

Multi-Institutional Registry of Large Bowel Cancer
in Japan

Vol. 28
Cases treated in 1999
(Prospective Registry Data)

Japanese Society for Cancer of the Colon and Rectum

全国大腸癌登録委員会

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まえがき

全国大腸癌登録調査報告書第28号（Multi-institutional Registry of Large Bowel Cancer in Japan. Vol. 28）をお届けします。本号は1999年に初回治療された症例の調査報告書で、前半に臨床病理学的情報を、後半に予後情報を解析した結果を収めています。

本登録事業は1980年に開始され、既に1974年から1998年に間に初回治療された約11万件の登録例についての報告書が刊行されています。当初は治療から5年以上経過した症例を登録していただき、臨床病理学的情報と予後情報をまとめた報告書を作成していましたが、1991年治療例からは、臨床病理学的情報を先行登録し、5年以上経過した時点で予後情報を登録していただくprospective registry方式とし、臨床病理学的情報の報告書（10号、12号、17～18号、21号、24号）と生存解析の報告書（19号、20号、22号、23号、25～27号）を刊行してまいりました。

1999年治療例の登録準備を開始したのは2002年のことでした。しかし、当時は疫学研究に関する倫理指針の施行（2002年）個人情報保護法の制定（2003年）、同法の全面施行（2005年）という時代の流れのなかで、がん登録における個人情報の取扱いが議論され、登録を実施できない状況が続きました。議論の末、情報を連結不可能匿名化することで登録を再開したのが2007年でした。匿名化のために、従来の紙媒体の登録票は廃して、新たなソフトを用いての電子登録に全面移行したこともあり、登録は予定通りには進捗しませんでしたが、今般漸く報告書の発行に漕ぎ着けました。本号が臨床病理学的情報とともに予後情報も収めているのは、登録開始時期の遅れによるものです。

登録施設数は以前よりも減少し、互換性のない形式のデータ、取扱い規約第7版用ソフトに入力されたデータなど集計に利用できないデータも少なからずありました。巻末に登録いただいた施設名を列挙しましたが、データを利用できなかった施設名には「*」印を付しております。

現在、全国登録委員会は、登録精度を高め、かつ登録ユーザーの負担を軽減するような新しい登録システムを構築すべく検討中です。今後とも本登録事業によろしくご協力ください。

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大腸癌研究会

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CONTENTS

Preface (in Japanese)

Definition of abbreviations and symbols

ALL PATIENTS REGISTERED

Histology, site, sex, and surgery ----- 1

Modality of principal treatment ----- 2

ADENOCARCINOMA, ALL CASES

Age-specific incidence----- 3

Family history of colorectal cancer ----- 4

Family history of cancers other than colorectal cancer ----- 6

Past history of colorectal disease----- 8

Serum carcinoembryonic antigen ----- 9

Multiple primary cancers----- 10

Metachronous multiple colorectal cancer----- 11

ADENOCARCINOMA, SURGERY

Synchronous multiple colorectal cancer ----- 14

Macroscopic type of tumor ----- 16

Tumor location in circumferential division of the bowel ----- 18

The tumor size ----- 19

Metastasis (peritoneum, liver, lung, and distant organs) ----- 20

Histological classification ----- 24

Depth of tumor invasion ----- 25

Organs or structures with cancer invasion ----- 27

Lymph node metastasis

Lymphatic invasion ----- 29

Venous invasion ----- 31

Tumor invasion of surgical margin, macroscopic ----- 32

Histological examination of peritoneal metastasis----- 38

Additional and/or adjuvant therapy ----- 39

Operative procedures ----- 40

Lymph node dissection ----- 43

Combined resection ----- 44

Treatment for liver metastasis ----- 45

Curability of surgical resection ----- 47

Histological stage ----- 48

Accompanied lesion ----- 49

ADENOCARCINOMA, ENDOSCOPIC EXCISION	
Site and number of cancers -----	50
Endoscopic excision	
Gross appearance -----	52
Depth of tumor invasion-----	53
Histological classification	
Lymphatic invasion -----	54
Venous invasion	
Tumor size-----	55
Cut end of the specimen	
Metastasis -----	56
Curability of endoscopic excision-----	57
ADENOCARCINOMA, SURGERY AFTER ENDOSCOPIC EXCISION	
Additional surgery-----	58
Laparoscopic surgery -----	60
Residual cancer in surgically resected specimen	
Depth of tumor invasion-----	61
Lymph node metastasis	
Lymphatic invasion -----	62
Venous invasion -----	63
Curability	
Histological stage -----	64
Operative procedures	
MALIGNANT NEOPLASMS OTHER THAN ADENOCARCINOMA, ALL CASES	
Age-specific incidence-----	66
MALIGNANT NEOPLASMS OTHER THAN ADENOCARCINOMA, SURGERY	
Histological typing -----	67
Modality of principal treatment	
Depth of tumor invasion	
Lymph node metastasis -----	68
Tumor size	
Curability of surgical resection	
MALIGNANT NEOPLASMS OTHER THAN ADENOCARCINOMA, ENDOSCOPIC EXCISION	
Histological typing -----	69
Endoscopic excision	
Depth of tumor invasion	
Cut end of the specimen-----	70
Curability of endoscopic excision	

Number of excluded cases for survival analysis-----	72
Death within 30 days after surgery	
Age incidence -----	73
Modality of treatment -----	74
Surgical curability for surgical cases	
Liver metastasis for surgical cases -----	75
Peritoneal metastasis for surgical cases	
Lung metastasis for surgical cases-----	76
Distant metastasis for surgical cases	
Macroscopic lymph node metastasis and depth of invasion for surgical cases-----	77
Microscopic lymph node metastasis and depth of invasion for surgical cases-----	78
Sex	
Colon cancer; surgical cases -----	80
Colon cancer, treated by endoscopy alone.-----	81
Rectal cancer, surgical cases -----	82
Rectal cancer, treated by endoscopy alone. -----	83
Clinical stage	
Colon cancer, surgical cases	
stage 0 -----	84
stage I-----	85
stage II-----	86
stage IIIa -----	87
stage IIIb -----	88
stage IV -----	89
Rectal cancer, surgical cases	
stage 0 -----	90
stage I-----	91
stage II-----	92
stage IIIa -----	93
stage IIIb -----	94
stage IV -----	95

Histological stage

Colon cancer, surgical cases	
stage 0 -----	96
stage I-----	97
stage II-----	98
stage IIIa -----	99
stage IIIb -----	100
stage IV -----	101

Rectal cancer, surgical cases

stage 0 -----	102
stage I-----	103
stage II-----	104
stage IIIa -----	105
stage IIIb -----	106
stage IV -----	107

Surgical curability, histologically confirmed

Colon cancer, surgical cases	
cur A -----	108
cur B -----	109
cur C -----	110

Rectal cancer, surgical cases

cur A -----	111
cur B -----	112
cur C -----	113

Macroscopic lymph node status and depth of tumor invasion

Colon cancer, surgical cases	
N0 & P0, H0, M(-) -----	114
N1 & P0, H0, M(-) -----	116
N2 & P0, H0, M(-) -----	118
N3& P0, H0, M(-) -----	120
N4 & P0, H0, M(-) -----	122

Rectal cancer, surgical cases

N0 & P0, H0, M(-) -----	124
N1 & P0, H0, M(-) -----	126
N2 & P0, H0, M(-) -----	128
N3 & P0, H0, M(-) -----	130
N4 & P0, H0, M(-) -----	132

Microscopic lymph node status and depth of tumor invasion	
Colon cancer, surgical cases	
n0 & P0, H0, M(-) -----	134
n1 & P0, H0, M(-) -----	136
n2 & P0, H0, M(-) -----	138
n3& P0, H0, M(-)-----	140
n4 & P0, H0, M(-) -----	142
Rectal cancer, surgical cases	
n0 & P0, H0, M(-) -----	144
n1 & P0, H0, M(-) -----	146
n2 & P0, H0, M(-) -----	148
n3 & P0, H0, M(-) -----	150
n4 & P0, H0, M(-) -----	152
Liver metastasis	
Colon cancer, surgical cases-----	154
Rectal cancer, surgical cases -----	155
Peritoneal metastasis	
Colon cancer, surgical cases-----	156
Rectal cancer, surgical cases -----	157
Lung metastasis	
Colon cancer, surgical cases-----	158
Rectal cancer, surgical cases -----	159
Distant metastasis	
Colon cancer, surgical cases-----	160
Rectal cancer, surgical cases -----	161
Endoscopic resection	
Colon cancer, treated by endoscopy alone -----	162
Rectal cancer, treated by endoscopy alone -----	164
Colon and rectal cancer at institutes with high proportion for follow-up, surgical cases -----	166
Participating institutes (in Japanese) -----	167

DEFINITIONS OF ABBREVIATIONS AND SYMBOLS

CRC	colorectal cancer
DI	depth of invasion
NOS	not otherwise specified
mm	millimeter
OC	oncology
OTH	others
X	not recorded or uncertain findings

Tumor site

The colon, rectum, and anus are anatomically divided into the following portions. If more than one portion or part is involved, all involved portions or parts were recorded in order of involvement, first indicating the portion or part in which the bulk of the tumor is mainly situated .

V	processus vermiciformis	C	cecum
A	ascending colon	T	transverse colon
D	descending colon	S	sigmoid colon
Rs	rectosigmoid	Ra	upper rectum
Rb	lower rectum	P	proctos (anal canal)

In this report, the "Site of the tumor" represented the main portion in which tumor was located. In each table, "Colon" included "V, C, A, T, D, and S" and "Rectum" included "Rs, Ra, Rb, and P."

Refer to "Japanese Classification of Colorectal Carcinoma" on terminology and classification used in this report.

Cases treated in 1999
Descriptive data
(Prospective Registry Data)

Table 1-1
Histological type, site and sex

Histology	Site	Males	Females	Total
Adenocarcinoma	Colon	1,685	1,303	2,988
	Rectum	1,269	724	1,993
	Unknown	45	27	72
	Total	2,999	2,054	5,053
Other malignancies	Colon	13	11	24
	Rectum	40	27	67
	Unknown	1	0	1
	Total	54	38	92
Unknown	Colon	35	18	53
	Rectum	30	16	46
	Unknown	21	8	29
	Total	86	42	128
Grand total		3,139	2,134	5,273

Adenocarcinoma : well-, moderately and poorly differentiated adenocarcinoma, mucinous carcinoma, and signet-ring cell carcinoma.

Other malignancies : carcinomas other than adenocarcinoma and non-epithelial malignancies.

Sixty-four patients with a malignancy of unknown site were exculded from subsequent analysis.

Table 1-2
Number of patients treated by surgery
Histology and site of the tumor

Histology	Site	Surgery			Total
		Yes	No		
Adenocarcinoma	Colon	2,985	(205)	3	2,988
	Rectum	1,994	(90)	0	1,994
	Total	4,981	(295)	3	4,984
Other malignancies	Colon	24	(8)	0	24
	Rectum	67	(20)	0	67
	Total	93	(28)	0	93
Unknown	Colon	52	(2)	1	53
	Rectum	46	(2)	0	46
	Total	98	(4)	1	99
Grand total		5,167	(327)	4	5,171

The figures in parentheses represent the number of patients treated by endoscopic excision, and those are included in the left column.

A total of 380 patients with a malignancy of unknown histology (268 patients) and age at treatment (112 patients) was exculded from subsequent analysis.

Table 2
Modality of principal treatment
by histology and site

Modality	Adenocarcinoma			Other malignancies		
	Colon	Rectum	Total	Colon	Rectum	Total
Surgery	2,664	1,821	4,486	16	43	59
Endoscopic excision	157	67	224	4	10	14
Radiation(RT)	0	3	3	0	2	2
Chemotherapy(CT)	8	16	24	0	0	0
RT and CT	0	0	0	0	1	1
OTH	2	0	2	0	0	0
No treatment	7	2	9	0	0	0
Total	2,838	1,910	4,748	20	56	76

*Modalities regarded as the most effective and beneficial treatment for cancer. A total of 173 patients who had surgery after endoscopic treatment were classified in the "Endoscopic excision" group in this report.

Adenocarcinoma				
I)	All	4,748	cases	
II)	Surgery	4,486	cases	
III)	Surgical resection	4,455	cases	
IV)	Endoscopic excision	224	cases	
V)	Surgery after endoscopic excision	112	cases	

A total of 173 patients who had surgery after endoscopic treatment were classified into "Endoscopic excision group" in this report, although they should be classified into "Surgery" group*. Their information about surgery was described independently in detail (pp.77-83).

*Japanese Society for the Cancer If the Colon and Rectum: Japanese Classification of Colorectal Carcinoma. 1st English ed., p.69, Yasutomi, M. (Editor), Kanehara & Co., LTD., Tokyo, 1997

Table 3-1

Age-specific incidence, males

Site	Age										Total
	<20	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99		
V	0	0	0	0	3	1	3	0	0	7	
C	0	0	5	12	31	47	55	15	2	167	
A	0	0	3	14	59	130	106	41	1	354	
T	0	1	1	13	41	67	62	21	1	207	
D	0	0	4	11	34	42	38	10	1	140	
S	0	1	9	34	175	293	167	45	3	727	
Rs	0	0	5	27	79	165	67	15	0	358	
Ra	0	2	2	33	76	121	70	12	0	316	
Rb	1	4	17	39	136	166	104	22	2	491	
P	0	0	3	4	9	11	6	1	0	34	
Rx	0	0	0	1	5	5	3	0	0	14	
Colon	0	2	22	84	343	580	431	132	8	1,602	
Rectum	1	6	27	104	305	468	250	50	2	1,213	
Total	1	8	49	188	648	1,048	681	182	10	2,815	

Table 3-2

Age-specific incidence, females

Site	Age										Total
	<20	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99		
V	0	0	0	1	4	3	4	0	0	12	
C	0	0	0	10	28	53	49	19	3	162	
A	0	0	3	13	51	94	119	36	2	318	
T	1	3	7	12	28	47	57	23	1	179	
D	0	0	5	4	18	33	13	7	0	80	
S	0	1	8	55	133	136	116	35	1	485	
Rs	0	1	2	23	49	67	61	16	0	219	
Ra	0	0	2	14	51	72	31	21	1	192	
Rb	0	5	6	29	74	76	50	13	3	256	
P	0	1	1	3	6	5	5	1	0	22	
Rx	0	0	0	2	0	3	2	1	0	8	
Colon	1	4	23	95	262	366	358	120	7	1,236	
Rectum	0	7	11	71	180	223	149	52	4	697	
Total	1	11	34	166	442	589	507	172	11	1,933	

Table 4-1

Family history of CRC, by site

Site	Family history of CRC			Total
	No	Yes	X	
V	17	2	0	19
C	259	22	48	329
A	534	51	87	672
T	305	23	58	386
D	165	19	36	220
S	926	96	190	1,212
Rs	457	47	73	577
Ra	411	41	56	508
Rb	619	51	77	747
P	49	3	4	56
Rx	11	2	9	22
Colon	2,206	213	419	2,838
Rectum	1,547	144	219	1,910
Total	3,753	357	638	4,748

Table 4-2

Family history of CRC, by age

Age	Family history of CRC			Total
	No	Yes	X	
<20	2	0	0	2
20-29	12	4	3	19
30-39	70	4	9	83
40-49	273	41	40	354
50-59	862	84	144	1,090
60-69	1,282	122	233	1,637
70-79	955	78	155	1,188
80-89	281	23	50	354
90-99	16	1	4	21
Total	3,753	357	638	4,748

Table 4-3

Family history of CRC, by number of family members with CRC

Site	Number of family members with CRC						Total
	1	2	3	>=4	X		
V	2	0	0	0	0		2
C	18	1	0	0	3		22
A	41	2	1	0	7		51
T	17	3	1	0	2		23
D	14	3	0	0	2		19
S	83	3	3	0	7		96
Rs	36	6	0	0	5		47
Ra	31	4	3	0	3		41
Rb	42	7	0	1	1		51
P	3	0	0	0	0		3
Rx	2	0	0	0	0		2
Colon	175	12	5	0	21		213
Rectum	114	17	3	1	9		144
Total	289	29	8	1	30		357

Table 4-4

Family history of CRC, by family member with CRC(multi-answers)

Site	Family member with CRC						Total
	F	M	S	C	G	UA	
V	1	1	0	0	0	0	2
C	3	5	12	2	1	0	23
A	11	5	24	0	1	2	43
T	5	2	9	3	0	3	22
D	7	2	8	0	0	0	17
S	21	20	36	2	4	6	89
Rs	11	11	21	1	1	0	45
Ra	12	12	17	0	0	2	43
Rb	15	6	21	1	3	4	50
P	0	2	1	0	0	0	3
Rx	0	1	0	1	0	0	2
Colon	48	35	89	7	6	11	196
Rectum	38	32	60	3	4	6	143
Total	86	67	149	10	10	17	339

F father

M mother

S sibling

C child

G grandparent

UA uncle and /or aunt

Table 5-1**Family history of cancers other than CRC, by site**

Site	Family history of other cancers			Total
	No	Yes	X	
V	11	8	0	19
C	188	89	52	329
A	415	163	94	672
T	231	86	69	386
D	132	46	42	220
S	698	289	225	1,212
Rs	351	137	89	577
Ra	318	125	65	508
Rb	461	203	83	747
P	39	13	4	56
Rx	9	5	8	22
Colon	1,675	681	482	2,838
Rectum	1,178	483	249	1,910
Total	2,853	1,164	731	4,748

Table 5-2**Family history of cancers other than CRC, by age**

Age	Family member with other cancers			Total
	No	Yes	X	
<20	0	2	0	2
20-29	11	5	3	19
30-39	52	22	9	83
40-49	224	88	42	354
50-59	639	287	164	1,090
60-69	966	400	272	1,638
70-79	718	289	182	1,189
80-89	230	70	55	355
90-99	14	3	4	21
Total	2,854	1,166	731	4,751

Table 5-3

Family history of cancers other than CRC, by number of family members with cancers

Site	Number of family members with other cancers					Total
	1	2	3	>=4	X	
V	6	2	0	0	0	8
C	65	16	4	0	4	89
A	117	34	4	3	5	163
T	59	22	4	0	1	86
D	40	3	1	1	1	46
S	209	64	11	1	4	289
Rs	89	34	9	2	3	137
Ra	91	20	8	1	5	125
Rb	152	34	7	3	7	203
P	9	4	0	0	0	13
Rx	3	1	1	0	0	5
Colon	496	141	24	5	15	681
Rectum	344	93	25	6	15	483
Total	840	234	49	11	30	1,164

Table 5-4

Family history of cancers other than CRC, by family member with cancers
(multi-answers)

Site	Family member with other cancers						Total
	F	M	S	C	G	UA	
V	0	2	4	1	0	0	7
C	28	32	29	4	2	1	96
A	48	47	69	7	4	7	182
T	27	33	34	3	7	3	107
D	11	10	20	2	2	2	47
S	99	85	98	10	10	11	313
Rs	47	39	55	2	10	7	160
Ra	48	35	48	7	2	2	142
Rb	67	58	72	12	5	14	228
P	4	5	4	0	0	2	15
Rx	1	2	4	1	0	0	8
Colon	213	209	254	27	25	24	752
Rectum	167	139	183	22	17	25	553
Total	380	348	437	49	42	49	1,305

F father

M mother

S sibling

C child

G grandparent

UA uncle and /or aunt

Table 6-1

Past history of colorectal disease, by site(multi-answers)

Site	Past history								Total
	None	Adenoma	Adenom- atosis	Ulcerative colitis	Radiation colitis	Anal fistula	OTH	X	
V	16	0	0	0	0	0	1	2	19
C	254	11	1	0	0	2	21	41	330
A	545	15	2	1	0	3	29	77	672
T	284	20	3	2	1	0	18	59	387
D	166	11	2	2	0	1	6	32	220
S	950	37	3	1	1	11	53	159	1,215
Rs	460	16	1	0	0	2	26	73	578
Ra	415	12	2	3	0	2	12	63	509
Rb	585	20	3	4	1	4	32	99	748
P	43	0	0	0	0	6	2	5	56
Rx	11	0	0	0	0	0	1	10	22
Colon	2,215	94	11	6	2	17	128	370	2,843
Rectum	1,514	48	6	7	1	14	73	250	1,913
Total	3,729	142	17	13	3	31	201	620	4,756

Table 6-2

Past history of colorectal disease, by age(multi-answers)

Site	Past history								Total
	None	Adenoma	Adenom- atosis	Ulcerative colitis	Radiation colitis	Anal fistula	OTH	X	
<20	2	0	0	0	0	0	0	0	2
20-29	10	0	3	2	0	0	0	4	19
30-39	70	1	1	1	0	1	1	8	83
40-49	273	9	4	3	0	5	20	40	354
50-59	878	28	1	3	1	8	32	141	1,092
60-69	1,270	55	5	3	1	14	84	210	1,642
70-79	919	40	2	0	0	3	54	171	1,189
80-89	291	9	1	1	1	0	9	42	354
90-99	16	0	0	0	0	0	1	4	21
Total	3,729	142	17	13	3	31	201	620	4,756

Table 7-1

Measurement of serum carcinoembryonic antigen (CEA), preoperative

Site	Serum CEA				Total
	Examined	Not examined	x		
V	15	2	2		19
C	247	23	59		329
A	556	38	78		672
T	300	30	56		386
D	172	13	35		220
S	930	89	193		1,212
Rs	460	37	80		577
Ra	411	36	61		508
Rb	601	50	96		747
P	48	3	5		56
Rx	8	2	12		22
Colon	2,220	195	423		2,838
Rectum	1,528	128	254		1,910
Total	3,748	323	677		4,748

Table 7-2

Serum CEA value, preoperative

Site	Serum CEA value					Total
	Normal	<2	<4	<8	>=8	
V	9	4	1	1	0	15
C	149	41	16	11	30	247
A	355	76	42	25	58	556
T	191	40	24	8	37	300
D	118	16	18	8	12	172
S	589	136	66	47	92	930
Rs	281	67	39	26	47	460
Ra	240	69	36	22	44	411
Rb	349	97	58	40	57	601
P	24	10	1	6	7	48
Rx	5	2	0	0	1	8
Colon	1,411	313	167	100	229	2,220
Rectum	899	245	134	94	156	1,528
Total	2,310	558	301	194	385	3,748

Table 8-1

Multiple primary cancers, by sex

Multiple primary cancers	Males	Females	Total
No	2,189	1,576	3,765
Synchronous	120	43	163
Metachronous	211	140	351
Synchronous and metachronous	23	5	28
x	250	160	410
Total	2,793	1,924	4,717

Table 8-2

Synchronous multiple primary cancers

Organ	Synchronous cancer		
	Males	Females	Total
Oral cavity	2	1	3
Pharynx and larynx	2	0	2
Esophagus	7	1	8
Stomach	59	19	78
Liver	12	3	15
Biliary tree	5	1	6
Pancreas	3	0	3
Lung	6	0	6
Breast	0	1	1
Uterine cervix	0	1	1
Uterine corpus	1	2	3
Ovary	0	2	2
Prostate	5	0	5
Kidney	4	4	8
Bladder	4	0	4
Hematopoietic system	3	0	3
Bone & soft tissue	0	1	1
Nervous system	0	1	1
Thyroid	1	0	1
Skin	1	0	1
OTH	3	3	6
Multiple sites	20	5	25
X	5	3	8
Total	143	48	191

Table 8-3

Metachronous multiple primary cancers

Organ	Metachronous cancer		
	Males	Females	Total
Oral cavity	5	4	9
Pharynx and larynx	8	1	9
Esophagus	7	2	9
Stomach	85	24	109
Small intestine	2	0	2
Liver	11	0	11
Biliary tree	5	2	7
Pancreas	6	3	9
Lung	21	6	27
Breast	0	51	51
Uterine cervix	0	6	6
Uterine corpus	0	9	9
Uterus, NOS	0	5	5
Ovary	0	5	5
Prostate	22	0	22
Kidney	9	2	11
Bladder	8	1	9
Hematopoietic system	2	2	4
Bone and soft tissue	0	1	1
Nervous system	1	1	2
Thyroid	5	3	8
Skin	1	1	2
OTH	5	3	8
Multiple sites	29	11	40
x	2	2	4
Total	234	145	379

Table 9-1

Metachronous multiple CRC, by sex

Sex	No	Metachronous CRC			Both	x	Total
		Early cancer	Advanced cancer	Both			
Males	2,464	33	57	6	258	2,818	
Females	1,731	22	22	2	156	1,933	
Total	4,195	55	79	8	414	4,751	

Table 9-2

Metachronous multiple CRC, by age

Age	Metachronous CRC			Total
	Early cancer	Advanced cancer	Both	
20-29	1	0	0	1
30-39	0	0	0	0
40-49	1	6	0	7
50-59	9	8	1	18
60-69	21	34	2	57
70-79	13	21	2	36
80-89	9	8	3	20
90-100	1	2	0	3
Total	55	79	8	142

Table 9-3

Metachronous multiple CRC, by site

Site	Metachronous CRC			Total
	Early cancer	Advanced cancer	Both	
V	1	0	0	1
C	4	6	0	10
A	10	11	1	22
T	3	15	2	20
D	5	5	0	10
S	12	19	0	31
Rs	3	5	1	9
Ra	6	6	1	13
Rb	11	10	2	23
P	0	1	0	1
Rx	0	1	1	2
Colon	35	56	3	94
Rectum	20	23	5	48
Total	55	79	8	142

Table 9-4

Metachronous multiple CRC, by number of cancers

Number of cancers	Metachronous CRC			Total
	Early cancer	Advanced cancer	Both	
1	29	64	0	93
2	19	6	5	30
3	2	1	1	4
4	0	0	0	0
5	0	0	1	1
x	5	8	1	14
Total	55	79	8	142

Table 9-5

Metachronous multiple CRC, by site of metachronous cancer

Site	Metachronous CRC			Total
	Early cancer	Advanced cancer	Both	
Colon	21	7	2	30
Rectum	8	4	0	12
Both	2	0	3	5
X	24	68	3	95
Total	55	79	8	142

Table 10-1**Number of synchronous multiple CRC, by site**

Site	Number of cancers							x	Total
	1	2	3	4	5	6			
V	18	0	0	0	0	0	0	18	
C	295	15	6	1	0	0	1	318	
A	602	23	21	7	2	2	0	657	
T	344	10	8	2	0	0	0	364	
D	185	8	6	3	0	0	0	202	
S	1,031	38	27	4	1	1	3	1,105	
Rs	521	12	13	1	1	0	0	548	
Ra	463	13	7	1	0	0	0	484	
Rb	686	8	17	4	0	1	1	717	
P	50	1	3	0	0	0	0	54	
Rx	18	0	0	0	0	0	1	19	
Colon	2,475	94	68	17	3	3	4	2,664	
Rectum	1,738	34	40	6	1	1	2	1,822	
Total	4,213	128	108	23	4	4	6	4,486	

Table 10-2**Number of synchronous multiple CRC, by age**

Age	Number of cancers							x	Total
	1	2	3	4	5	6			
<20	2	0	0	0	0	0	0	2	
20-29	13	1	2	1	0	0	0	17	
30-39	72	1	2	0	0	0	0	75	
40-49	323	6	3	0	0	1	0	333	
50-59	993	14	21	2	1	1	2	1,034	
60-69	1,418	56	46	12	1	0	2	1,535	
70-79	1,057	35	28	6	2	1	1	1,130	
80-89	316	14	6	2	0	1	1	340	
90-99	19	1	0	0	0	0	0	20	
Total	4,213	128	108	23	4	4	6	4,486	

Table 10-3

Number of synchronous multiple CRC, males, by age

Age	Number of cancers								Total
	1	2	3	4	5	6	x		
<20	1	0	0	0	0	0	0	0	1
20-29	6	1	0	0	0	0	0	0	7
30-39	43	1	2	0	0	0	0	0	46
40-49	170	3	1	0	0	1	0	0	175
50-59	583	11	16	0	1	0	2	613	
60-69	894	38	34	10	1	0	2	979	
70-79	590	26	21	4	1	1	0	643	
80-89	157	8	5	1	0	1	1	173	
90-99	9	0	0	0	0	0	0	9	
Total	2,453	88	79	15	3	3	5	2,646	

Table 10-4

Number of synchronous multiple CRC, females, by age

Age	Number of cancers								Total
	1	2	3	4	5	6	x		
<20	1	0	0	0	0	0	0	0	1
20-29	7	0	2	1	0	0	0	0	10
30-39	29	0	0	0	0	0	0	0	29
40-49	153	3	2	0	0	0	0	0	158
50-59	410	3	5	2	0	1	0	421	
60-69	524	18	12	2	0	0	0	556	
70-79	467	9	7	2	1	0	1	487	
80-89	159	6	1	1	0	0	0	167	
90-99	10	1	0	0	0	0	0	11	
Total	1,760	40	29	8	1	1	1	1,840	

Table 11-1

Macroscopic type of tumor, by site

Site	Macroscopic type								x	Total
	Type 0	Type 1	Type 2	Type 3	Type 4	Type 5	OTH			
V	3	0	5	0	0	6	4	0	18	
C	52	38	175	39	1	3	3	7	318	
A	94	57	422	62	1	10	4	7	657	
T	69	24	231	28	1	4	2	5	364	
D	38	15	116	24	2	2	1	4	202	
S	151	83	750	89	3	9	1	19	1,105	
Rs	50	46	401	34	1	1	2	13	548	
Ra	62	47	316	37	3	5	1	13	484	
Rb	112	40	451	78	7	11	4	14	717	
P	3	3	22	13	0	7	3	3	54	
Rx	1	3	8	1	1	0	0	5	19	
Colon	407	217	1,699	242	8	34	15	42	2,664	
Rectum	228	139	1,198	163	12	24	10	48	1,822	
Total	635	356	2,897	405	20	58	25	90	4,486	

Type 0 Superficial, flat tumors with or without minimal elevation or depression

Type 1 Protuberant type

Type 2 Ulcerated type with clear margin

Type 3 Ulcerated type with infiltration

Type 4 Diffusely infiltrating type

Type 5 Unclassified type

Table 11-2

Macroscopic type of Type0 cancer

Site	Macroscopic type									X	Total
	Ip	Isp	Is	IIa	IIa+IIc	IIb	IIc	IIc+IIa	OTH		
V	0	0	0	3	0	0	0	0	0	0	3
C	1	14	3	16	11	0	2	0	2	3	52
A	6	23	15	25	14	0	1	0	6	4	94
T	8	4	8	20	18	0	8	0	1	2	69
D	3	7	3	9	5	0	6	0	1	4	38
S	28	36	20	15	21	0	3	2	6	20	151
Rs	3	16	7	12	4	0	0	1	2	5	50
Ra	3	15	8	18	7	0	2	1	1	7	62
Rb	5	26	22	32	13	0	0	0	6	8	112
P	1	1	0	0	0	0	0	0	0	1	3
Rx	0	0	0	1	0	0	0	0	0	0	1
Colon	46	84	49	88	69	0	20	2	16	33	407
Rectum	12	58	37	63	24	0	2	2	9	21	228
Total	58	142	86	151	93	0	22	4	25	54	635

Type 0 Superficial, flat tumors with or without minimal elevation or depression

Type 0 I Protruded type

Ip Pedunculated type

Isp Semipedunculated type

Is Sessile type

Type 0 II Superficial type

IIa Superficial elevated type

IIb Superficial flat type

IIc Superficial depressed type

Type 0 III Excavated type

Table 12

Tumor location, by circumferential division of the bowel wall

Site	Circumferential division of the bowel wall							
	Dorsal or post.	Ventral or ant.	Medial or right	Lateral or left	Circular	OTH	x	Total
V	1	1	0	0	10	5	1	18
C	49	64	8	9	86	44	58	318
A	108	89	32	33	168	92	135	657
T	46	38	9	5	105	70	91	364
D	23	24	9	8	57	32	49	202
S	203	129	42	47	264	179	241	1,105
Rs	86	87	22	21	134	81	117	548
Ra	84	87	28	28	103	72	82	484
Rb	122	130	50	72	123	90	130	717
P	12	6	6	6	10	8	6	54
Rx	1	3	1	1	3	1	9	19
Colon	430	345	100	102	690	422	575	2,664
Rectum	305	313	107	128	373	252	344	1,822
Total	735	658	207	230	1,063	674	919	4,486

Dorsal mesenteric side

Ventral side opposite to the mesenterium

post. posterior side

ant. anterior side

Table 13-1

Tumor size, by circumferential division of the bowel wall

Site	Circumferential occupancy of the bowel wall							Total
	<1/3	<1/2	<2/3	Semi-circular	Circular	OTH	x	
V	2	0	0	1	10	3	2	18
C	65	37	36	37	88	2	53	318
A	128	84	71	108	163	7	96	657
T	77	45	29	39	120	4	50	364
D	44	16	12	25	62	3	40	202
S	233	144	113	153	267	9	186	1,105
Rs	91	73	72	89	131	5	87	548
Ra	96	71	74	79	93	5	66	484
Rb	182	96	112	89	123	6	109	717
P	11	4	6	11	10	5	7	54
Rx	5	1	1	2	3	1	6	19
Colon	549	326	261	363	710	28	427	2,664
Rectum	385	245	265	270	360	22	275	1,822
Total	934	571	526	633	1,070	50	702	4,486

Table 13-2

Tumor size, the greatest diameter of the tumor, by site

Site	Tumor size (mm)							Total
	<=20	21-40	41-60	61-80	81-100	>100	x	
V	3	1	3	6	1	0	4	18
C	16	12	93	89	45	17	46	318
A	69	28	185	168	95	29	83	657
T	54	8	105	87	38	13	59	364
D	41	3	51	47	23	6	31	202
S	150	18	357	303	97	32	148	1,105
Rs	43	5	178	162	69	16	75	548
Ra	40	3	142	140	60	24	75	484
Rb	92	12	188	179	106	34	106	717
P	2	2	16	14	6	5	9	54
Rx	3	0	3	2	1	0	10	19
Colon	333	70	794	700	299	97	371	2,664
Rectum	180	22	527	497	242	79	275	1,822
Total	513	92	1,321	1,197	541	176	646	4,486

Table 13-3

Tumor size, the greatest diameter of the tumor, by DI

DI	Tumor size (mm)							x	Total
	<=20	21-40	41-60	61-80	81-100	>100			
m	65	2	105	35	8	4	47	266	
sm	244	10	125	20	5	2	75	481	
mp	115	3	298	82	18	6	53	575	
ss/a1	61	31	545	623	266	83	249	1,858	
se/a2	21	23	211	361	190	54	134	994	
si/ai	1	22	23	66	49	25	44	230	
x	6	1	14	10	5	2	44	82	
Total	513	92	1,321	1,197	541	176	646	4,486	

Table 14-1

Metastasis, peritoneum

Site	Peritoneal metastasis					Total
	P0	P1	P2	P3	PX	
V	14	1	1	2	0	18
C	291	9	5	12	1	318
A	611	14	10	20	2	657
T	344	4	5	7	4	364
D	186	4	6	5	1	202
S	1,043	18	11	13	20	1,105
Rs	523	13	2	8	2	548
Ra	451	18	5	2	8	484
Rb	678	15	2	6	16	717
P	52	1	0	0	1	54
Rx	15	1	0	0	3	19
Colon	2,489	50	38	59	28	2,664
Rectum	1,719	48	9	16	30	1,822
Total	4,208	98	47	75	58	4,486

P0 No peritoneal metastasis

P1 Metastasis only to adjacent peritoneum, which are removable by a combined resection

P2 A few metastases to distant peritoneum

P3 Numerous metastases to distant peritoneum

PX No information on peritoneal metastasis

Ovarian metastasis without peritoneal dissemination is classified as "P2."

Table 14-2
Metastasis, liver

Site	Liver metastasis					Total
	H0	H1	H2	H3	HX	
V	17	0	1	0	0	18
C	274	12	6	20	6	318
A	568	28	14	41	6	657
T	315	12	7	27	3	364
D	181	5	2	10	4	202
S	947	45	28	68	17	1,105
Rs	470	19	10	44	5	548
Ra	422	18	19	22	3	484
Rb	650	24	11	22	10	717
P	50	0	0	3	1	54
Rx	14	1	0	2	2	19
Colon	2,302	102	58	166	36	2,664
Rectum	1,606	62	40	93	21	1,822
Total	3,908	164	98	259	57	4,486

H0 No liver metastasis

H1 Metastasis limited to one lobe

H2 Some metastases to both lobes (4 lesions or less)

H3 Numerous metastases to both lobes (5 lesions or more)

HX No information on liver metastasis

Table 14-3
Metastasis, lung

Site	Pulmonary metastasis					Total
	LM0	LM1	LM2	LM3	LMX	
V	16	0	0	0	2	18
C	281	2	1	3	31	318
A	606	8	0	6	37	657
T	331	4	1	7	21	364
D	180	2	2	2	16	202
S	989	21	2	6	87	1,105
Rs	497	5	4	5	37	548
Ra	443	6	5	5	25	484
Rb	645	14	2	7	49	717
P	51	1	0	0	2	54
Rx	15	0	0	0	4	19
Colon	2,403	37	6	24	194	2,664
Rectum	1,651	26	11	17	117	1,822
Total	4,054	63	17	41	311	4,486

LM0 No pulmonary metastasis

LM1 Metastasis only to one lobe

LM2 Metastases to multiple lobes but not meeting "LM3"

LM3 Numerous metastases to bilateral lungs, lymphangitis carcinomatosa, pleuritis carcinomatosa, or, metastasis to hilar lymph nodes

LMX No information on pulmonary metastasis

Table 14-4

Metastasis, distant organs

Site	M(-)	Bone	Distant metastasis						x	Total
			Brain	Adrenal	Skin	Virchow	OTH			
V	17	0	0	0	0	0	0	1	18	
C	290	2	0	0	0	0	7	19	318	
A	611	2	0	0	0	0	7	37	657	
T	341	3	0	0	0	2	3	15	364	
D	192	0	0	0	0	0	2	8	202	
S	1,008	5	1	0	0	1	13	77	1,105	
Rs	516	3	0	0	0	1	2	26	548	
Ra	452	2	0	1	0	0	5	24	484	
Rb	673	2	1	1	0	0	8	32	717	
P	51	0	0	0	0	0	0	3	54	
Rx	15	0	1	0	0	0	0	3	19	
Colon	2,459	12	1	0	0	3	32	157	2,664	
Rectum	1,707	7	2	2	0	1	15	88	1,822	
Total	4,166	19	3	2	0	4	47	245	4,486	

M(-) No distant metastasis

Virchow Virchow's lymph node

Adrenal adrenal gland

Table 15

Histological classification, by site

Site	Histological classification						Total
	w/d	m/d	p/d	muc	sig	NOS	
V	5	4	3	5	1	0	18
C	155	117	21	20	1	4	318
A	285	300	40	26	1	5	657
T	173	144	21	20	0	6	364
D	92	87	8	4	0	11	202
S	467	577	19	26	0	16	1,105
Rs	233	289	8	6	2	10	548
Ra	199	237	22	14	1	11	484
Rb	322	345	20	19	3	8	717
P	11	31	2	9	0	1	54
Rx	9	10	0	0	0	0	19
Colon	1,177	1,229	112	101	3	42	2,664
Rectum	774	912	52	48	6	30	1,822
Total	1,951	2,141	164	149	9	72	4,486

w/d well-differentiated adenocarcinoma

m/d moderately differentiated adenocarcinoma

p/d poorly differentiated adenocarcinoma

muc mucinous adenocarcinoma

sig signet-ring cell carcinoma

NOS adenocarcinoma not otherwise specified

Table 16-1

Depth of tumor invasion (DI), macroscopic, by site

Site	DI							Total
	M	SM	MP	SS/A1	SE/A2	Si/Ai	X	
V	1	1	0	1	5	7	3	18
C	27	28	21	99	85	47	11	318
A	38	67	47	205	206	67	27	657
T	25	42	30	106	115	25	21	364
D	13	26	20	51	61	21	10	202
S	26	127	116	344	324	115	53	1,105
Rs	9	47	71	170	178	48	25	548
Ra	18	46	61	145	171	21	22	484
Rb	36	73	109	182	188	87	42	717
P	1	5	8	10	15	10	5	54
Rx	1	1	3	3	9	0	2	19
Colon	130	291	234	806	796	282	125	2,664
Rectum	65	172	252	510	561	166	96	1,822
Total	195	463	486	1,316	1,357	448	221	4,486

Intesitine with serosa, macroscopic

M Tumor invasion of mucosa

SM Tumor invasion of submucosa

MP Tumor invasion of muscularis propria

SS Tumor invasion of subserosa

SE Tumor invasion of serosa

Si Tumor invasion of other organs or structures

Intesitine without serosa

M Tumor invasion of mucosa

SM Tumor invasion of submucosa

MP Tumor invasion of muscularis propria

A1 Tumor invasion through muscularis propria into non-peritonealized part

A2 Tumor invasion of non-peritonealized, pericolic or perirectal tissues

Ai Direct tumor invasion of other organs or structures

Table 16-2

Depth of tumor invasion (DI), histological, by site

Site	DI							Total
	m	sm	mp	ss/a1	se/a2	si/ai	X	
V	2	0	0	4	5	6	1	18
C	31	25	30	140	58	27	7	318
A	47	62	49	308	152	30	9	657
T	30	44	32	157	81	15	5	364
D	19	28	15	92	34	9	5	202
S	41	131	147	513	196	61	16	1,105
Rs	22	50	73	254	116	24	9	548
Ra	26	47	74	186	130	8	13	484
Rb	45	85	146	182	198	45	16	717
P	2	6	8	14	19	4	1	54
Rx	1	3	1	8	5	1	0	19
Colon	170	290	273	1,214	526	148	43	2,664
Rectum	96	191	302	644	468	82	39	1,822
Total	266	481	575	1,858	994	230	82	4,486

Intesitine with serosa` histological

m Tumor invasion of mucosa

sm Tumor invasion of submucosa

mp Tumor invasion of muscularis propria

ss Tumor invasion of subserosa

se Tumor invasion of serosa

si Tumor invasion of other organs or structures

Intesitine without serosa

m Tumor invasion of mucosa

sm Tumor invasion of submucosa

mp Tumor invasion of muscularis propria

a1 Tumor invasion through muscularis propria into non-peritonealized part

a2 Tumor invasion of non-peritonealized, pericolic or perirectal tissues

ai Direct tumor invasion of other organs or structures

Table 17

Number of organs or structures with cancer invasion, histological

Site	Number of organs with cancer invasion						Total
	1	2	3	4	5	x	
V	4	0	1	0	0	1	6
C	21	4	1	0	0	1	27
A	17	4	0	0	0	9	30
T	6	4	3	0	0	2	15
D	6	1	0	0	0	2	9
S	35	7	2	1	0	16	61
Rs	12	2	2	0	0	8	24
Ra	7	0	0	0	0	1	8
Rb	33	3	0	0	1	8	45
P	1	2	0	0	0	1	4
Rx	1	0	0	0	0	0	1
Colon	89	20	7	1	0	31	148
Rectum	54	7	2	0	1	18	82
Total	143	27	9	1	1	49	230

Table 18-1

Lymph node metastasis, macroscopic, by site

Site	Lymph node metastasis						Total
	N0	N1	N2	N3	N4	NX	
V	8	3	4	2	0	1	18
C	131	85	70	17	4	11	318
A	275	173	128	27	29	25	657
T	181	83	43	21	18	18	364
D	106	59	22	0	3	12	202
S	507	329	170	18	28	53	1,105
Rs	254	184	59	11	16	24	548
Ra	219	155	52	15	15	28	484
Rb	348	171	93	38	18	49	717
P	30	2	16	4	1	1	54
Rx	10	3	2	0	1	3	19
Colon	1,208	732	437	85	82	120	2,664
Rectum	861	515	222	68	51	105	1,822
Total	2,069	1,247	659	153	133	225	4,486

N0 No lymph node metastasis

N1 Metastasis to Group 1

N2 Metastasis to Group 2

N3 Metastasis to Group 3

N4 Metastasis to Group 4

NX Unknown lymph node metastasis

Table 18-2

Lymph node metastasis, histological, by site

Site	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
V	10	2	3	1	0	2	18
C	184	71	39	8	5	11	318
A	366	144	82	26	15	24	657
T	219	69	47	10	9	10	364
D	129	47	12	2	0	12	202
S	649	273	118	13	20	32	1,105
Rs	310	136	55	10	10	27	548
Ra	243	141	44	15	10	31	484
Rb	372	135	91	36	19	64	717
P	27	3	15	3	0	6	54
Rx	9	2	2	0	1	5	19
Colon	1,557	606	301	60	49	91	2,664
Rectum	961	417	207	64	40	133	1,822
Total	2,518	1,023	508	124	89	224	4,486

n0 No lymph node metastasis

n1 Metastasis to Group 1

n2 Metastasis to Group 2

n3 Metastasis to Group 3

n4 Metastasis to Group 4

nX Unknown lymph node metastasis

Table 18-3

Lymph node metastasis, histological, by DI

DI	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
m	238	2	1	1	0	24	266
sm	407	28	14	2	0	30	481
mp	441	93	21	8	0	12	575
ss/a1	994	519	232	42	28	43	1,858
se/a2	333	315	194	63	45	44	994
si/ai	87	57	44	8	15	19	230
x	18	9	2	0	1	52	82
Total	2,518	1,023	508	124	89	224	4,486

Table 18-4

Lymph node metastasis, histological, by DI,colon

DI	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
m	164	2	1	0	0	3	170
sm	262	13	9	0	0	6	290
mp	216	44	9	1	0	3	273
ss/a1	670	327	149	28	15	25	1,214
se/a2	177	176	103	29	24	17	526
si/ai	57	38	28	2	10	13	148
x	11	6	2	0	0	24	43
Total	1,557	606	301	60	49	91	2,664

Table 18-5

Lymph node metastasis, histological, by DI,rectum

DI	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
m	74	0	0	1	0	21	96
sm	145	15	5	2	0	24	191
mp	225	49	12	7	0	9	302
ss/a1	324	192	83	14	13	18	644
se/a2	156	139	91	34	21	27	468
si/ai	30	19	16	6	5	6	82
x	7	3	0	0	1	28	39
Total	961	417	207	64	40	133	1,822

Table 19-1

Lymphatic invasion, by site

Site	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
V	8	4	3	2	0	1	18
C	119	96	64	19	11	9	318
A	213	243	111	60	13	17	657
T	139	125	66	19	8	7	364
D	77	73	29	8	2	13	202
S	378	424	181	56	29	37	1,105
Rs	160	229	86	37	16	20	548
Ra	145	185	91	29	4	30	484
Rb	248	256	127	37	10	39	717
P	10	20	16	4	0	4	54
Rx	4	5	6	4	0	0	19
Colon	934	965	454	164	63	84	2,664
Rectum	567	695	326	111	30	93	1,822
Total	1,501	1,660	780	275	93	177	4,486

Table 19-2

Lymphatic invasion, by DI,colon

DI	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
m	165	0	1	0	0	4	170
sm	188	81	8	1	3	9	290
mp	128	107	27	4	4	3	273
ss/a1	344	518	224	66	37	25	1,214
se/a2	78	189	157	76	17	9	526
si/ai	23	63	35	16	2	9	148
x	8	7	2	1	0	25	43
Total	934	965	454	164	63	84	2,664

Table 19-3

Lymphatic invasion, by DI,rectum

DI	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
m	85	1	1	0	0	9	96
sm	112	56	11	2	2	8	191
mp	114	133	38	4	5	8	302
ss/a1	168	293	118	31	17	17	644
se/a2	70	186	133	59	5	15	468
si/ai	12	25	23	14	1	7	82
x	6	1	2	1	0	29	39
Total	567	695	326	111	30	93	1,822

ly0 No lymphatic invasion

ly1 Minimal lymphatic invasion

ly2 Moderate lymphatic invasion

ly3 Severe lymphatic invasion

ly+ Positive lymphatic invasion

Table 20-1

Venous invasion, by site

Site	Venous invasion						Total
	v0	v1	v2	v3	v(+)	X	
V	11	4	2	0	0	1	18
C	163	80	40	15	10	10	318
A	277	209	108	30	12	21	657
T	179	108	50	12	7	8	364
D	90	63	31	5	0	13	202
S	509	322	154	53	28	39	1,105
Rs	222	164	93	36	12	21	548
Ra	167	155	91	37	4	30	484
Rb	281	216	126	45	8	41	717
P	21	16	8	5	0	4	54
Rx	6	5	6	2	0	0	19
Colon	1,229	786	385	115	57	92	2,664
Rectum	697	556	324	125	24	96	1,822
Total	1,926	1,342	709	240	81	188	4,486

Table 20-2

Venous invasion, by DI,colon

DI	Venous invasion						Total
	v0	v1	v2	v3	v(+)	X	
m	164	1	1	0	0	4	170
sm	233	36	9	0	3	9	290
mp	173	77	9	3	4	7	273
ss/a1	457	439	208	46	36	28	1,214
se/a2	155	177	122	51	12	9	526
si/ai	36	50	36	14	2	10	148
x	11	6	0	1	0	25	43
Total	1,229	786	385	115	57	92	2,664

Table 20-3

Venous invasion, by DI,rectum

DI	Venous invasion						Total
	v0	v1	v2	v3	v(+)	X	
m	88	0	0	0	0	8	96
sm	138	33	6	3	2	9	191
mp	158	104	27	0	3	10	302
ss/a1	211	232	128	44	14	15	644
se/a2	82	163	136	65	5	17	468
si/ai	14	22	25	12	0	9	82
x	6	2	2	1	0	28	39
Total	697	556	324	125	24	96	1,822

v0 No venous invasion

v1 Minimal venous invasion

v2 Moderate venous invasion

v3 Severe venous invasion

v+ positive venous invasion

Table 21-1

Tumor invasion of surgical margin, macroscopic, by site

Site	Proximal cut end (OW)			Total
	OW(-)	OW(+)	X	
V	17	0	1	18
C	293	0	25	318
A	614	0	43	657
T	339	1	24	364
D	186	0	16	202
S	1,030	1	74	1,105
Rs	512	1	35	548
Ra	452	0	32	484
Rb	660	1	56	717
P	51	0	3	54
Rx	18	0	1	19
Colon	2,479	2	183	2,664
Rectum	1,693	2	127	1,822
Total	4,172	4	310	4,486

Table 21-2

Tumor invasion of surgical margin, macroscopic, by site

Site	Distal cut end (AW)			Total
	AW(-)	AW(+)	x	
V	17	0	1	18
C	293	0	25	318
A	613	1	43	657
T	340	0	24	364
D	184	0	18	202
S	1,029	1	75	1,105
Rs	513	0	35	548
Ra	451	2	31	484
Rb	657	2	58	717
P	50	1	3	54
Rx	18	0	1	19
Colon	2,476	2	186	2,664
Rectum	1,689	5	128	1,822
Total	4,165	7	314	4,486

Table 21-3

Tumor invasion of surgical margin, macroscopic, by site

Site	Surgical cut end (EW)			Total
	EW(-)	EW(+)	X	
V	15	2	1	18
C	263	4	51	318
A	543	6	108	657
T	303	7	54	364
D	163	2	37	202
S	921	10	174	1,105
Rs	459	4	85	548
Ra	416	7	61	484
Rb	596	25	96	717
P	43	4	7	54
Rx	9	2	8	19
Colon	2,208	31	425	2,664
Rectum	1,523	42	257	1,822
Total	3,731	73	682	4,486

OW(-) No tumor invasion on proximal cut end

OW(+) Tumor invasion on proximal cut end

AW(-) No tumor invasion on distal cut end

AW(+) Tumor invasion on distal cut end

EW(-) No tumor invasion on surgical cut end

EW(+) Tumor invasion on surgical cut end

Table 21-4

Distance between tumor and proximal cut end, by site

Site	Distance between tumor and proximal cut end (mm)				X	Total
	<=50	51-100	>100			
V	3	2	10		3	18
C	51	96	86		85	318
A	74	162	249		172	657
T	54	90	106		114	364
D	36	61	46		59	202
S	152	423	244		286	1,105
Rs	55	149	217		127	548
Ra	32	88	232		132	484
Rb	46	44	393		234	717
P	2	1	28		23	54
Rx	1	3	7		8	19
Colon	370	834	741		719	2,664
Rectum	136	285	877		524	1,822
Total	506	1,119	1,618		1,243	4,486

Table 22-5

Distance between tumor and distal cut end, by site,colon

Site	Distance between tumor and distal cut end (mm)				X	Total
	<=50	51-100	>100			
V	5	5	5		3	18
C	44	68	121		85	318
A	72	178	242		165	657
T	57	115	79		113	364
D	40	56	46		60	202
S	281	393	147		284	1,105
Total	499	815	640		710	2,664

Table 21-6

Distance between tumor and distal cut end, by site,rectum

Site	Distance between tumor and distal cut end (mm)								Total
	<=10	11-20	21-30	31-40	41-50	51-60	>60	x	
Rs	19	35	69	95	88	57	63	122	548
Ra	35	82	101	65	35	16	20	130	484
Rb	103	119	89	64	50	20	38	234	717
P	6	8	8	3	2	1	2	24	54
Rx	2	1	0	2	3	0	3	8	19
Total	165	245	267	229	178	94	126	518	1,822

Table 21-7

Distance between tumor and proximal cut end, and distance between tumor and distal cut end, colon

proximal length (mm)	distal length (mm)				X	Total
	<=50	51-100	>100			
<=50	199	112	56		3	370
51-100	112	302	325		2	741
>100	185	391	257		1	834
X	3	10	2		704	719
Total	499	815	640		710	2,664

Table 21-8

Distance between tumor and proximal cut end, and distance between tumor and distal cut end, rectum

proximal length (mm)	distal length (mm)							X	Total
	<=10	11-20	21-30	31-40	41-50	51-60	>60		
<=50	56	16	17	14	8	4	20	1	136
51-100	20	45	56	50	42	33	38	1	285
>100	88	180	192	159	124	54	66	14	877
X	1	4	2	6	4	3	2	502	524
Total	165	245	267	229	178	94	126	518	1,822

Proximal length: distance between the proximal margin of tumor and the proximal cut end.

Distal length: distance between the distal margin of tumor and the distal cut end.

Table 21-9

Tumor invasion of surgical margin, histological, by site

Site	Proximal cut end (ow)			Total
	ow(-)	ow(+)	X	
V	15	0	3	18
C	288	0	30	318
A	607	1	49	657
T	338	1	25	364
D	180	0	22	202
S	1,022	1	82	1,105
Rs	502	1	45	548
Ra	447	0	37	484
Rb	659	2	56	717
P	52	0	2	54
Rx	19	0	0	19
Colon	2,450	3	211	2,664
Rectum	1,679	3	140	1,822
Total	4,129	6	351	4,486

Table 21-10

Tumor invasion of surgical margin, histological, by site

Site	Distal cut end (aw)			Total
	aw(-)	aw(+)	X	
V	15	0	3	18
C	290	0	28	318
A	608	1	48	657
T	339	0	25	364
D	181	0	21	202
S	1,019	2	84	1,105
Rs	500	2	46	548
Ra	442	4	38	484
Rb	651	7	59	717
P	52	0	2	54
Rx	19	0	0	19
Colon	2,452	3	209	2,664
Rectum	1,664	13	145	1,822
Total	4,116	16	354	4,486

Table 21-11

Tumor invasion of surgical margin, histological, by site

Site	Surgical cut end (ew)			Total
	ew(-)	ew(+)	X	
V	13	2	3	18
C	252	3	63	318
A	534	8	115	657
T	303	5	56	364
D	151	0	51	202
S	876	17	212	1,105
Rs	426	11	111	548
Ra	395	9	80	484
Rb	576	36	105	717
P	42	7	5	54
Rx	10	3	6	19
Colon	2,129	35	500	2,664
Rectum	1,449	66	307	1,822
Total	3,578	101	807	4,486

ow(-) No tumor invasion on proximal cut end

ow(+) Tumor invasion on proximal cut end

aw(-) No tumor invasion on distal cut end

aw(+) Tumor invasion on distal cut end

ew(-) No tumor invasion on surgical cut end

ew(+) Tumor invasion on surgical cut end

Table 21-12

Tumor invasion of surgical margin, histological

Proximal cut end	Distal cut end			Total
	aw(-)	aw(+)	X	
ow(-)	4,104	12	13	4,129
ow(+)	2	3	1	6
X	10	1	340	351
Total	4,116	16	354	4,486

Table 21-13

Tumor invasion of surgical margin, histological
Surgical cut end

Proximal cut end	ew(-)	ew(+) X	Total
ow(-)	3,569	96 464	4,129
ow(+)	3	3 0	6
X	6	2 343	351
Total	3,578	101 807	4,486

Table 21-14

Tumor invasion of surgical margin, histological
Surgical cut end

Distal cut end	ew(-)	ew(+) X	Total
aw(-)	3,563	92 461	4,116
aw(+)	7	5 4	16
X	8	4 342	354
Total	3,578	101 807	4,486

Table 22-1

Histological examination of peritoneal metastasis, by site

Site	Histological or cytological examination			X	Total
	Not examined	Positive histology	Positive cytology		
V	8	1	5	4	18
C	178	17	13	110	318
A	419	33	25	180	657
T	222	18	10	114	364
D	130	6	7	59	202
S	700	34	25	346	1,105
Rs	347	15	11	175	548
Ra	295	20	15	154	484
Rb	443	33	9	232	717
P	37	1	0	16	54
Rx	7	0	0	12	19
Colon	1,657	109	85	813	2,664
Rectum	1,129	69	35	589	1,822
Total	2,786	178	120	1,402	4,486

Table 22-2

Histological examination of peritoneal metastasis

Peritoneal metastasis	Histological or cytological examination					X	Total
	Not examined	Positive histology	Positive cytology				
P0	2,699	106	92			1,311	4,208
P1	29	38	10			21	98
P2	14	8	6			19	47
P3	21	25	8			21	75
PX	23	1	4			30	58
Total	2,786	178	120			1,402	4,486

Table 23

Additional and/or adjuvant therapy, by site (multi-answers)

Site	None	Radiation			Chemotherapy			OTH	X	Total
		pre	intra	post	pre	intra	post			
V	11	1	0	0	0	0	3	1	4	20
C	159	0	0	1	1	5	88	1	69	324
A	358	0	0	2	4	5	169	4	123	665
T	186	0	0	2	3	1	104	4	73	373
D	100	0	0	1	1	3	53	0	48	206
S	494	5	0	7	9	9	329	6	270	1,129
Rs	233	5	0	2	6	7	183	1	122	559
Ra	230	5	1	3	4	2	157	5	89	496
Rb	307	22	0	22	13	4	239	5	144	756
P	24	2	0	4	2	0	16	0	7	55
Rx	5	0	0	0	0	0	5	0	9	19
Colon	1,308	6	0	13	18	23	746	16	587	2,717
Rectum	799	34	1	31	25	13	600	11	371	1,885
Total	2,107	40	1	44	43	36	1,346	27	958	4,602

pre preoperative therapy

intra intraoperative therapy

post postoperative therapy

Table 24-1

Operative procedures, patients without tumor resection, by site

Site	Explora-tory	Enterostomy					Bypass	OTH	Total
		Ileum	Right colon	Transve-rse	Left colon				
C	0	0	0	0	0		1	0	1
A	1	0	0	0	0		4	0	5
T	0	1	0	0	0		3	0	4
D	0	0	0	1	0		1	0	2
S	0	0	0	0	2		0	0	2
Rs	0	0	0	0	1		0	0	1
Ra	1	0	0	3	2		1	1	8
Rb	0	0	1	2	5		0	0	8
Colon	1	1	0	1	2		9	0	14
Rectum	1	0	1	5	8		1	1	17
Total	2	1	1	6	10		10	1	31

Exploratory exploratory laparotomy

ileum ileostomy

Right colon Colostomy on the right colon

Transverse Colostomy on the transverse colon

Left colon Colostomy on the left colon

Table 24-2

Operative procedures, laparoscopic surgery

Site	No	Laparoscopic surgery (LS)			Total
		Yes	LS only	LS assisted	
V	16		1	1	0
C	271		15	31	0
A	579		10	62	1
T	317		10	33	0
D	174		6	19	1
S	960		31	108	4
Rs	511		9	27	0
Ra	454		6	16	0
Rb	696		3	7	3
P	54		0	0	0
Rx	18		1	0	0
Colon	2,317		73	254	6
Rectum	1,733		19	50	3
Total	4,050		92	304	9
					4,455

Table 24-3
Operative procedures

Polypectomy	trans-abdominal	1
	trans-anal	19
	trans-sacral	0
	trans-sphincteric	0
Tumorectomy	trans-abdominal	1
	trans-anal	68
	trans-sacral	4
	trans-sphincteric	1
Segmental resection	colon	83
	rectum	12
Appendectomy		2
Ileocecal resection		217
Ascending colectomy		65
Right hemicolectomy		769
Transverse colectomy		200
Descending colectomy		69
Left hemicolectomy		128
Sigmoidectomy		912
Subtotal colectomy		7
Total colectomy		10
Sphincter preserving operation	high anterior resection	392
	low anterior resection	914
	posterior resection	1
	invagination method	0
	pull through procedure	1
	abdominosacral resection	18
Hartmann's operation		109
Amputation of the rectum	abdominoperineal	366
	abdominosacral	2
Total pelvic exenteration		24
Total resection of the colon and rectum	with ileostomy	4
	with ileoanal anastomosis	14
OTH		17
X		25
Total		4,455

Table 25-1

Lymph node dissection, paraintestinal, by site

Site	Lymph node dissection, paraintestinal nodes				Total
	D0	D1	D2	X	
V	1	4	13	0	18
C	9	62	213	33	317
A	10	91	492	59	652
T	10	87	231	32	360
D	9	51	122	18	200
S	26	269	703	105	1,103
Rs	14	90	375	68	547
Ra	15	74	343	44	476
Rb	59	81	490	79	709
P	5	5	41	3	54
Rx	1	2	10	6	19
Colon	65	564	1,774	247	2,650
Rectum	94	252	1,259	200	1,805
Total	159	816	3,033	447	4,455

Table 25-2

Lymph node dissection, mesenteric, by site

Site	Lymph node dissection, mesenteric nodes				Total
	D0	D2	D3	X	
V	3	3	11	1	18
C	38	90	159	30	317
A	47	209	345	51	652
T	55	135	141	29	360
D	26	78	74	22	200
S	115	388	489	111	1,103
Rs	45	166	285	51	547
Ra	48	152	247	29	476
Rb	82	185	386	56	709
P	5	8	38	3	54
Rx	2	7	4	6	19
Colon	284	903	1,219	244	2,650
Rectum	182	518	960	145	1,805
Total	466	1,421	2,179	389	4,455

Table 25-3

Lymph node dissection, rectum, lateral, by site

Site	Lymph node dissection, lateral nodes				Total
	D0	D2	D3	X	
Rs	278	31	23	215	547
Ra	237	45	80	114	476
Rb	243	89	221	156	709
P	11	2	33	8	54
Rx	4	1	2	12	19
Total	773	168	359	505	1,805

D0 No dissection or incomplete dissection of Group 1 lymph nodes

D1 Dissection of Group 1 lymph nodes

D2 Dissection of Group 1 and 2 lymph nodes

D3 Dissection of Group 1, 2, and 3 lymph nodes

Table 26-1

Combined resection, by site

Site	Number of organs resected						Total
	0	1	2	3	4	>=5	
V	11	3	2	2	0	0	18
C	268	33	11	4	1	0	317
A	572	69	8	0	2	1	652
T	322	26	9	2	1	0	360
D	179	18	3	0	0	0	200
S	947	123	23	8	2	0	1,103
Rs	480	52	7	7	1	0	547
Ra	420	37	13	6	0	0	476
Rb	607	67	21	9	4	1	709
P	42	8	2	2	0	0	54
Rx	19	0	0	0	0	0	19
Colon	2,318	272	56	16	6	1	2,650
Rectum	1,591	164	43	24	5	1	1,805
Total	3,909	436	99	40	11	2	4,455

Table 26-2

Combined resection, by site (multi-answers)

Organ	Site										Total
	V	C	A	T	D	S	Rs	Ra	Rb	P	
Abdominal wall	3	19	16	1	3	12	1	1	0	0	56
Pelvic wall	0	0	0	1	0	0	0	1	4	0	6
Uterus	0	3	4	2	0	18	5	14	19	0	65
Ovary & tube	1	7	3	1	1	16	8	9	12	0	58
Vagina	0	0	0	0	0	1	1	5	24	4	35
Seminal vesicle	0	0	0	0	0	2	3	3	20	4	32
Prostate	0	0	0	0	0	4	4	4	19	5	36
Bladder	0	2	1	1	0	36	18	3	14	2	77
Ureter	0	0	0	0	0	6	9	0	6	0	21
Stomach	0	3	3	9	3	3	1	3	2	0	27
Duodenum	0	2	5	1	0	0	0	0	0	0	8
Small intestine	3	6	5	8	4	24	4	1	2	0	57
Colon	1	2	5	0	2	7	3	2	2	0	24
Rectum	1	1	1	0	0	5	2	0	2	0	12
Liver	1	9	23	6	1	25	15	17	10	0	107
Omentum	1	4	8	3	1	5	0	0	1	0	23
Remote organ	0	1	1	1	0	1	1	1	0	0	6
OTH	0	10	24	14	8	27	15	13	22	0	133
X	0	0	0	2	1	1	0	0	0	0	4
Total	11	69	99	50	24	193	90	77	159	15	787

Table 27-1

Treatment for liver metastasis, by site

Site	Resection of liver metastasis			Total
	Complete	Incomplete	X	
V	1	0	0	1
C	7	1	1	9
A	22	3	1	26
T	5	0	1	6
D	4	1	0	5
S	30	6	1	37
Rs	11	3	4	18
Ra	16	3	0	19
Rb	13	2	1	16
Colon	69	11	4	84
Rectum	40	8	5	53
Total	109	19	9	137

Table 27-2

Treatment for liver metastasis

Liver metastasis	Resection of liver metastasis			Total
	Complete	Incomplete	X	
H1	71	3	5	79
H2	29	3	1	33
H3	9	13	3	25
Total	109	19	9	137

Table 27-3

Treatment for liver metastasis, by site

Site	Treatment modality other than hepatectomy			Total
	Ethanol	MCT	OTH	
C	2	0	4	6
A	0	4	5	9
T	0	2	3	5
D	0	1	1	2
S	0	5	10	15
Rs	1	1	4	6
Ra	0	5	2	7
Rb	1	0	4	5
P	0	0	1	1
Colon	2	12	23	37
Rectum	2	6	11	19
Total	4	18	34	56

Table 27-4

Treatment for liver metastasis

Liver metastasis	Treatment modality other than hepatectomy			Total
	Ethanol	MCT	OTH	
H1	2	6	7	15
H2	0	7	3	10
H3	2	5	24	31
Total	4	18	34	56

Ethanol ethanol injection therapy

MCT microwave coagulotherapy

Table 28-1

Curability of surgical resection, macroscopic, by site

Site	Curability of surgical resection				X	Total
	Cur A	Cur B	Cur C	Not resected		
V	10	2	5	0	1	18
C	245	26	41	2	4	318
A	484	52	90	5	26	657
T	269	25	55	5	10	364
D	157	9	27	3	6	202
S	849	71	138	3	44	1,105
Rs	427	32	65	2	22	548
Ra	372	33	60	8	11	484
Rb	553	48	75	9	32	717
P	43	4	6	0	1	54
Rx	7	1	4	0	7	19
Colon	2,014	185	356	18	91	2,664
Rectum	1,402	118	210	19	73	1,822
Total	3,416	303	566	37	164	4,486

Cur A No residual tumors

Cur B No residual tumors but not evaluable as "Cur A"

Cur C Definite residual tumors

Table 28-2

Curability of surgical resection, microscopic, by site

Site	Curability of surgical resection					X	Total
	cur A	cur B	cur C	Not resected			
V	12	2	4	0		0	18
C	233	23	33	2		27	318
A	462	57	85	5		48	657
T	261	23	53	5		22	364
D	150	10	24	3		15	202
S	813	72	134	3		83	1,105
Rs	406	27	65	2		48	548
Ra	360	29	54	8		33	484
Rb	527	58	67	9		56	717
P	37	4	7	0		6	54
Rx	8	0	4	0		7	19
Colon	1,931	187	333	18		195	2,664
Rectum	1,338	118	197	19		150	1,822
Total	3,269	305	530	37		345	4,486

cur A No residual tumors

cur B No residual tumors but not evaluable as "cur A"

cur C Definite residual tumors

Table 29-1

Histological stage, by site

Site	Histological stage							Total
	0	I	II	IIIa	IIIb	IV	X	
V	2	0	5	4	2	5	0	18
C	27	48	81	62	21	52	27	318
A	47	88	189	121	48	128	36	657
T	30	63	102	46	35	66	22	364
D	19	35	63	35	10	32	8	202
S	40	213	305	205	85	192	65	1,105
Rs	22	94	164	112	32	87	37	548
Ra	24	85	119	104	40	80	32	484
Rb	41	175	145	121	89	98	48	717
P	2	9	16	0	15	4	8	54
Rx	1	3	5	3	0	4	3	19
Colon	165	447	745	473	201	475	158	2,664
Rectum	90	366	449	340	176	273	128	1,822
Total	255	813	1,194	813	377	748	286	4,486

Table 29-2

Histological stage, by curability of surgical resection

Curability	Histological stage							Total
	0	I	II	IIIa	IIIb	IV	X	
cur A	245	777	1,120	720	293	23	91	3,269
cur B	1	3	25	49	54	171	2	305
cur C	0	0	8	17	15	487	6	533
Not resected	0	0	0	0	0	19	5	24
X	9	33	41	27	15	48	182	355
Total	255	813	1,194	813	377	748	286	4,486

Table 30

Accompanied lesion, by site (multi-answers)

Site	Accompanied lesions								Total
	Adenoma	Adenom- atosis	Ulcer- ative colitis	Crohn's disease	Radiation colitis	Anal fistula	OTH	X	
V	0	0	0	0	0	0	1	0	1
C	29	4	0	0	0	0	3	1	37
A	56	5	2	0	1	1	12	6	83
T	36	1	1	0	1	0	7	2	48
D	28	1	0	0	0	0	5	5	39
S	112	6	2	1	0	0	13	11	145
Rs	54	4	1	0	1	2	5	4	71
Ra	53	7	0	1	0	0	10	6	77
Rb	67	3	1	0	2	2	17	6	98
P	4	0	0	0	0	0	0	0	4
Rx	2	0	0	0	0	0	0	0	2
Colon	261	17	5	1	2	1	41	25	353
Rectum	180	14	2	1	3	4	32	16	252
Total	441	31	7	2	5	5	73	41	605

Table 31

Site and number of cancers

Site	Number of cancers							Total
	1	2	3	4	>=5	X		
V	1	0	0	0	0	0		1
C	10	0	0	0	0	0		10
A	10	0	0	0	0	0		10
T	18	0	0	1	0	0		19
D	14	2	0	0	0	0		16
S	91	5	1	0	1	0		98
Rs	21	1	1	0	0	0		23
Ra	19	1	0	0	0	0		20
Rb	22	0	0	0	0	0		22
P	1	0	0	0	0	0		1
Rx	1	0	0	0	0	0		1
Colon	144	7	1	1	1	0		154
Rectum	64	2	1	0	0	0		67
NOS	0	2	0	0	0	1		3
Total	208	11	2	1	1	0		224

Table 32-1

Endoscopic excision

Site	Modality of endoscopic resection			Total
	Electric cautery	X		
V	1	0		1
C	8	2		10
A	9	1		10
T	13	6		19
D	12	4		16
S	86	12		98
Rs	15	8		23
Ra	18	2		20
Rb	17	5		22
P	0	1		1
Rx	0	1		1
Colon	129	25		154
Rectum	50	17		67
NOS	3	0		3
Total	182	42		224

Table 32-2

Endoscopic excision, evaluation of the excision

Site	Excision				X	Total
	Complete	Incomplete	Undecidable			
V	1	0	0		0	1
C	4	3	0		3	10
A	10	0	0		0	10
T	12	4	0		3	19
D	8	5	0		3	16
S	75	13	0		10	98
Rs	13	4	1		5	23
Ra	14	3	1		2	20
Rb	14	4	0		4	22
P	0	0	0		1	1
Rx	1	0	0		0	1
Colon	110	25	0		19	154
Rectum	42	11	2		12	67
NOS	3	0	0		0	3
Total	155	36	2		31	224

Table 32-3

Endoscopic excision, evaluation of the retrieval of resected specimens

Site	Specimens			X	Total
	Complete	Incomplete	No retrieval		
V	1	0	0	0	1
C	6	1	0	3	10
A	10	0	0	0	10
T	17	0	0	2	19
D	13	0	0	3	16
S	87	0	0	11	98
Rs	18	0	0	5	23
Ra	17	1	0	2	20
Rb	16	0	0	6	22
P	0	0	0	1	1
Rx	1	0	0	0	1
Colon	134	1	0	19	154
Rectum	52	1	0	14	67
NOS	3	0	0	0	3
Total	189	2	0	33	224

Table 33-1

Gross appearance , by site

Site	Gross appearance										Total
	Ip	Isp	Is	Ila	Ila+IIC	IIB	IIC	IIC+IIA	OTH	X	
V	0	1	0	0	0	0	0	0	0	0	1
C	2	2	2	1	0	0	0	0	0	3	10
A	3	2	1	4	0	0	0	0	0	0	10
T	3	1	3	2	3	0	0	0	1	6	19
D	3	2	2	2	0	0	0	1	0	6	16
S	34	27	12	7	0	0	1	0	0	17	98
Rs	2	7	2	2	0	0	0	0	0	10	23
Ra	3	8	4	1	0	0	0	0	1	3	20
Rb	2	6	2	5	2	0	0	0	0	5	22
P	0	0	0	0	0	0	0	0	0	1	1
Rx	0	1	0	0	0	0	0	0	0	0	1
Colon	45	35	20	16	3	0	1	1	1	32	154
Rectum	7	22	8	8	2	0	0	0	1	19	67
NOS	1	0	0	1	1	0	0	0	0	0	3
Total	53	57	28	25	6	0	1	1	2	51	224

Table 33-2

Gross appearance , by DI

DI	Gross appearance										Total
	Ip	Isp	Is	Ila	Ila+IIC	IIB	IIC	IIC+IIA	OTH	X	
m	34	34	14	16	3	0	0	0	0	4	105
sm	18	21	13	9	3	0	1	1	2	22	90
mp	0	0	0	0	0	0	0	0	0	1	1
>ss/a1	0	0	0	0	0	0	0	0	0	5	5
X	1	2	1	0	0	0	0	0	0	19	23
Total	53	57	28	25	6	0	1	1	2	51	224

Depth of submucosal invasion

slight	7	7	1	1	0	0	0	0	0	4	20
massive	6	8	11	6	1	0	1	1	0	10	44
NOS	5	6	1	2	2	0	0	0	2	8	26

Table 34
DI, by site

Site	DI						Grade of sm invasion		
	m	sm	mp	>ss/a1	X	Total	slight	massive	NOS
V	1	0	0	0	0	1	0	0	0
C	5	2	0	0	3	10	0	1	1
A	7	3	0	0	0	10	0	3	0
T	8	9	1	1	0	19	2	3	4
D	6	6	0	1	3	16	3	2	1
S	49	39	0	1	9	98	7	22	10
Rs	5	14	0	2	2	23	4	6	4
Ra	8	11	0	0	1	20	3	5	3
Rb	12	6	0	0	4	22	1	2	3
P	0	0	0	0	1	1	0	0	0
Rx	1	0	0	0	0	1	0	0	0
Colon	76	59	1	3	15	154	12	31	16
Rectum	26	31	0	2	8	67	8	13	10
NOS	3	0	0	0	0	3	0	0	0
Total	105	90	1	5	23	224	20	44	26

Table 35-1
Histological classification, by site

Site	Histological classification				X	Total
	Carcinoma in adenoma	Carcinoma with adenomatous component	Carcinoma without adenomatous component			
V	1	0	0		0	1
C	5	1	1		3	10
A	5	3	1		1	10
T	8	2	5		4	19
D	9	0	2		5	16
S	48	20	12		18	98
Rs	11	5	2		5	23
Ra	10	2	3		5	20
Rb	11	4	3		4	22
P	0	0	0		1	1
Rx	1	0	0		0	1
Colon	76	26	21		31	154
Rectum	33	11	8		15	67
NOS	3	0	0		0	3
Total	112	37	29		46	224

Table 35-2**Histological classification, by site**

Site	Histological classification						
	w/d	m/d	p/d	muc	sig	NOS	Total
V	1	0	0	0	0	0	1
C	6	0	1	1	0	2	10
A	10	0	0	0	0	0	10
T	15	4	0	0	0	0	19
D	12	1	0	0	0	3	16
S	70	11	0	3	0	14	98
Rs	17	4	0	0	0	2	23
Ra	17	2	0	0	0	1	20
Rb	17	2	0	0	0	3	22
P	0	0	0	0	0	1	1
Rx	1	0	0	0	0	0	1
Colon	114	16	1	4	0	19	154
Rectum	52	8	0	0	0	7	67
NOS	3	0	0	0	0	0	3
Total	169	24	1	4	0	26	224

w/d: well-differentiated adenocarcinoma, m/d: moderately differentiated adenocarcinoma, p/d: poorly differentiated adenocarcinoma, muc: mucinous adenocarcinoma, sig: signet-ring cell carcinoma, NOS: adenocarcinoma not otherwise specified

Table 36**Lymphatic invasion and sm invasion**

sm invasion	Lymphatic invasion			X	Total
	ly0	ly1	ly(+)		
slight	12	4	1	3	20
massive	27	9	3	5	44
NOS	14	2	0	10	26
Total	53	15	4	18	90

Table 37**Venous invasion and sm invasion**

sm invasion	Venous invasion				X	Total
	v0	v1	v2	v(+)		
slight	16	0	1	0	3	20
massive	31	4	0	4	5	44
NOS	14	2	0	0	10	26
Total	61	6	1	4	18	90

Table 38-1

Tumor size, by gross appearance

Size (mm)	Gross appearance									X	Total
	Ip	Isp	Is	IIa	IIa+IIc	IIb	IIc	IIc+IIa	OTH		
<=5	0	0	1	0	0	0	0	0	0	0	1
6-10	0	7	5	2	2	0	1	0	0	1	18
11-15	7	4	5	3	0	0	0	0	1	2	22
16-20	3	4	1	1	0	0	0	0	0	4	13
21-30	6	2	0	0	0	0	0	1	0	2	11
31-40	0	1	0	0	1	0	0	0	0	0	2
>40	0	0	0	0	0	0	0	0	1	0	1
X	37	39	16	19	3	0	0	0	0	42	156
Total	53	57	28	25	6	0	1	1	2	51	224

Table 38-2

Tumor size, by DI

Size (mm)	DI					X	Total
	m	sm	mp	ss/al			
<=5	0	1	0	0		0	1
6-10	0	18	0	0		0	18
11-15	0	22	0	0		0	22
16-20	0	13	0	0		0	13
21-30	0	11	0	0		0	11
31-40	0	2	0	0		0	2
>40	0	1	0	0		0	1
X	105	22	1	5		23	156
Total	105	90	1	5		23	224

Table 39-1

Cut end of the specimen, mucosal and submucosal

m-ce	DI							X	Total		
	m		sm			mp	>ss/al				
	-	X	-	+	X						
-	61	19	37	8	3	0	0	1	129		
+	2	2	3	4	1	0	0	1	13		
X	6	15	11	10	13	1	5	21	82		
Total	69	36	51	22	17	1	5	23	224		

m-ce mucosal cut end of the specimen

sm-ce submucosal cut end of the specimen

A tumor free margin of <0.5mm in width from the cut end was classified as positive.

Table 39-2

Cut end of the specimen, mucosal and submucosal

m	DI						Total	
	sm		mp		>ss/a1			
	-	+	X	X	X	X		
m-ce								
-	80	37	8	3	0	0	129	
+	4	3	4	1	0	0	13	
X	21	11	10	13	1	5	21	
Total	105	51	22	17	1	5	224	

Table 40-1

Metastasis, by site

Site	Any metastasis			Total
	No	Yes	X	
V	1	0	0	1
C	6	0	4	10
A	7	0	3	10
T	12	0	7	19
D	11	0	5	16
S	73	4	21	98
Rs	14	0	9	23
Ra	15	1	4	20
Rb	11	0	11	22
P	0	0	1	1
Rx	0	0	1	1
Colon	110	4	40	154
Rectum	40	1	26	67
NOS	1	0	2	3
Total	151	5	68	224

Table 40-2

Metastasis, by DI

DI	Any metastasis			Total
	No	Yes	X	
m	74	0	31	105
sm	71	5	14	90
mp	0	0	1	1
>ss/a1	0	0	5	5
X	6	0	17	23
Total	151	5	68	224

Table 41-1

Curability of endoscopic excision, by site

Site	Evaluation of colorectal endoscopy				Total
	cur A	cur B	cur C	X	
V	1	0	0	0	1
C	5	1	1	3	10
A	8	0	0	2	10
T	14	0	3	2	19
D	11	0	2	3	16
S	76	3	7	12	98
Rs	16	1	1	5	23
Ra	17	0	2	1	20
Rb	15	1	3	3	22
P	0	0	0	1	1
Rx	0	0	0	1	1
Colon	115	4	13	22	154
Rectum	48	2	6	11	67
NOS	3	0	0	0	3
Total	166	6	19	33	224

Table 41-2

Curability of endoscopic excision, by DI

DI	Evaluation of colorectal endoscopy				Total
	cur A	cur B	cur C	X	
m	92	2	6	5	105
sm	67	3	11	9	90
mp	0	0	0	1	1
>ss/al	0	0	0	5	5
X	7	1	2	13	23
Total	166	6	19	33	224

Table 42-1
Additional surgery

	Additional surgical resection		Total
	Yes	No	
Site			
V	0	1	1
C	5	5	10
A	5	5	10
T	10	9	19
D	10	6	16
S	45	53	98
Rs	18	5	23
Ra	9	11	20
Rb	8	14	22
P	1	0	1
Rx	1	0	1
NOS	0	3	3
DI			
m	9	96	105
sm	75	15	90
mp	1	0	1
>ss/al	5	0	5
X	22	1	23
sm invasion (sm cancers)			0
slight	12	8	20
massive	44	0	44
NOS	19	7	26
Histology, Adenomatous component			0
Carcinoma in adenoma	30	82	112
Carcinoma with adenomatous component	23	14	37
Carcinoma without adenomatous component	18	11	29
X	41	5	46
Histological classification			
w/d	69	100	169
m/d	19	5	24
p/d	1	0	1
muc	0	4	4
sig	0	0	0
NOS	23	3	26

Table 42-2
Additional surgery

	Additional surgical resection		Total
	Yes	No	
m-ce			
-	48	81	129
+	8	5	13
X	56	26	82
sm-ce (sm cancers)			
-	45	76	121
+	23	0	23
X	44	36	80
ly (sm cancers)			
ly0	42	11	53
ly1	15	0	15
ly(+)	4	0	4
X	14	4	18
v (sm cancers)			
v0	50	11	61
v1	6	0	6
v2	1	0	1
v(+)	4	0	4
X	14	4	18
Evaluation of colorectal endoscopy			
cur A	57	10	67
cur B	3	0	3
cur C	8	3	11
X	6	2	8

Table 43

Laparoscopic surgery as additional surgery

Site	No	Laparoscopic surgery (LS)			Total
		LS only	LS assisted	YES	
C	4	0	0	1	5
A	3	0	0	0	3
T	6	0	3	2	11
D	5	1	0	3	9
S	21	2	20	4	47
Rs	13	1	0	2	16
Ra	6	0	2	1	9
Rb	10	0	0	0	10
P	0	0	0	1	1
Rx	1	0	0	0	1
Colon	52	4	23	12	91
Rectum	17	0	2	2	21
Total	69	4	25	14	112

Table 44

Residual cancer in surgically resected specimen, additional surgery

Site	Residual cancer in the resected specimen			Total
	No	Yes	X	
C	1	2	2	5
A	2	0	1	3
T	5	2	4	11
D	3	2	4	9
S	27	3	17	47
Rs	6	1	9	16
Ra	4	1	4	9
Rb	2	2	6	10
P	0	0	1	1
Rx	0	0	1	1
Colon	38	9	28	75
Rectum	12	4	21	37
Total	50	13	49	112

Table 45

DI, by site, additional surgery

Site	DI							Total
	m	sm	mp	ss/al	se/a2	si/ai	X	
C	0	3	0	1	1	0	0	5
A	0	3	0	0	0	0	0	3
T	3	6	1	1	0	0	0	11
D	2	4	0	1	0	0	2	9
S	1	36	0	6	1	0	3	47
Rs	0	12	0	2	0	1	1	16
Ra	0	9	0	0	0	0	0	9
Rb	1	4	1	1	2	1	0	10
P	0	0	1	0	0	0	0	1
Rx	0	0	0	0	0	0	1	1
Colon	6	73	1	11	2	1	6	100
Rectum	1	4	2	1	2	1	1	12
Total	7	77	3	12	4	2	7	112

Table 46-1

Lymph node metastasis, macroscopic, by site, additional surgery

Site	Lymph node metastasis						Total
	N0	N1	N2	N3	N4	NX	
C	3	1	0	1	0	0	5
A	3	0	0	0	0	0	3
T	10	1	0	0	0	0	11
D	7	0	0	0	0	2	9
S	37	5	2	0	0	3	47
Rs	12	2	1	0	1	0	16
Ra	9	0	0	0	0	0	9
Rb	5	1	1	1	1	1	10
P	1	0	0	0	0	0	1
Rx	0	0	0	0	0	1	1
Colon	81	9	3	1	1	5	100
Rectum	6	1	1	1	1	2	12
Total	87	10	4	2	2	7	112

Table 46-2

Lymph node metastasis, histological, by site, additional surgery

Site	Lymph node metastasis						Total
	n0	n1	n2	n3	n4	nX	
C	3	1	0	1	0	0	5
A	3	0	0	0	0	0	3
T	11	0	0	0	0	0	11
D	7	0	0	0	0	2	9
S	37	5	2	0	0	3	47
Rs	13	2	0	0	0	1	16
Ra	8	1	0	0	0	0	9
Rb	5	1	1	1	1	1	10
P	1	0	0	0	0	0	1
Rx	0	0	0	0	0	1	1
Colon	82	9	2	1	0	6	100
Rectum	6	1	1	1	1	2	12
Total	88	10	3	2	1	8	112

Table 47

Lymphatic invasion in surgically resected specimen, additional surgery

Site	Lymphatic invasion						Total
	ly0	ly1	ly2	ly3	ly(+)	X	
C	3	1	1	0	0	0	5
A	1	1	0	0	0	1	3
T	8	0	0	0	0	3	11
D	5	0	0	0	0	4	9
S	22	14	0	0	0	11	47
Rs	8	5	0	0	0	3	16
Ra	5	2	0	0	2	0	9
Rb	4	1	2	2	0	1	10
P	0	0	1	0	0	0	1
Rx	0	0	0	0	0	1	1
Colon	52	23	1	0	2	22	100
Rectum	4	1	3	2	0	2	12
Total	56	24	4	2	2	24	112

Table 48

Venous invasion in surgically resected specimen, additional surgery

Site	Venous invasion						X	Total
	v0	v1	v2	v3	v(+)	X		
C	2	1	2	0	0	0	5	
A	2	0	0	0	0	1	3	
T	8	0	0	0	0	3	11	
D	5	0	0	0	0	4	9	
S	24	13	0	0	0	10	47	
Rs	10	3	0	0	1	2	16	
Ra	8	0	0	0	0	1	9	
Rb	5	1	2	1	0	1	10	
P	1	0	0	0	0	0	1	
Rx	0	0	0	0	0	1	1	
Colon	59	17	2	0	1	21	100	
Rectum	6	1	2	1	0	2	12	
Total	65	18	4	1	1	23	112	

Table 49

Curability of surgical resection, additional surgery

Site	Curability				X	Total
	cur A	cur B	cur C	X		
C	5	0	0	0	5	
A	3	0	0	0	3	
T	9	0	0	2	11	
D	7	0	0	2	9	
S	41	1	0	5	47	
Rs	14	1	0	1	16	
Ra	9	0	0	0	9	
Rb	6	0	4	0	10	
P	1	0	0	0	1	
Rx	1	0	0	0	1	
Colon	88	2	0	10	100	
Rectum	8	0	4	0	12	
Total	96	2	4	10	112	

Table 50

Histological stage, additional surgery

Site	Histological stage							Total
	0	I	II	IIIa	IIIb	IV	X	
C	0	3	0	1	1	0	0	5
A	0	3	0	0	0	0	0	3
T	3	6	1	0	0	0	1	11
D	2	4	1	0	0	0	2	9
S	1	30	3	5	2	0	6	47
Rs	0	11	1	3	0	0	1	16
Ra	0	8	0	1	0	0	0	9
Rb	1	3	0	0	1	3	2	10
P	0	1	0	0	0	0	0	1
Rx	1	0	0	0	0	0	0	1
Colon	6	65	6	10	3	0	10	100
Rectum	2	4	0	0	1	3	2	12
Total	8	69	6	10	4	3	12	112

Table 51

Operative procedures, additional surgery

Operative procedure	Site										Total
	C	A	T	D	S	Rs	Ra	Rb	P	Rx	
Trans-anal polypectomy	0	0	0	0	0	1	0	0	0	1	2
Trans-anal resection	0	0	0	0	0	0	0	2	0	0	2
Partial colectomy	0	1	1	4	0	0	0	0	0	0	6
Ileocecal resection	5	1	0	0	0	0	0	0	0	0	6
Ascending colectomy	0	0	1	0	0	0	0	0	0	0	1
Right colectomy	0	1	1	0	0	0	0	0	0	0	2
Transverse colectomy	0	0	8	0	0	0	0	0	0	0	8
Descending colectomy	0	0	0	1	0	0	0	0	0	0	1
Left colectomy	0	0	0	2	0	0	0	0	0	0	2
Sigmoidectomy	0	0	0	0	40	0	0	0	0	0	40
HAR	0	0	0	0	5	7	0	0	0	0	12
LAR	0	0	0	0	0	6	9	3	0	0	18
Hartmann	0	0	0	0	0	1	0	0	0	0	1
APR	0	0	0	0	0	0	0	5	1	0	6
TPE	0	0	0	0	0	1	0	0	0	0	1
X	0	0	0	2	2	0	0	0	0	0	4
Total	5	3	11	9	47	16	9	10	1	1	112

Malignant neoplasms other than adenocarcinoma

A total of 79 patients with malignancies other than adenocarcinoma was classified into 3 groups.

I)	All	79cases
II)	Surgery	67cases
III)	Endoscopic excision	14cases

Abbreviations of histological typing in this report.

sq	squamous cell carcinoma
as	adenosquamous carcinoma
ud	undifferentiated carcinoma
bsl	basaloid carcinoma
OEM	other epithelial malignancies
cd	carcinoid
MM	malignant melanoma
LMS	leiomyosarcoma
NHL	non-Hodgkin lymphomas

Table 52-1

Age-specific incidence, males

Site	Age							Total
	30-39	40-49	50-59	60-69	70-79	80-89	90-99	
I	0	0	1	0	0	0	0	1
V	0	0	0	0	0	0	0	0
C	0	0	0	0	1	0	0	1
A	0	1	0	0	2	0	0	3
T	0	0	1	2	0	0	0	3
D	0	1	0	0	0	0	0	1
S	0	1	0	1	1	0	0	3
Rs	0	0	0	1	1	0	0	2
Ra	0	1	1	1	0	1	0	4
Rb	2	1	8	3	4	0	0	18
P	0	0	1	2	3	1	0	7
Rx	0	0	0	0	0	0	0	0
Colon	0	3	2	3	4	0	0	12
Rectum	2	2	10	7	8	2	0	31
NOS	0	0	0	1	0	0	0	1
Total	2	5	12	11	12	2	0	44

Table 52-2

Age-specific incidence, females

Site	Age							Total
	30-39	40-49	50-59	60-69	70-79	80-89	90-99	
I	0	0	0	1	1	0	0	2
V	0	0	0	1	0	0	0	1
C	0	0	0	1	1	0	0	2
A	0	0	0	1	2	1	0	4
T	0	0	0	1	0	0	0	1
D	0	0	0	1	0	0	0	1
S	0	0	0	0	0	0	0	3
Rs	0	0	0	0	0	0	0	15
Ra	0	2	1	0	0	0	0	5
Rb	0	2	5	4	1	2	1	1
P	0	0	0	1	1	3	0	1
Rx	0	0	0	1	0	0	0	1
Colon	0	0	0	6	4	1	0	11
Rectum	0	4	6	6	2	5	1	24
NOS	0	0	0	0	0	0	0	0
Total	0	4	6	12	6	6	1	35

Table 53

Histological typing, by site

Site	Histology										Total
	sq	as	ud	OEM	cd	MM	LMS	NHL	OTH		
I	0	0	0	0	0	0	0	3	0	3	
V	0	0	0	0	0	0	0	0	1	1	
C	0	0	0	0	0	0	0	3	0	3	
A	0	0	1	1	1	0	0	1	2	6	
T	0	0	0	0	0	0	1	1	1	3	
D	0	0	0	0	0	0	0	0	2	2	
S	0	0	0	0	0	0	0	0	1	1	
Rs	0	0	0	0	1	0	0	0	0	1	
Ra	0	0	0	1	3	0	0	0	1	5	
Rb	4	0	1	2	13	2	1	0	4	27	
P	10	1	0	0	0	1	0	0	0	12	
Rx	0	0	0	0	0	0	0	0	1	1	
Colon	0	0	1	1	1	0	1	8	7	19	
Rectum	14	1	1	3	17	3	1	0	6	46	
Total	14	1	2	4	18	3	2	8	13	65	

Table 54

Modality of principal treatment

Treatment	Histology										Total
	sq	as	ud	OEM	cd	MM	LMS	NHL	OTH		
None	0	0	0	0	0	0	0	0	0	0	0
Surgery	12	0	2	5	18	3	2	8	12	62	
Chemotherapy(CT)	0	0	0	0	0	0	0	0	0	0	
Radiation(RT)	1	1	0	0	0	0	0	0	0	2	
RT+CT	1	0	0	0	0	0	0	0	0	1	
Total	14	1	2	5	18	3	2	8	12	65	

Table 55

DI

DI	Histology										Total
	sq	as	ud	OEM	cd	MM	LMS	NHL	OTH		
m	0	0	0	0	1	0	0	0	6	7	
sm	0	0	0	2	8	1	0	0	3	14	
mp	2	0	0	0	1	1	1	1	0	6	
ss/a1	2	0	1	0	0	0	0	2	1	6	
se/a2	2	0	1	1	1	1	0	2	1	9	
si/ai	4	0	0	1	1	0	0	2	1	9	
x	4	1	0	1	6	0	1	1	0	14	
Total	14	1	2	5	18	3	2	8	12	65	

Table 56

Lymph node metastasis, histological

Lymph node	Histology										Total
	sq	as	ud	OEM	cd	MM	LMS	NHL	OTH		
n0	8	0	1	0	6	0	1	3	9	28	
n1	1	0	0	2	0	0	0	0	0	3	
n2	2	0	1	0	2	3	0	2	0	10	
n3	0	0	0	0	1	0	0	0	1	2	
n4	1	0	0	0	0	0	0	1	0	2	
nX	2	1	0	3	9	0	1	2	2	20	
Total	14	1	2	5	18	3	2	8	12	65	

Table 57

Tumor size (mm)

Size (mm)	Histology										Total
	sq	as	ud	OEM	cd	MM	LMS	NHL	OTH		
<=20	1	0	1	2	11	1	0	0	6	22	
21-40	3	0	1	1	2	1	1	0	0	9	
41-60	4	0	0	1	1	0	0	1	2	9	
61-80	1	0	0	0	0	0	0	2	0	3	
>80	1	0	0	0	0	0	0	2	0	3	
X	4	1	0	1	4	1	1	3	4	19	
Total	14	1	2	5	18	3	2	8	12	65	

Table 58

Curability of surgical resection, histological

Curability	Histology										Total
	sq	as	ud	OEM	cd	MM	LMS	NHL	OTH		
cur A	5	0	1	3	11	1	2	5	10	38	
cur B	2	0	0	0	0	0	0	0	1	3	
cur C	1	0	1	1	2	1	0	1	0	7	
Not resected	3	0	0	0	0	0	0	0	1	4	
X	3	1	0	1	5	1	0	2	0	13	
Total	14	1	2	5	18	3	2	8	12	65	

Table 59

Histological typing, by site

Site	Histology		Total
	cd	OTH	
A	0	1	1
T	0	1	1
D	0	0	0
S	0	2	2
Rs	0	1	1
Ra	0	2	2
Rb	5	1	6
P	0	0	0
Colon	0	4	4
Rectum	5	4	9
NOS	1	0	1
Total	6	8	14

Table 60

Endoscopic excision

Excision	Histology		Total
	cd	OTH	
Complete	4	1	5
Undecidable	2	2	4
X	0	5	5
Total	6	8	14

Table 61

DI

DI	Histology		Total
	cd	OTH	
m	0	0	0
sm	2	3	5
X	4	5	9
Total	6	8	14

Table 62

Cut end of the specimen, mucosal and submucosal

m	DI			Total	
	X		sm-ce		
	-	+			
m-ce					
-	1	3	0	0	
+	3	0	0	1	
X	1	0	1	4	
Total	5	3	1	14	

Table 63

Curability of endoscopic excision

Curability	Histology		Total
	cd	OTH	
cur A	2	5	7
cur B	0	0	0
cur C	0	0	0
X	4	3	7
Total	6	8	14

Selected data for survival analysis

Table 64

Number of excluded cases for survival analysis

Cases with the unknown current status	239
Missing for date of last contact for reportedly living cases	180
Missing for date of death for reportedly mortal cases	7
Reportedly living cases with cause of death	5
Cases with no surgical nor endoscopic treatment	2
Surgically treated cases not given day for the surgery	6
Endoscopically treated cases not given day for the endoscopic treatment	1
Cases with 0 day for survival	5
Cases with date of the last contact before surgery or with date of death before surgery	3
Cases younger than 15	1
Total	449

*Exclusion criteria were applied to in a sequence as shown in the table.

Table 65

Death within 30 days after surgery

Surgical curability	Death within 30 days	No.of surgeries	Percent
curA	53	3,107	1.7%
curB	7	284	2.5%
curC	24	518	4.6%
Unresect	6	32	18.8%
Unknown	0	19	0.0%
Missing	6	235	2.6%
Total	96	4,195	2.3%

Table 66-1
Age incidence

Male

Site	<20	<30	<40	<50	<60	<70	<80	>=80	Total
V	0	0	0	0	3	1	3	0	7
C	0	0	5	10	28	39	53	16	151
A	0	0	3	11	52	116	93	35	310
T	0	1	1	11	38	64	59	20	194
D	0	0	4	10	28	35	37	11	125
S	0	1	8	31	155	268	159	47	669
Rs	0	0	5	25	69	148	62	14	323
Ra	0	2	2	30	68	114	59	8	283
Rb	1	4	17	33	124	150	94	21	444
P	0	0	3	4	6	10	6	1	30
Rx	0	0	0	1	5	5	2	0	13
Total	1	8	48	166	576	950	627	173	2,549

Table 66-2

Female

Site	<20	<30	<40	<50	<60	<70	<80	>=80	Total
V	0	0	0	1	4	3	4	0	12
C	0	0	0	10	28	47	45	19	149
A	0	0	3	11	45	88	111	32	290
T	0	3	7	10	23	43	54	21	161
D	0	0	4	4	18	32	10	6	74
S	0	1	8	48	120	129	107	36	449
Rs	0	1	2	19	46	62	55	15	200
Ra	0	0	2	12	39	63	28	21	165
Rb	0	4	6	24	69	67	40	14	224
P	0	1	1	3	4	4	5	1	19
Rx	0	0	0	2	0	2	2	1	7
Total	0	10	33	144	396	540	461	166	1,750

Sex is missing for 4 cases

I) Adenocarcinoma, All cases

Table 67

Modality of treatment

Site	Surgery only	Endoscopy only	Endoscopy followed by surgery	Total
V	18	1	0	19
C	290	5	5	300
A	593	4	3	600
T	334	10	11	355
D	185	7	7	199
S	1,023	50	45	1,118
Rs	505	5	13	523
Ra	429	10	9	448
Rb	646	12	10	668
P	48	0	1	49
Rx	19	0	1	20
Total	4,090	104	105	4,299

Table 68

Surgical curability (histologically determined) for surgical cases*

Site	curA	curB	curC	Unresect	Unknown	Missing	Total
V	12	2	4	0	0	0	18
C	216	22	33	1	0	23	295
A	427	53	82	7	0	27	596
T	253	19	53	3	1	16	345
D	142	9	24	2	0	15	192
S	808	66	128	4	1	61	1,068
Rs	388	27	64	3	4	32	518
Ra	333	25	51	3	7	19	438
Rb	485	57	69	9	5	31	656
P	35	4	7	0	1	2	49
Rx	8	0	3	0	0	9	20
Total	3,107	284	518	32	19	235	4,195

*Surgical cases=Case treated by surgery alone or by endoscopy followed by surgery

Table 69

Liver metastasis for surgical cases

Site	H0	H1	H2	H3	Hx	Missing	Total
V	17	0	1	0	0	0	18
C	253	12	6	19	5	0	295
A	511	24	13	42	6	0	596
T	298	11	7	26	3	0	345
D	172	4	2	10	3	1	192
S	917	42	27	66	16	0	1,068
Rs	442	19	8	45	4	0	518
Ra	382	16	16	20	3	1	438
Rb	591	22	11	23	9	0	656
P	45	0	0	3	1	0	49
Rx	15	0	0	2	3	0	20
Total	3,643	150	91	256	53	2	4,195

Table 70

Peritoneal metastasis for surgical cases

Site	P0	P1	P2	P3	Hx	Missing	Total
V	14	1	1	2	0	0	18
C	269	9	6	11	0	0	295
A	551	14	9	20	2	0	596
T	325	4	5	7	4	0	345
D	174	5	6	5	1	1	192
S	1,009	16	10	16	17	0	1,068
Rs	493	13	2	8	2	0	518
Ra	406	18	4	2	8	0	438
Rb	621	13	2	6	14	0	656
P	47	1	0	0	1	0	49
Rx	15	0	0	0	3	2	20
Total	3,924	94	45	77	52	3	4,195

Table 71

Lung metastasis for surgical cases

Site	LM0	LM1	LM2	LM3	LMx	Missing	Total
V	17	0	0	0	0	1	18
C	269	2	1	2	3	18	295
A	557	8	0	7	2	22	596
T	321	3	1	7	2	11	345
D	178	2	2	2	1	7	192
S	988	18	2	6	4	50	1,068
Rs	483	6	3	4	2	20	518
Ra	413	4	5	5	1	10	438
Rb	615	12	2	7	4	16	656
P	47	1	0	0	0	1	49
Rx	16	0	0	0	1	3	20
Total	3,904	56	16	40	20	159	4,195

Table 72

Distant metasutasis for surgical cases

Site	M(-)	M(+)	Mx	Missing	Total
V	17	0	1	0	18
C	268	9	18	0	295
A	553	9	33	1	596
T	322	8	15	0	345
D	182	2	7	1	192
S	978	20	69	1	1,068
Rs	486	6	26	0	518
Ra	408	7	22	1	438
Rb	613	12	30	1	656
P	46	0	3	0	49
Rx	16	1	2	1	20
Total	3,889	74	226	6	4,195

Table 73

Macroscopic lymph node metastasis and depth of invasion

Colon cancer for surgical cases

	M	SM	MP	SS/A1	SE/A2	Si/Ai	Unknown	Missing	Total
N0	122	304	182	332	181	47	13	14	1,195
N1	1	12	31	273	286	83	1	9	696
N2	0	4	8	114	171	84	2	5	388
N3	0	0	1	16	42	18	1	0	78
N4	0	0	0	12	40	25	1	0	78
Nx	0	2	0	6	13	7	10	0	38
Missing	0	3	1	8	8	0	0	21	41
Total	123	325	223	761	741	264	28	49	2,514

Two cases with an inappropriate code for depth of invasion were included.

Table 74

Rectal cancer for surgical cases

	M	SM	MP	SS/A1	SE/A2	Si/Ai	Unknown	Missing	Total
N0	46	169	172	225	147	34	3	12	808
N1	1	6	36	162	221	38	2	2	468
N2	0	2	11	65	80	42	2	2	204
N3	0	1	3	13	31	17	0	0	65
N4	0	0	0	5	27	15	2	0	49
Nx	11	6	2	3	5	5	8	5	45
Missing	0	0	0	8	8	3	1	22	42
Total	58	184	224	481	519	154	18	43	1,681

One case with an inappropriate code for depth of invasion was included.

Table 75

Microscopic lymph node metastasis and depth of invasion

Colon cancer for surgical cases

	m	sm	mp	ss/a1	se/a2	si/ai	Unknown	Missing	Total
n0	156	291	201	612	162	52	1	9	1,484
n1	1	16	37	310	166	35	0	6	571
n2	1	8	7	135	93	26	0	2	272
n3	0	0	1	23	26	2	0	0	52
n4	0	0	0	14	24	10	0	0	48
nx	3	2	0	3	8	5	2	8	31
Missing	0	5	3	20	10	9	0	9	56
Total	161	322	249	1117	489	139	3	34	2,514

Table 76

Rectal cancer for surgical cases

	m	sm	mp	ss/a1	se/a2	si/ai	Unknown	Missing	Total
n0	66	152	198	283	141	28	0	6	874
n1	0	16	45	174	132	16	0	3	386
n2	0	5	11	78	84	14	0	0	192
n3	1	2	6	14	33	6	0	0	62
n4	0	0	0	13	19	6	0	1	39
nx	14	8	3	5	4	2	3	18	57
Missing	5	9	7	14	23	2	1	10	71
Total	86	192	270	581	436	74	4	38	1,681

One case with an inappropriate code for depth of invasion was included.

Survival analysis

Table 77-1

Sex

Colon cancer, surgical cases

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	2514	266	128	89.1%	0.6%	87.9% 90.4%
1-2	2120	162	85	82.2%	0.8%	80.7% 83.7%
2-3	1873	102	87	77.6%	0.9%	75.9% 79.3%
3-4	1684	80	86	73.8%	0.9%	72.0% 75.6%
4-5	1518	47	119	71.4%	0.9%	69.6% 73.3%
5-	1471	102	1369			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1403	139	70	89.8%	0.8%	88.2% 91.4%
1-2	1194	102	49	82.0%	1.1%	79.9% 84.1%
2-3	1043	59	51	77.2%	1.2%	75.0% 79.5%
3-4	933	54	43	72.7%	1.2%	70.2% 75.1%
4-5	836	30	61	70.0%	1.3%	67.4% 72.5%
5-	806	65	741			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1111	127	58	88.3%	1.0%	86.3% 90.2%
1-2	926	60	36	82.4%	1.2%	80.1% 84.7%
2-3	830	43	36	78.1%	1.3%	75.6% 80.6%
3-4	751	26	43	75.3%	1.3%	72.6% 77.9%
4-5	682	17	58	73.3%	1.4%	70.6% 76.1%
5-	665	37	628			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 77-2
 Sex
 Colon cancer, treated by endoscopy alone

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	77	0	15	100.0%	.	.
1-2	62	0	4	100.0%	.	.
2-3	58	0	10	100.0%	.	.
3-4	48	0	6	100.0%	.	.
4-5	42	1	2	97.6%	2.4%	92.8% 102.3%
5-	41	1	40			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	53	0	10	100.0%	.	.
1-2	43	0	3	100.0%	.	.
2-3	40	0	7	100.0%	.	.
3-4	33	0	3	100.0%	.	.
4-5	30	0	2	100.0%	.	.
5-	30	1	29			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	24	0	5	100.0%	.	.
1-2	19	0	1	100.0%	.	.
2-3	18	0	3	100.0%	.	.
3-4	15	0	3	100.0%	.	.
4-5	12	1	0	91.7%	8.0%	76.0% 107.3%
5-	11	0	11			

Table 78-1

Sex

Rectal cancer, surgical cases

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1681	149	88	90.9%	0.7%	89.5% 92.3%
1-2	1444	132	45	82.5%	1.0%	80.6% 84.3%
2-3	1267	100	47	75.8%	1.1%	73.7% 77.9%
3-4	1120	59	51	71.7%	1.1%	69.5% 74.0%
4-5	1010	39	54	68.9%	1.2%	66.6% 71.2%
5-	917	67	850			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1075	103	56	90.2%	0.9%	88.4% 92.0%
1-2	916	91	23	81.1%	1.2%	78.7% 83.5%
2-3	802	58	33	75.1%	1.4%	72.4% 77.8%
3-4	711	45	29	70.3%	1.5%	67.4% 73.1%
4-5	637	23	41	67.6%	1.5%	64.7% 70.6%
5-	573	44	529			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	606	46	32	92.2%	1.1%	90.0% 94.4%
1-2	528	41	22	84.9%	1.5%	82.0% 87.8%
2-3	465	42	14	77.1%	1.8%	73.6% 80.6%
3-4	409	14	22	74.4%	1.9%	70.8% 78.0%
4-5	373	16	13	71.1%	1.9%	67.3% 75.0%
5-	344	23	321			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 78-2
 Sex
 Rectal cancer, treated by endoscopy alone

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	27	0	5	100.0%	.	.
1-2	22	0	4	100.0%	.	.
2-3	18	0	4	100.0%	.	.
3-4	14	0	2	100.0%	.	.
4-5	12	0	2	100.0%	.	.
5-	10	0	10			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	18	0	1	100.0%	.	.
1-2	17	0	3	100.0%	.	.
2-3	14	0	2	100.0%	.	.
3-4	12	0	2	100.0%	.	.
4-5	10	0	1	100.0%	.	.
5-	9	0	9			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	9	0	4	100.0%	.	.
1-2	5	0	1	100.0%	.	.
2-3	4	0	2	100.0%	.	.
3-4	2	0	0	100.0%	.	.
4-5	2	0	1	100.0%	.	.
5-	1	0	1			

Table 79-1
 Clinical stage
 Colon cancer, surgical cases

Clinical stage 0

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	121	2	10	98.3%	1.2%	95.9% 100.6%
1-2	109	0	8	98.3%	1.2%	95.9% 100.6%
2-3	101	0	7	98.3%	1.2%	95.9% 100.6%
3-4	94	0	5	98.3%	1.2%	95.9% 100.6%
4-5	89	0	6	98.3%	1.2%	95.9% 100.6%
5-	83	2	81			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	69	1	3	98.5%	1.5%	95.6% 101.4%
1-2	65	0	6	98.5%	1.5%	95.6% 101.4%
2-3	59	0	4	98.5%	1.5%	95.6% 101.4%
3-4	55	0	1	98.5%	1.5%	95.6% 101.4%
4-5	54	0	4	98.5%	1.5%	95.6% 101.4%
5-	50	1	49			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	52	1	7	97.9%	2.0%	93.9% 101.9%
1-2	44	0	2	97.9%	2.0%	93.9% 101.9%
2-3	42	0	3	97.9%	2.0%	93.9% 101.9%
3-4	39	0	4	97.9%	2.0%	93.9% 101.9%
4-5	35	0	2	97.9%	2.0%	93.9% 101.9%
5-	33	1	32			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 79-2

Clinical stage I

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	479	6	15	98.7%	0.5%	97.7% 99.7%
1-2	458	4	13	97.9%	0.7%	96.5% 99.2%
2-3	441	6	21	96.5%	0.9%	94.8% 98.2%
3-4	414	5	24	95.3%	1.0%	93.3% 97.3%
4-5	385	5	29	94.0%	1.1%	91.8% 96.2%
5-	351	18	333			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	293	5	14	98.3%	0.8%	96.7% 99.8%
1-2	274	3	10	97.2%	1.0%	95.2% 99.1%
2-3	261	3	14	96.0%	1.2%	93.7% 98.3%
3-4	244	5	15	94.0%	1.5%	91.1% 96.8%
4-5	224	1	15	93.5%	1.5%	90.6% 96.5%
5-	208	15	193			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	186	1	1	99.5%	0.5%	98.4% 100.5%
1-2	184	1	3	98.9%	0.8%	97.4% 100.4%
2-3	180	3	7	97.2%	1.2%	94.8% 99.6%
3-4	170	0	9	97.2%	1.2%	94.8% 99.6%
4-5	161	4	14	94.7%	1.7%	91.3% 98.1%
5-	143	3	140			

Table 79-3
Clinical stage
Colon cancer, surgical cases

Clinical stage II

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	462	18	12	96.1%	0.9%	94.3% 97.8%
1-2	432	18	13	92.0%	1.3%	89.5% 94.5%
2-3	401	16	16	88.2%	1.5%	85.2% 91.2%
3-4	369	19	16	83.6%	1.8%	80.1% 87.1%
4-5	334	9	27	81.3%	1.9%	77.5% 85.0%
5-	298	19	279			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	250	9	6	96.4%	1.2%	94.0% 98.7%
1-2	235	12	5	91.4%	1.8%	87.9% 94.9%
2-3	218	13	11	85.8%	2.3%	81.4% 90.2%
3-4	194	12	8	80.4%	2.6%	75.3% 85.5%
4-5	174	8	14	76.5%	2.8%	71.0% 82.0%
5-	152	10	142			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	212	9	6	95.7%	1.4%	92.9% 98.4%
1-2	197	6	8	92.7%	1.8%	89.2% 96.3%
2-3	183	3	5	91.2%	2.0%	87.3% 95.1%
3-4	175	7	8	87.4%	2.4%	82.8% 92.1%
4-5	160	1	13	86.9%	2.4%	82.2% 91.6%
5-	146	9	137			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 79-4

Clinical stage IIIa

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	591	23	36	96.0%	0.8%	94.4% 97.6%
1-2	532	28	29	90.8%	1.2%	88.4% 93.2%
2-3	475	22	17	86.5%	1.5%	83.6% 89.4%
3-4	436	22	25	82.0%	1.7%	78.7% 85.3%
4-5	389	13	33	79.2%	1.8%	75.6% 82.7%
5-	343	29	314			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	329	15	18	95.3%	1.2%	93.0% 97.6%
1-2	296	15	17	90.3%	1.7%	87.1% 93.6%
2-3	264	9	10	87.2%	1.9%	83.4% 91.0%
3-4	245	16	11	81.4%	2.3%	76.9% 85.8%
4-5	218	10	17	77.5%	2.5%	72.6% 82.3%
5-	191	19	172			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	262	8	18	96.8%	1.1%	94.7% 99.0%
1-2	236	13	12	91.4%	1.8%	87.8% 94.9%
2-3	211	13	7	85.6%	2.3%	81.2% 90.1%
3-4	191	6	14	82.8%	2.5%	78.0% 87.7%
4-5	171	3	16	81.3%	2.6%	76.3% 86.4%
5-	152	10	142			

Table 79-5
 Clinical stage
 Colon cancer, surgical cases

Clinical stage IIIb

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	325	20	24	93.6%	1.4%	90.9% 96.3%
1-2	281	26	10	84.8%	2.1%	80.7% 88.8%
2-3	245	16	11	79.1%	2.4%	74.5% 83.8%
3-4	218	17	9	72.8%	2.6%	67.7% 78.0%
4-5	192	6	17	70.4%	2.7%	65.1% 75.8%
5-	169	18	151			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	166	10	9	93.8%	1.9%	90.1% 97.5%
1-2	147	16	5	83.4%	3.0%	77.6% 89.2%
2-3	126	10	5	76.7%	3.4%	70.0% 83.4%
3-4	111	10	5	69.6%	3.8%	62.2% 77.0%
4-5	96	4	5	66.6%	3.9%	59.0% 74.2%
5-	87	11	76			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	159	10	15	93.4%	2.0%	89.4% 97.4%
1-2	134	10	5	86.3%	2.9%	80.7% 91.9%
2-3	119	6	6	81.8%	3.2%	75.5% 88.2%
3-4	107	7	4	76.4%	3.6%	69.3% 83.5%
4-5	96	2	12	74.7%	3.7%	67.4% 82.0%
5-	82	7	75			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 79-6

Clinical stage IV

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	431	183	21	56.5%	2.4%	51.7%
1-2	227	81	7	36.0%	2.4%	31.3%
2-3	139	37	10	26.1%	2.2%	21.7%
3-4	92	14	4	22.0%	2.1%	17.9%
4-5	74	11	2	18.7%	2.0%	14.7%
5-	61	12	49			22.7%

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	239	91	12	60.9%	3.2%	54.7%
1-2	136	52	3	37.4%	3.2%	31.1%
2-3	81	22	7	26.8%	3.0%	20.9%
3-4	52	10	2	21.5%	2.8%	16.0%
4-5	40	5	2	18.8%	2.7%	13.4%
5-	33	6	27			24.1%

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	192	92	9	50.9%	3.7%	43.8%
1-2	91	29	4	34.3%	3.5%	27.4%
2-3	58	15	3	25.2%	3.3%	18.8%
3-4	40	4	2	22.6%	3.2%	16.4%
4-5	34	6	0	18.6%	3.0%	12.7%
5-	28	6	22			24.6%

Table 80-1
 Clinical stage
 Rectal cancer, surgical cases

Clinical stage 0

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	44	1	5	97.6%	2.4%	92.9% 102.3%
1-2	38	0	2	97.6%	2.4%	92.9% 102.3%
2-3	36	2	1	92.1%	4.4%	83.5% 100.7%
3-4	33	0	1	92.1%	4.4%	83.5% 100.7%
4-5	32	0	1	92.1%	4.4%	83.5% 100.7%
5-	31	2	29			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	24	0	3	100.0%	.	.
1-2	21	0	0	100.0%	.	.
2-3	21	0	1	100.0%	.	.
3-4	20	0	0	100.0%	.	.
4-5	20	0	1	100.0%	.	.
5-	19	1	18			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	20	1	2	94.7%	5.1%	84.7% 104.8%
1-2	17	0	2	94.7%	5.1%	84.7% 104.8%
2-3	15	2	0	82.1%	9.4%	63.6% 100.6%
3-4	13	0	1	82.1%	9.4%	63.6% 100.6%
4-5	12	0	0	82.1%	9.4%	63.6% 100.6%
5-	12	1	11			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 80-2

Clinical stage I

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	336	3	11	99.1%	0.5%	98.1% 100.1%
1-2	322	4	9	97.8%	0.8%	96.3% 99.4%
2-3	309	4	11	96.6%	1.0%	94.6% 98.6%
3-4	294	6	18	94.5%	1.3%	92.0% 97.1%
4-5	270	4	13	93.1%	1.5%	90.2% 95.9%
5-	253	12	241			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	219	2	5	99.1%	0.7%	97.8% 100.4%
1-2	212	4	7	97.2%	1.1%	94.9% 99.4%
2-3	201	2	6	96.2%	1.3%	93.6% 98.8%
3-4	193	6	13	93.1%	1.8%	89.6% 96.6%
4-5	174	3	11	91.4%	2.0%	87.5% 95.3%
5-	160	7	153			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	117	1	6	99.1%	0.9%	97.4% 100.8%
1-2	110	0	2	99.1%	0.9%	97.4% 100.8%
2-3	108	2	5	97.2%	1.6%	94.2% 100.3%
3-4	101	0	5	97.2%	1.6%	94.2% 100.3%
4-5	96	1	2	96.2%	1.9%	92.6% 99.9%
5-	93	5	88			

Table 80-3
 Clinical stage
 Rectal cancer, surgical cases

Clinical stage II

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	348	10	17	97.1%	0.9%	95.3%
1-2	321	15	9	92.5%	1.5%	89.6%
2-3	297	15	11	87.7%	1.8%	84.1%
3-4	271	11	15	84.0%	2.1%	80.0%
4-5	245	7	16	81.6%	2.2%	77.2%
5-	222	17	205			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	214	7	10	96.7%	1.2%	94.2%
1-2	197	10	2	91.7%	1.9%	87.9%
2-3	185	9	8	87.2%	2.4%	82.5%
3-4	168	8	8	82.9%	2.7%	77.7%
4-5	152	4	13	80.6%	2.8%	75.1%
5-	135	12	123			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	134	3	7	97.7%	1.3%	95.1%
1-2	124	5	7	93.6%	2.2%	89.4%
2-3	112	6	3	88.6%	2.9%	82.9%
3-4	103	3	7	85.9%	3.2%	79.7%
4-5	93	3	3	83.1%	3.5%	76.3%
5-	87	5	82			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 80-4

Clinical stage IIIa

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	414	13	26	96.8%	0.9%	95.0%
1-2	375	32	11	88.4%	1.6%	85.2%
2-3	332	26	11	81.3%	2.0%	77.4%
3-4	295	15	8	77.1%	2.2%	72.9%
4-5	272	10	14	74.2%	2.3%	69.8%
5-	248	19	229			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	256	8	20	96.7%	1.1%	94.5%
1-2	228	24	6	86.4%	2.2%	82.1%
2-3	198	13	8	80.6%	2.6%	75.5%
3-4	177	13	2	74.7%	2.9%	69.0%
4-5	162	4	7	72.8%	3.0%	67.0%
5-	151	12	139			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	158	5	6	96.8%	1.4%	94.0%
1-2	147	8	5	91.4%	2.3%	87.0%
2-3	134	13	3	82.4%	3.1%	76.3%
3-4	118	2	6	81.0%	3.2%	74.7%
4-5	110	6	7	76.4%	3.5%	69.5%
5-	97	7	90			

Table 80-5
 Clinical stage
 Rectal cancer, surgical cases

Clinical stage IIIb

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	200	17	5	91.4%	2.0%	87.5% 95.3%
1-2	178	20	6	80.9%	2.8%	75.4% 86.5%
2-3	152	22	5	69.0%	3.4%	62.5% 75.6%
3-4	125	10	5	63.4%	3.5%	56.5% 70.3%
4-5	110	7	6	59.3%	3.6%	52.1% 66.4%
5-	97	6	91			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	126	12	4	90.3%	2.7%	85.1% 95.5%
1-2	110	11	2	81.2%	3.5%	74.3% 88.1%
2-3	97	13	3	70.2%	4.2%	62.0% 78.3%
3-4	81	5	2	65.8%	4.4%	57.2% 74.3%
4-5	74	5	5	61.2%	4.5%	52.3% 70.0%
5-	64	4	60			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	74	5	1	93.2%	2.9%	87.4% 99.0%
1-2	68	9	4	80.5%	4.7%	71.3% 89.7%
2-3	55	9	2	67.1%	5.6%	56.0% 78.1%
3-4	44	5	3	59.2%	6.0%	47.5% 70.9%
4-5	36	2	1	55.8%	6.1%	43.9% 67.8%
5-	33	2	31			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 80-6

Clinical stage IV

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	242	94	12	60.2%	3.2%	53.9%
1-2	136	53	5	36.3%	3.2%	30.0%
2-3	78	26	2	24.0%	2.9%	18.4%
3-4	50	13	3	17.6%	2.6%	12.5%
4-5	34	8	0	13.5%	2.4%	8.8%
5-	26	4	22			18.1%

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	169	66	8	60.0%	3.8%	52.5%
1-2	95	36	4	36.8%	3.8%	29.3%
2-3	55	16	2	25.9%	3.5%	19.0%
3-4	37	9	3	19.3%	3.2%	13.0%
4-5	25	4	0	16.2%	3.1%	10.2%
5-	21	4	17			22.2%

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	73	28	4	60.6%	5.8%	49.2%
1-2	41	17	1	35.1%	5.8%	23.8%
2-3	23	10	0	19.9%	4.9%	10.3%
3-4	13	4	0	13.8%	4.2%	5.5%
4-5	9	4	0	7.6%	3.3%	1.2%
5-	5	0	5			14.1%

Table 81-1
 Histological stage
 Colon cancer, surgical cases

Histological stage 0

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	155	6	11	96.0%	1.6%	92.8% 99.1%
1-2	138	1	6	95.3%	1.7%	91.9% 98.7%
2-3	131	1	10	94.5%	1.9%	90.8% 98.2%
3-4	120	0	10	94.5%	1.9%	90.8% 98.2%
4-5	110	2	3	92.8%	2.2%	88.4% 97.1%
5-	105	3	102			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	83	4	4	95.1%	2.4%	90.3% 99.8%
1-2	75	1	3	93.8%	2.7%	88.5% 99.1%
2-3	71	0	6	93.8%	2.7%	88.5% 99.1%
3-4	65	0	4	93.8%	2.7%	88.5% 99.1%
4-5	61	1	1	92.2%	3.1%	86.2% 98.2%
5-	59	2	57			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	72	2	7	97.1%	2.0%	93.1% 101.1%
1-2	63	0	3	97.1%	2.0%	93.1% 101.1%
2-3	60	1	4	95.4%	2.6%	90.3% 100.5%
3-4	55	0	6	95.4%	2.6%	90.3% 100.5%
4-5	49	1	2	93.4%	3.2%	87.1% 99.7%
5-	46	1	45			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 81-2

Histological stage I

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	460	5	17	98.9%	0.5%	97.9%
1-2	438	5	21	97.7%	0.7%	96.3%
2-3	412	5	20	96.5%	0.9%	94.8%
3-4	387	4	23	95.5%	1.0%	93.5%
4-5	360	3	32	94.7%	1.1%	92.5%
5-	325	15	310			96.8%

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	274	4	13	98.5%	0.7%	97.1%
1-2	257	4	14	96.9%	1.1%	94.8%
2-3	239	3	10	95.7%	1.3%	93.2%
3-4	226	3	11	94.4%	1.5%	91.5%
4-5	212	1	19	93.9%	1.5%	90.9%
5-	192	13	179			96.9%

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	186	1	4	99.5%	0.5%	98.4%
1-2	181	1	7	98.9%	0.8%	97.4%
2-3	173	2	10	97.7%	1.1%	95.5%
3-4	161	1	12	97.1%	1.3%	94.6%
4-5	148	2	13	95.7%	1.6%	92.6%
5-	133	2	131			98.8%

Table 81-3
Histological stage
Colon cancer, surgical cases

Histological stage II

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	678	18	37	97.3%	0.6%	96.0%
1-2	623	29	17	92.7%	1.0%	90.7%
2-3	577	13	29	90.5%	1.2%	88.3%
3-4	535	24	26	86.4%	1.4%	83.7%
4-5	485	11	46	84.3%	1.5%	81.4%
5-	428	25	403			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	395	12	20	96.9%	0.9%	95.1%
1-2	363	23	12	90.6%	1.5%	87.7%
2-3	328	6	17	88.9%	1.6%	85.7%
3-4	305	18	13	83.6%	2.0%	79.7%
4-5	274	11	23	80.1%	2.1%	75.9%
5-	240	16	224			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	283	6	17	97.8%	0.9%	96.1%
1-2	260	6	5	95.5%	1.3%	93.1%
2-3	249	7	12	92.8%	1.6%	89.7%
3-4	230	6	13	90.3%	1.8%	86.7%
4-5	211	0	23	90.3%	1.8%	86.7%
5-	188	9	179			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 81-4

Histological stage IIIa

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	447	17	25	96.1%	0.9%	94.3% 97.9%
1-2	405	22	20	90.7%	1.4%	88.0% 93.5%
2-3	363	20	14	85.6%	1.7%	82.2% 89.0%
3-4	329	22	17	79.8%	2.0%	75.8% 83.7%
4-5	290	13	23	76.0%	2.2%	71.8% 80.3%
5-	254	23	231			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	228	9	13	95.9%	1.3%	93.3% 98.5%
1-2	206	10	11	91.2%	1.9%	87.3% 95.0%
2-3	185	11	7	85.6%	2.4%	80.9% 90.4%
3-4	167	13	10	78.8%	2.9%	73.1% 84.4%
4-5	144	8	11	74.2%	3.1%	68.1% 80.4%
5-	125	14	111			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	219	8	12	96.2%	1.3%	93.7% 98.8%
1-2	199	12	9	90.3%	2.1%	86.3% 94.3%
2-3	178	9	7	85.6%	2.5%	80.8% 90.5%
3-4	162	9	7	80.8%	2.8%	75.3% 86.3%
4-5	146	5	12	77.9%	3.0%	72.0% 83.8%
5-	129	9	120			

Table 81-5
Histological stage
Colon cancer, surgical cases

Histological stage IIIb

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	178	22	12	87.2%	2.5%	82.2%
1-2	144	16	5	77.3%	3.2%	71.0%
2-3	123	11	5	70.3%	3.6%	63.3%
3-4	107	10	4	63.6%	3.8%	56.1%
4-5	93	4	11	60.7%	3.9%	53.0%
5-	78	14	64			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	84	8	5	90.2%	3.3%	83.7%
1-2	71	8	2	79.9%	4.5%	71.1%
2-3	61	7	4	70.4%	5.2%	60.2%
3-4	50	7	2	60.3%	5.7%	49.2%
4-5	41	2	3	57.3%	5.8%	45.9%
5-	36	6	30			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	94	14	7	84.5%	3.8%	77.1%
1-2	73	8	3	75.1%	4.6%	66.0%
2-3	62	4	1	70.2%	4.9%	60.5%
3-4	57	3	2	66.4%	5.1%	56.4%
4-5	52	2	8	63.7%	5.3%	53.3%
5-	42	8	34			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 81-6

Histological stage IV

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	455	186	22	58.1%	2.3%	53.5%
1-2	247	85	11	37.7%	2.3%	33.1%
2-3	151	41	9	27.1%	2.2%	22.8%
3-4	101	18	5	22.2%	2.1%	18.1%
4-5	78	12	2	18.7%	2.0%	14.8%
5-	64	13	51			22.6%

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	255	94	12	62.2%	3.1%	56.2%
1-2	149	53	4	39.8%	3.2%	33.6%
2-3	92	25	7	28.6%	3.0%	22.8%
3-4	60	12	2	22.8%	2.8%	17.3%
4-5	46	5	2	20.2%	2.7%	14.9%
5-	39	8	31			25.5%

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	200	92	10	52.8%	3.6%	45.8%
1-2	98	32	7	34.9%	3.5%	28.1%
2-3	59	16	2	25.3%	3.3%	18.9%
3-4	41	6	3	21.5%	3.1%	15.3%
4-5	32	7	0	16.8%	2.9%	11.1%
5-	25	5	20			22.4%

Table 82-1
 Histological stage
 Rectal cancer, surgical cases

Histological stage 0

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	79	4	6	94.7%	2.6%	89.7% 99.8%
1-2	69	0	4	94.7%	2.6%	89.7% 99.8%
2-3	65	3	6	90.2%	3.6%	83.2% 97.1%
3-4	56	1	3	88.5%	3.9%	80.9% 96.0%
4-5	52	0	2	88.5%	3.9%	80.9% 96.0%
5-	50	0	50			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	53	3	3	94.2%	3.3%	87.8% 100.6%
1-2	47	0	2	94.2%	3.3%	87.8% 100.6%
2-3	45	1	4	92.0%	3.9%	84.4% 99.5%
3-4	40	1	3	89.6%	4.4%	80.9% 98.3%
4-5	36	0	2	89.6%	4.4%	80.9% 98.3%
5-	34	0	34			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	26	1	3	95.9%	4.0%	88.1% 103.8%
1-2	22	0	2	95.9%	4.0%	88.1% 103.8%
2-3	20	2	2	85.8%	7.6%	70.8% 100.8%
3-4	16	0	0	85.8%	7.6%	70.8% 100.8%
4-5	16	0	0	85.8%	7.6%	70.8% 100.8%
5-	16	0	16			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 82-2

Histological stage I

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	349	4	14	98.8%	0.6%	97.7% 100.0%
1-2	331	4	10	97.6%	0.8%	96.0% 99.2%
2-3	317	4	9	96.4%	1.0%	94.3% 98.4%
3-4	304	3	16	95.4%	1.2%	93.1% 97.7%
4-5	285	6	14	93.3%	1.4%	90.6% 96.1%
5-	265	15	250			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	224	3	7	98.6%	0.8%	97.1% 100.2%
1-2	214	4	7	96.8%	1.2%	94.4% 99.1%
2-3	203	2	5	95.8%	1.4%	93.1% 98.5%
3-4	196	3	10	94.3%	1.6%	91.2% 97.4%
4-5	183	4	13	92.2%	1.9%	88.5% 95.9%
5-	166	11	155			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	125	1	7	99.2%	0.8%	97.6% 100.8%
1-2	117	0	3	99.2%	0.8%	97.6% 100.8%
2-3	114	2	4	97.4%	1.5%	94.5% 100.3%
3-4	108	0	6	97.4%	1.5%	94.5% 100.3%
4-5	102	2	1	95.5%	2.0%	91.6% 99.4%
5-	99	4	95			

Table 82-3
 Histological stage
 Rectal cancer, surgical cases

Histological stage II

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	397	15	23	96.1%	1.0%	94.2% 98.0%
1-2	359	13	10	92.6%	1.4%	89.9% 95.2%
2-3	336	19	11	87.3%	1.7%	83.8% 90.7%
3-4	306	13	17	83.4%	2.0%	79.6% 87.3%
4-5	276	4	19	82.2%	2.0%	78.2% 86.2%
5-	253	14	239			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	253	11	17	95.5%	1.3%	92.9% 98.1%
1-2	225	12	2	90.4%	1.9%	86.6% 94.1%
2-3	211	13	9	84.7%	2.4%	80.1% 89.3%
3-4	189	11	9	79.6%	2.7%	74.4% 84.9%
4-5	169	2	13	78.7%	2.7%	73.3% 84.0%
5-	154	8	146			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	144	4	6	97.2%	1.4%	94.4% 99.9%
1-2	134	1	8	96.4%	1.6%	93.3% 99.5%
2-3	125	6	2	91.8%	2.4%	87.1% 96.4%
3-4	117	2	8	90.1%	2.6%	85.0% 95.2%
4-5	107	2	6	88.4%	2.8%	82.8% 93.9%
5-	99	6	93			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 82-4

Histological stage IIIa

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	321	4	13	98.7%	0.6%	97.5% 100.0%
1-2	304	24	8	90.8%	1.7%	87.6% 94.1%
2-3	272	26	12	82.0%	2.2%	77.6% 86.3%
3-4	234	18	7	75.6%	2.5%	70.6% 80.5%
4-5	209	11	10	71.5%	2.7%	66.3% 76.7%
5-	188	20	168			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	202	2	9	99.0%	0.7%	97.6% 100.4%
1-2	191	15	5	91.1%	2.1%	87.1% 95.1%
2-3	171	13	9	84.0%	2.7%	78.7% 89.3%
3-4	149	14	2	76.1%	3.2%	69.9% 82.2%
4-5	133	6	7	72.5%	3.3%	66.0% 79.0%
5-	120	12	108			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	119	2	4	98.3%	1.2%	95.9% 100.6%
1-2	113	9	3	90.4%	2.8%	84.9% 95.8%
2-3	101	13	3	78.6%	3.9%	70.9% 86.2%
3-4	85	4	5	74.7%	4.1%	66.6% 82.9%
4-5	76	5	3	69.7%	4.4%	61.1% 78.4%
5-	68	8	60			

Table 82-5
Histological stage
Rectal cancer, surgical cases

Histological stage IIIb

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	166	14	8	91.4%	2.2%	87.0%
1-2	144	20	6	78.4%	3.3%	72.0%
2-3	118	15	3	68.3%	3.8%	60.9%
3-4	100	10	4	61.3%	4.0%	53.6%
4-5	86	8	4	55.5%	4.1%	47.5%
5-	74	8	66			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	100	10	7	89.6%	3.1%	83.6%
1-2	83	13	2	75.4%	4.5%	66.7%
2-3	68	11	2	63.0%	5.1%	53.1%
3-4	55	6	1	56.1%	5.2%	45.8%
4-5	48	5	1	50.2%	5.3%	39.8%
5-	42	7	35			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	66	4	1	93.9%	3.0%	88.1%
1-2	61	7	4	82.8%	4.7%	73.5%
2-3	50	4	1	76.1%	5.4%	65.5%
3-4	45	4	3	69.1%	5.9%	57.4%
4-5	38	3	3	63.4%	6.3%	51.1%
5-	32	1	31			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 82-6

Histological stage IV

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	264	96	16	62.5%	3.0%	56.6% 68.4%
1-2	152	58	5	38.3%	3.1%	32.2% 44.3%
2-3	89	29	4	25.5%	2.8%	20.0% 31.1%
3-4	56	13	3	19.4%	2.6%	14.3% 24.5%
4-5	40	8	1	15.5%	2.4%	10.7% 20.2%
5-	31	6	25			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	179	65	10	62.6%	3.7%	55.5% 69.8%
1-2	104	40	4	38.1%	3.8%	30.7% 45.4%
2-3	60	16	3	27.7%	3.5%	20.8% 34.6%
3-4	41	9	3	21.4%	3.3%	14.9% 27.8%
4-5	29	4	1	18.4%	3.1%	12.2% 24.5%
5-	24	5	19			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	85	31	6	62.2%	5.4%	51.7% 72.7%
1-2	48	18	1	38.6%	5.5%	27.9% 49.4%
2-3	29	13	1	21.0%	4.7%	11.8% 30.2%
3-4	15	4	0	15.4%	4.2%	7.2% 23.6%
4-5	11	4	0	9.8%	3.5%	3.0% 16.6%
5-	7	1	6			

Table 83-1
Surgical curability, histologically confirmed
Colon cancer, surgical cases

Curability A (cur A)

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1858	48	96	97.3%	0.4%	96.6%
1-2	1714	69	69	93.3%	0.6%	92.2%
2-3	1576	48	72	90.4%	0.7%	89.0%
3-4	1456	56	78	86.9%	0.8%	85.2%
4-5	1322	32	110	84.7%	0.9%	82.9%
5-	1180	71	1109			86.4%

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1034	31	52	96.9%	0.5%	95.9%
1-2	951	42	43	92.5%	0.8%	90.9%
2-3	866	26	41	89.7%	1.0%	87.8%
3-4	799	41	40	85.0%	1.2%	82.7%
4-5	718	22	56	82.3%	1.3%	79.8%
5-	640	44	596			84.8%

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	824	17	44	97.9%	0.5%	96.9%
1-2	763	27	26	94.4%	0.8%	92.7%
2-3	710	22	31	91.4%	1.0%	89.4%
3-4	657	15	38	89.2%	1.1%	87.0%
4-5	604	10	54	87.7%	1.2%	85.3%
5-	540	27	513			90.1%

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 83-2

Curability B (cur B)

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	171	23	6	86.3%	2.7%	81.1% 91.5%
1-2	142	23	8	71.9%	3.5%	65.0% 78.8%
2-3	111	18	7	59.9%	3.9%	52.2% 67.5%
3-4	86	6	5	55.6%	4.0%	47.7% 63.4%
4-5	75	7	4	50.2%	4.1%	42.2% 58.3%
5-	64	11	53			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	93	6	3	93.4%	2.6%	88.4% 98.5%
1-2	84	15	3	76.5%	4.5%	67.6% 85.3%
2-3	66	10	5	64.4%	5.2%	54.3% 74.5%
3-4	51	3	2	60.5%	5.3%	50.1% 70.9%
4-5	46	3	2	56.5%	5.4%	45.8% 67.2%
5-	41	7	34			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	78	17	3	77.8%	4.8%	68.5% 87.1%
1-2	58	8	5	66.6%	5.5%	55.8% 77.3%
2-3	45	8	2	54.5%	5.9%	42.9% 66.1%
3-4	35	3	3	49.6%	6.0%	37.8% 61.4%
4-5	29	4	2	42.5%	6.1%	30.5% 54.5%
5-	23	4	19			

Table 83-3
Surgical curability, histologically confirmed
Colon cancer, surgical cases

Curability C (cur C)

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	324	160	18	49.2%	2.8%	43.7% 54.7%
1-2	146	64	6	27.2%	2.6%	22.1% 32.2%
2-3	76	25	6	17.9%	2.3%	13.4% 22.3%
3-4	45	15	3	11.7%	2.0%	7.9% 15.6%
4-5	27	3	1	10.4%	1.9%	6.7% 14.1%
5-	23	11	12			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	178	82	9	52.7%	3.8%	45.3% 60.2%
1-2	87	41	3	27.4%	3.5%	20.7% 34.2%
2-3	43	16	5	16.6%	3.0%	10.8% 22.4%
3-4	22	8	1	10.4%	2.5%	5.4% 15.4%
4-5	13	0	0	10.4%	2.5%	5.4% 15.4%
5-	13	6	7			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	146	78	9	44.9%	4.2%	36.7% 53.1%
1-2	59	23	3	26.9%	3.8%	19.4% 34.4%
2-3	33	9	1	19.5%	3.5%	12.6% 26.3%
3-4	23	7	2	13.3%	3.1%	7.3% 19.3%
4-5	14	3	1	10.3%	2.8%	4.8% 15.8%
5-	10	5	5			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 84-1
Surgical curability, histologically confirmed
Rectal cancer, surgical cases

Curability A (cur A)

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1249	34	56	97.2%	0.5%	96.3% 98.1%
1-2	1159	53	38	92.7%	0.8%	91.2% 94.2%
2-3	1068	60	42	87.4%	1.0%	85.5% 89.3%
3-4	966	41	42	83.6%	1.1%	81.4% 85.7%
4-5	883	23	48	81.4%	1.2%	79.1% 83.6%
5-	812	50	762			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	798	24	38	96.9%	0.6%	95.7% 98.1%
1-2	736	40	20	91.6%	1.0%	89.6% 93.6%
2-3	676	35	30	86.7%	1.2%	84.3% 89.2%
3-4	611	33	23	82.0%	1.4%	79.2% 84.8%
4-5	555	15	35	79.7%	1.5%	76.7% 82.6%
5-	505	33	472			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	451	10	18	97.7%	0.7%	96.4% 99.1%
1-2	423	13	18	94.7%	1.1%	92.5% 96.8%
2-3	392	25	12	88.5%	1.6%	85.5% 91.6%
3-4	355	8	19	86.5%	1.7%	83.2% 89.8%
4-5	328	8	13	84.3%	1.8%	80.8% 87.9%
5-	307	17	290			

Table 84-2
 Surgical curability, histologically confirmed
 Rectal cancer, surgical cases

Curability B (cur B)

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	113	11	7	90.0%	2.9%	84.3% 95.6%
1-2	95	22	3	68.8%	4.5%	59.9% 77.6%
2-3	70	9	3	59.8%	4.8%	50.3% 69.2%
3-4	58	7	6	52.1%	5.0%	42.4% 61.9%
4-5	45	8	4	42.4%	5.1%	32.4% 52.5%
5-	33	2	31			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	72	9	4	87.1%	4.0%	79.3% 95.0%
1-2	59	15	1	64.8%	5.8%	53.4% 76.2%
2-3	43	7	2	54.0%	6.1%	42.0% 66.0%
3-4	34	3	4	48.9%	6.2%	36.8% 61.1%
4-5	27	2	4	45.0%	6.3%	32.7% 57.3%
5-	21	2	19			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	41	2	3	94.9%	3.5%	88.1% 101.8%
1-2	36	7	2	75.9%	7.0%	62.2% 89.7%
2-3	27	2	1	70.2%	7.6%	55.4% 85.0%
3-4	24	4	2	58.0%	8.4%	41.6% 74.4%
4-5	18	6	0	38.7%	8.5%	22.0% 55.4%
5-	12	0	12			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 84-3

Curability C (cur C)

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	194	79	12	58.0%	3.6%	50.9%
1-2	103	43	3	33.4%	3.5%	26.5%
2-3	57	27	2	17.3%	2.9%	11.7%
3-4	28	8	2	12.2%	2.5%	7.2%
4-5	18	3	1	10.1%	2.4%	5.4%
5-	14	6	8			14.7%

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	119	50	7	56.7%	4.6%	47.7%
1-2	62	26	2	32.5%	4.5%	23.8%
2-3	34	13	1	19.9%	3.9%	12.3%
3-4	20	7	1	12.8%	3.3%	6.3%
4-5	12	2	1	10.5%	3.1%	4.5%
5-	9	5	4			16.6%

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	75	29	5	60.0%	5.8%	48.7%
1-2	41	17	1	34.8%	5.7%	23.6%
2-3	23	14	1	13.2%	4.2%	5.0%
3-4	8	1	1	11.4%	4.0%	3.6%
4-5	6	1	0	9.5%	3.7%	2.2%
5-	5	1	4			16.8%

Table 85-1

Macroscopic lymph node status of N0 and depth of tumor invasion
Colon cancer, surgical cases

N0 & P0,H0,M(-)

M	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	120	2	10	98.3%	1.2%	95.9% 100.7%
	1-2	108	0	8	98.3%	1.2%	95.9% 100.7%
	2-3	100	0	7	98.3%	1.2%	95.9% 100.7%
	3-4	93	0	5	98.3%	1.2%	95.9% 100.7%
	4-5	88	0	6	98.3%	1.2%	95.9% 100.7%
	5-	82	2	80			

SM

SM	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	290	4	7	98.6%	0.7%	97.2% 100.0%
	1-2	279	1	10	98.2%	0.8%	96.7% 99.8%
	2-3	268	3	15	97.1%	1.0%	95.1% 99.1%
	3-4	250	2	13	96.3%	1.1%	94.1% 98.6%
	4-5	235	2	14	95.5%	1.3%	93.0% 98.0%
	5-	219	11	208			

MP

MP	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	172	2	8	98.8%	0.8%	97.2% 100.4%
	1-2	162	2	3	97.6%	1.2%	95.2% 99.9%
	2-3	157	2	6	96.3%	1.5%	93.4% 99.2%
	3-4	149	3	11	94.3%	1.8%	90.7% 97.9%
	4-5	135	3	15	92.1%	2.2%	87.8% 96.4%
	5-	117	6	111			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	275	7	9	97.4%	1.0%	95.5%
1-2	259	5	10	95.5%	1.3%	93.0%
2-3	244	7	11	92.7%	1.6%	89.5%
3-4	226	11	11	88.1%	2.1%	84.0%
4-5	204	5	21	85.8%	2.2%	81.4%
5-	178	10	168			

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	146	10	2	93.1%	2.1%	89.0%
1-2	134	12	2	84.7%	3.0%	78.8%
2-3	120	8	5	78.9%	3.4%	72.2%
3-4	107	7	5	73.6%	3.7%	66.3%
4-5	95	3	6	71.2%	3.9%	63.7%
5-	86	5	81			

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	40	1	4	97.4%	2.6%	92.3%
1-2	35	5	2	83.0%	6.3%	70.7%
2-3	28	0	1	83.0%	6.3%	70.7%
3-4	27	0	1	83.0%	6.3%	70.7%
4-5	26	0	3	83.0%	6.3%	70.7%
5-	23	1	22			

Table 85-2

Macroscopic lymph node status of N1 and depth of tumor invasion
Colon cancer, surgical cases

N1 & P0,H0,M(-)

M						
Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

SM						
Year	Alive	Died	Lost	SR	SE	95%CI
0-1	11	0	1	100.0%	.	.
1-2	10	0	0	100.0%	.	.
2-3	10	0	0	100.0%	.	.
3-4	10	0	0	100.0%	.	.
4-5	10	1	0	90.0%	9.5%	71.4%
5-	9	0	9			108.6%

MP						
Year	Alive	Died	Lost	SR	SE	95%CI
0-1	26	0	1	100.0%	.	.
1-2	25	2	0	92.0%	5.4%	81.4%
2-3	23	2	0	84.0%	7.3%	69.6%
3-4	21	0	3	84.0%	7.3%	69.6%
4-5	18	0	2	84.0%	7.3%	69.6%
5-	16	0	16			98.4%

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	214	5	12	97.6%	1.1%	95.5%
1-2	197	7	13	94.0%	1.7%	90.7%
2-3	177	6	7	90.8%	2.1%	86.7%
3-4	164	5	11	87.9%	2.4%	83.2%
4-5	148	2	12	86.7%	2.5%	81.8%
5-	134	10	124			

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	213	8	13	96.1%	1.3%	93.5%
1-2	192	10	10	91.0%	2.0%	87.0%
2-3	172	9	6	86.1%	2.5%	81.3%
3-4	157	14	8	78.3%	3.0%	72.3%
4-5	135	6	12	74.6%	3.2%	68.3%
5-	117	14	103			

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	55	5	4	90.6%	4.0%	82.7%
1-2	46	4	4	82.3%	5.4%	71.8%
2-3	38	3	3	75.6%	6.2%	63.5%
3-4	32	2	2	70.7%	6.7%	57.6%
4-5	28	1	4	68.0%	7.0%	54.3%
5-	23	2	21			

Table 85-3

Macroscopic lymph node status of N2 and depth of tumor invasion
Colon cancer, surgical cases

N2 & P0,H0,M(-)

M

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

SM

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	3	0	1	100.0%	.	.
1-2	2	0	0	100.0%	.	.
2-3	2	0	0	100.0%	.	.
3-4	2	0	0	100.0%	.	.
4-5	2	0	0	100.0%	.	.
5-	2	0	2			

MP

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	7	0	1	100.0%	.	.
1-2	6	0	0	100.0%	.	.
2-3	6	0	0	100.0%	.	.
3-4	6	0	0	100.0%	.	.
4-5	6	0	0	100.0%	.	.
5-	6	0	6			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	82	6	6	92.4%	3.0%	86.6% 98.2%
1-2	70	6	4	84.3%	4.2%	76.1% 92.4%
2-3	60	3	2	80.0%	4.6%	70.9% 89.1%
3-4	55	1	3	78.5%	4.8%	69.1% 87.9%
4-5	51	0	2	78.5%	4.8%	69.1% 87.9%
5-	49	2	47			

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	110	5	3	95.4%	2.0%	91.4% 99.3%
1-2	102	8	4	87.8%	3.2%	81.5% 94.0%
2-3	90	3	4	84.8%	3.5%	77.9% 91.7%
3-4	83	6	3	78.5%	4.1%	70.5% 86.5%
4-5	74	3	6	75.2%	4.3%	66.7% 83.7%
5-	65	5	60			

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	59	6	9	89.0%	4.2%	80.7% 97.3%
1-2	44	3	0	82.9%	5.2%	72.7% 93.1%
2-3	41	2	1	78.8%	5.7%	67.7% 90.0%
3-4	38	6	1	66.2%	6.7%	53.0% 79.4%
4-5	31	1	5	63.9%	6.9%	50.4% 77.4%
5-	25	8	17			

Table 85-4

Macroscopic lymph node status of N3 and depth of tumor invasion
Colon cancer, surgical cases

N3 & P0,H0,M(-)

M

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

SM

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

MP

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1	0	0	100.0%	.	.
1-2	1	0	0	100.0%	.	.
2-3	1	0	0	100.0%	.	.
3-4	1	0	0	100.0%	.	.
4-5	1	1	0	0.0%	.	.
5-	0	0	0			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	8	0	0	100.0%	.	.
1-2	8	2	0	75.0%	15.3%	45.0% 105.0%
2-3	6	0	0	75.0%	15.3%	45.0% 105.0%
3-4	6	1	1	61.4%	17.6%	26.9% 95.8%
4-5	4	0	0	61.4%	17.6%	26.9% 95.8%
5-	4	1	3			

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	24	2	3	91.1%	6.0%	79.4% 102.9%
1-2	19	4	0	71.9%	9.7%	52.8% 91.0%
2-3	15	2	4	60.9%	10.9%	39.4% 82.3%
3-4	9	1	0	54.1%	11.6%	31.3% 76.9%
4-5	8	0	2	54.1%	11.6%	31.3% 76.9%
5-	6	1	5			

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	9	0	1	100.0%	.	.
1-2	8	1	0	87.5%	11.7%	64.6% 110.4%
2-3	7	1	0	75.0%	15.3%	45.0% 105.0%
3-4	6	0	1	75.0%	15.3%	45.0% 105.0%
4-5	5	0	1	75.0%	15.3%	45.0% 105.0%
5-	4	0	4			

Table 85-5

Macroscopic lymph node status of N4 and depth of tumor invasion
Colon cancer, surgical cases

N4 & P0,H0,M(-)

M

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

SM

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

MP

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	7	3	0	57.1%	18.7%	20.5% 93.8%
1-2	4	1	0	42.9%	18.7%	6.2% 79.5%
2-3	3	1	1	25.7%	17.4%	-8.4% 59.8%
3-4	1	0	0	25.7%	17.4%	-8.4% 59.8%
4-5	1	0	0	25.7%	17.4%	-8.4% 59.8%
5-	1	1	0			

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	18	7	0	61.1%	11.5%	38.6% 83.6%
1-2	11	3	1	43.7%	11.8%	20.5% 66.8%
2-3	7	0	1	43.7%	11.8%	20.5% 66.8%
3-4	6	1	0	36.4%	11.9%	13.1% 59.7%
4-5	5	0	0	36.4%	11.9%	13.1% 59.7%
5-	5	1	4			

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	7	0	1	100.0%	.	.
1-2	6	0	0	100.0%	.	.
2-3	6	1	0	83.3%	15.2%	53.5% 113.2%
3-4	5	0	1	83.3%	15.2%	53.5% 113.2%
4-5	4	1	0	62.5%	21.3%	20.7% 104.3%
5-	3	0	3			

Table 86-1

Macroscopic lymph node status of N0 and depth of tumor invasion
Rectal cancer, surgical cases

N0 & P0,H0,M(-)

M

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	42	1	5	97.5%	2.5%	92.6% 102.4%
1-2	36	0	2	97.5%	2.5%	92.6% 102.4%
2-3	34	2	1	91.6%	4.6%	82.6% 100.7%
3-4	31	0	1	91.6%	4.6%	82.6% 100.7%
4-5	30	0	1	91.6%	4.6%	82.6% 100.7%
5-	29	2	27			

SM

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	161	1	4	99.4%	0.6%	98.1% 100.6%
1-2	156	2	4	98.1%	1.1%	95.9% 100.2%
2-3	150	2	3	96.8%	1.4%	94.0% 99.6%
3-4	145	3	7	94.7%	1.8%	91.1% 98.3%
4-5	135	3	5	92.6%	2.2%	88.3% 96.8%
5-	127	3	124			

MP

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	160	2	6	98.7%	0.9%	97.0% 100.5%
1-2	152	2	5	97.4%	1.3%	94.9% 99.9%
2-3	145	2	8	96.0%	1.6%	92.9% 99.1%
3-4	135	3	10	93.8%	2.0%	89.9% 97.7%
4-5	122	0	8	93.8%	2.0%	89.9% 97.7%
5-	114	8	106			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	210	6	12	97.1%	1.2%	94.7% 99.4%
1-2	192	9	4	92.5%	1.9%	88.8% 96.1%
2-3	179	9	7	87.7%	2.4%	83.1% 92.3%
3-4	163	6	11	84.4%	2.6%	79.2% 89.5%
4-5	146	3	7	82.6%	2.8%	77.2% 88.0%
5-	136	11	125			

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	127	4	5	96.8%	1.6%	93.7% 99.9%
1-2	118	3	5	94.3%	2.1%	90.2% 98.4%
2-3	110	5	4	89.9%	2.8%	84.5% 95.3%
3-4	101	5	4	85.4%	3.3%	78.9% 91.8%
4-5	92	3	9	82.4%	3.6%	75.4% 89.5%
5-	80	6	74			

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	23	2	1	91.1%	6.0%	79.4% 102.9%
1-2	20	3	0	77.4%	8.9%	60.0% 94.9%
2-3	17	1	1	72.8%	9.5%	54.1% 91.4%
3-4	15	1	1	67.7%	10.1%	48.0% 87.5%
4-5	13	0	1	67.7%	10.1%	48.0% 87.5%
5-	12	3	9			

Table 86-2

Macroscopic lymph node status of N1 and depth of tumor invasion
Rectal cancer, surgical cases

N1 & P0,H0,M(-)

M

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1	0	0	100.0%	.	.
1-2	1	0	0	100.0%	.	.
2-3	1	0	1	100.0%	.	.
3-4	0	0	0			
4-5	0	0	0			
5-	0	0	0			

SM

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	5	0	0	.	.	.
1-2	5	0	0	.	.	.
2-3	5	0	0	.	.	.
3-4	5	0	0	.	.	.
4-5	5	1	0	80.0%	17.9%	44.9%
5-	4	0	4			115.1%

MP

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	34	0	1	100.0%	.	.
1-2	33	3	0	90.9%	5.0%	81.1% 100.7%
2-3	30	1	1	87.8%	5.7%	76.6% 99.0%
3-4	28	1	0	84.7%	6.3%	72.3% 97.0%
4-5	27	1	1	81.5%	6.8%	68.1% 94.9%
5-	25	1	24			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	137	5	12	96.2%	1.7%	92.9% 99.5%
1-2	120	9	2	88.9%	2.8%	83.4% 94.4%
2-3	109	5	2	84.8%	3.2%	78.5% 91.1%
3-4	102	8	5	78.0%	3.8%	70.6% 85.3%
4-5	89	2	3	76.2%	3.9%	68.6% 83.8%
5-	84	6	78			

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	170	3	11	98.2%	1.0%	96.1% 100.2%
1-2	156	13	9	89.8%	2.4%	85.0% 94.5%
2-3	134	14	4	80.2%	3.2%	73.9% 86.6%
3-4	116	4	2	77.4%	3.4%	70.7% 84.1%
4-5	110	5	7	73.8%	3.6%	66.7% 80.9%
5-	98	7	91			

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	26	0	1	100.0%	.	.
1-2	25	3	0	88.0%	6.5%	75.3% 100.7%
2-3	22	4	1	71.6%	9.1%	53.8% 89.4%
3-4	17	0	0	71.6%	9.1%	53.8% 89.4%
4-5	17	1	2	67.2%	9.6%	48.4% 85.9%
5-	14	1	13			

Table 86-3

Macroscopic lymph node status of N2 and depth of tumor invasion
Rectal cancer, surgical cases

N2 & P0,H0,M(-)

M						
Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

SM						
Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1	0	0	100.0%	.	.
1-2	1	0	0	100.0%	.	.
2-3	1	0	0	100.0%	.	.
3-4	1	0	0	100.0%	.	.
4-5	1	0	0	100.0%	.	.
5-	1	0	1			

MP						
Year	Alive	Died	Lost	SR	SE	95%CI
0-1	11	1	0	90.9%	8.7%	73.9% 107.9%
1-2	10	1	1	81.3%	11.9%	58.0% 104.7%
2-3	8	1	0	71.2%	14.1%	43.5% 98.8%
3-4	7	1	0	61.0%	15.3%	31.0% 91.1%
4-5	6	0	0	61.0%	15.3%	31.0% 91.1%
5-	6	1	5			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	52	0	3	100.0%	.	.
1-2	49	1	2	97.9%	2.1%	93.9% 102.0%
2-3	46	5	2	87.0%	4.9%	77.4% 96.7%
3-4	39	2	1	82.5%	5.6%	71.5% 93.5%
4-5	36	1	3	80.1%	5.9%	68.5% 91.8%
5-	32	1	31			

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	49	3	0	93.9%	3.4%	87.2% 100.6%
1-2	46	4	2	85.5%	5.1%	75.6% 95.4%
2-3	40	6	1	72.5%	6.5%	59.8% 85.3%
3-4	33	3	0	65.9%	6.9%	52.4% 79.5%
4-5	30	1	1	63.7%	7.1%	49.9% 77.5%
5-	28	3	25			

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	29	3	1	89.5%	5.7%	78.2% 100.7%
1-2	25	5	0	71.6%	8.5%	54.9% 88.3%
2-3	20	3	2	60.3%	9.3%	42.0% 78.6%
3-4	15	0	3	60.3%	9.3%	42.0% 78.6%
4-5	12	1	2	54.8%	10.0%	35.3% 74.3%
5-	9	0	9			

Table 86-4

Macroscopic lymph node status of N3 and depth of tumor invasion
Rectal cancer, surgical cases

N3 & P0,H0,M(-)

M						
Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

SM						
Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1	0	0	100.0%	.	.
1-2	1	0	0	100.0%	.	.
2-3	1	0	0	100.0%	.	.
3-4	1	0	0	100.0%	.	.
4-5	1	0	1	100.0%	.	.
5-	0	0	0			

MP						
Year	Alive	Died	Lost	SR	SE	95%CI
0-1	3	0	0	100.0%	.	.
1-2	3	1	0	66.7%	27.2%	13.3% 120.0%
2-3	2	0	0	66.7%	27.2%	13.3% 120.0%
3-4	2	0	0	66.7%	27.2%	13.3% 120.0%
4-5	2	0	0	66.7%	27.2%	13.3% 120.0%
5-	2	0	2			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	9	2	0	77.8%	13.9%	50.6% 104.9%
1-2	7	0	1	77.8%	13.9%	50.6% 104.9%
2-3	6	2	0	51.9%	17.6%	17.4% 86.3%
3-4	4	1	1	37.0%	17.7%	2.3% 71.8%
4-5	2	1	0	18.5%	15.8%	-12.5% 49.5%
5-	1	0	1			

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	20	3	1	84.6%	8.2%	68.6% 100.6%
1-2	16	3	0	68.8%	10.6%	48.0% 89.5%
2-3	13	2	0	58.2%	11.3%	36.0% 80.3%
3-4	11	2	0	47.6%	11.5%	25.1% 70.1%
4-5	9	1	0	42.3%	11.3%	20.1% 64.5%
5-	8	0	8			

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	13	3	0	76.9%	11.7%	54.0% 99.8%
1-2	10	2	0	61.5%	13.5%	35.1% 88.0%
2-3	8	2	0	46.2%	13.8%	19.1% 73.3%
3-4	6	0	0	46.2%	13.8%	19.1% 73.3%
4-5	6	0	0	46.2%	13.8%	19.1% 73.3%
5-	6	1	5			

Table 86-5

Macroscopic lymph node status of N4 and depth of tumor invasion
Rectal cancer, surgical cases

N4 & P0,H0,M(-)

M	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	0					
	1-2						
	2-3						
	3-4						
	4-5						
	5-						

SM	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	0					
	1-2						
	2-3						
	3-4						
	4-5						
	5-						

MP	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	0					
	1-2						
	2-3						
	3-4						
	4-5						
	5-						

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

SS/A1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1	0	0	100.0%	.	.
1-2	1	1	0	0.0%	.	.
2-3	0	0	0			
3-4	0	0	0			
4-5	0	0	0			
5-	0	0	0			

SE/A2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	12	5	1	56.5%	14.6%	27.9% 85.2%
1-2	6	1	0	47.1%	14.9%	17.9% 76.3%
2-3	5	1	0	37.7%	14.6%	9.1% 66.3%
3-4	4	0	0	37.7%	14.6%	9.1% 66.3%
4-5	4	2	0	18.8%	11.9%	-4.5% 42.2%
5-	2	0	2			

Si/Ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	6	2	0	66.7%	19.2%	28.9% 104.4%
1-2	4	1	0	50.0%	20.4%	10.0% 90.0%
2-3	3	0	0	50.0%	20.4%	10.0% 90.0%
3-4	3	0	0	50.0%	20.4%	10.0% 90.0%
4-5	3	0	0	50.0%	20.4%	10.0% 90.0%
5-	3	0	3			

Table 87-1

Microscopic lymph node status of n0 and depth of tumor invasion
Colon cancer, surgical cases

n0 & P0,H0,M(-)

m	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	153	5	11	96.6%	1.5%	93.7%
	1-2	137	1	6	95.9%	1.6%	92.7%
	2-3	130	1	10	95.1%	1.8%	91.6%
	3-4	119	0	8	95.1%	1.8%	91.6%
	4-5	111	2	4	93.4%	2.1%	89.2%
	5-	105	3	102			97.6%

sm

sm	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	276	4	10	98.5%	0.7%	97.1%
	1-2	262	1	13	98.1%	0.8%	96.5%
	2-3	248	2	9	97.3%	1.0%	95.4%
	3-4	237	2	14	96.5%	1.2%	94.2%
	4-5	221	1	16	96.0%	1.2%	93.6%
	5-	204	10	194			98.5%

mp

mp	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	187	1	8	99.5%	0.5%	98.4%
	1-2	178	3	9	97.7%	1.1%	95.5%
	2-3	166	3	9	95.9%	1.5%	93.0%
	3-4	154	2	12	94.6%	1.7%	91.2%
	4-5	140	1	17	93.9%	1.9%	90.2%
	5-	122	5	117			97.6%

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	520	11	29	97.8%	0.6%	96.6% 99.1%
1-2	480	15	15	94.7%	1.0%	92.7% 96.7%
2-3	450	7	25	93.2%	1.1%	91.0% 95.4%
3-4	418	15	22	89.8%	1.4%	87.0% 92.5%
4-5	381	8	34	87.8%	1.5%	84.8% 90.8%
5-	339	18	321			

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	135	7	7	94.7%	2.0%	90.8% 98.5%
1-2	121	9	1	87.6%	2.9%	81.9% 93.3%
2-3	111	7	4	82.0%	3.4%	75.3% 88.7%
3-4	100	8	3	75.3%	3.9%	67.8% 82.9%
4-5	89	3	7	72.7%	4.0%	64.8% 80.5%
5-	79	7	72			

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	41	2	3	94.9%	3.5%	88.1% 101.8%
1-2	36	5	1	81.6%	6.3%	69.2% 93.9%
2-3	30	0	3	81.6%	6.3%	69.2% 93.9%
3-4	27	4	2	69.0%	7.9%	53.6% 84.4%
4-5	21	0	2	69.0%	7.9%	53.6% 84.4%
5-	19	1	18			

Table 87-2

Microscopic lymph node status of n1 and depth of tumor invasion
Colon cancer, surgical cases

n1 & P0,H0,M(-)

m

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1	0	0	100.0%	.	.
1-2	1	0	0	100.0%	.	.
2-3	1	0	0	100.0%	.	.
3-4	1	0	0	100.0%	.	.
4-5	1	0	0	100.0%	.	.
5-	1	1	0			

sm

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	16	0	1	100.0%	.	.
1-2	15	0	0	100.0%	.	.
2-3	15	0	0	100.0%	.	.
3-4	15	0	0	100.0%	.	.
4-5	15	0	0	100.0%	.	.
5-	15	1	14			

mp

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	31	0	1	100.0%	.	.
1-2	30	1	0	96.7%	3.3%	90.2% 103.1%
2-3	29	1	1	93.3%	4.6%	84.3% 102.3%
3-4	27	3	5	81.9%	7.4%	67.4% 96.3%
4-5	19	0	0	81.9%	7.4%	67.4% 96.3%
5-	19	1	18			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	226	5	13	97.7%	1.0%	95.7% 99.7%
1-2	208	9	12	93.4%	1.7%	90.0% 96.7%
2-3	187	14	5	86.3%	2.4%	81.6% 91.0%
3-4	168	7	5	82.6%	2.7%	77.4% 87.9%
4-5	156	5	13	79.9%	2.9%	74.3% 85.5%
5-	138	13	125			

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	101	4	5	95.9%	2.0%	92.0% 99.8%
1-2	92	9	7	86.2%	3.6%	79.2% 93.2%
2-3	76	3	4	82.7%	3.9%	75.0% 90.4%
3-4	69	7	5	74.0%	4.7%	64.8% 83.2%
4-5	57	6	4	65.9%	5.2%	55.7% 76.1%
5-	47	4	43			

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	23	4	2	81.8%	8.2%	65.7% 97.9%
1-2	17	2	2	71.6%	9.9%	52.2% 90.9%
2-3	13	1	0	66.1%	10.5%	45.4% 86.7%
3-4	12	1	0	60.6%	11.0%	39.0% 82.2%
4-5	11	1	0	55.1%	11.3%	32.9% 77.2%
5-	10	2	8			

Table 87-3

Microscopic lymph node status of n2 and depth of tumor invasion
Colon cancer, surgical cases

n2 & P0,H0,M(-)

m

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

sm

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	7	0	1	100.0%	.	.
1-2	6	0	0	100.0%	.	.
2-3	6	0	1	100.0%	.	.
3-4	5	0	0	100.0%	.	.
4-5	5	1	0	80.0%	17.9%	44.9%
5-	4	0	4			115.1%

mp

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	6	1	1	81.8%	16.4%	49.6%
1-2	4	0	0	81.8%	16.4%	49.6%
2-3	4	0	0	81.8%	16.4%	49.6%
3-4	4	0	0	81.8%	16.4%	49.6%
4-5	4	0	0	81.8%	16.4%	49.6%
5-	4	0	4			114.1%

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	86	8	3	90.5%	3.2%	84.3% 96.8%
1-2	75	9	2	79.5%	4.4%	70.8% 88.2%
2-3	64	4	4	74.4%	4.8%	64.9% 83.9%
3-4	56	3	3	70.3%	5.1%	60.3% 80.3%
4-5	50	0	6	70.3%	5.1%	60.3% 80.3%
5-	44	8	36			

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	43	7	1	83.5%	5.7%	72.4% 94.7%
1-2	35	3	2	76.2%	6.6%	63.2% 89.1%
2-3	30	5	1	63.3%	7.6%	48.4% 78.1%
3-4	24	3	0	55.3%	7.9%	39.9% 70.8%
4-5	21	1	1	52.6%	8.0%	37.0% 68.2%
5-	19	4	15			

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	10	1	0	90.0%	9.5%	71.4% 108.6%
1-2	9	1	0	80.0%	12.6%	55.2% 104.8%
2-3	8	2	0	60.0%	15.5%	29.6% 90.4%
3-4	6	0	0	60.0%	15.5%	29.6% 90.4%
4-5	6	0	2	60.0%	15.5%	29.6% 90.4%
5-	4	1	3			

Table 87-4

Microscopic lymph node status of n3 and depth of tumor invasion
Colon cancer, surgical cases

n3 & P0,H0,M(-)

m

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

sm

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

mp

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1	0	0	100.0%	.	.
1-2	1	0	0	100.0%	.	.
2-3	1	0	0	100.0%	.	.
3-4	1	0	0	100.0%	.	.
4-5	1	1	0	0.0%	.	.
5-	0	0	0			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	13	2	2	83.3%	10.8%	62.2% 104.4%
1-2	9	2	1	63.7%	14.7%	35.0% 92.4%
2-3	6	0	0	63.7%	14.7%	35.0% 92.4%
3-4	6	3	0	31.9%	14.9%	2.6% 61.1%
4-5	3	0	0	31.9%	14.9%	2.6% 61.1%
5-	3	1	2			

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	12	4	1	65.2%	14.0%	37.7% 92.7%
1-2	7	3	0	37.3%	14.6%	8.6% 65.9%
2-3	4	1	0	28.0%	13.6%	1.3% 54.6%
3-4	3	1	0	18.6%	11.8%	-4.6% 41.8%
4-5	2	0	1	18.6%	11.8%	-4.6% 41.8%
5-	1	0	1			

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1	0	1	100.0%	.	.
1-2	0	0	0			
2-3	0	0	0			
3-4	0	0	0			
4-5	0	0	0			
5-	0	0	0			

Table 87-5

Microscopic lymph node status of n4 and depth of tumor invasion
Colon cancer, surgical cases

n4 & P0,H0,M(-)

m

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

sm

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

mp

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	10	4	0	60.0%	15.5%	29.6%
1-2	6	0	2	60.0%	15.5%	29.6%
2-3	4	1	0	45.0%	17.4%	10.8%
3-4	3	1	0	30.0%	16.9%	-3.1%
4-5	2	0	0	30.0%	16.9%	-3.1%
5-	2	1	1			

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	12	5	0	58.3%	14.2%	30.4%
1-2	7	4	0	25.0%	12.5%	0.5%
2-3	3	1	0	16.7%	10.8%	-4.4%
3-4	2	0	0	16.7%	10.8%	-4.4%
4-5	2	0	0	16.7%	10.8%	-4.4%
5-	2	0	2			

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	5	0	1	100.0%	.	.
1-2	4	0	0	100.0%	0.0%	100.0%
2-3	4	1	0	75.0%	21.7%	32.6%
3-4	3	1	1	45.0%	26.6%	-7.2%
4-5	1	1	0	0.0%	.	.
5-	0	0	0			

Table 88-1

Microscopic lymph node status of n0 and depth of tumor invasion
Rectal cancer, surgical cases

n0 & P0,H0,M(-)

m	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	60	3	5	94.8%	2.9%	89.0% 100.5%
	1-2	52	0	2	94.8%	2.9%	89.0% 100.5%
	2-3	50	3	2	89.0%	4.3%	80.6% 97.3%
	3-4	45	0	2	89.0%	4.3%	80.6% 97.3%
	4-5	43	0	1	89.0%	4.3%	80.6% 97.3%
	5-	42	1	41			

sm	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	143	0	6	100.0%	.	.
	1-2	137	1	4	99.3%	0.7%	97.8% 100.7%
	2-3	132	1	4	98.5%	1.1%	96.4% 100.6%
	3-4	127	2	7	96.9%	1.5%	93.9% 99.9%
	4-5	118	1	5	96.1%	1.7%	92.7% 99.4%
	5-	112	3	109			

mp	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	189	5	5	97.3%	1.2%	95.0% 99.6%
	1-2	179	3	5	95.7%	1.5%	92.7% 98.6%
	2-3	171	2	5	94.5%	1.7%	91.2% 97.8%
	3-4	164	1	9	93.9%	1.8%	90.5% 97.4%
	4-5	154	2	9	92.7%	2.0%	88.8% 96.5%
	5-	143	9	134			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	257	7	20	97.2%	1.1%	95.1%
1-2	230	9	8	93.3%	1.6%	90.1%
2-3	213	7	6	90.2%	1.9%	86.4%
3-4	200	7	13	86.9%	2.2%	82.5%
4-5	180	1	11	86.4%	2.3%	82.0%
5-	168	10	158			90.9%

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	125	5	3	96.0%	1.8%	92.5%
1-2	117	5	1	91.8%	2.5%	87.0%
2-3	111	11	2	82.6%	3.4%	75.9%
3-4	98	5	5	78.3%	3.8%	70.9%
4-5	88	2	7	76.5%	3.9%	68.8%
5-	79	6	73			84.1%

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	21	1	1	95.1%	4.8%	85.8%
1-2	19	2	0	85.1%	7.9%	69.6%
2-3	17	1	3	79.6%	9.1%	61.7%
3-4	13	0	1	79.6%	9.1%	61.7%
4-5	12	0	1	79.6%	9.1%	61.7%
5-	11	1	10			97.5%

Table 88-2

Microscopic lymph node status of n1 and depth of tumor invasion
Rectal cancer, surgical cases

n1 & P0,H0,M(-)

m	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	0					
	1-2						
	2-3						
	3-4						
	4-5						
	5-						

sm	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	14	0	0	100.0%	.	.
	1-2	14	1	0	92.9%	6.9%	79.4% 106.3%
	2-3	13	0	0	92.9%	6.9%	79.4% 106.3%
	3-4	13	0	0	92.9%	6.9%	79.4% 106.3%
	4-5	13	1	0	85.7%	9.4%	67.4% 104.0%
	5-	12	0	12			

mp	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	41	0	1	100.0%	.	.
	1-2	40	3	0	92.5%	4.2%	84.3% 100.7%
	2-3	37	3	3	84.7%	5.8%	73.4% 96.0%
	3-4	31	0	1	84.7%	5.8%	73.4% 96.0%
	4-5	30	1	2	81.8%	6.3%	69.5% 94.0%
	5-	27	3	24			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	139	4	6	97.1%	1.4%	94.2%
1-2	129	11	3	88.7%	2.8%	83.3%
2-3	115	9	3	81.7%	3.4%	75.0%
3-4	103	9	1	74.5%	3.8%	67.0%
4-5	93	2	3	72.9%	3.9%	65.2%
5-	88	11	77			

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	91	1	7	98.9%	1.1%	96.6%
1-2	83	7	4	90.3%	3.3%	83.9%
2-3	72	11	4	76.1%	4.8%	66.7%
3-4	57	6	1	68.0%	5.3%	57.7%
4-5	50	5	2	61.1%	5.6%	50.1%
5-	43	4	39			

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	12	0	1	100.0%	.	.
1-2	11	4	0	63.6%	14.5%	35.2%
2-3	7	3	0	36.4%	14.5%	7.9%
3-4	4	0	0	36.4%	14.5%	7.9%
4-5	4	1	1	26.0%	13.6%	-0.6%
5-	2	0	2			

Table 88-3

Microscopic lymph node status of n2 and depth of tumor invasion
Rectal cancer, surgical cases

n2 & P0,H0,M(-)

m

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	0					
1-2						
2-3						
3-4						
4-5						
5-						

sm

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	4	0	0	100.0%	.	.
1-2	4	0	0	100.0%	.	.
2-3	4	0	0	100.0%	.	.
3-4	4	0	0	100.0%	.	.
4-5	4	0	0	100.0%	.	.
5-	4	0	4			

mp

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	10	0	1	100.0%	.	.
1-2	9	0	0	100.0%	.	.
2-3	9	1	0	88.9%	10.5%	68.4% 109.4%
3-4	8	1	0	77.8%	13.9%	50.6% 104.9%
4-5	7	0	1	77.8%	13.9%	50.6% 104.9%

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	54	3	5	94.2%	3.3%	87.8% 100.6%
1-2	46	3	1	88.0%	4.6%	78.9% 97.0%
2-3	42	2	2	83.7%	5.3%	73.3% 94.1%
3-4	38	5	1	72.5%	6.5%	59.7% 85.3%
4-5	32	3	1	65.6%	7.0%	51.9% 79.4%
5-	28	3	25			

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	51	3	0	94.1%	3.3%	87.7% 100.6%
1-2	48	8	1	78.3%	5.8%	66.9% 89.6%
2-3	39	8	1	62.0%	6.9%	48.5% 75.5%
3-4	30	3	0	55.8%	7.1%	42.0% 69.6%
4-5	27	3	3	49.2%	7.2%	35.2% 63.3%
5-	21	1	20			

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	4	1	0	75.0%	21.7%	32.6% 117.4%
1-2	3	2	0	25.0%	21.7%	-17.4% 67.4%
2-3	1	0	0	25.0%	21.7%	-17.4% 67.4%
3-4	1	0	0	25.0%	21.7%	-17.4% 67.4%
4-5	1	0	0	25.0%	21.7%	-17.4% 67.4%
5-	1	0	1			

Table 88-4

Microscopic lymph node status of n3 and depth of tumor invasion
Rectal cancer, surgical cases

n3 & P0,H0,M(-)

m

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1	0	1	100.0%	.	.
1-2	0	0	0			
2-3	0	0	0			
3-4	0	0	0			
4-5	0	0	0			
5-	0	0	0			

sm

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	2	0	0	100.0%	.	.
1-2	2	1	0			
2-3	1	0	0			
3-4	1	0	0			
4-5	1	0	0			
5-	1	0	1			

mp

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	5	0	0	100.0%	.	.
1-2	5	1	0	80.0%	17.9%	44.9% 115.1%
2-3	4	0	0	80.0%	17.9%	44.9% 115.1%
3-4	4	0	1	80.0%	17.9%	44.9% 115.1%
4-5	3	0	0	80.0%	17.9%	44.9% 115.1%

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	11	3	0	72.7%	13.4%	46.4% 99.0%
1-2	8	0	1	72.7%	13.4%	46.4% 99.0%
2-3	7	1	0	62.3%	15.0%	32.9% 91.7%
3-4	6	0	1	62.3%	15.0%	32.9% 91.7%
4-5	5	0	0	62.3%	15.0%	32.9% 91.7%
5-	5	0	5			

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	20	3	1	84.6%	8.2%	68.6% 100.6%
1-2	16	2	3	72.9%	10.4%	52.5% 93.3%
2-3	11	1	0	66.3%	11.4%	44.0% 88.6%
3-4	10	2	0	53.1%	12.4%	28.8% 77.3%
4-5	8	3	0	33.2%	11.9%	9.8% 56.5%
5-	5	0	5			

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	6	3	0	50.0%	20.4%	10.0% 90.0%
1-2	3	2	0	16.7%	15.2%	-13.2% 46.5%
2-3	1	1	0	0.0%	.	.
3-4	0	0	0			
4-5	0	0	0			
5-	0	0	0			

Table 88-5

Microscopic lymph node status of n4 and depth of tumor invasion
Rectal cancer, surgical cases

n4 & P0,H0,M(-)

m	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	0					
	1-2						
	2-3						
	3-4						
	4-5						
	5-						

sm

sm	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	0					
	1-2						
	2-3						
	3-4						
	4-5						
	5-						

mp

mp	Year	Alive	Died	Lost	SR	SE	95%CI
	0-1	0					
	1-2						
	2-3						
	3-4						
	4-5						
	5-						

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

ss/a1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	6	0	1	100.0%	.	.
1-2	5	1	0	80.0%	17.9%	44.9%
2-3	4	0	0	80.0%	17.9%	44.9%
3-4	4	0	0	80.0%	17.9%	44.9%
4-5	4	1	1	57.1%	23.2%	11.7%
5-	2	0	2			102.5%

se/a2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	8	3	1	60.0%	17.9%	24.9%
1-2	4	0	0	60.0%	17.9%	24.9%
2-3	4	1	0	45.0%	18.7%	8.4%
3-4	3	0	0	45.0%	18.7%	8.4%
4-5	3	1	0	30.0%	17.5%	-4.2%
5-	2	1	1			64.2%

si/ai

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	3	1	0	66.7%	27.2%	13.3%
1-2	2	0	0	66.7%	27.2%	13.3%
2-3	2	1	0	33.3%	27.2%	-20.0%
3-4	1	0	0	33.3%	27.2%	-20.0%
4-5	1	0	0	33.3%	27.2%	-20.0%
5-	1	0	1			86.7%

Table 89-1
Liver metastasis (synchronous)
Colon cancer, surgical cases

H0

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	2168	129	107	93.9%	0.5%	92.9% 94.9%
1-2	1932	101	79	88.9%	0.7%	87.5% 90.2%
2-3	1752	73	80	85.1%	0.8%	83.5% 86.6%
3-4	1599	67	81	81.4%	0.9%	79.7% 83.2%
4-5	1451	37	115	79.3%	0.9%	77.5% 81.1%
5-	1299	93	1206			

H1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	93	21	4	76.9%	4.4%	68.3% 85.6%
1-2	68	14	3	60.7%	5.2%	50.6% 70.9%
2-3	51	8	4	50.8%	5.4%	40.2% 61.4%
3-4	39	4	1	45.5%	5.4%	34.9% 56.2%
4-5	34	8	2	34.5%	5.3%	24.0% 45.0%
5-	24	4	20			

H2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	56	17	4	68.5%	6.3%	56.1% 80.9%
1-2	35	11	0	47.0%	6.9%	33.4% 60.5%
2-3	24	7	2	32.7%	6.6%	19.8% 45.6%
3-4	15	1	1	30.4%	6.5%	17.7% 43.2%
4-5	13	1	0	28.1%	6.4%	15.5% 40.7%
5-	12	3	9			

H3

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	163	93	9	41.3%	3.9%	33.7% 49.0%
1-2	61	34	2	17.9%	3.1%	11.8% 24.1%
2-3	25	12	1	9.1%	2.4%	4.4% 13.9%
3-4	12	5	1	5.2%	1.9%	1.4% 8.9%
4-5	6	0	0	5.2%	1.9%	1.4% 8.9%
5-	6	1	5			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 89-2
Liver metastasis (synchronous)
Rectal cancer, surgical cases

H0

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1475	71	78	95.1%	0.6%	93.9% 96.2%
1-2	1326	83	39	89.0%	0.8%	87.4% 90.7%
2-3	1204	78	46	83.1%	1.0%	81.2% 85.1%
3-4	1080	47	48	79.4%	1.1%	77.3% 81.6%
4-5	985	36	52	76.5%	1.2%	74.2% 78.7%
5-	897	61	836			

H1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	57	12	3	78.4%	5.5%	67.5% 89.2%
1-2	42	15	2	49.7%	6.9%	36.3% 63.1%
2-3	25	6	0	37.8%	6.7%	24.6% 51.0%
3-4	19	3	3	31.3%	6.5%	18.5% 44.1%
4-5	13	2	0	26.5%	6.3%	14.0% 38.9%
5-	11	2	9			

H2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	35	12	1	65.2%	8.1%	49.3% 81.1%
1-2	22	8	0	41.5%	8.4%	24.9% 58.1%
2-3	14	8	0	17.8%	6.6%	4.9% 30.7%
3-4	6	5	0	3.0%	2.9%	-2.8% 8.7%
4-5	1	0	0	3.0%	2.9%	-2.8% 8.7%
5-	1	0	1			

H3

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	93	51	3	44.3%	5.2%	34.1% 54.4%
1-2	39	22	3	18.3%	4.2%	10.1% 26.4%
2-3	14	8	0	7.8%	3.0%	2.0% 13.7%
3-4	6	4	0	2.6%	1.8%	-0.9% 6.2%
4-5	2	0	0	2.6%	1.8%	-0.9% 6.2%
5-	2	1	1			

Table 90-1

Peritoneal metastasis (synchronous)

Colon cancer, surgical cases

P0

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	2342	176	118	92.3%	0.6%	91.2% 93.4%
1-2	2048	132	82	86.2%	0.7%	84.8% 87.7%
2-3	1834	92	86	81.8%	0.8%	80.2% 83.4%
3-4	1656	76	86	77.9%	0.9%	76.2% 79.7%
4-5	1494	45	117	75.5%	0.9%	73.7% 77.3%
5-	1332	98	1234			

P1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	49	23	3	51.6%	7.3%	37.4% 65.8%
1-2	23	9	1	30.9%	6.9%	17.5% 44.4%
2-3	13	2	1	26.0%	6.6%	13.0% 38.9%
3-4	10	3	0	18.2%	6.0%	6.5% 29.9%
4-5	7	2	0	13.0%	5.3%	2.7% 23.3%
5-	5	1	4			

P2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	37	18	3	49.3%	8.4%	32.8% 65.7%
1-2	16	6	0	30.8%	7.9%	15.2% 46.4%
2-3	10	5	0	15.4%	6.3%	3.1% 27.7%
3-4	5	1	0	12.3%	5.7%	1.1% 23.6%
4-5	4	0	0	12.3%	5.7%	1.1% 23.6%
5-	4	1	3			

P3

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	61	43	2	28.3%	5.8%	16.9% 39.7%
1-2	16	12	0	7.1%	3.4%	0.4% 13.7%
2-3	4	2	0	3.5%	2.5%	-1.3% 8.3%
3-4	2	0	0	3.5%	2.5%	-1.3% 8.3%
4-5	2	0	0	3.5%	2.5%	-1.3% 8.3%
5-	2	1	1			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 90-2
Peritoneal metastasis (synchronous)
Rectal cancer, surgical cases

P0

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1582	111	78	92.8%	0.7%	91.5% 94.1%
1-2	1393	116	45	85.0%	0.9%	83.1% 86.8%
2-3	1232	95	43	78.3%	1.1%	76.2% 80.4%
3-4	1094	57	50	74.1%	1.1%	71.9% 76.4%
4-5	987	34	51	71.5%	1.2%	69.1% 73.8%
5-	902	63	839			

P1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	45	15	4	65.1%	7.3%	50.9% 79.4%
1-2	26	9	0	42.6%	7.7%	27.5% 57.7%
2-3	17	3	2	34.6%	7.5%	19.9% 49.3%
3-4	12	1	0	31.7%	7.4%	17.2% 46.3%
4-5	11	5	0	17.3%	6.3%	5.0% 29.5%
5-	6	0	6			

P2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	8	5	0	37.5%	17.1%	4.0% 71.0%
1-2	3	2	0	12.5%	11.7%	-10.4% 35.4%
2-3	1	0	0	12.5%	11.7%	-10.4% 35.4%
3-4	1	0	0	12.5%	11.7%	-10.4% 35.4%
4-5	1	0	0	12.5%	11.7%	-10.4% 35.4%
5-	1	1	0			

P3

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	16	12	2	20.0%	10.3%	-0.2% 40.2%
1-2	2	0	0	20.0%	10.3%	-0.2% 40.2%
2-3	2	2	0	0.0%		
3-4	0	0	0			
4-5	0	0	0			
5-	0	0	0			

Table 91-1

Lung metastasis (synchronous)

Colon cancer, surgical cases

PM0

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	2330	214	123	90.6%	0.6%	89.4% 91.8%
1-2	1993	151	80	83.6%	0.8%	82.0% 85.1%
2-3	1762	86	86	79.4%	0.9%	77.7% 81.1%
3-4	1590	74	84	75.6%	0.9%	73.8% 77.4%
4-5	1432	41	117	73.3%	1.0%	71.4% 75.2%
5-	1274	90	1184			

PM1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	33	13	1	60.0%	8.6%	43.2% 76.8%
1-2	19	2	2	53.3%	8.8%	36.0% 70.7%
2-3	15	3	1	42.3%	9.0%	24.6% 60.0%
3-4	11	2	0	34.6%	8.9%	17.2% 52.0%
4-5	9	1	0	30.8%	8.7%	13.8% 47.8%
5-	8	2	6			

PM2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	6	2	0	66.7%	19.2%	28.9% 104.4%
1-2	4	1	0	50.0%	20.4%	10.0% 90.0%
2-3	3	1	0	33.3%	19.2%	-4.4% 71.1%
3-4	2	1	1	11.1%	14.3%	-17.0% 39.2%
4-5	0	0	0			
5-	0	0	0			

PM3

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	24	14	0	41.7%	10.1%	21.9% 61.4%
1-2	10	5	1	19.7%	8.3%	3.5% 35.9%
2-3	4	1	0	14.8%	7.5%	0.0% 29.6%
3-4	3	1	1	8.9%	6.4%	-3.7% 21.5%
4-5	1	1	0	0.0%		
5-	0	0	0			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 91-2
Lung metastasis (synchronous)
Rectal cancer, surgical cases

PM0

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1574	120	81	92.2%	0.7%	90.8% 93.5%
1-2	1373	111	44	84.6%	0.9%	82.8% 86.4%
2-3	1218	90	45	78.2%	1.1%	76.1% 80.3%
3-4	1083	56	51	74.1%	1.2%	71.8% 76.4%
4-5	976	38	53	71.1%	1.2%	68.8% 73.5%
5-	885	63	822			

PM1

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	23	11	3	48.8%	10.8%	27.7% 70.0%
1-2	9	3	0	32.6%	10.5%	12.0% 53.2%
2-3	6	2	2	19.5%	9.5%	0.9% 38.2%
3-4	2	0	0	19.5%	9.5%	0.9% 38.2%
4-5	2	0	0	19.5%	9.5%	0.9% 38.2%
5-	2	0	2			

PM2

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	10	4	0	60.0%	15.5%	29.6% 90.4%
1-2	6	4	0	20.0%	12.6%	-4.8% 44.8%
2-3	2	1	0	10.0%	9.5%	-8.6% 28.6%
3-4	1	1	0	0.0%		
4-5	0	0	0			
5-	0	0	0			

PM3

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	16	5	1	67.7%	11.9%	44.5% 91.0%
1-2	10	6	0	27.1%	11.5%	4.5% 49.7%
2-3	4	3	0	6.8%	6.5%	-6.0% 19.6%
3-4	1	0	0	6.8%	6.5%	-6.0% 19.6%
4-5	1	0	0	6.8%	6.5%	-6.0% 19.6%
5-	1	1	0			

Table 92-1
 Distant metastasis (synchronous)
 Colon cancer, surgical cases

M(-)

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	2320	212	123	90.6%	0.6%	89.4% 91.8%
1-2	1985	151	82	83.6%	0.8%	82.0% 85.1%
2-3	1752	88	87	79.3%	0.9%	77.6% 81.0%
3-4	1577	74	85	75.4%	0.9%	73.6% 77.3%
4-5	1418	39	117	73.3%	1.0%	71.4% 75.2%
5-	1262	94	1168			

M(+)

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	48	26	1	45.3%	7.2%	31.1% 59.4%
1-2	21	4	1	36.4%	7.0%	22.6% 50.2%
2-3	16	4	0	27.3%	6.6%	14.4% 40.2%
3-4	12	1	1	24.9%	6.4%	12.3% 37.5%
4-5	10	1	0	22.5%	6.3%	10.2% 34.7%
5-	9	1	8			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

Table 92-2
 Distant metastasis (synchronous)
 Rectal cancer, surgical cases

M(-)

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1569	121	83	92.1%	0.7%	90.7% 93.4%
1-2	1365	115	44	84.2%	0.9%	82.3% 86.0%
2-3	1206	95	44	77.4%	1.1%	75.3% 79.6%
3-4	1067	56	50	73.3%	1.2%	71.0% 75.6%
4-5	961	35	53	70.5%	1.2%	68.2% 72.9%
5-	873	60	813			

M(+)

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	26	12	1	52.9%	9.9%	33.6% 72.3%
1-2	13	5	1	31.8%	9.4%	13.3% 50.3%
2-3	7	1	1	26.9%	9.2%	8.9% 44.8%
3-4	5	1	0	21.5%	8.8%	4.3% 38.7%
4-5	4	1	0	16.1%	8.1%	0.3% 31.9%
5-	3	0	3			

Table 93-1
Endoscopic resection
Colon cancer, treated by endoscopy alone

m

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	68	0	15	100.0%	.	.
1-2	53	0	3	100.0%	.	.
2-3	50	0	7	100.0%	.	.
3-4	43	0	6	100.0%	.	.
4-5	37	1	2	97.2%	2.7%	91.9% 102.6%
5-	34	1	33			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	46	0	10	100.0%	.	.
1-2	36	0	2	100.0%	.	.
2-3	34	0	5	100.0%	.	.
3-4	29	0	3	100.0%	.	.
4-5	26	0	2	100.0%	.	.
5-	24	1	23			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	22	0	5	100.0%	.	.
1-2	17	0	1	100.0%	.	.
2-3	16	0	2	100.0%	.	.
3-4	14	0	3	100.0%	.	.
4-5	11	1	0	90.9%	8.7%	73.9% 107.9%
5-	10	0	10			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

sm

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	8	0	0	100.0%	.	.
1-2	8	0	1	100.0%	.	.
2-3	7	0	3	100.0%	.	.
3-4	4	0	0	100.0%	.	.
4-5	4	0	0	100.0%	.	.
5-	4	0	4	100.0%	.	.

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	7	0	0	100.0%	.	.
1-2	7	0	1	100.0%	.	.
2-3	6	0	2	100.0%	.	.
3-4	4	0	0	100.0%	.	.
4-5	4	0	0	100.0%	.	.
5-	4	0	4	100.0%	.	.

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	1	0	0	100.0%	.	.
1-2	1	0	0	100.0%	.	.
2-3	1	0	1	100.0%	.	.
3-4	0	0	0			
4-5	0	0	0			
5-	0	0	0			

Table 93-2
 Endoscopic resection
 Rectal cancer, treated by endoscopy alone

m

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	20	0	3	100.0%	.	.
1-2	17	0	3	100.0%	.	.
2-3	14	0	2	100.0%	.	.
3-4	12	0	2	100.0%	.	.
4-5	10	0	1	100.0%	.	.
5-	9	0	9			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	15	0	1	100.0%	.	.
1-2	14	0	2	100.0%	.	.
2-3	12	0	1	100.0%	.	.
3-4	11	0	2	100.0%	.	.
4-5	9	0	1	100.0%	.	.
5-	8	0	8			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	5	0	2	100.0%	.	.
1-2	3	0	1	100.0%	.	.
2-3	2	0	1	100.0%	.	.
3-4	1	0	0	100.0%	.	.
4-5	1	0	0	100.0%	.	.
5-	1	0	1			

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

sm

Males and females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	7	0	2	100.0%	.	.
1-2	5	0	1	100.0%	.	.
2-3	4	0	2	100.0%	.	.
3-4	2	0	0	100.0%	.	.
4-5	2	0	1	100.0%	.	.
5-	1	0	1			

Males

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	3	0	0	100.0%	.	.
1-2	3	0	1	100.0%	.	.
2-3	2	0	1	100.0%	.	.
3-4	1	0	0	100.0%	.	.
4-5	1	0	0	100.0%	.	.
5-	1	0	1			

Females

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	4	0	2	100.0%	.	.
1-2	2	0	0	100.0%	.	.
2-3	2	0	1	100.0%	.	.
3-4	1	0	0	100.0%	.	.
4-5	1	0	1	100.0%	.	.
5-	0	0	0			

Table 94

Colon and rectal cancer at institues with high proportion for follow-up (>90%), surgical cases

Colon cancer

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	624	61	3	90.2%	1.2%	87.9%
1-2	560	45	5	82.9%	1.5%	80.0%
2-3	510	24	0	79.0%	1.6%	75.8%
3-4	486	28	3	74.5%	1.7%	71.0%
4-5	455	14	7	72.1%	1.8%	68.6%
5-	434	40	394			75.7%

Rectal cancer

Year	Alive	Died	Lost	SR	SE	95%CI
0-1	395	29	0	92.7%	1.3%	90.1%
1-2	366	39	0	82.8%	1.9%	79.1%
2-3	327	21	0	77.5%	2.1%	73.3%
3-4	306	16	1	73.4%	2.2%	69.1%
4-5	289	10	0	70.9%	2.3%	66.4%
5-	279	20	259			75.4%

Year=Year after treatment; Alive=Number alive at beginning of year; Died=Number died during year;

Lost=Number last seen alive during year; SR=Survival rate at end of year; SE=standard error; 95% CI=95 percent confidence interval

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