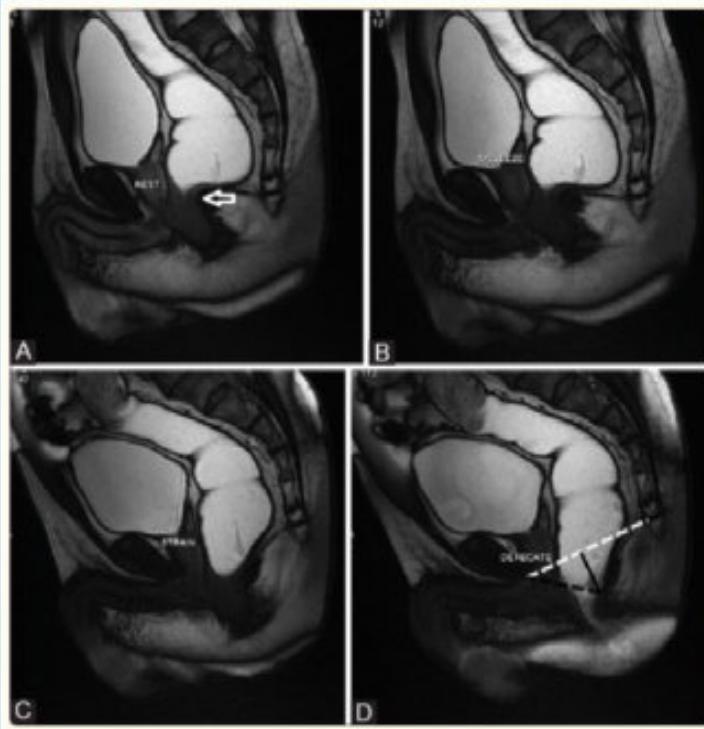
- Physical examination (hypothyroidism, abdominal mass)
- Colonoscopy
  - > high-fiber diet or laxatives

### Most important: Exclusion of defecatory disorder

- → 68% of constipation might be explained by defecatory disorder
- Anorectal manometry: detection of decreased propulsive force or paradoxical contraction
- Ballon expulsion test: >90% normal in people with rectocele/enterocele
- MR defacography

# Slow transit constipation - Diagnostics

MR defecography Normal



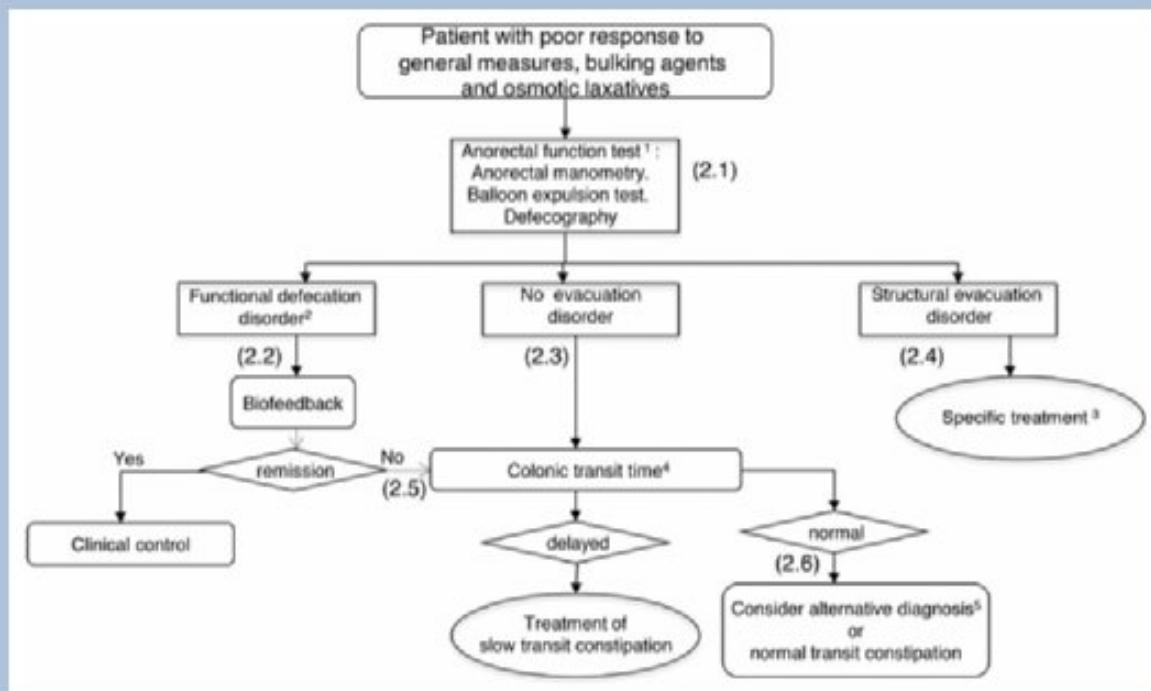
----- Pubococcygeal line

----- H line  
corresponding to antero-posterior dimension of hiatus

----- M line  
perpendicular distance between pubococcygeal line and posterior anorectal junction

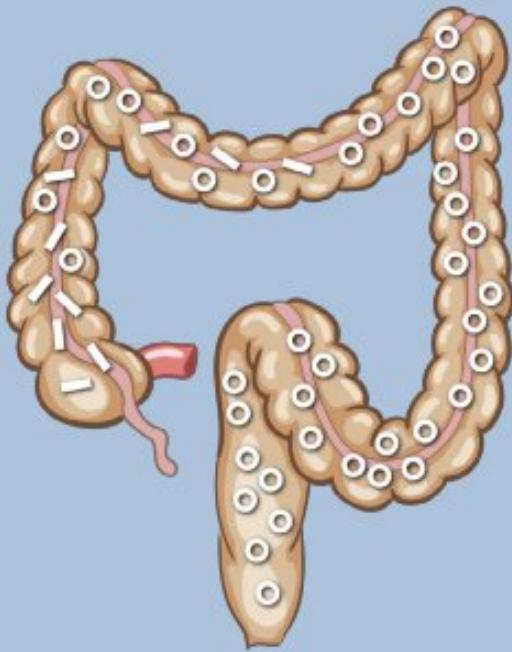
Thapar et al: DOI: 10.4103/0971-3026.150134

# Slow transit constipation - Diagnostics



Pohl et al. Therapeutic management of chronic constipation. Expert Opinion Statement on behalf of the Swiss Society of Gastroenterology. 2022

## Slow transit constipation - Diagnostics



## Slow transit constipation - Diagnostics



Müller M et al. Am J Physiol Gastrointest Liver Physiol 318: G361–G369,

## Slow transit constipation - Treatment

Surgical treatment options, both resecting and non-resecting, may be considered for selected patients if **all other conservative treatments fail** to improve the patient's condition and quality of life

# Slow transit constipation - Treatment

## Exclusion of the colon

### Ostomy

- Cecostomy
- Ileostomy

### Resection

- Segmental colectomy
- Total colectomy

## Change of Colon content

- Antegrade enema
- Retrograde enema
- Fecal Microbiota Transplantation

## Change of colon motility

SNS

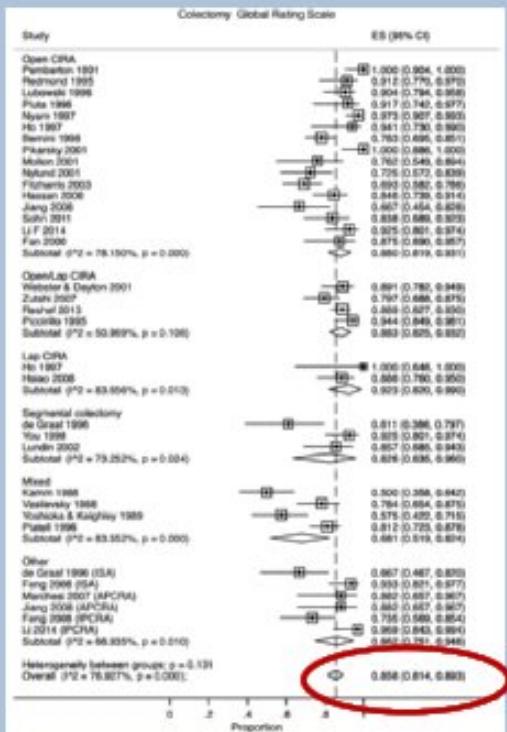
# Slow transit constipation - Colectomy

Surgery for constipation: systematic review and practice recommendations

40 articles

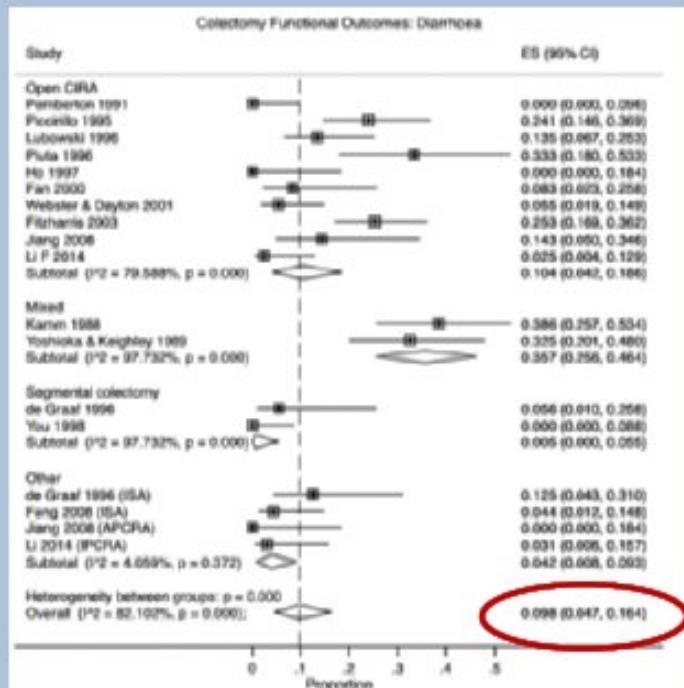
N=2045 patients

# Colectomy + IRA - Satisfaction



86% satisfaction

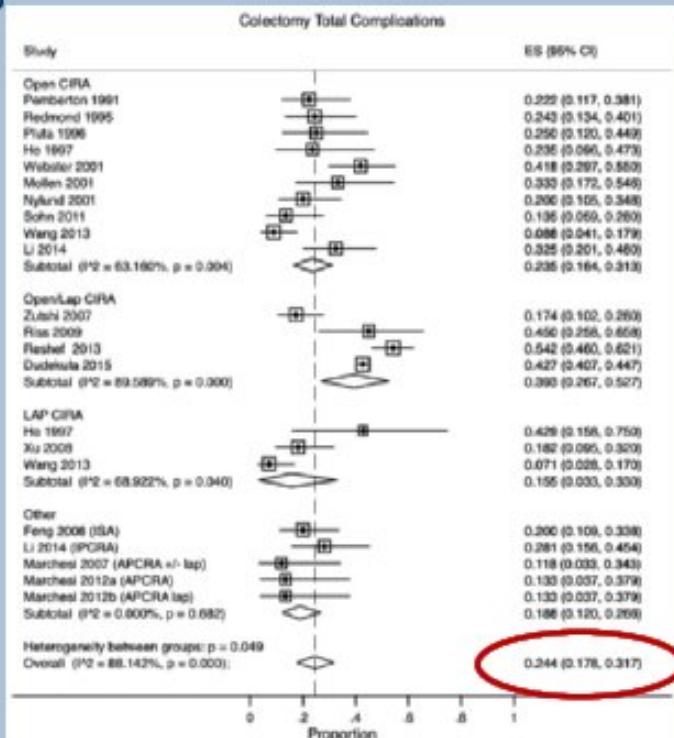
# Colectomy + IRA - Diarreha



10% diarrhea

# Colectomy + IRA - Complications

## Meta-analysis



# Colectomy + IRA - Complications

Colectomy with ileorectal anastomosis has a worse 30-day outcome when performed for colonic inertia than for a neoplastic indication

**A. Reshef, B. Gurland, M. Zutshi, R. P. Kiran and T. Hull**

Department of Colorectal Surgery, Digestive Disease Institute, Cleveland Clinic, Cleveland, Ohio, USA

Period: 1999-2010

Group A (colonic inertia): n= 131

Group B (Neoplasia and polyp syndromes, no IBD): n= 202

# Colectomy + IRA - Complications

## ■ Group Comparison

Variable	Group A: colonic inertia (n = 131)	Group B: neoplastic group (n = 202)	P
Death (30 days)	1 (1)	1 (1)	1
Anastomotic leakage	10 (8)	8 (4)	0.2
Abscess	12 (9)	5 (2)	0.01
Urinary tract infection	9 (7)	2 (1)	0.008
Wound infection	11 (8)	2 (1)	0.001
Ileus	42 (32)	39 (19)	0.009
Readmission	27 (21)	14 (7)	0.0003
Reoperation	15 (11)	14 (7)	0.2
Overall morbidity	47 (36)	30 (15)	< 0.001
Length of stay (days)	8.4 ± 6	7.2 ± 5	0.006

# Colectomy + IRA - Complications

- Open surgery

Variable	Group A: colonic inertia group (n = 75) (%)	Group B: neoplastic group (n = 95) (%)	P
Death (30 days)	0	0	1
Anastomotic leakage	6 (8)	4 (4)	0.3
Abscess	10 (13)	2 (2)	0.006
Urinary tract infection	5 (7)	1 (1)	0.09
Wound infection	10 (13)	2 (2)	0.006
Illeus	28 (37)	17 (18)	0.005
Readmission	15 (20)	4 (4)	0.002
Reoperation	10 (13)	5 (5)	0.1
Overall morbidity	30 (40)	11 (12)	< 0.0001
Length of stay (days)	9.7 ± 7	7.9 ± 5	0.02

# Colectomy + IRA - Complications

- Laparoscopic surgery

Variable	Group A: colonic inertia group (n = 56) (%)	Group B: neoplastic group (n = 107) (%)	P
Death (30 days)	1 (3)	1 (1)	0.51
Anastomotic leakage	4 (7)	4 (4)	0.4
Abscess	2 (4)	3 (3)	1
Urinary tract infection	4 (7)	1 (1)	0.05
Wound infection	1 (2)	2 (2)	1
Illeus	14 (25)	22 (20)	0.6
Overall morbidity	17 (30)	19 (18)	0.05
Readmission	12 (21)	10 (9)	0.05
Reoperation	5 (9)	9 (8)	0.1
Length of stay (days)	6.7 ± 3	6.6 ± 5	0.2

## Slow transit constipation - Treatment

### Diverting Loop Ileostomy in the Management of Medically Refractory Constipation Cases Not Falling Into Classical Categories

#### Inclusion criteria

- symptomatic constipation that failed the currently available maximal medical treatment
- constipation that either did not fall into classical categories of slow transit or pelvic outlet or had features of both during testing

## Slow transit constipation - Treatment

### Diverting Loop Ileostomy in the Management of Medically Refractory Constipation Cases Not Falling Into Classical Categories

- 01/2006-12/2018
- N=87
- Median follow-up 5.2 months (range 1-85)
- Division of patients who met criteria of good vs. poor outcome

**TABLE 1.** Requirements to be considered a "good" outcome after DLI

1. Patient self-reported symptom improvement from baseline
2. No longer using medication (eg, laxative, stool softeners) for bowel motility
3. Ileostomy function  $\geq 200 \text{ mL/d}$

DLI = diverting loop ileostomy.

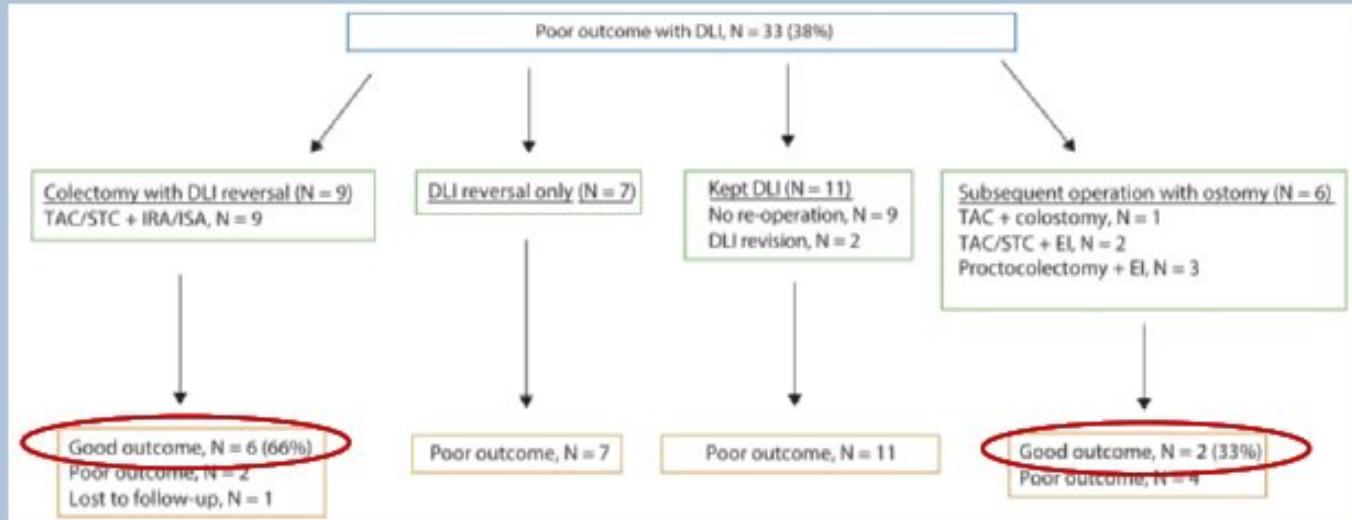
Hung L, et al, Dis Colon Rectum 2022; 65: 909-916 DOI: 10.1097/DCR.0000000000002373

## Slow transit constipation – Treatment with IS

- Good outcome 54/87 (62%)
- Poor outcome 33/87 (38%)

# Slow transit constipation - Treatment

- Poor outcome with loop ileostomy

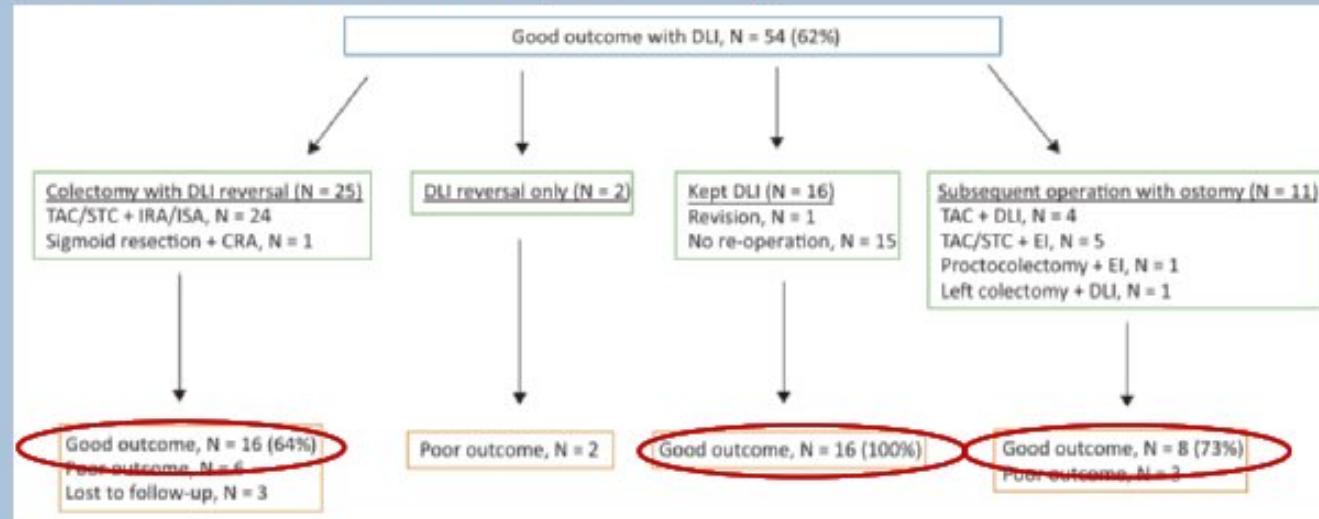


- Good outcome after colectomy in 8/33: 24%

Hung L, et al, Dis Colon Rectum 2022; 65: 909–916 DOI: 10.1097/DCR.0000000000002373

# Slow transit constipation - Treatment

- Good outcome with loop ileostomy



# Slow transit constipation - Treatment

Long-term results of the antegrade continent enema procedure for constipation in adults

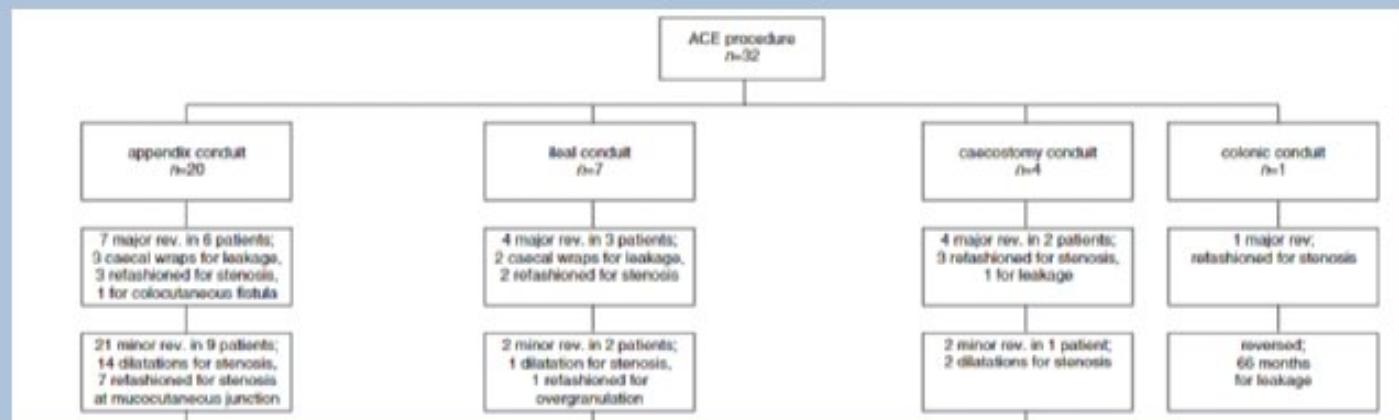
- 1992-2002
- N=32

Conduits were created from

- Appendix (n=20, 62%)
- ileum (n=10, 27%)
- neoappendix caecostomy (n=5, 14%)
- colon (n=2, 5%).

# Slow transit constipation - Treatment

Long-term results of the antegrade continent enema procedure for constipation in adults



# Slow transit constipation - Treatment

## Trans-anal irrigation therapy to treat adult chronic functional constipation: systematic review and meta-analysis

Study	Patients with Chronic Constipation (n)	Average age (Years)	Male:Female	Positive response n(%)	Time to assessment (Months (range))	Duration of therapy (Months (range))
Chan [13]	60	46	8:52	39 (65)	6 <sup>a</sup>	10.7 <sup>a</sup>
Christensen [9]	79	52 <sup>b</sup>	25:62 <sup>b</sup>	27 (34)	21 (1–116) <sup>b</sup>	8 (1–85) <sup>b</sup>
Koch [14]	10	55.4	4:7 <sup>a</sup>	3 (30)	3 <sup>a</sup>	-
Cazemier [15]	12	46	1:3	6 (50)	-	102 (30–216) <sup>a</sup>
Gosselink [16]	37 <sup>b</sup>	54	5:32	24 (65)	56 (8–154) <sup>b</sup>	- <sup>d</sup>
Gardiner [18]	41	-	-	21 (51)	-	-
Crawshaw [17]	15	54 (41–61) <sup>b</sup>	13:35 <sup>b</sup>	8 (53)	12 <sup>b,c</sup>	-
Total	254	-	-	128		

# Slow transit constipation - Treatment

## The Fecal Microbiota Transplantation: A Remarkable Clinical Therapy for Slow Transit Constipation in Future

Therapy	Clinical improvement rate	Clinical remission rate	Serious adverse events	Patients number	Reference
FMT+soluble dietary fiber+probiotics	69.9%	52.2%	0	23	(Ge et al., 2016a)
FMT+soluble dietary fiber	66.7%	42.9%	0	21	(Ge et al., 2016b)
FMT+soluble dietary fiber	75.9%	69.0%	0	29	(Zhang et al., 2016)
FMT	50%	37.5%	0	24	(Tian et al., 2016)
FMT	53.3%	36.7%	0	30	(Tian et al., 2017)

# Slow transit constipation - Treatment

## The Fecal Microbiota Transplantation: A Remarkable Clinical Therapy for Slow Transit Constipation in Future

TABLE 1-2 | The clinical efficacy of FMT during different therapy times.

Therapy time (week)	Primary efficacy endpoint achieved rate	Reference
3-4	50.0%	Ding et al., 2018
9-12	38.5%	Ding et al., 2018
21-24	32.7%	Ding et al., 2018

# Slow transit constipation – SNS

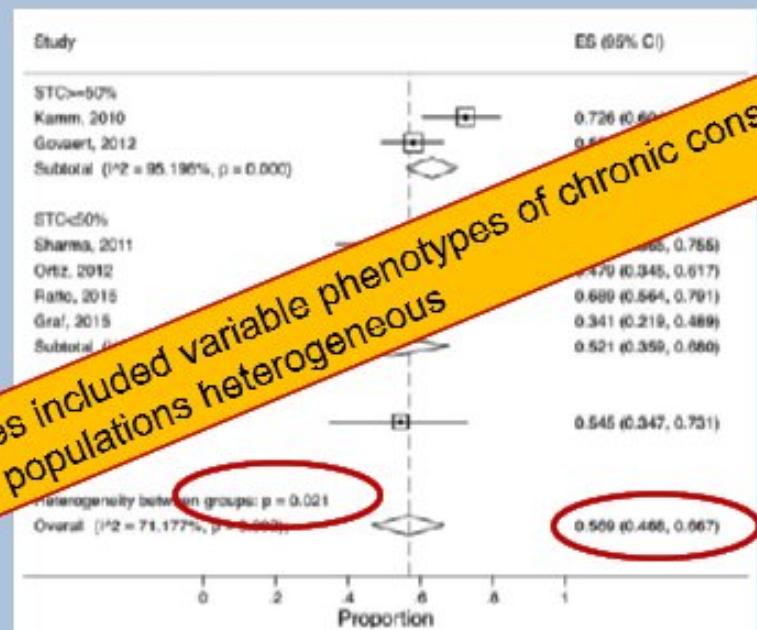
Surgery for constipation: systematic review and practice recommendations

Results V: Sacral Nerve Stimulation

7 studies

N=375 patients

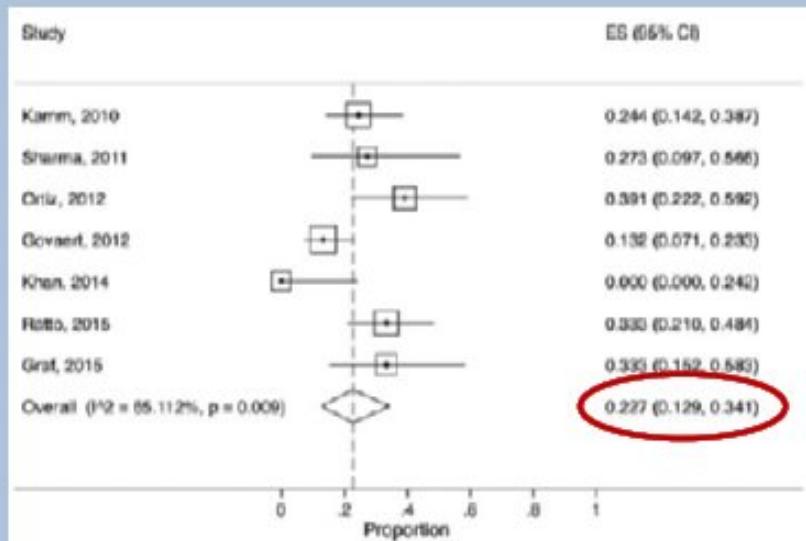
# Slow transit constipation – SNS



57% response rate

**Figure 5** Forest plot showing rates of SNS response rate by level of STC patients (percentage of patients). KEY: STC, slow transit constipation.

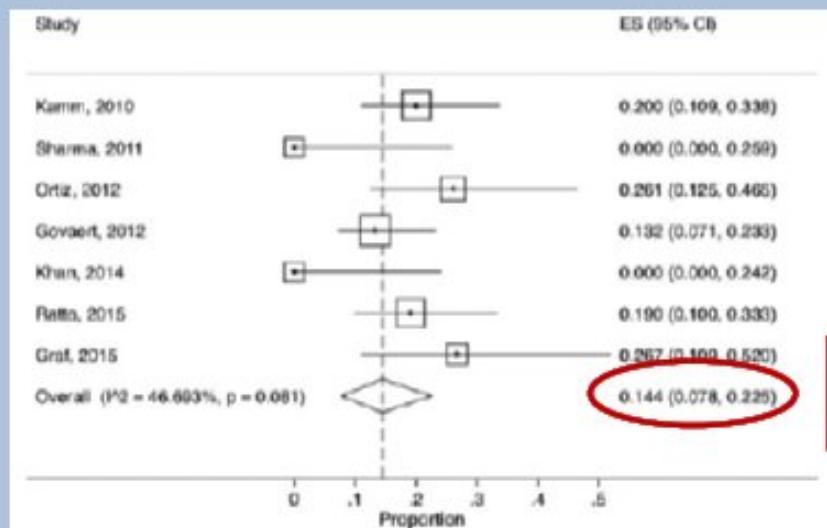
# Slow transit constipation – SNS



23% overall complications

Figure 2 Forest plot showing rates of total procedural complications (percentage of patients).

# Slow transit constipation – SNS



14% explantation rate

**Figure 3** Forest plot showing rates of device explantation rate (percentage of patients).

# Slow transit constipation – SNS

Surgery for constipation: systematic review and practice recommendations

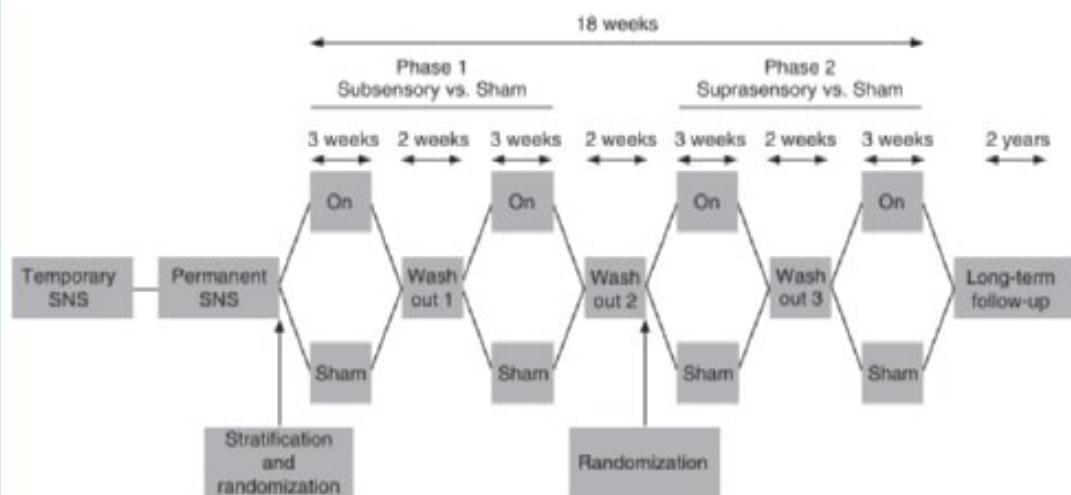
Results V: Sacral Nerve Stimulation

These more recent prospective studies suggest that less efficacy of SNS in constipation

Prediction of responders using various temporary testing regimens is poor.

# Slow transit constipation – SNS

Treatment Efficacy of Sacral Nerve Stimulation in Slow Transit Constipation: A Two-Phase, Double-Blind Randomized Controlled Crossover Study



Dinning et al Am J Gastroenterol 2015;  
110:733–740; doi: 10.1038/ajg.2015.101

## Slow transit constipation – SNS

Treatment Efficacy of Sacral Nerve Stimulation in Slow Transit Constipation: A Two-Phase, Double-Blind Randomized Controlled Crossover Study

N= 53

SNS did not improve the frequency of complete bowel movements over the 3-week active period

## Slow transit constipation – Summary

No high quality studies on the perioperative and long-term benefits and harms of colectomy

Mostly observational studies of variable and often uncertain methodological quality regarding to all treatment modalities

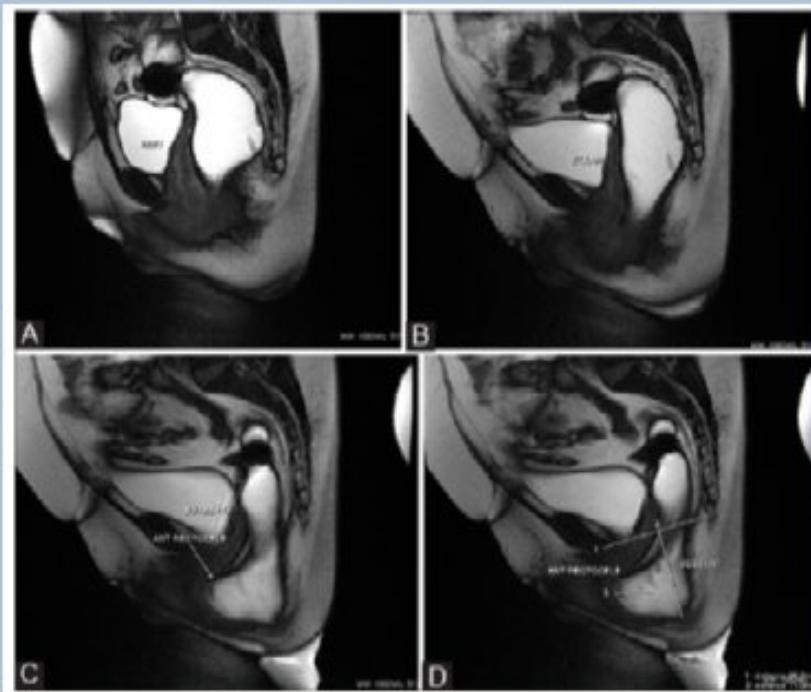
Current data suggest a balance of harms against efficacy with evidence that outcomes are at best variable.

# Chronic constipation - Differentiation

- **Functional constipation**
  - Slow transit constipation
- **Morphological defecatory disorder**
  - Rectocele
  - Intussusception
  - Cul- de-Sac

# ODS- Diagnostics

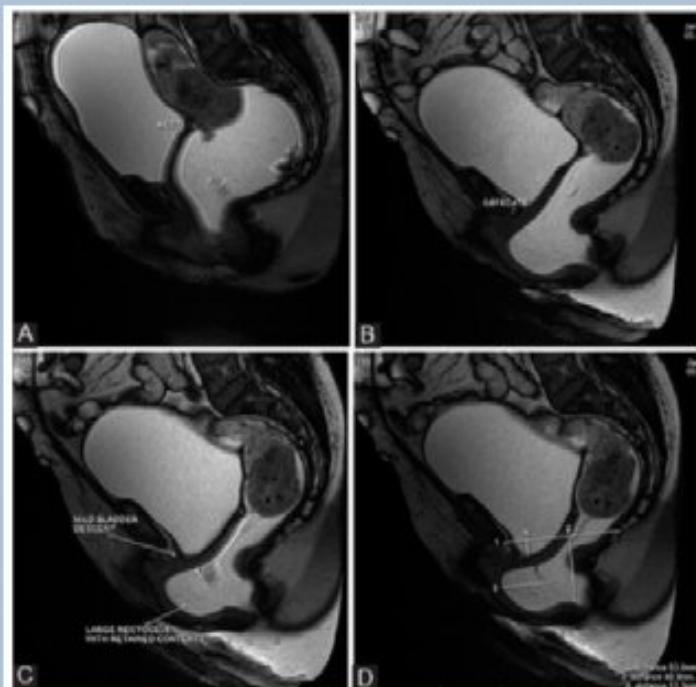
MR defecogram: Moderate anterior rectocele



Thapar et al: DOI: 10.4103/0971-3026.150134

# ODS- Diagnostics

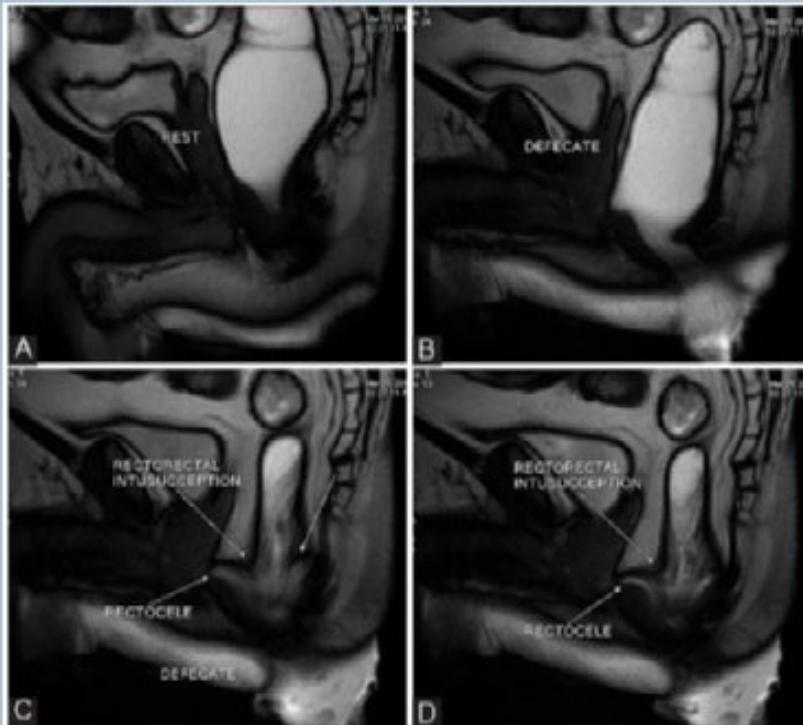
MR defecogram: Large anterior rectocele



Thapar et al: DOI: 10.4103/0971-3026.150134

# ODS- Diagnostics

MR defecogram: Intussusception



Thapar et al: DOI: 10.4103/0971-3026.150134

# Slow transit constipation - Diagnostics

MR defecogram: Grading

**Table 1: Grading of pathologies**

Pathology	Mild (cm)	Moderate (cm)	Severe (cm)
Bladder descent	<3	3-6	>6
Vault descent	<3	3-6	>6
Anorectal descent	<3	3-6	>6
Enterocoele	<3	3-6	>6
Rectocele	<2	2-4	>4

# ODS – Surgical principles

Principle of all surgical procedures

- to eliminate the voiding disorder by **reducing the rectal reservoir** (transanal or transperineal procedures)
- or
- to **eliminate morphological, functionally relevant "obstructions"** using transabdominal procedures

# Outlet obstruction – Abdominal Surgery

<b>Pexy: dorsal</b>		
<b>Without mesh</b>	Sudeck	Complete mobilisation of the rectum down to levator level - Fixation of the stretched rectum to presacral fascia
<b>With mesh</b>	Ripstein	Additionally: - Circular wrapping of the rectum with mesh with fixation of the mesh to the rectum and presacral
	Wells	Like Sudeck and additionally: - semicircular fixation presacral with mesh, but anterior 1/3 rectum excluded
<b>Pexy: Ventral</b>		
<b>With mesh</b>	Orr-Loygue	<b>Anterior and posterior dissection</b> after opening of the peritoneum - Fixation of 2 mesh strips anterolateral on both sides deep in the rectum and promontory - Peritoneal closure covering the meshes
	D'Hoore	<b>Exclusive anterior dissection</b> after opening of the peritoneum - Fixation of 1 mesh strip ventrally on the distal rectum, on the left lateral seromuscular border of the rectum and on the promontory - Peritoneal closure covering the mesh

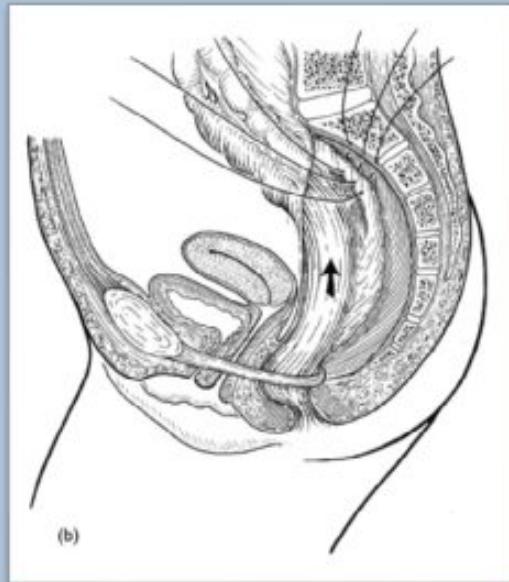
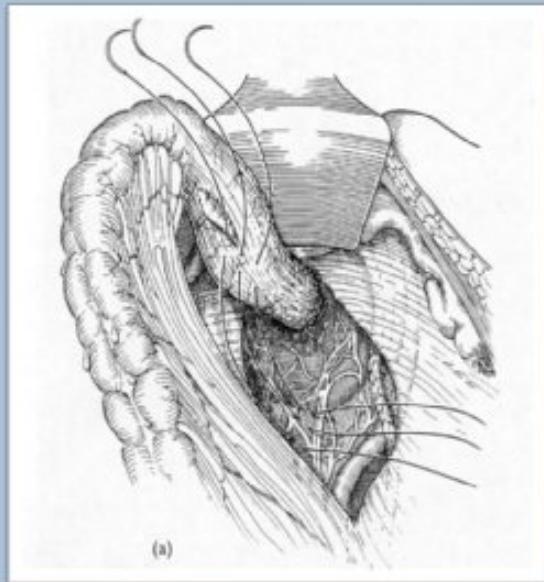
# Outlet obstruction - Surgery

## Pexy: dorsal

### Without mesh

### Sudeck

Complete mobilisation of the rectum down to levator level  
- Fixation of the stretched rectum to presacral fascia



# Outlet obstruction - Surgery

## Pexy: dorsal

### With mesh

#### Ripstein

Additionally:

- Circular wrapping of the rectum with mesh with fixation of the mesh to the rectum and presacral

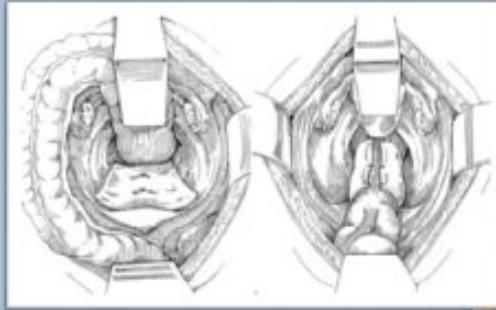
#### Wells

Like Sudeck and additionally:

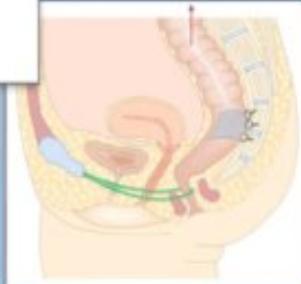
- semicircular fixation presacral with mesh, but anterior 1/3 rectum excluded



Mesh-  
Rectopexy  
(Ripstein)



Mesh-  
Rectopexy  
(Wells)



# Outlet obstruction - Surgery

## Pexy: Ventral

D'Hoore

**Exclusive anterior dissection** after opening of the peritoneum  
- Fixation of 1 mesh strip ventrally on the distal rectum, on the left lateral seromuscular border of the rectum and on the promontory  
- Peritoneal closure covering the mesh



D'Hoore A, Penninkx F: Surg Endosc (2006) 20: 1919-1923

# Outlet obstruction - Surgery

## Obstructed defaecation syndrome: European consensus guidelines on the surgical management

A. Picciariello  <sup>1 \*</sup>, P. R. O'Connell<sup>2</sup>, D. Hahnloser<sup>3</sup>, G. Gallo  <sup>4</sup>, A. Munoz-Duyos<sup>5</sup>, O. Schwandner<sup>6</sup>, P. Sileri<sup>7</sup>, G. Milito<sup>8</sup>, S. Riss<sup>9</sup>, P. A. Boccasanta<sup>10</sup>, G. Naldini<sup>11</sup>, A. Arroyo  <sup>12</sup>, F. de laPortilla<sup>13</sup>, P. Tsarkov<sup>14</sup>, B. Roche<sup>15</sup>, C. Isbert<sup>16</sup>, M. Trompetto<sup>17</sup>, A. d'Hoore<sup>18</sup>, K. Matzel<sup>19</sup>, E. Xynos<sup>20</sup>, L. Lundby<sup>21</sup>, C. Ratto<sup>22</sup>, E. Consten<sup>23</sup>, A. Infantino<sup>24</sup>, Y. Panis  <sup>25</sup>, G. Terrosu<sup>26</sup>, E. Espin<sup>27</sup>, J.-L. Faucheret  <sup>28</sup>, A. Guttadauro<sup>29</sup>, M. Adamina  <sup>30</sup>, P. A. Lehur<sup>31</sup> and D. F. Altomare<sup>1</sup>

31 surgeons from 12 countries

# Outlet obstruction - Surgery

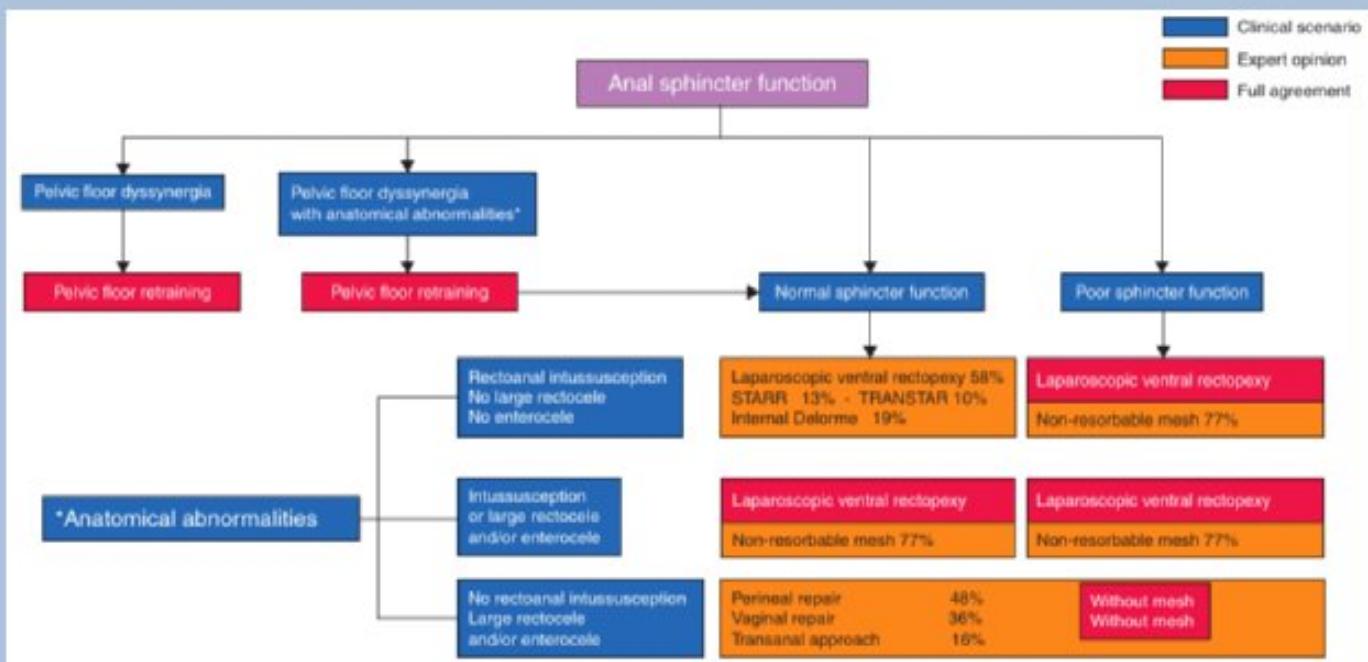
Table 1 Diagnostic statements and experts' agreement

Statements	Experts' answers				Agreement (%)	Expert opinion
	FA	A	WA	D		
In diagnostic assessment, the use of a scoring system to assess the severity of symptoms is recommended	21	10	0	0	82	Appropriate
In the diagnostic work-up, preoperative anal manovolumetry is mandatory	14	8	7	0	50	Uncertain
Among diagnostic imaging, dynamic proctography with vaginal/bladder and intestinal contrast medium should be preferred	21	9	1	0	97	Appropriate
Anal sphincter/pelvic floor function (non-relaxing—normal tone—hypotonic) must be evaluated to choose between a transanal or transabdominal approach	13	8	6	4	50	Uncertain

FA, full agreement; A, agreement; WA, weak agreement; D, disagreement.

Questions	Answers	Agreement(%)
Use a scoring system to assess the severity of symptoms is recommended by 100 per cent of the panel. Which score do you prefer?	Agachan/Wexner CCS Altomare ODS score Renzi ODS score Others	13 77 0 10

# Outlet obstruction - Surgery



# Outlet obstruction - Surgery

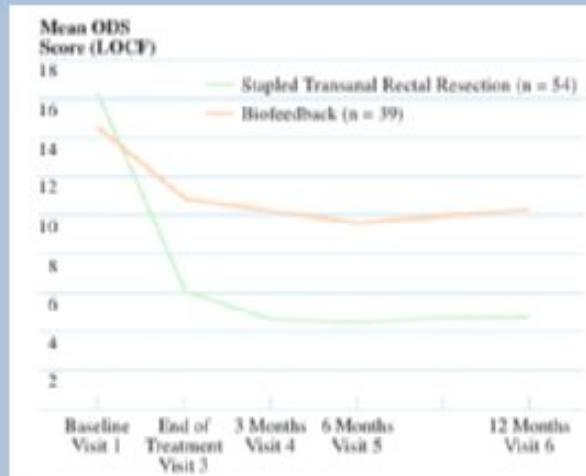
## Outcomes of Stapled Transanal Rectal Resection vs. Biofeedback for the Treatment of Outlet Obstruction Associated with Rectal Intussusception and Rectocele: A Multicenter, Randomized, Controlled Trial

119 female patients with ODS

RCT: STARR vs. Biofeedback



# Outlet obstruction - Surgery



**Table 3.** Success rate defined as a ODS score decrease  $\geq 50$  percent at 12 months in the evaluable and per-protocol populations

	Evaluable population		Per-protocol population	
	STARR	Biofeedback	STARR	Biofeedback
N (%)	54	39	31	19
Yes	44 (81.5)	13 (33.3)	25 (80.6)	5 (26.3)
No	10 (18.5)	26 (66.7)	6 (19.4)	14 (73.7)

ODS=obstructed defecation syndrome; STARR=stapled transanal rectal resection.

# Outlet obstruction - Surgery

## Comparative outcome of stapled trans-anal rectal resection and macrogol in the treatment of defecation disorders

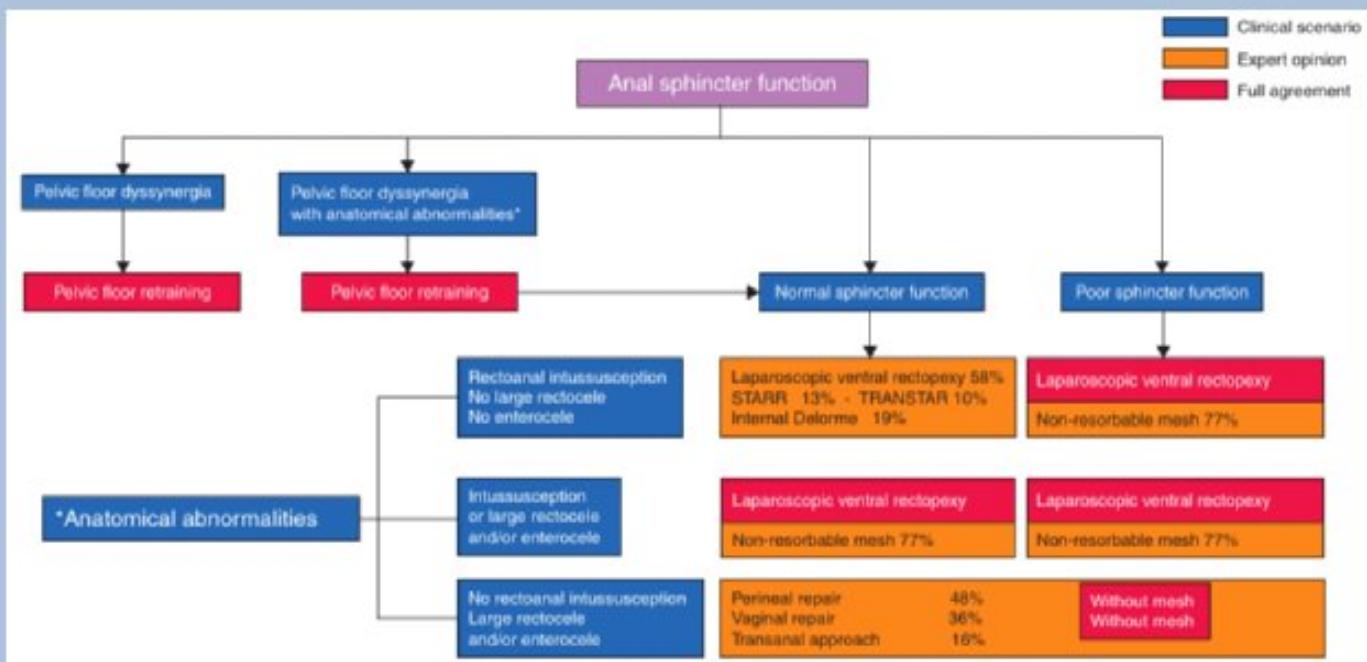
N=60

Macrogol vs. STARR

**Table 3 Number of responders, degree of satisfaction, and Wexner constipation score variation during macrogol and after stapled trans-anal rectal resection treatment n (%)**

	Macrogol	STARR	P value
Responders	22 (73)	16 (53)	0.2
Satisfaction			0.4
Total	18 (60)	16 (53)	
Partial	5 (17)	9 (30)	
Not satisfied	7 (23)	5 (17)	
Δ Wexner score, mean $\pm$ SD	8 $\pm$ 5	6 $\pm$ 5.2	0.1

# Outlet obstruction - Surgery



# Outlet obstruction – Perineal Surgery

Statements	Experts' answers				Agreement(%)	Expert opinion
	FA	A	WA	D		
Irrespective of anal sphincter function in patients affected by large rectocele without rectal intussusception, a perineal approach should be preferred	12	9	7	3	54	Uncertain

# Outlet obstruction – Perineal Surgery

## Rectocele: victim of availability bias? Results of a Belgian survey of colorectal and gynecological surgeons

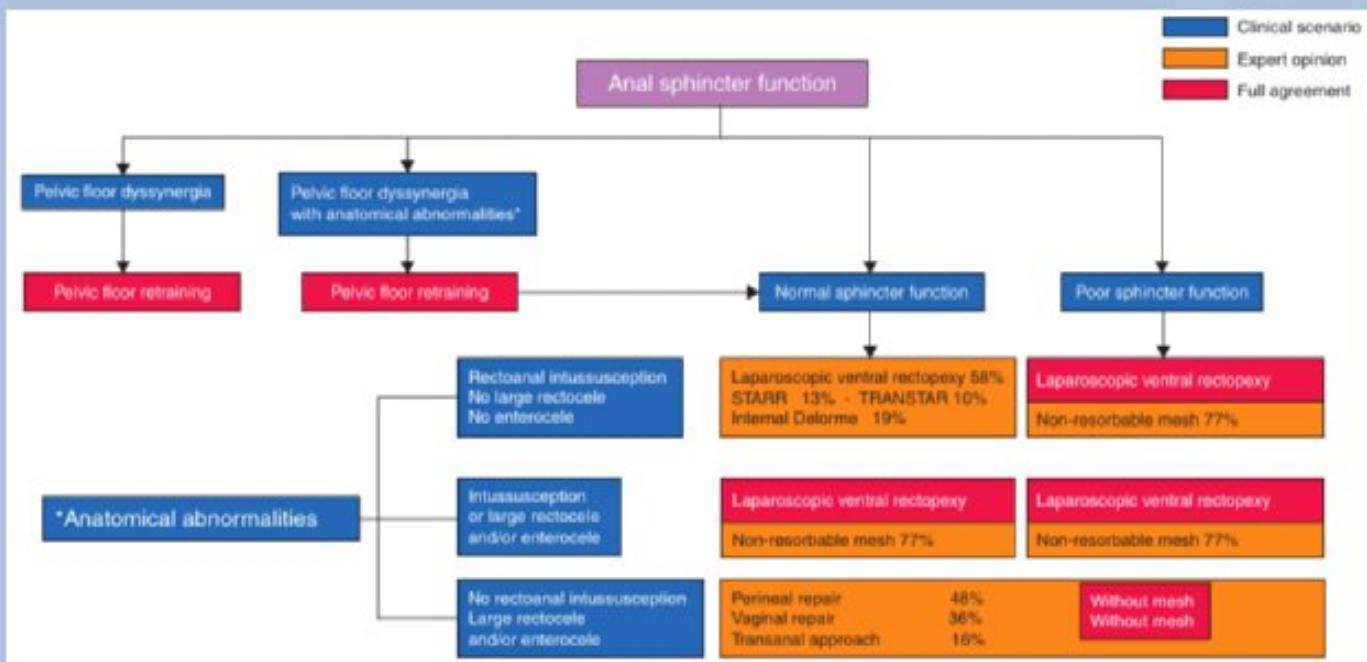
	Colorectal surgeons (N=41)	Gynecologists (N=23)	P value
Definition of rectocele			
Prolapse posterior vaginal wall	17 (41%)	18 (78%)	0.005
Weakening anterior rectal wall	13 (32%)	2 (9%)	0.037
Other	11 (27%)	3 (13%)	0.201
Clinical examination (CE) of rectocele			
Dorsal decubitus	18/37 (49%)	22/22 (100%)	< 0.001
Speculum	11 (27%)	21 (91%)	< 0.001
Vaginal examination	30 (73%)	20 (87%)	0.201
Digital rectal examination	37 (90%)	13 (57%)	0.002

# Outlet obstruction – Perineal Surgery

## Rectocele: victim of availability bias? Results of a Belgian survey of colorectal and gynecological surgeons

	Colorectal surgeons (N=41)	Gynecologists (N=23)	P value
I treat a rectocele myself	37 (90%)	20 (87%)	0.065
I refer the patient to a pelvic floor specialist			
Gynecologist	0 (0%)	2 (9%)	0.125
Colorectal surgeon	3 (7%)	1 (4%)	1.000
Gastroenterologist	0 (0%)	0 (0%)	1.000
Multidisciplinary discussion/consultation	1 (3%)	0 (0%)	1.000
Surgery for rectocele technique			
Posterior repair without mesh (CP)	5 (12%)	18 (78%)	< 0.001
Posterior repair with mesh	3 (7%)	1 (4%)	1.000
Transanal repair	2 (5%)	0 (0%)	0.525
Sacrocolpopexy	1 (2%)	3 (13%)	0.141
Ventral mesh rectopexy (VMR)	26 (63%)	0 (0%)	< 0.001
Other	4 (10%)	1 (4%)	0.646

# Outlet obstruction - Surgery



# Outlet obstruction – Ventral Mesh

Autor	Jahr	Pa- tien- ten	Follow- up (n)	Metho- de	Dis- sek- tion la- terales Liga- mente	Indikation	Funktionelle Resultate				Obs- tipa- tion prä- op	Obsti- cation: Ände- run- gung postop	Score	Besonder- heiten
							Fl prä- op	Fl: Än- derung postop	Scor- re	(%)				
Collinson [6]	2009	75	12	LVR	Nein	III/IV° IRP	78,6	44°	FISI	86,6	35°	WCS		
Slawik [43]	2008	80	54	73LVR 7 RR	Nein	55% ERP 45% III° IRP	53,75	91°	CCIS	31	80°	Unbek.	5,5°	Mit post. Col- porrhaphie vag. Sakro- kolpopexie in 74 Fällen
Sileri [41]	2012	34	12	LVR	Nein	III/IV° IRP	44,1	73,4°	FISI	82,4	82°	WCS		
Portier [37]	2011	40	22	LVR 17 lap. 23 konv.	Nein	IRP	100	97,5°	CCIS	50	65°			
Portier [36]	2006	73	28,6	OL 47 konv. 26 lap	Nein	ERP IRP	65,75	99,7°	CCIS	50,7	62,1°	Score nach Dourard		
Wong [51]	2011	41 +33	12	LVR mod.	Nein	„Komplexe“ Rektoszele	k.A.	+	CCIS	Median 9,5	+	ODS	15 Robotic- Operationen	
Van den Es- schert [47]	2008	17 +16	38	LVR	Nein	OD ERP: 1 IRP: 4	17,7	100°	Un- bek.	Me- an 3,5	-	ODS		
Oem [32]	2008	33	6	LVR	Unbek.	Rektoszele OD	-	-	-	60,6	45	ROME II		

CCIS Cleveland Clinic Incontinence Score, ERP externe Rektumprolaps, FI fakale Inkontinenz, FISI Fecal Incontinence Severity Index, IRP interner Rektumprolaps, k.A. keine Angabe, Konv. konventionelles (offenes) Verfahren, LVR laparoskopische ventrale Rektoskopie nach O’Hoore, OD obstruktive Defäkation/Ostipation, ODS Obstructed Defecation Score, OL Operation nach On-Loygue, RR Resektionsrektoskopie, postop postoperativ, präop präoperativ, Unbek. Unbekannt, WCS Weiner Constipation Score. \*Nach dem beschriebenen Follow-up noch erreichbare Patienten; °verbessert/gesund; †verschlechtert/neu aufgetreten.

# Outlet obstruction - Surgery

## Laparoscopic ventral mesh rectopexy in complex pelvic floor disorder

2010-2016

Complex pelvic floor disorder

Symptomatic rectocele, enterocele and possible rectal prolapse I° or II °

# Outlet obstruction - Surgery

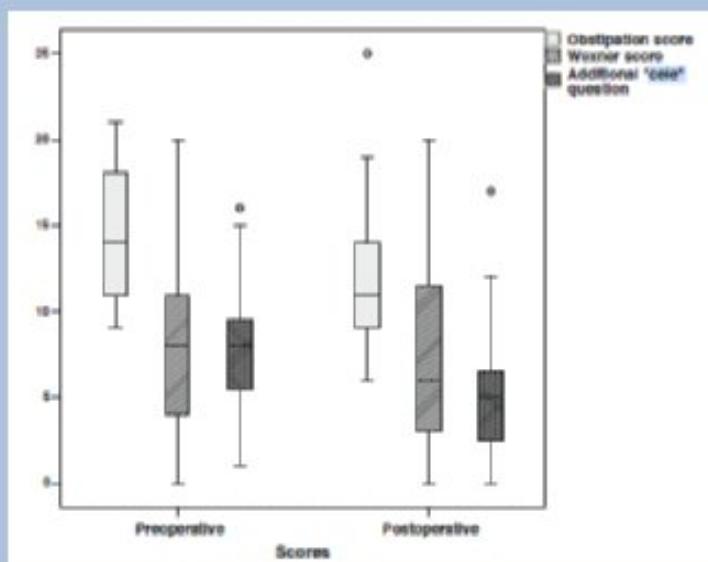
## Laparoscopic ventral mesh rectopexy in complex pelvic floor disorder

Female/male	27/0
Age (median; range)	60 (24–78)
Antecedent history (months)	24 (3–480)
Median; range	
<i>Preoperative findings</i>	<i>n (%)</i>
Rectocele	22 (78.6)
Enterocèle	18 (64.3)
Rectal prolapse	12 (42.9)
Pelvic floor descent	22 (78.6)

FU: 22 mths

# Outlet obstruction - Surgery

## Laparoscopic ventral mesh rectopexy in complex pelvic floor disorder



# Outlet obstruction - Surgery

## Laparoscopic ventral mesh rectopexy in complex pelvic floor disorder

Sexual activity before surgery	15 (55.5%)	
Improvement after surgery		6 (40%)
Change for the worse		8 (53%)
Refusal to answer		1

# Outlet obstruction - Surgery

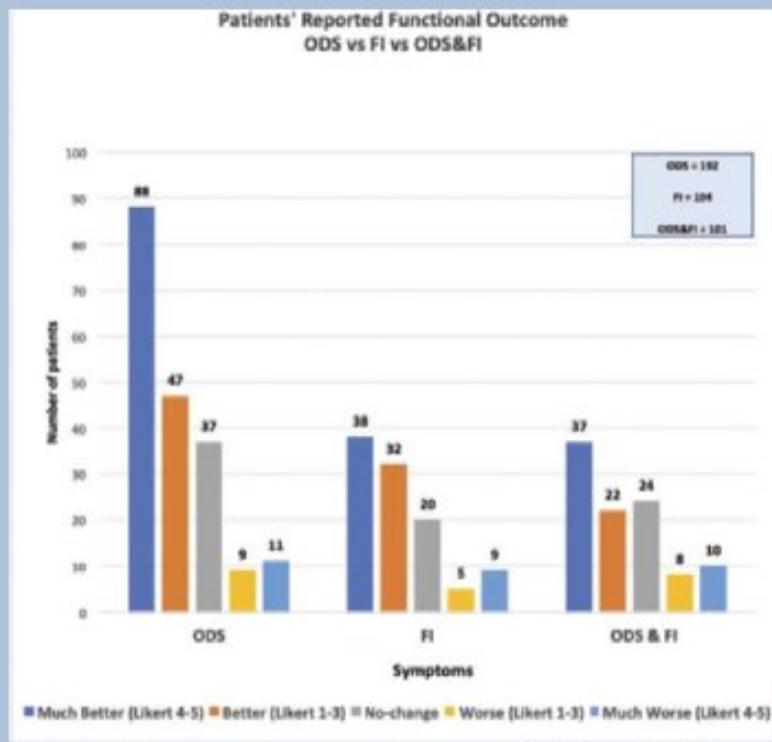
Patients' Perception of Long-term Outcome After Laparoscopic Ventral Mesh Rectopexy; Single Tertiary Center Experience

N=192 ODS patients

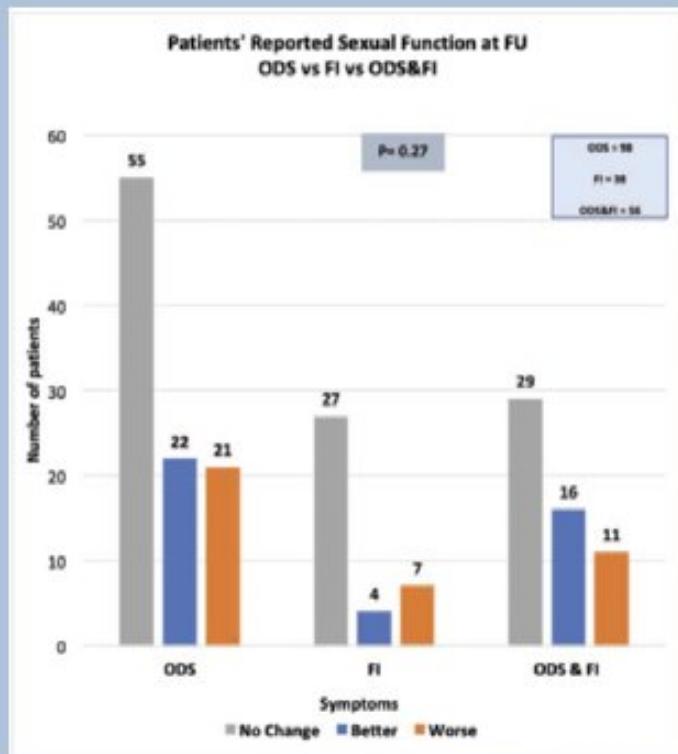
N= 104 FI patients

N= 101 ODS &FI patients

# Outlet obstruction - Surgery



# Outlet obstruction - Surgery



Singh S, et al. Annals of Surgery Volume 276, Number 5, November 202

## Summary ODS

- Differentiation between morphological and functional pathologies
- Surgical procedures are controversially discussed
- No standardization due to variety of clinical scenarios possible

## Summary

- Adequate therapy remains in both ODS and STC a challenge
  - applies to conservative therapy options as for surgical therapy concepts
- Individualised therapy approach based on symptoms and quality of life
- Careful indication for surgery – benign disease!

# VIELEN DANK

