

## Stapled transanal rectal resection **Ist der STARR abgetreten?**



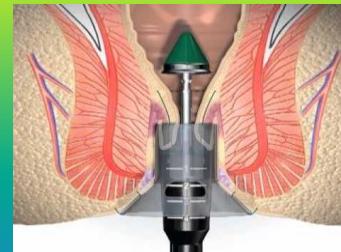


coloproctology  
st. gallen & rorschach

Kantonsspital  
St.Gallen



I LOVE  
THE 90's



Anale Stapler Ära

## Treatment of haemorrhoid disease by reduction in mucosal and haemorrhoidal products with a circular stapling device-new procedure.

Montori A, Lirici M, Montori J, editors. Proceedings of the 6th World Congress of Endoscopic Surgery, Rom, Italy. Bologna, Italy: Monduzzi Editore; 1998. 777-784.



A. Longo

## Longo A. Obstructed defecation because of rectal pathologies. Novel surgical treatment: rectal resection (STARR).

Proceedings of the 14th annual international colo-rectal Disease Symposium, Ft Lauderdale, Florida, 2003.



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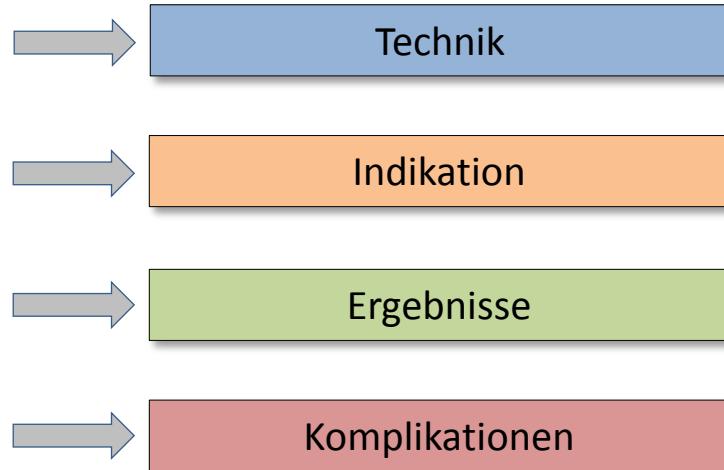
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## Ist der STARR abgetreten?



# Obstruktives Defäkationssyndrom

## Adaptierte Rome III Kriterien<sup>1,2</sup>

(mind. 2 Kriterien, bei mindestens 25% der Defäkationen, über mindestens 12 konsekutive Wochen)

- Weniger als 3 Stuhlentleerungen pro Woche
- Harter Stuhlgang
- Pressen zur Stuhlentleerung
- Gefühl der unvollständigen Entleerung
- Gefühl der anorektalen Blockierung
- Manuelle Unterstützung der Entleerung

} Slow-Transit-Constipation

} Outlet-Obstruction

⇒ **Unfähigkeit den Stuhl zu entleeren**

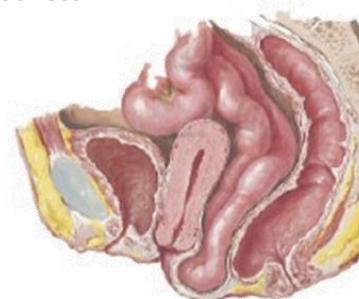
<sup>1</sup> Bharucha A et al. Gastroenterology 2006

<sup>2</sup> Thompson WG et al. Gut 1999

# Obstruktives Defäkationssyndrom?

## Funktionelle Störungen

- Anismus
- Dyskoordination
- Spastik
- Nervenläsionen
- M. Hirschsprung
- M. Parkinson
- Myopathien
- Inertia recti
- ...

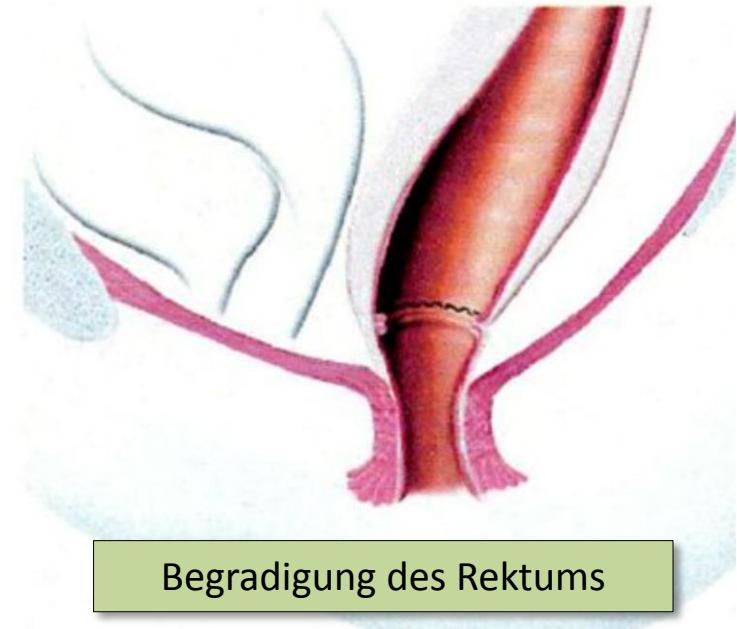
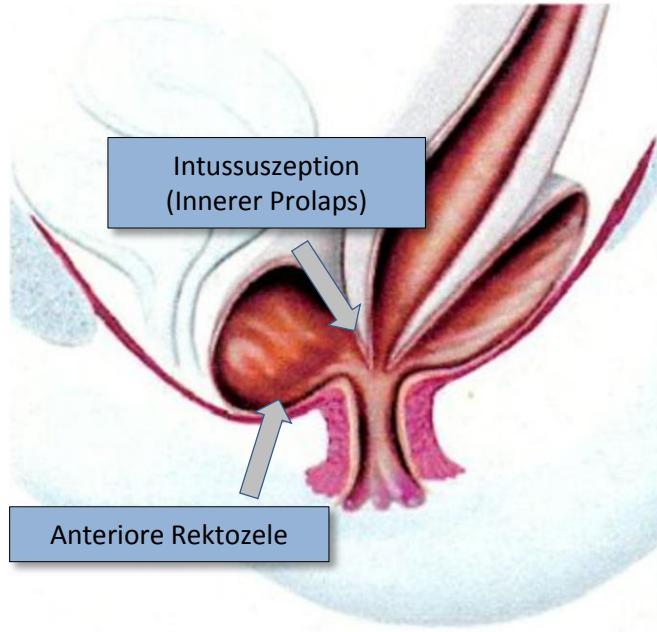


## Morphologisch-Organische Störungen

- Rektocoele
- Intussuszeption
- Vollwandprolaps
- Enterocoele
- Sigmoidocele
- Descensus perineum syndrome
- Rektumkarzinom
- Anastomosenstenose
- Myopathien
- Internushypertrophie
- Sphinkterdysplasie
- Autonome Denervation
- Dysganglionose
- ...



## Technik: Prinzip



# Technik: Konventioneller STARR & Contour-Transtar STARR



Klassischer STARR

Int J Colorectal Dis (2004) 19:359–369  
DOI 10.1007/s00384-003-0572-2

**ORIGINAL ARTICLE**

Paolo Boccasanta  
Marco Venturi  
Giovanni Anglone  
Bruno Mario Cesana  
Francesco Giancarlo

New trends in the surgical treatment of outlet obstruction: clinical

**ORIGINAL CONTRIBUTION**

**Stapled Transanal Rectal Resection for Obstructed Defecation Syndrome: One-Year Results of the European STARR Registry**

D. G. Jayne, M.D.<sup>1</sup> • O. Schwandner, M.D.<sup>2</sup> • A. Stuto, M.D.<sup>3</sup>  
<sup>1</sup> Leeds General Infirmary, Leeds, United Kingdom

**DISEASES OF THE COLON & RECTUM**  
**ORIGINAL CONTRIBUTION**

**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**

Paul A. Lehrer, M.D.<sup>1</sup> • Angelo Stuto, M.D.<sup>2</sup> • Michel Fantoli, M.D.<sup>3</sup>  
<sup>1</sup> Rob  
<sup>2</sup> Fost  
<sup>3</sup> Alfa  
Gül  
Ran

**ORIGINAL ARTICLE**

**Stapled trans-anal rectal resection (STARR) by a new dedicated device for the surgical treatment of obstructed defaecation syndrome caused by rectal intussusception and rectocele: early results of a multicenter prospective study**

Adolfo Renzi • Pasquale Talento • Cristiano Giardillo •  
Giovanni Anglone • Domenico Izzo • Giandomenico Di Sarro

Int J Colorectal Dis (2008) 23:999–1005  
DOI 10.1007/s00384-008-0522-0

**ORIGINAL ARTICLE**

Adolfo Renzi • Pasquale Talento • Cristiano Giardillo •  
Giovanni Anglone • Domenico Izzo • Giandomenico Di Sarro

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STAR with Contour® Transtar™: prospective multicentre European study

L. Lenisa\*, O. Schwandner†, A. Stuto‡, D. Jayne§, P. Pigot¶, J.J. Tusch\*\*&, R. Scherer||,  
K. Nugent||, F. Corliss||, S. Espinosa||, C. Mayney|| and F. H. Heitz||  
\*Department of Surgery, University of Regensburg, Regensburg, Germany; †Institute of Research in Surgery, Osiose 3, Marly-les-Mines, France; ||Department of Surgery, University Hospital, St. Louis, USA; ¶Department of Physiology, Rega Institute, Leuven, Belgium; §Divisions of Colorectal Surgery, Department of Surgery, University of California, Los Angeles, USA; \*\*Department of Surgery, University of California, San Francisco, USA; ||Department of Surgery, University of Regensburg, Regensburg, Germany; ||Department of Surgery, University Hospital, St. Gallen, Switzerland; ¶Department of Surgery, Hospital Vall d'Hebron, Barcelona, Spain and §§Department of Surgery, Central Hospital St. Gallen, Switzerland

Received 27 June 2008  
Accepted 17 January 2009  
Published online 27 February 2009

**ORIGINAL CONTRIBUTION**

**Improved Clinical Outcomes With a New Contour-Curved Stapler in the Surgical Treatment of Obstructed Defecation Syndrome: A Mid-Term Randomized Controlled Trial**

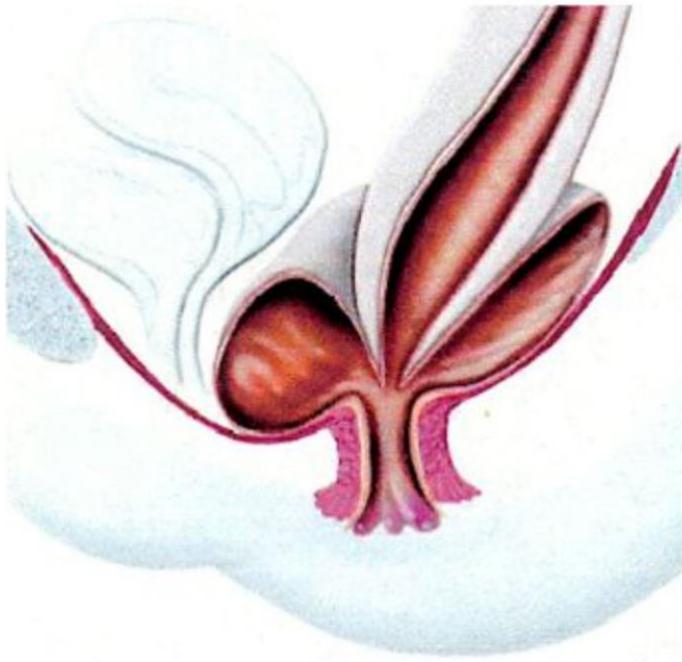
Adolfo Renzi, M.D., Ph.D. • Antonio Brillantino, M.D. • Giandomenico Di Sarro, M.D.,  
Domenico Izzo, M.D. • Francesco D'Aniello, M.D. • Armando Falato, M.D.  
Colorectal Surgery Unit, S. Stefano Hospital, Naples, Italy



Transstar STARR



## Indikation



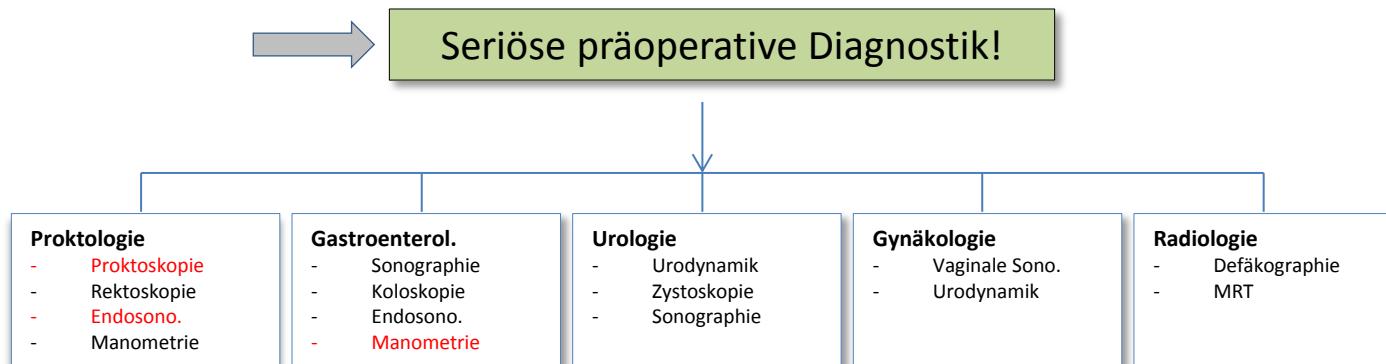
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- Sphinkterdysplasie
- Autonome Denervation
- Dysganglionose
- ...

STARR

## Indikation: Pitfalls

- Anismus und Slow-Transit-Constipation: Kontraindikation!
- Postoperative Inkontinenz bei vorbestehender Sphinkterschwäche möglich / „Ventilmechanismus“
- Urge-Symptomatik bei zu kleinem Rektalvolumen



## Ergebnisse: International

Stapled Trans-Anal Rectal Resection (STARR) in the Surgical Treatment of the Obstructed Defecation Syndrome: Results of STARR Italian Registry  
*SURG INNOV* September 2011 18: 248-253, first published on February 8, 2011

*Stuto et al. 2011*

Patienten (n = ...)	Mittlerer FollowUp (Monate)	Verbesserung der Symptome	Bleibende Verschlechterung Inkontinenz
2171	12	Massive Verbesserung in allen LQ Scores ( $p<.0001$ )	4.5%

## Ergebnisse: KSSG

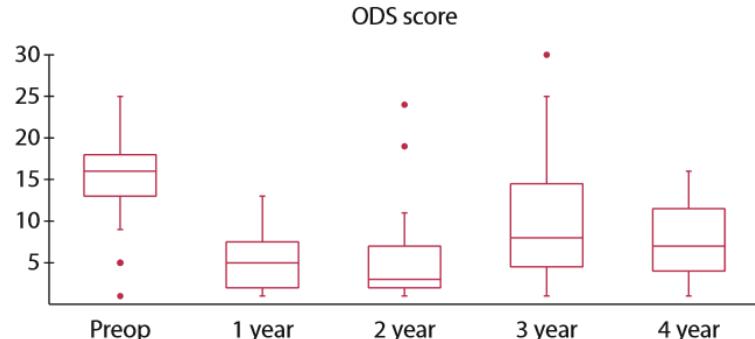
**ORIGINAL CONTRIBUTION**

**Long-term Outcome After Transanal Rectal Resection in Patients With Obstructed Defecation Syndrome**

Susanne Bock<sup>1</sup> • Katja Wolff, M.D.<sup>1</sup> • Lukas Marti, M.D.<sup>1</sup>  
 Bruno M. Schmid, M.D.<sup>1</sup> • Franc H. Hetzer, M.D.<sup>2</sup>

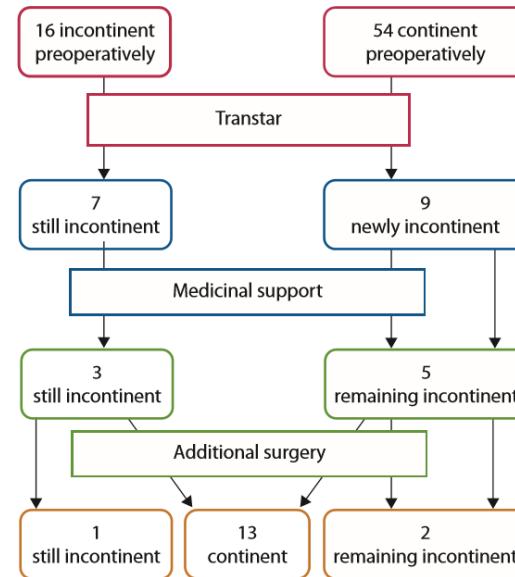
<sup>1</sup> Department of Surgery, Cantonal Hospital St. Gallen, St. Gallen, Switzerland  
<sup>2</sup> Surgical Clinic, Cantonal Hospital Schaffhausen, Schaffhausen, Switzerland

DISEASES OF THE COLON & RECTUM VOLUME 56: 2 (2013)



Signifikante Verbesserung postoperativ  $p = 0.01$

## Postoperative Inkontinenz



# Komplikationen



M. Pescatori

Tech Coloproctol (2008) 12:7–19  
DOI 10.1007/s10151-008-0391-0

REVIEW

**Postoperative complications after procedure for prolapsed hemorrhoids (PPH) and stapled transanal rectal resection (STARR) procedures**

M. Pescatori • G. Gagliardi

Int J Colorectal Dis (2009) 24:87–95  
DOI 10.1007/s00384-008-0556-3

ORIGINAL ARTICLE

**Reinterventions after complicated or failed STARR procedure**

Mario Pescatori · Andrew P. Zbar

- Rektumperforation mit Sepsis
- Akzidentieller Rektumverschluss
- Rektovaginale Fistel
- Schockierende Blutungen aus Meso oder Anastomose
- Mediastinalemphysem und retroperitoneales Emphysem
- Rektumnekrose
- Stapler-Dysfunktionen (Dehiszens Staplerlinie etc.)
- Analstriktur
- Chronische Schmerzen postoperativ
- Rektumdivertikel (Entzündung, Perianalabszess, Fistel)
- Penisverletzungen bei Analverkehr
- Urgency
- Inkontinenz

## Zusammenfassung: STARR

- Evidenzbasierte Operationstechnik zur Behandlung des ODS
  - Gute Langzeitergebnisse
  - Vertretbare postoperative Inkontinenz
- Enge Indikationsstellung
  - Symptomatische (anteriore) Rektozele
  - Intussuszeption
- Sorgfältige Patientenaufklärung unerlässlich; Cave Pitfalls!
- Die Abklärung sollte immer interdisziplinär an einem erfahrenen Zentrum erfolgen

Ist der STARR abgetreten?

Klares NEIN!

**Wir bedanken uns für die Aufmerksamkeit**

