

Surgical Treatment for Obstructing Carcinomas of the Left Colon and Rectum

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Purpose: There have been many different kinds of options for obstructing left colon (distal to splenic flexure) and rectal cancer because immediate resection and anastomosis was known to cause many complications. We performed this study to analyse operative cases and evaluate which procedure had the better result.

Methods: Thirty-six cases of left colon cancer and rectal cancer with complete obstruction were analysed from 1990 to January 2001 and those cases were divided into two groups, the group of staged procedure and the group of primary resection. 28 cases were curative operations and 8 cases were palliative operations.

Results: The group of staged procedures had 17 cases of curative operations with 1st stage-colostomy and 2nd stage-cancer resection. And the group of primary resection had 11 cases of curative operations, 6 cases of Hartmann's procedures, 2 cases with intraoperative colonic lavage and 3 cases with cancer resection, anastomosis and proximal colostomy. There were no differences in the distribution of age and cancer stage between two groups. In both groups, the sigmoid colon was the most prevalent obstruction site. The staged procedure group had higher operative mortality (25%) than the primary resection group (8%). And 5-year survival rate of the primary resection group was higher than that of the staged procedure group (45% vs 33%), but there was no statistical significance.

Conclusions: We think that the primary resection is a better surgical procedure because of shorter hospital stay and fewer operations in the treatment of obstructing left colon and rectal cancer. JKSCP 2001;17:148-152

Key Words: Left colon cancer, Obstruction, Primary resection

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8 24%
 가
 1 2
 3 (staged operation),
 1 2 (Hartmann's procedure), (sub-total colectomy), (intraoperative colonic lavage)
 2 가
 1,3,4 가
 1990 4 2001 1
)
 36
 28 1
 2 17

1
11
6
67
가
가
Statistical Package for the
Kaplan-Meier
Social Science

Table 1. Surgical procedures in 36 cases of left colonic obstructed carcinomas

	Number of cases
Primary resection	11
with Hartmann's procedure	6
with anastomosis and proximal colostomy	3
with intraoperative lavage and anastomosis	2
Staged procedure	17
Transverse loop colostomy	15
Sigmoid loop colostomy	2
Tumor resection in second stage	15
Palliative procedure	8
Definitive colostomy	6
Palliative resection	2

36
(simple abdomen),
3
1
36
48
가
17
1
15
2
2
15
2
가 1
, 6
가
Hartmann
, 3

Table 2. Age distribution of obstructing colorectal cancer

	Primary resection (n=11)	Staged procedure (n=17)	
Age	No. (%)	No. (%)	
40-49	1	0	
50-59	2	2	
60-69	3	3	
70-79	2	8	
80+	3	4	
mean of age	67	73	p=0.27
SD	±12.69	±9.73	

2
Foley catheter
corrugated tube
가
가
가
, 6
Hartmann
17
11
1

Table 3. Stage distribution of obstructing colorectal cancer (Astler-Coller classification)

	Primary resection (n=11)	Staged procedure (n=17)
	No. (%)	No. (%)
B1	2 (18)	2 (14)
B2	6 (55)	6 (43)
C1	0 (0)	1 (7)
C2	3 (28)	5 (36)
D	0	0
Unknown	0	3

Table 4. Site distribution of obstructing colorectal cancer

	Primary resection (n=11)	Staged procedure (n=17)
	No. (%)	No. (%)
Splenic flexure	0	1 (6)
Descending colon	2 (18)	3 (18)
Sigmoid colon	8 (73)	9 (53)
Rectum	1 (9)	4 (23)

Table 5. Distribution of cell differentiation

	Primary resection (n=11)	Staged procedure (n=17)
	No. (%)	No. (%)
Well differentiated	4 (36)	10 (59)
Moderately	7 (64)	4 (24)
Poorly	0	0
Unknown	0	3 (18)

Table 6. Distribution of complication

	Primary resection	Staged procedure
Wound	3	3
Pulmonary	0	2
Sepsis	1	0
MOFS*	0	2
Others	0	4 [†]
Total	4	11

* = multiple organ failure syndrome; [†] = acute renal failure.

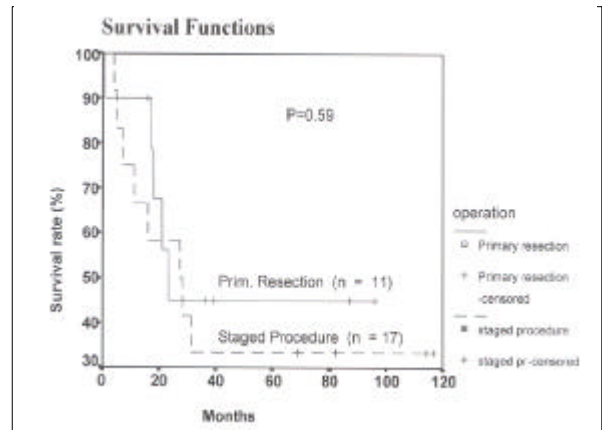


Fig. 1. Survival rates related to operation type.

1 : 1.1, 1 : 1.2 (Table 2).
 stage B2가 6
 가 stage B2, C2가 가
 stage C
 (Table 3).
 (Table 4).
 가 가 ,
 가 가 (Table 5).

5 , 2
 6 3

가 , 5 , 1
 , 2 , 3
 , 1 (Table 6).
 39.3 (1 117)
 , 5 Kaplan-Meier
 45%,
 33% 가
 (Fig. 1).

score가 .^{1,4,5} APACHE
 Serpell
 가

가 ,² .^{18,19} 가

가

가 가

가 , 5
45%,

33%

가

가

Umpley

가

가

5

2

²⁰

Hartmann (Hartmann
procedure),

가 가
stent

²¹

stent

(subtotal colectomy)

⁷⁻⁹

²¹⁻²⁵

(synchronous lesion)

가

가 가

⁹

¹⁰⁻¹² Radcliffe 64

2

¹² intestinal tube

가 ,

¹³

Stage C가 27%

35%

가 가

¹⁴

가

가

8%,

25%

5

45% 33%

, Hartmann
가

stent

^{15,16}

가

^{3,17}

가

가

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