

Clinical Results of Subtotal Colectomy in Chronic Constipation Patients

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Purpose: The aim of this study was to assess the outcome of subtotal colectomy on patients with a diagnosis of chronic constipation. **Methods:** A retrospective review of 11 consecutive patients who underwent subtotal colectomy between January 1990 and July 1999 was undertaken. Preoperative testings included complete history and physical examination, anorectal manometry, videodefecography, and colonic transit studies. **Results:** The 11 patients consisted of 5 men and 6 women, with a mean age of 44 (range, 25-62) years. The most common symptom was inability to defecation and mean duration of this symptom was 13.6 (range, 0.75-45) years. Ten patients had slow colon transit and one patient had normal colon transit with anismus. All patients were followed up for mean duration of 33 (range, 5-120) months. Mean bowel frequency was 4 times per day after colectomy. Nine patients were satisfied with the results of surgery and showed improvement in quality of life. One patient was less satisfied due to diarrhea even with several times bowel movement per day. One patient felt that the operation was not so effective due to incontinence for liquid stool and 7 bowel movement per day. Three patients frequently used antidiarrheal medication after surgery. Three patients had postoperative small bowel obstruction and were treated without surgery. **Conclusion:** Subtotal colectomy with ileorectal anastomosis produces a satisfactory functional outcome in the majority of patients with proven slow transit constipation. (JKSCP 2000;16:395-401)

Key Words: Subtotal colectomy, Constipation, Slow transit constipation, Anismus, Clinical results

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가

가 4가
(Table 1).

1908 Lane¹
(Colonic inertia)

가

5 80%

20%

가

가

, S

가

X

(fluoroscopy) (radiopaque stool) (rest), (squeeze), (defecation)

1990 1 1999 7 9 6

11

T₃, T₄, TSH

11 5 120 33

(Rectal sensation test),

5

1)

11 가 5 , 가 6

(Nonrelaxing puborectalis syndrome, Anismus) 가

25 62 35 62 44

가

51 25 55 38

(Initiation volume)

2)

(Defecation volume) 가

(Maximal tolerable volume) 3가

(100%) 가

45) 13.6 (9 (27%), (9%), (9%) (36%),

(defecation)

3)

가

10 가

24

, 1 3 7

(Radiopaque marker)가

가

(Sitzmarks[®])

1, 3, 5

4) 가 , 2 가
 5 가 , 1 가
 5 (Melanosis coli)
 4 1
 6) 가 5 11 5
 1 . 가 3
 5 가 , 1
 , 6 가 , 1
 11 가 10 7)
 가 1 11 7
 가 (Nonrelaxing puborectalis syndrome, Anismus) 가 (2),
 11 가 4 (2) , ,
 , 3 1 (Table 2).
 (Poor rectal emptying) , 2
 , 1 (Rectocele), 1 8)
 5) 가
 가
 11 8 가 (My- 11 7 가
 enteric nerve plexus) , , 3

Table 1. Diagnostic strategy for assessment of constipation

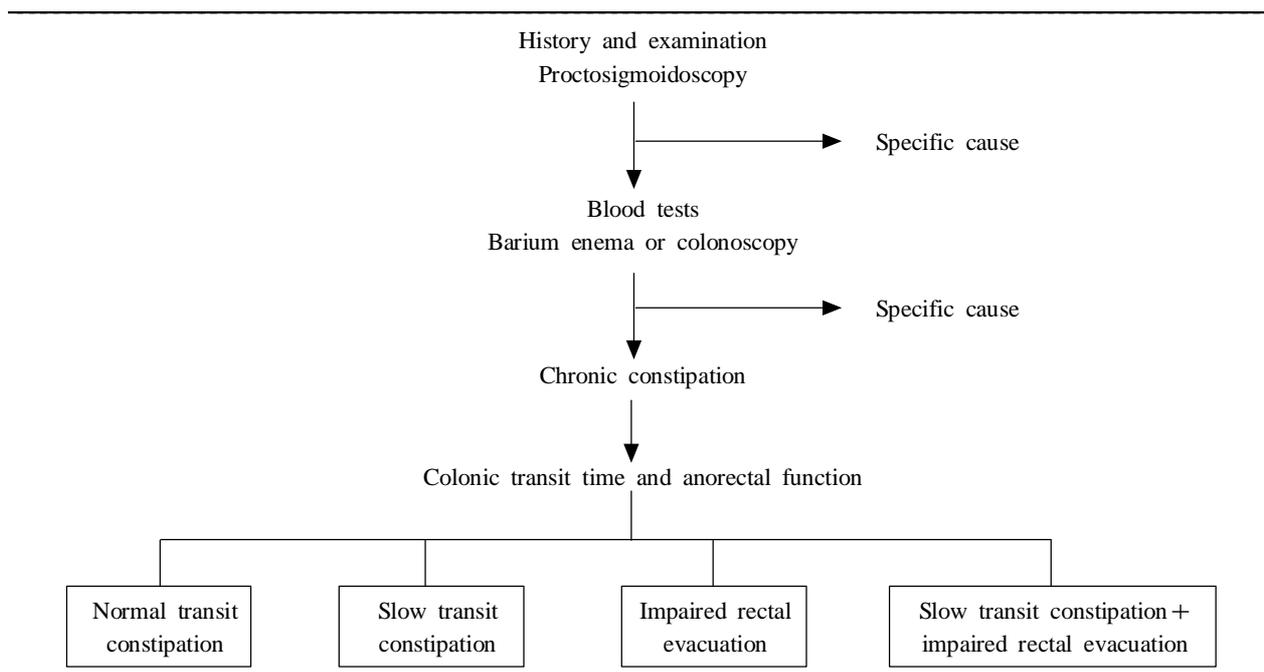


Table 2. Symptoms after surgery

Symptoms	Number (%)
Bloating	2 (18)
Incomplete evacuation	2 (18)
Diarrhea	1 (9)
Incontinence and diarrhea	1 (9)
Anal pain	1 (9)

Table 3. Frequency of bowel movement & patients' satisfaction

Patient	Preop. B.M* (No/day)	Postop. B.M (No/day)	Follow-up (months)	Results
1	0.5	2	5	good
2	1	7	16	poor
3	0.1	5	19	good
4	0.25	5	14	good
5	0.3	3	6	good
6	0.07	7	29	poor
7	0.3	7	11	good
8	0.3	4	2	good
9	0.1	2	20	good
10	0.1	3	120	excellent
11	0.25	5	120	good

*B.M = Bowel movement.

, 1
(Table 3).

9)

11 9 가
2
(Table 3).

가

, 가

. 가
가 1 2
Drossman³
25% 가

가

가 1

2 3가 2
가 3
. 4 3가 , 25%
가 , , 25%
, , 25%

Johanson Sonnenberg⁵
2% , , , ,
가

30%

Table 1

4가 , ,
,

가 가 ,
(Proctosigmoidoscopy)

가 , T₃,
T₄, TSH

가

10

(Slow transit constipation)

(Nonrelaxing

puborectalis syndrome, Anismus)

(Myen-

teric nerve plexus)

가

가

,⁷ Dolk⁸

.⁹

Wexner¹³

7

가

1

1

.⁶ 10

가

Mahorner⁹ 7

¹⁴

71%

Kamm,¹⁵ Vasilev-

가

sky,¹⁶ Takahashi¹⁷

90%

9 (81%)

, 11

2 (19%)

가

(Rectal prolapse),

outlet obstruction)가

(pelvic

muscle)

(Puborectalis

.

(pelvic outlet obstruction)가

.

가

가

가

11 10

Biofeedback

Bleijenberg

(pelvic outlet obstruction)가

Kuijpers¹⁸가

Biofeedback

가

-

,

-

가

가

가

. Todd¹⁰

Biofeedback

50 80%

가

-

.

¹⁹ Botulinum A Toxin

ton¹¹

-

Pres-

,

. Pemberton¹²

-

Koutsomanis¹⁹

11

가

Wexner¹³

16

, Kamm²⁰ Kawano²¹

8.5

1

가

24%, 43%

1

3.5

가

11

11

1

가

1

4.5

가

, 40

가

,

4

7

2

가

20

가

9

1

4

가

. 19

가 Biofeedback Botulinum
toxin A 가
50% 가
11 3 (28%) 가
(19%) Yoshioka²⁸
Kamm¹⁵ 44 17 (39%),
6 (14%) 1 (9%)
7
가

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