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## Are the long-term results of the transanal pull-through equal to those of the transabdominal pull-through? A comparison of the 2 approaches for Hirschsprung disease

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Pull-through; Transanal; Long-term; Enterocolitis; Continencetreatment of Hirschsprung dis that may impact the contin conventional transabdominal Methods: Records of 41 pati n = 20; ABD, n = 21) were no 15-item post-pull-through lo years 1995 and 2003. During Total scoring ranged from 00 A 2-tailed Student <i>t</i> test, and analyze the collected data were group, and the stool pattern interview between the 2 grout showed that age did not sign Conclusion: Our long-term enterocolitis scores were some enterocolitis scores were some	
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Traditionally, treatment of Hirschsprung disease (HD) had consisted of a colostomy at diagnosis followed by one of a

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variety of pull-through procedures later on [1]. Over the past decade, an evolution in the surgical management of HD has occurred. The previous gold standard of multistaged procedures with a preliminary stoma was replaced by one stage pull-through in many centers worldwide with results as favorable as multistaged procedures [2-4], and there may be a cost advantage as well [3]. More recently, minimally invasive

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procedures for pull-through have become popular; these have consisted of pull-throughs using laparoscopic abdominal and pelvic mobilization of the rectum and colon [5].

De la Torre-Mondragon and Ortega [6] first described the exclusive transanal endorectal pull-through (TERPT) technique in 1998 and were followed by Albanese et al [7] and Langer et al [8] in 1999. This may not include any intraabdominal or pelvic dissection, and may not require laparotomy or laparoscopy [9]. The risks of contamination and adhesion formation are minimal; the procedure does not damage the pelvic structures, it is not expensive, and it has the best cosmetic results.

Recently, TERPT has become the most popular procedure for the treatment of HD, but overstretching of the internal anal sphincter remains a critical issue, which may impact the long-term continence outcome. Because TERPT is a relatively new procedure, to our knowledge, there is no single report in the literature that addresses the long-term results of this procedure and compares these to other pullthrough approaches. This study represents the first report of the long-term outcome of TERPT and compares these results with the conventional transabdominal (ABD) pullthrough results.

## 1. Methods

From 1995 to 2003, 124 HD cases were treated at the CS Mott's Children Hospital, University of Michigan. The study protocol was fully approved by our hospital

 Table 1
 Telephone questionnaire scores for patients older than 3 years

Study no.		Patient initials:	Reg #:	
No.	Question	Answer	Points	Score
1 Frequency of defecation:	Frequency of	Only with enema	4	
	defecation:	Only with	3	
		suppository		
		Every 3 d or more	2	
		but spontaneous		
		Every 1-2 d	1	
		Normal (1-2/d)	0	
	Often (3-5/d)	1		
		6-7/d	2	
		8 or more	3	
		movements/d		
2	Stool consistency	Hard	1	
		Normal	0	
		Loose	1	
		Liquid	2	
3	Stool odor	Normal odor	0	
		Offensive odor	1	
	Is he/she fully	Yes	0	
	continent?	Partially	2	
		(occasional		
		accidents)		
		Not continent	3	

Study no.		Patient initials:	Reg #:	
No.	Question	Answer	Points Score	
5	~	None	0	
	Requires diapers:	Night or activity	1	
		Continuously	3	
		None	0	
6	Soiling	Occasional	1	
			1	
		(1-3  times/d)	2	
		Often (4-6 times/d)	2	
	Permanent (more	3		
7	ima of sailing	than 6 times/d)	0	
7	Time of soiling	None	0	
		At night or activity	1	
-	TT · 1	At day and night	2	
8	Urgency period:	Normal (min)	0	
A—at day	A—at day	Short (s)	2	
		Absent	3	
B—at night	B—at night	Normal (min)	0	
	Short (s)	1		
~		Absent	2	
8	Sense of fullness	Fullness and	0	
	and evacuation	full evacuation		
	after defecation	Fullness but	1	
		partial evacuation		
		Absent sense	2	
		of fullness		
	Loss of stool during	No	0	
	coughing or crying:	Gas	1	
		Liquid	2	
		Solid	3	
11	Need for medical	No	0	
	therapy to	Long period	1	
	control stooling:	but finally		
		weaned off		
		Occasionally	2	
		Always	3	
12	Distension	No	0	
		Mild	1	
		Moderate to severe	2	
	Recurrent attacks	None	0	
	of enterocolitis:	1-3 attacks	1	
		4-6 attacks	2	
		More than 6 attacks	3	
14	When was their	None	0	
	last attack of	36 mo or less	1	
	HAEC?	postoperative		
		More than 36 mo	2	
		postoperative		
15	For how long	Less than 1 mo	0	
	since they have	1-18 mo	1	
	been on medications		2	
	postoperatively?		_	
		d enterocolitis		

Table 1 continued

HAEC, Hirschprung-associated enterocolitis.

Institutional Review Board (IRB approval number: HUM00000592). During that time, our group transitioned from the ABD to the TERPT technique. Patients who Download English Version:

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